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ClickHouseInstallations

描述

define a set of Kubernetes resources (StatefulSet, PVC, Service, ConfigMap) which describe behavior one or more ClickHouse clusters

类型

`object`

必填

`spec`

规格

属性	类型	描述
<code>apiVersion</code>	<code>string</code>	APIVersion defines the versioned schema of this representation of an object. Servers should convert recognized schemas to the latest internal value, and may reject unrecognized values. More info: https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#resources
<code>kind</code>	<code>string</code>	Kind is a string value representing the REST resource this object represents. Servers may infer this from the endpoint

属性	类型	描述
		the client submits requests to. Cannot be updated. In CamelCase. More info: https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#types-kinds
metadata	ObjectMeta	ObjectMeta is metadata that all persisted resources must have, which includes all objects users must create.
status	object	Current ClickHouseInstallation manifest status, contains many fields like a normalized configuration, clickhouse-operator version, current action and all applied action list, current taskID and all applied taskIDs and other
spec	object	Specification of the desired behavior of one or more ClickHouse clusters More info: https://github.com/Altinity/clickhouse-operator/blob/master/docs/custom_resource_explained.md

.status

描述

Current ClickHouseInstallation manifest status, contains many fields like a normalized configuration, clickhouse-operator version, current action and all applied action list, current taskID and all applied taskIDs and other

类型

object

属性	类型	描述
chop-version	string	ClickHouse operator version
chop-commit	string	ClickHouse operator git commit SHA
chop-date	string	ClickHouse operator build date
chop-ip	string	IP address of the operator's pod which managed this CHI
clusters	integer	Clusters count
shards	integer	Shards count
replicas	integer	Replicas count
hosts	integer	Hosts count
status	string	Status
taskID	string	Current task id

属性	类型	描述
<code>taskIDsStarted</code>	<code>array</code>	Started task ids
<code>taskIDsCompleted</code>	<code>array</code>	Completed task ids
<code>action</code>	<code>string</code>	Action
<code>actions</code>	<code>array</code>	Actions
<code>error</code>	<code>string</code>	Last error
<code>errors</code>	<code>array</code>	Errors
<code>updated</code>	<code>integer</code>	Updated Hosts count
<code>added</code>	<code>integer</code>	Added Hosts count
<code>deleted</code>	<code>integer</code>	Deleted Hosts count
<code>delete</code>	<code>integer</code>	About to delete Hosts count

属性	类型	描述
pods	array	Pods
pod-ips	array	Pod IPs
fqdns	array	Pods FQDNs
endpoint	string	Endpoint
generation	integer	Generation
normalized	object	Normalized CHI requested
normalizedCompleted	object	Normalized CHI completed

.status.taskIDsStarted

描述

Started task ids

类型

array

.status.taskIDsStarted[]

类型

string

.status.taskIDsCompleted

描述

Completed task ids

类型

array

.status.taskIDsCompleted[]

类型

string

.status.actions

描述

Actions

类型

array

.status.actions[]

类型

string

.status.errors

描述

Errors

类型

array

.status.errors[]

类型

string

.status.pods

描述

Pods

类型

array

.status.pods[]

类型

string

.status.pod-ips

描述

Pod IPs

类型

array

.status.pod-ips[]

类型

string

.status.fqdns

描述

Pods FQDNs

类型

array

.status.fqdns[]

类型

string

.status.normalized

描述

Normalized CHI requested

类型

object

.status.normalizedCompleted

描述

Normalized CHI completed

类型

object

.spec

描述

Specification of the desired behavior of one or more ClickHouse clusters More info:
https://github.com/Altinity/clickhouse-operator/blob/master/docs/custom_resource_explained.md

类型

object

属性	类型	描述
taskID	string	Allows to define custom taskID for named update o status of this update execution in .status.taskIDs fie update of chi manifest will generate random taskID
stop	string	Allow stop all ClickHouse clusters described in curr mechanism works as follows: - When stop is 1 then setup Replicas: 0 current chi StatefulSet resource, all Pods a resources will descstroy, but PVCs still live - When stop is 0 then Pods will created ag retained PVCs and Service also will created
restart	string	This is a 'soft restart' button. When set to 'RollingUp restart ClickHouse pods in a graceful way. Remove order to avoid unneeded restarts
troubleshoot	string	allows troubleshoot Pods during CrashLoopBack si wrong configuration, clickhouse-server wouldr
namespaceDomainPattern	string	custom domain suffix which will add to end of Ser use it when you use custom cluster domain in your

属性	类型	描述
<code>templating</code>	<code>object</code>	optional, define policy for auto applying ClickHouse inside ClickHouseInstallation
<code>reconciling</code>	<code>object</code>	optional, allows tuning reconciling cycle for Clickho clickhouse-operator side
<code>defaults</code>	<code>object</code>	define default behavior for whole ClickHouseInstall can be re-define on cluster, shard and replica level https://github.com/Altinity/clickhouse-operator/blob/master/docs/custom_resource_expla
<code>configuration</code>	<code>object</code>	allows configure multiple aspects and behavior for <code>server</code> instance and also allows describe multiple <code>server</code> clusters inside one <code>chi</code> resource
<code>templates</code>	<code>object</code>	allows define templates which will use for render Ki like StatefulSet, ConfigMap, Service, PVC, by defa operator have own templates, but you can override
<code>useTemplates</code>	<code>array</code>	list of <code>ClickHouseInstallationTemplate</code> (chit) r will merge with current <code>Chi</code> manifest during rende resources to create related ClickHouse clusters

.spec.templating

描述

optional, define policy for auto applying ClickHouseInstallationTemplate inside ClickHouseInstallation

类型

object

属性	类型	描述
policy	string	when defined as <code>auto</code> inside ClickhouseInstallationTemplate, it will auto add into all ClickHouseInstallation, manual value is default

.spec.reconciling

描述

optional, allows tuning reconciling cycle for ClickhouseInstallation from clickhouse-operator side

类型

object

属性	类型	描述
policy	string	DEPRECATED
configMapPropagationTimeout	integer	timeout in seconds when <code>clickhouse-operator</code> applied <code>ConfigMap</code> during reconcile <code>ClickHouseInstallation</code> pods will updated from cache see details: https://kubernetes.io/docs/concepts/configuration/configmaps-are-updated-automatically/

属性	类型	描述
<code>cleanup</code>	<code>object</code>	optional, define behavior for cleanup Kubernetes resources during reconcile cycle

.spec.reconciling.cleanup

描述

optional, define behavior for cleanup Kubernetes resources during reconcile cycle

类型

`object`

属性	类型	描述
<code>unknownObjects</code>	<code>object</code>	what clickhouse-operator shall do when found Kubernetes resources which should be managed with clickhouse-operator, but not have <code>ownerReference</code> to any currently managed <code>ClickHouseInstallation</code> resource, default behavior is <code>Delete</code>
<code>reconcileFailedObjects</code>	<code>object</code>	what clickhouse-operator shall do when reconciling Kubernetes resources are failed, default behavior is <code>Retain</code>

.spec.reconciling.cleanup.unknownObjects

描述

what clickhouse-operator shall do when found Kubernetes resources which should be managed with clickhouse-operator, but not have ``ownerReference`` to any currently

managed `ClickHouseInstallation` resource, default behavior is `Delete`

类型

object

属性	类型	描述
statefulSet	string	behavior policy for unknown StatefulSet, Delete by default
pvc	string	behavior policy for unknown PVC, Delete by default
configMap	string	behavior policy for unknown ConfigMap, Delete by default
service	string	behavior policy for unknown Service, Delete by default

.spec.reconciling.cleanup.reconcileFailedObjects

描述

what clickhouse-operator shall do when reconciling Kubernetes resources are failed, default behavior is `Retain`

类型

object

属性	类型	描述
statefulSet	string	behavior policy for failed StatefulSet reconciling, Retain by default

属性	类型	描述
<code>pvc</code>	<code>string</code>	behavior policy for failed PVC reconciling, Retain by default
<code>configMap</code>	<code>string</code>	behavior policy for failed ConfigMap reconciling, Retain by default
<code>service</code>	<code>string</code>	behavior policy for failed Service reconciling, Retain by default

.spec.defaults

描述

define default behavior for whole ClickHouseInstallation, some behavior can be re-define on cluster, shard and replica level More info: https://github.com/Altinity/clickhouse-operator/blob/master/docs/custom_resource_explained.md#specdefaults

类型

`object`

属性	类型	描述
<code>replicasUseFQDN</code>	<code>string</code>	define should replicas be specified by FQDN in <code><host></host></code> . In case of "no" will use short hostname and clickhouse-server will use kubernetes default suffixes for DNS lookup "yes" by default

属性	类型	描述
distributedDDL	object	allows change <code><yandex><distributed_ddl></code> <code></distributed_ddl></yandex></code> settings More info: https://clickhouse.tech/docs/en/operations/server-configuration-parameters/settings/#server-settings-distributed_ddl ↗
storageManagement	object	default storage management options
templates	object	optional, configuration of the templates names which will use for generate Kubernetes resources according to one or more ClickHouse clusters described in current ClickHouseInstallation (chi) resource

.spec.defaults.distributedDDL

描述

allows change ``<yandex><distributed_ddl></distributed_ddl></yandex>`` settings More info:
https://clickhouse.tech/docs/en/operations/server-configuration-parameters/settings/#server-settings-distributed_ddl

类型

object

属性	类型	描述
profile	string	Settings from this profile will be used to execute DDL queries

.spec.defaults.storageManagement

描述

default storage management options

类型

object

属性	类型	描述
provisioner	string	defines <code>PVC</code> provisioner - be it StatefulSet or the Operator
reclaimPolicy	string	defines behavior of <code>PVC</code> deletion. <code>Delete</code> by default, if <code>Retain</code> specified then <code>PVC</code> will be kept when deleting StatefulSet

.spec.defaults.templates

描述

optional, configuration of the templates names which will use for generate Kubernetes resources according to one or more ClickHouse clusters described in current ClickHouseInstallation (chi) resource

类型

object

属性	类型	描述
hostTemplate	string	optional, template name from chi.spec.templates.hostTemplates, which will apply to configure every <code>clickhouse-</code>

属性	类型	描述
		<code>server</code> instance during render ConfigMap resources which will mount into <code>Pod</code>
<code>podTemplate</code>	<code>string</code>	optional, template name from <code>chi.spec.templates.podTemplates</code> , allows customization each <code>Pod</code> resource during render and reconcile each <code>StatefulSet.spec</code> resource described in <code>chi.spec.configuration.clusters</code>
<code>dataVolumeClaimTemplate</code>	<code>string</code>	optional, template name from <code>chi.spec.templates.volumeClaimTemplates</code> , allows customization each <code>PVC</code> which will mount for clickhouse data directory in each <code>Pod</code> during render and reconcile every <code>StatefulSet.spec</code> resource described in <code>chi.spec.configuration.clusters</code>
<code>logVolumeClaimTemplate</code>	<code>string</code>	optional, template name from <code>chi.spec.templates.volumeClaimTemplates</code> , allows customization each <code>PVC</code> which will mount for clickhouse log directory in each <code>Pod</code> during render and reconcile every <code>StatefulSet.spec</code> resource described in <code>chi.spec.configuration.clusters</code>
<code>serviceTemplate</code>	<code>string</code>	optional, template name from <code>chi.spec.templates.serviceTemplates</code> , allows customization for one <code>Service</code> resource

属性	类型	描述
		which will created by <code>clickhouse-operator</code> which cover all clusters in whole <code>chi</code> resource
<code>clusterServiceTemplate</code>	<code>string</code>	optional, template name from <code>chi.spec.templates.serviceTemplates</code> , allows customization for each <code>Service</code> resource which will created by <code>clickhouse-operator</code> which cover each clickhouse cluster described in <code>chi.spec.configuration.clusters</code>
<code>shardServiceTemplate</code>	<code>string</code>	optional, template name from <code>chi.spec.templates.serviceTemplates</code> , allows customization for each <code>Service</code> resource which will created by <code>clickhouse-operator</code> which cover each shard inside clickhouse cluster described in <code>chi.spec.configuration.clusters</code>
<code>replicaServiceTemplate</code>	<code>string</code>	optional, template name from <code>chi.spec.templates.serviceTemplates</code> , allows customization for each <code>Service</code> resource which will created by <code>clickhouse-operator</code> which cover each replica inside each shard inside each clickhouse cluster described in <code>chi.spec.configuration.clusters</code>

属性	类型	描述
volumeClaimTemplate	string	DEPRECATED! VolumeClaimTemplate is deprecated in favor of DataVolumeClaimTemplate and LogVolumeClaimTemplate

.spec.configuration

描述

allows configure multiple aspects and behavior for `clickhouse-server` instance and also allows describe multiple `clickhouse-server` clusters inside one `chi` resource

类型

object

属性	类型	描述
zookeeper	object	allows configure .. section in each Pod during generate ConfigMap. ConfigMap is mounted in /etc/clickhouse-server/config.d/ clickhouse-server doesn't manage Zookeeper, please install Zookeeper separatelly. https://github.com/Altinity/clickhouse-operator/tree/master/deploy currently, zookeeper (or clickhouse-keeper replacement) used for *ReplicatedMergeTree table engines and for distributed_ddl_table engine. https://clickhouse.tech/docs/en/operations/server-configuration-parameters/settings/#server-settings_zookeeper
users	object	allows configure .. section in each Pod during generate ConfigMap. ConfigMap is mount in /etc/clickhouse-server/users.d/ you can configure users, hashed, authorization restrictions, database level security row filter. https://clickhouse.tech/docs/en/operations/settings/settings-user

属性	类型	描述
		will convert to XML, see examples https://github.com/Altinity/clickhouse-operator/blob/master/docs/custom_resource_explained.md#spe
profiles	object	allows configure .. section in each <code>Pod</code> during generate <code>ConfigMap</code> which will mount in <code>/etc/clickhouse-server/users.d/</code> you can configure settings profile More details: https://clickhouse.tech/docs/en/operations/settings/settings-profiles will convert to XML, see examples https://github.com/Altinity/clickhouse-operator/blob/master/docs/custom_resource_explained.md#spe
quotas	object	allows configure .. section in each <code>Pod</code> during generate <code>ConfigMap</code> which will mount in <code>/etc/clickhouse-server/users.d/</code> you can configure resource quotas More details: https://clickhouse.tech/docs/en/operations/settings/settings-quotas Your yaml code will convert to XML, see examples https://github.com/Altinity/clickhouse-operator/blob/master/docs/custom_resource_explained.md#spe
settings	object	allows configure <code>clickhouse-server</code> settings inside ... tag in generate <code>ConfigMap</code> which will mount in <code>/etc/clickhouse-server/settings.d/</code> More details: https://clickhouse.tech/docs/en/operations/settings/settings-configuration code will convert to XML, see examples https://github.com/Altinity/clickhouse-operator/blob/master/docs/custom_resource_explained.md#spe
files	object	allows define content of any setting file inside each <code>Pod</code> during generate <code>ConfigMap</code> which will mount in <code>/etc/clickhouse-server/config.d/</code> or <code>/etc/clickhouse-server/conf.d/</code>

属性	类型	描述
		every key in this object is the file name every value in this object you can use <code>!!binary</code> and base64 for binary files, see details https://yaml.org/type/binary.html each key could contains prefixes COMMON, HOST or config.d, users.d, cond.d, wrong prefixes will also will ignored More details: https://github.com/Altinity/clickhouse-operator/blob/master/docs/chi-examples/05-settings-05-files-ne
<code>clusters</code>	<code>array</code>	describes ClickHouse clusters layout and allows change settings: shard-level and replica-level every cluster is a set of StatefulSet contains only one Pod with <code>clickhouse-server</code> all Pods will run <code><remote_server></code> part of ClickHouse configs, mounted from <code>/etc/clickhouse-server/config.d/chop-generated-remote</code> Clusters will use for Distributed table engine, more details: https://clickhouse.tech/docs/en/engines/table-engines/special/distributed <code>cluster</code> contains zookeeper settings (could be inherited from <code>zookeeper</code> when you can create <code>*ReplicatedMergeTree</code> tables

.spec.configuration.zookeeper

描述

allows configure `<yandex><zookeeper>..</zookeeper></yandex>` section in each ``Pod`` during generate ``ConfigMap`` which will mounted in ``/etc/clickhouse-server/config.d/`` ``clickhouse-operator`` itself doesn't manage Zookeeper, please install Zookeeper separately look examples on <https://github.com/Altinity/clickhouse-operator/tree/master/deploy/zookeeper/> currently, zookeeper (or clickhouse-keeper replacement) used for `*ReplicatedMergeTree` table engines and for ``distributed_ddl`` More details: https://clickhouse.tech/docs/en/operations/server-configuration-parameters/settings/#server-settings_zookeeper

类型

`object`

属性	类型	描述
nodes	array	describe every available zookeeper cluster node for interaction
session_timeout_ms	integer	session timeout during connect to Zookeeper
operation_timeout_ms	integer	one operation timeout during Zookeeper transactions
root	string	optional root znode path inside zookeeper to store ClickHouse related data (replication queue or distributed DDL)
identity	string	optional access credentials string with <code>user:password</code> format used when use digest authorization in Zookeeper

.spec.configuration.zookeeper.nodes

描述

describe every available zookeeper cluster node for interaction

类型

array

.spec.configuration.zookeeper.nodes[]

类型

object

属性	类型	描述
host	string	dns name or ip address for Zookeeper node
port	integer	TCP port which used to connect to Zookeeper node

.spec.configuration.users

描述

allows configure `<yandex><users>..</users></yandex>` section in each `Pod` during generate `ConfigMap` which will mount in `/etc/clickhouse-server/users.d/` you can configure password hashed, authorization restrictions, database level security row filters etc. More details: <https://clickhouse.tech/docs/en/operations/settings/settings-users/> Your yaml code will convert to XML, see examples https://github.com/Altinity/clickhouse-operator/blob/master/docs/custom_resource_explained.md#specconfigurationusers

类型

object

.spec.configuration.profiles

描述

allows configure `<yandex><profiles>..</profiles></yandex>` section in each `Pod` during generate `ConfigMap` which will mount in `/etc/clickhouse-server/users.d/` you can configure any aspect of settings profile More details: <https://clickhouse.tech/docs/en/operations/settings/settings-profiles/> Your yaml code will convert to XML, see examples https://github.com/Altinity/clickhouse-operator/blob/master/docs/custom_resource_explained.md#specconfigurationprofiles

类型

object

.spec.configuration.quotas

描述

allows configure `<yandex><quotas>..</quotas></yandex>` section in each `Pod` during generate `ConfigMap` which will mount in `/etc/clickhouse-server/users.d/` you can configure any aspect of resource quotas More details:

<https://clickhouse.tech/docs/en/operations/quotas/> Your yaml code will convert to XML, see examples https://github.com/Altinity/clickhouse-operator/blob/master/docs/custom_resource_explained.md#specconfigurationquotas

类型

object

.spec.configuration.settings

描述

allows configure `clickhouse-server` settings inside `<yandex>...</yandex>` tag in each `Pod` during generate `ConfigMap` which will mount in `/etc/clickhouse-server/config.d/` More details: <https://clickhouse.tech/docs/en/operations/settings/settings/> Your yaml code will convert to XML, see examples https://github.com/Altinity/clickhouse-operator/blob/master/docs/custom_resource_explained.md#specconfigurationsettings

类型

object

.spec.configuration.files

描述

allows define content of any setting file inside each `Pod` during generate `ConfigMap` which will mount in `/etc/clickhouse-server/config.d/` or `/etc/clickhouse-server/conf.d/` or `/etc/clickhouse-server/users.d/` every key in this object is the file name every value in this object is the file content you can use `!!binary |` and base64 for binary files, see details here <https://yaml.org/type/binary.html> each key could contains prefix like USERS, COMMON, HOST or config.d, users.d, cond.d, wrong prefixes will ignored, subfolders also will ignored More details: <https://github.com/Altinity/clickhouse-operator/blob/master/docs/chi-examples/05-settings-05-files-nested.yaml>

类型

object

.spec.configuration.clusters

描述

describes ClickHouse clusters layout and allows change settings on cluster-level, shard-level and replica-level every cluster is a set of StatefulSet, one StatefulSet contains only one Pod with `clickhouse-server` all Pods will rendered in <remote_server> part of ClickHouse configs, mounted from ConfigMap as `etc/clickhouse-server/config.d/chop-generated-remote\_servers.xml` Clusters will use for Distributed table engine, more details: <https://clickhouse.tech/docs/en/engines/table-engines/special/distributed/> If `cluster` contains zookeeper settings (could be inherited from top `chi` level), when you can create *ReplicatedMergeTree tables

类型

array

.spec.configuration.clusters[]

类型

object

属性	类型	描述
name	string	cluster name, used to identify set of ClickHouse servers and wide used during generate names of related Kubernetes resources
zookeeper	object	optional, allows configure .. section in each Pod only in current ClickHouse cluster, during generate ConfigMap which will mounted in etc/clickhouse-

属性	类型	描述
		<code>server/config.d/</code> override top-level <code>chi.spec.configuration.zookeeper</code> settings
<code>settings</code>	<code>object</code>	optional, allows configure <code>clickhouse-server</code> settings inside ... tag in each <code>Pod</code> only in one cluster during generate <code>ConfigMap</code> which will mount in <code>/etc/clickhouse-server/config.d/</code> override top-level <code>chi.spec.configuration.settings</code> More details: https://clickhouse.tech/docs/en/operations/settings/settings/
<code>files</code>	<code>object</code>	optional, allows define content of any setting file inside each <code>Pod</code> on current cluster during generate <code>ConfigMap</code> which will mount in <code>/etc/clickhouse-server/config.d/</code> or <code>/etc/clickhouse-server/conf.d/</code> or <code>/etc/clickhouse-server/users.d/</code> override top-level <code>chi.spec.configuration.files</code>
<code>templates</code>	<code>object</code>	optional, configuration of the templates names which will use for generate Kubernetes resources according to selected cluster override top-level <code>chi.spec.configuration.templates</code>
<code>schemaPolicy</code>	<code>object</code>	describes how schema is propagated within replicas and shards

属性	类型	描述
<code>secret</code>	<code>object</code>	optional, shared secret value to secure cluster communications
<code>layout</code>	<code>object</code>	describe current cluster layout, how much shards in cluster, how much replica in shard allows override settings on each shard and replica separatelly

.spec.configuration.clusters[].zookeeper

描述

optional, allows configure `<yandex><zookeeper>..</zookeeper></yandex>` section in each `Pod` only in current ClickHouse cluster, during generate `ConfigMap` which will mounted in `/etc/clickhouse-server/config.d` override top-level `chi.spec.configuration.zookeeper` settings

类型

`object`

属性	类型	描述
<code>nodes</code>	<code>array</code>	describe every available zookeeper cluster node for interaction
<code>session_timeout_ms</code>	<code>integer</code>	session timeout during connect to Zookeeper
<code>operation_timeout_ms</code>	<code>integer</code>	one operation timeout during Zookeeper transactions

属性	类型	描述
<code>root</code>	<code>string</code>	optional root znode path inside zookeeper to store ClickHouse related data (replication queue or distributed DDL)
<code>identity</code>	<code>string</code>	optional access credentials string with <code>user:password</code> format used when use digest authorization in Zookeeper

.spec.configuration.clusters[].zookeeper.nodes

描述

describe every available zookeeper cluster node for interaction

类型

`array`

.spec.configuration.clusters[].zookeeper.nodes[]

类型

`object`

属性	类型	描述
<code>host</code>	<code>string</code>	dns name or ip address for Zookeeper node
<code>port</code>	<code>integer</code>	TCP port which used to connect to Zookeeper node

.spec.configuration.clusters[].settings

描述

optional, allows configure `clickhouse-server` settings inside `<yandex>...</yandex>` tag in each `Pod` only in one cluster during generate `ConfigMap` which will mount in `/etc/clickhouse-server/config.d/` override top-level `chi.spec.configuration.settings` More details: https://clickhouse.tech/docs/en/operations/settings/settings/`

类型

object

.spec.configuration.clusters[].files

描述

optional, allows define content of any setting file inside each `Pod` on current cluster during generate `ConfigMap` which will mount in `/etc/clickhouse-server/config.d/` or /etc/clickhouse-server/conf.d/` or /etc/clickhouse-server/users.d/` override top-level `chi.spec.configuration.files``

类型

object

.spec.configuration.clusters[].templates

描述

optional, configuration of the templates names which will use for generate Kubernetes resources according to selected cluster override top-level `chi.spec.configuration.templates`

类型

object

属性	类型	描述
<code>hostTemplate</code>	<code>string</code>	optional, template name from <code>chi.spec.templates.hostTemplates</code> , which will apply to configure every <code>clickhouse-</code>

属性	类型	描述
		<code>server</code> instance during render ConfigMap resources which will mount into <code>Pod</code>
<code>podTemplate</code>	<code>string</code>	optional, template name from <code>chi.spec.templates.podTemplates</code> , allows customization each <code>Pod</code> resource during render and reconcile each <code>StatefulSet.spec</code> resource described in <code>chi.spec.configuration.clusters</code>
<code>dataVolumeClaimTemplate</code>	<code>string</code>	optional, template name from <code>chi.spec.templates.volumeClaimTemplates</code> , allows customization each <code>PVC</code> which will mount for clickhouse data directory in each <code>Pod</code> during render and reconcile every <code>StatefulSet.spec</code> resource described in <code>chi.spec.configuration.clusters</code>
<code>logVolumeClaimTemplate</code>	<code>string</code>	optional, template name from <code>chi.spec.templates.volumeClaimTemplates</code> , allows customization each <code>PVC</code> which will mount for clickhouse log directory in each <code>Pod</code> during render and reconcile every <code>StatefulSet.spec</code> resource described in <code>chi.spec.configuration.clusters</code>
<code>serviceTemplate</code>	<code>string</code>	optional, template name from <code>chi.spec.templates.serviceTemplates</code> , allows customization for one <code>Service</code> resource

属性	类型	描述
		which will created by <code>clickhouse-operator</code> which cover all clusters in whole <code>chi</code> resource
<code>clusterServiceTemplate</code>	<code>string</code>	optional, template name from <code>chi.spec.templates.serviceTemplates</code> , allows customization for each <code>Service</code> resource which will created by <code>clickhouse-operator</code> which cover each clickhouse cluster described in <code>chi.spec.configuration.clusters</code>
<code>shardServiceTemplate</code>	<code>string</code>	optional, template name from <code>chi.spec.templates.serviceTemplates</code> , allows customization for each <code>Service</code> resource which will created by <code>clickhouse-operator</code> which cover each shard inside clickhouse cluster described in <code>chi.spec.configuration.clusters</code>
<code>replicaServiceTemplate</code>	<code>string</code>	optional, template name from <code>chi.spec.templates.serviceTemplates</code> , allows customization for each <code>Service</code> resource which will created by <code>clickhouse-operator</code> which cover each replica inside each shard inside each clickhouse cluster described in <code>chi.spec.configuration.clusters</code>

属性	类型	描述
<code>volumeClaimTemplate</code>	<code>string</code>	DEPRECATED! VolumeClaimTemplate is deprecated in favor of DataVolumeClaimTemplate and LogVolumeClaimTemplate

.spec.configuration.clusters[].schemaPolicy

描述

describes how schema is propagated within replicas and shards

类型

`object`

属性	类型	描述
<code>replica</code>	<code>string</code>	how schema is propagated within a replica
<code>shard</code>	<code>string</code>	how schema is propagated between shards

.spec.configuration.clusters[].secret

描述

optional, shared secret value to secure cluster communications

类型

`object`

属性	类型	描述
auto	string	Auto-generate shared secret value to secure cluster communications
value	string	Cluster shared secret value in plain text
valueFrom	object	Cluster shared secret source

.spec.configuration.clusters[].secret.valueFrom

描述

Cluster shared secret source

类型

object

属性	类型	描述
secretKeyRef	object	Selects a key of a secret in the clickhouse installation namespace. Should not be used if value is not empty.

.spec.configuration.clusters[].secret.valueFrom.secretKeyRef

描述

Selects a key of a secret in the clickhouse installation namespace. Should not be used if value is not empty.

类型

object

必填

name

key

属性	类型	描述
name	string	Name of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
key	string	The key of the secret to select from. Must be a valid secret key.
optional	boolean	Specify whether the Secret or its key must be defined

.spec.configuration.clusters[].layout

描述

describe current cluster layout, how much shards in cluster, how much replica in shard
allows override settings on each shard and replica separately

类型

object

属性	类型	描述
type	string	DEPRECATED - to be removed soon
shardsCount	integer	how much shards for current ClickHouse cluster will run in Kubernetes, each shard contains shared-nothing part

属性	类型	描述
		of data and contains set of replicas, cluster contains 1 shard by default
replicasCount	integer	how much replicas in each shards for current ClickHouse cluster will run in Kubernetes, each replica is a separate <code>StatefulSet</code> which contains only one <code>Pod</code> with <code>clickhouse-server</code> instance, every shard contains 1 replica by default
shards	array	optional, allows override top-level <code>chi.spec.configuration</code> , cluster-level <code>chi.spec.configuration.clusters</code> settings for each shard separately, use it only if you fully understand what you do
replicas	array	optional, allows override top-level <code>chi.spec.configuration</code> and cluster-level <code>chi.spec.configuration.clusters</code> configuration for each replica and each shard relates to selected replica, use it only if you fully understand what you do

.spec.configuration.clusters[].layout.shards

描述

optional, allows override top-level ``chi.spec.configuration`` , cluster-level ``chi.spec.configuration.clusters`` settings for each shard separately, use it only if you fully understand what you do

类型

array

.spec.configuration.clusters[].layout.shards[]

类型

object

属性	类型	描述
name	string	optional, by default shard name is generated, but you can override it and setup custom name
definitionType	string	DEPRECATED - to be removed soon
weight	integer	optional, 1 by default, allows setup shard setting which during insert into tables with Distributed engine, with <remote_servers> inside ConfigMap which will mount in /etc/clickhouse-server/config.d/chop-generated-remote_servers.xml More details: https://clickhouse.tech/docs/en/engines/table-engines/special/distributed/
internalReplication	string	optional, true by default when chi.spec.configuration.clusters[].layout.Replication > 1 and 0 otherwise allows setup <internal_replication> which will use during insert into tables with Distributed engine for insert only in one live replica and other replicas download inserted data during replication, will apply in <remote_servers> inside ConfigMap which will mount in /etc/clickhouse-server/config.d/chop-generated-remote_servers.xml More details:

属性	类型	描述
		https://clickhouse.tech/docs/en/engines/table-engines/special/distributed/ ↗
settings	object	optional, allows configure <code>clickhouse-server</code> setting ... tag in each <code>Pod</code> only in one shard during generate <code>ConfigMap</code> which will mount in <code>/etc/clickhouse-server/config.d/</code> override top-level <code>chi.spec.configuration.settings</code> and cluster-level <code>chi.spec.configuration.clusters.settings</code> More https://clickhouse.tech/docs/en/operations/settings/seti
files	object	optional, allows define content of any setting file inside <code>Pod</code> only in one shard during generate <code>ConfigMap</code> mount in <code>/etc/clickhouse-server/config.d/</code> or <code>/etc/clickhouse-server/conf.d/</code> or <code>/etc/clickhouse-server/users.d/</code> override top-level <code>chi.spec.configuration.files</code> and cluster-level <code>chi.spec.configuration.clusters.files</code>
templates	object	optional, configuration of the templates names which will generate Kubernetes resources according to selected override top-level <code>chi.spec.configuration.templates</code> cluster-level <code>chi.spec.configuration.clusters.templates</code>
replicasCount	integer	optional, how much replicas in selected shard for selected ClickHouse cluster will run in Kubernetes, each replica separate <code>StatefulSet</code> which contains only one <code>Pod</code> <code>clickhouse-server</code> instance, shard contains 1 replica

属性	类型	描述
		default override cluster-level <code>chi.spec.configuration.clusters.layout.replicas</code>
<code>replicas</code>	<code>array</code>	optional, allows override behavior for selected replicas cluster-level <code>chi.spec.configuration.clusters</code> or level <code>chi.spec.configuration.clusters.layout.sl</code>

.spec.configuration.clusters[].layout.shards[].settings

描述

optional, allows configure `clickhouse-server` settings inside <yandex>...</yandex> tag in each `Pod` only in one shard during generate `ConfigMap` which will mount in `/etc/clickhouse-server/config.d/` override top-level `chi.spec.configuration.settings` and cluster-level `chi.spec.configuration.clusters.settings` More details: <https://clickhouse.tech/docs/en/operations/settings/settings/>

类型

`object`

.spec.configuration.clusters[].layout.shards[].files

描述

optional, allows define content of any setting file inside each `Pod` only in one shard during generate `ConfigMap` which will mount in `/etc/clickhouse-server/config.d/` or `/etc/clickhouse-server/conf.d/` or `/etc/clickhouse-server/users.d/` override top-level `chi.spec.configuration.files` and cluster-level `chi.spec.configuration.clusters.files`

类型

`object`

.spec.configuration.clusters[].layout.shards[].templates

描述

optional, configuration of the templates names which will use for generate Kubernetes resources according to selected shard override top-level `chi.spec.configuration.templates` and cluster-level `chi.spec.configuration.clusters.templates`

类型

object

属性	类型	描述
hostTemplate	string	optional, template name from chi.spec.templates.hostTemplates, which will apply to configure every clickhouse-server instance during render ConfigMap resources which will mount into Pod
podTemplate	string	optional, template name from chi.spec.templates.podTemplates, allows customization each Pod resource during render and reconcile each StatefulSet.spec resource described in chi.spec.configuration.clusters
dataVolumeClaimTemplate	string	optional, template name from chi.spec.templates.volumeClaimTemplates, allows customization each PVC which will mount for clickhouse data directory in each Pod during render and reconcile every StatefulSet.spec resource described in chi.spec.configuration.clusters

属性	类型	描述
logVolumeClaimTemplate	string	optional, template name from <code>chi.spec.templates.volumeClaimTemplates</code> , allows customization each <code>PVC</code> which will mount for clickhouse log directory in each <code>Pod</code> during render and reconcile every <code>StatefulSet.spec</code> resource described in <code>chi.spec.configuration.clusters</code>
serviceTemplate	string	optional, template name from <code>chi.spec.templates.serviceTemplates</code> , allows customization for one <code>Service</code> resource which will created by <code>clickhouse-operator</code> which cover all clusters in whole <code>chi</code> resource
clusterServiceTemplate	string	optional, template name from <code>chi.spec.templates.serviceTemplates</code> , allows customization for each <code>Service</code> resource which will created by <code>clickhouse-operator</code> which cover each clickhouse cluster described in <code>chi.spec.configuration.clusters</code>
shardServiceTemplate	string	optional, template name from <code>chi.spec.templates.serviceTemplates</code> , allows customization for each <code>Service</code> resource which will created by <code>clickhouse-operator</code> which cover each shard inside

属性	类型	描述
		clickhouse cluster described in <code>chi.spec.configuration.clusters</code>
<code>replicaServiceTemplate</code>	<code>string</code>	optional, template name from <code>chi.spec.templates.serviceTemplates</code> , allows customization for each <code>Service</code> resource which will created by <code>clickhouse-operator</code> which cover each replica inside each shard inside each clickhouse cluster described in <code>chi.spec.configuration.clusters</code>
<code>volumeClaimTemplate</code>	<code>string</code>	DEPRECATED! VolumeClaimTemplate is deprecated in favor of DataVolumeClaimTemplate and LogVolumeClaimTemplate

.spec.configuration.clusters[].layout.shards[].replicas

描述

optional, allows override behavior for selected replicas from cluster-level ``chi.spec.configuration.clusters`` and shard-level ``chi.spec.configuration.clusters.layout.shards``

类型

`array`

.spec.configuration.clusters[].layout.shards[].replicas[]

类型

object

属性	类型	描述
name	string	optional, by default replica name is generated, but you and setup custom name
secure	boolean	optional, setup <code>secure</code> inside <code>clickhouse-server</code> each Pod where current template will apply if specified
tcpPort	integer	optional, setup <code>Pod.spec.containers.ports</code> with name selected replica, override <code>chi.spec.templates.hostTemplates.spec.tcpPort</code> connect to <code>clickhouse-server</code> via TCP Native protocol via kubernetes <code>Service</code>
httpPort	integer	optional, setup <code>Pod.spec.containers.ports</code> with name selected replica, override <code>chi.spec.templates.hostTemplates.spec.httpPort</code> connect to <code>clickhouse-server</code> via HTTP protocol via <code>Service</code>
interserverHTTPPort	integer	optional, setup <code>Pod.spec.containers.ports</code> with name <code>interserver</code> for selected replica, override <code>chi.spec.templates.hostTemplates.spec.interserverHTTPPort</code> allows connect between replicas inside same shard distributed replicated data parts HTTP protocol

属性	类型	描述
settings	object	optional, allows configure <code>clickhouse-server</code> setting in <code>Pod</code> only in one replica during generate <code>ConfigMap</code> mount in <code>/etc/clickhouse-server/conf.d/</code> overriding <code>chi.spec.configuration.settings</code>, cluster-level <code>chi.spec.configuration.clusters.settings</code> and <code>chi.spec.configuration.clusters.layout.shards</code> More details: https://clickhouse.tech/docs/en/operations/settings/settings
files	object	optional, allows define content of any setting file inside one replica during generate <code>ConfigMap</code> which will mount in <code>/etc/clickhouse-server/config.d/</code> or <code>/etc/clickhouse-server/conf.d/</code> or <code>/etc/clickhouse-server/user.d/</code> top-level <code>chi.spec.configuration.files</code>, cluster-level <code>chi.spec.configuration.clusters.files</code> and shards-level <code>chi.spec.configuration.clusters.layout.shards.files</code>
templates	object	optional, configuration of the templates names which will generate Kubernetes resources according to selected top-level <code>chi.spec.configuration.templates</code>, cluster-level <code>chi.spec.configuration.clusters.templates</code> and shards-level <code>chi.spec.configuration.clusters.layout.shards.templates</code>

`.spec.configuration.clusters[].layout.shards[].replicas[].settings`

描述

optional, allows configure `clickhouse-server` settings inside `<yandex>...</yandex>` tag in `Pod` only in one replica during generate `ConfigMap` which will mount in `/etc/clickhouse-server/conf.d/` override top-level `chi.spec.configuration.settings`, cluster-level `chi.spec.configuration.clusters.settings` and shard-level `chi.spec.configuration.clusters.layout.shards.settings` More details: https://clickhouse.tech/docs/en/operations/settings/settings/`

类型

object

`.spec.configuration.clusters[].layout.shards[].replicas[].files`

描述

optional, allows define content of any setting file inside `Pod` only in one replica during generate `ConfigMap` which will mount in `/etc/clickhouse-server/config.d/` or /etc/clickhouse-server/conf.d/` or /etc/clickhouse-server/users.d/` override top-level `chi.spec.configuration.files`, cluster-level `chi.spec.configuration.clusters.files` and shard-level `chi.spec.configuration.clusters.layout.shards.files``

类型

object

`.spec.configuration.clusters[].layout.shards[].replicas[].templates`

描述

optional, configuration of the templates names which will use for generate Kubernetes resources according to selected replica override top-level `chi.spec.configuration.templates`, cluster-level `chi.spec.configuration.clusters.templates` and shard-level `chi.spec.configuration.clusters.layout.shards.templates`

类型

object

属性	类型	描述
hostTemplate	string	optional, template name from <code>chi.spec.templates.hostTemplates</code> , which will apply to configure every <code>clickhouse-server</code> instance during render ConfigMap resources which will mount into <code>Pod</code>
podTemplate	string	optional, template name from <code>chi.spec.templates.podTemplates</code> , allows customization each <code>Pod</code> resource during render and reconcile each <code>StatefulSet.spec</code> resource described in <code>chi.spec.configuration.clusters</code>
dataVolumeClaimTemplate	string	optional, template name from <code>chi.spec.templates.volumeClaimTemplates</code> , allows customization each <code>PVC</code> which will mount for clickhouse data directory in each <code>Pod</code> during render and reconcile every <code>StatefulSet.spec</code> resource described in <code>chi.spec.configuration.clusters</code>
logVolumeClaimTemplate	string	optional, template name from <code>chi.spec.templates.volumeClaimTemplates</code> , allows customization each <code>PVC</code> which will mount for clickhouse log directory in each <code>Pod</code> during render and reconcile every <code>StatefulSet.spec</code> resource described in <code>chi.spec.configuration.clusters</code>

属性	类型	描述
serviceTemplate	string	optional, template name from <code>chi.spec.templates.serviceTemplates</code> , allows customization for one <code>Service</code> resource which will created by <code>clickhouse-operator</code> which cover all clusters in whole <code>chi</code> resource
clusterServiceTemplate	string	optional, template name from <code>chi.spec.templates.serviceTemplates</code> , allows customization for each <code>Service</code> resource which will created by <code>clickhouse-operator</code> which cover each clickhouse cluster described in <code>chi.spec.configuration.clusters</code>
shardServiceTemplate	string	optional, template name from <code>chi.spec.templates.serviceTemplates</code> , allows customization for each <code>Service</code> resource which will created by <code>clickhouse-operator</code> which cover each shard inside clickhouse cluster described in <code>chi.spec.configuration.clusters</code>
replicaServiceTemplate	string	optional, template name from <code>chi.spec.templates.serviceTemplates</code> , allows customization for each <code>Service</code> resource which will created by <code>clickhouse-operator</code> which cover each replica inside each shard inside each clickhouse cluster

属性	类型	描述
		described in <code>chi.spec.configuration.clusters</code>
<code>volumeClaimTemplate</code>	<code>string</code>	DEPRECATED! VolumeClaimTemplate is deprecated in favor of DataVolumeClaimTemplate and LogVolumeClaimTemplate

.spec.configuration.clusters[].layout.replicas

描述

optional, allows override top-level `chi.spec.configuration` and cluster-level `chi.spec.configuration.clusters` configuration for each replica and each shard relates to selected replica, use it only if you fully understand what you do

类型

`array`

.spec.configuration.clusters[].layout.replicas[]

类型

`object`

属性	类型	描述
<code>name</code>	<code>string</code>	optional, by default replica name is generated, but you can override it and setup custom name
<code>settings</code>	<code>object</code>	optional, allows configure <code>clickhouse-server</code> settings inside tag in <code>Pod</code> only in one replica during generate <code>ConfigMap</code>

属性	类型	描述
		which will mount in <code>/etc/clickhouse-server/conf.d/</code> overri top-level <code>chi.spec.configuration.settings</code> , cluster-level <code>chi.spec.configuration.clusters.settings</code> and will ignor if shard-level <code>chi.spec.configuration.clusters.layout.shards</code> present More details: https://clickhouse.tech/docs/en/operations/settings/settings/ ↗
<code>files</code>	<code>object</code>	optional, allows define content of any setting file inside each <code>Pod</code> only in one replica during generate <code>ConfigMap</code> which wi mount in <code>/etc/clickhouse-server/config.d/</code> or <code>/etc/clickhouse-server/users.d/</code> override top-level <code>chi.spec.configuration.files</code> and cluster-level <code>chi.spec.configuration.clusters.files</code> , will ignore if <code>chi.spec.configuration.clusters.layout.shards</code> present
<code>templates</code>	<code>object</code>	optional, configuration of the templates names which will use for generate Kubernetes resources according to selected replica override top-level <code>chi.spec.configuration.templates</code> , cluster-level <code>chi.spec.configuration.clusters.templates</code>
<code>shardsCount</code>	<code>integer</code>	optional, count of shards related to current replica, you can override each shard behavior on low-level <code>chi.spec.configuration.clusters.layout.replicas.sharc</code>

属性	类型	描述
shards	array	optional, list of shards related to current replica, will ignore if <code>chi.spec.configuration.clusters.layout.shards</code> present

`.spec.configuration.clusters[].layout.replicas[].settings`

描述

optional, allows configure ``clickhouse-server`` settings inside `<yandex>...</yandex>` tag in ``Pod`` only in one replica during generate ``ConfigMap`` which will mount in ``/etc/clickhouse-server/conf.d/`` override top-level ``chi.spec.configuration.settings``, cluster-level ``chi.spec.configuration.clusters.settings`` and will ignore if shard-level ``chi.spec.configuration.clusters.layout.shards`` present More details: <https://clickhouse.tech/docs/en/operations/settings/settings/>

类型

object

`.spec.configuration.clusters[].layout.replicas[].files`

描述

optional, allows define content of any setting file inside each ``Pod`` only in one replica during generate ``ConfigMap`` which will mount in ``/etc/clickhouse-server/config.d/`` or ``/etc/clickhouse-server/conf.d/`` or ``/etc/clickhouse-server/users.d/`` override top-level ``chi.spec.configuration.files`` and cluster-level ``chi.spec.configuration.clusters.files``, will ignore if ``chi.spec.configuration.clusters.layout.shards`` presents

类型

object

`.spec.configuration.clusters[].layout.replicas[].templates`

描述

optional, configuration of the templates names which will use for generate Kubernetes resources according to selected replica override top-level

`chi.spec.configuration.templates`, cluster-level `chi.spec.configuration.clusters.templates`

类型

object

属性	类型	描述
hostTemplate	string	optional, template name from chi.spec.templates.hostTemplates, which will apply to configure every clickhouse-server instance during render ConfigMap resources which will mount into Pod
podTemplate	string	optional, template name from chi.spec.templates.podTemplates, allows customization each Pod resource during render and reconcile each StatefulSet.spec resource described in chi.spec.configuration.clusters
dataVolumeClaimTemplate	string	optional, template name from chi.spec.templates.volumeClaimTemplates, allows customization each PVC which will mount for clickhouse data directory in each Pod during render and reconcile every StatefulSet.spec resource described in chi.spec.configuration.clusters
logVolumeClaimTemplate	string	optional, template name from chi.spec.templates.volumeClaimTemplates,

属性	类型	描述
		allows customization each <code>PVC</code> which will mount for clickhouse log directory in each <code>Pod</code> during render and reconcile every <code>StatefulSet.spec</code> resource described in <code>chi.spec.configuration.clusters</code>
<code>serviceTemplate</code>	<code>string</code>	optional, template name from <code>chi.spec.templates.serviceTemplates</code> , allows customization for one <code>Service</code> resource which will created by <code>clickhouse-operator</code> which cover all clusters in whole <code>chi</code> resource
<code>clusterServiceTemplate</code>	<code>string</code>	optional, template name from <code>chi.spec.templates.serviceTemplates</code> , allows customization for each <code>Service</code> resource which will created by <code>clickhouse-operator</code> which cover each clickhouse cluster described in <code>chi.spec.configuration.clusters</code>
<code>shardServiceTemplate</code>	<code>string</code>	optional, template name from <code>chi.spec.templates.serviceTemplates</code> , allows customization for each <code>Service</code> resource which will created by <code>clickhouse-operator</code> which cover each shard inside clickhouse cluster described in <code>chi.spec.configuration.clusters</code>

属性	类型	描述
replicaServiceTemplate	string	optional, template name from <code>chi.spec.templates.serviceTemplates</code> , allows customization for each <code>Service</code> resource which will created by <code>clickhouse-operator</code> which cover each replica inside each shard inside each clickhouse cluster described in <code>chi.spec.configuration.clusters</code>
volumeClaimTemplate	string	DEPRECATED! VolumeClaimTemplate is deprecated in favor of <code>DataVolumeClaimTemplate</code> and <code>LogVolumeClaimTemplate</code>

.spec.configuration.clusters[].layout.replicas[].shards

描述

optional, list of shards related to current replica, will ignore if ``chi.spec.configuration.clusters.layout.shards`` presents

类型

array

.spec.configuration.clusters[].layout.replicas[].shards[]

类型

object

属性	类型	描述
name	string	optional, by default shard name is generated, but you can setup custom name
secure	boolean	optional, setup <code>secure</code> inside <code>clickhouse-server</code> each Pod where current template will apply if specified
tcpPort	integer	optional, setup <code>Pod.spec.containers.ports</code> with name for selected shard, override <code>chi.spec.templates.hostTemplates.spec.tcpPort</code> connect to <code>clickhouse-server</code> via TCP Native protocol via kubernetes <code>Service</code>
httpPort	integer	optional, setup <code>Pod.spec.containers.ports</code> with name for selected shard, override <code>chi.spec.templates.hostTemplates.spec.httpPort</code> connect to <code>clickhouse-server</code> via HTTP protocol via kubernetes <code>Service</code>
interserverHTTPPort	integer	optional, setup <code>Pod.spec.containers.ports</code> with name for selected shard, override <code>interserver</code> <code>chi.spec.templates.hostTemplates.spec.interserverHTTPPort</code> allows connect between replicas inside same shard due to replicated data parts HTTP protocol
settings	object	optional, allows configure <code>clickhouse-server</code> settings in <code>Pod</code> only in one shard related to current replica due to replicated data parts

属性	类型	描述
		<code>ConfigMap</code> which will mount in <code>/etc/clickhouse-server/conf.d/</code> override top-level <code>chi.spec.configuration.settings</code> , cluster-level <code>chi.spec.configuration.clusters.settings</code> and <code>chi.spec.configuration.clusters.layout.replic</code> More details: https://clickhouse.tech/docs/en/operations/settings/seti
<code>files</code>	<code>object</code>	optional, allows define content of any setting file inside only in one shard related to current replica during generate <code>ConfigMap</code> which will mount in <code>/etc/clickhouse-server/config.d/</code> or <code>/etc/clickhouse-server/co</code> <code>/etc/clickhouse-server/users.d/</code> override top-le <code>chi.spec.configuration.files</code> and cluster-level <code>chi.spec.configuration.clusters.files</code> , will ign <code>chi.spec.configuration.clusters.layout.shards</code>
<code>templates</code>	<code>object</code>	optional, configuration of the templates names which w generate Kubernetes resources according to selected top-level <code>chi.spec.configuration.templates</code> , clus <code>chi.spec.configuration.clusters.templates</code> , re <code>chi.spec.configuration.clusters.layout.replic</code>

.spec.configuration.clusters[].layout.replicas[].shards[].settings

描述

optional, allows configure `clickhouse-server` settings inside <yandex>...</yandex> tag in `Pod` only in one shard related to current replica during generate `ConfigMap` which will

mount in ``/etc/clickhouse-server/conf.d/`` override top-level ``chi.spec.configuration.settings``, cluster-level ``chi.spec.configuration.clusters.settings`` and replica-level ``chi.spec.configuration.clusters.layout.replicas.settings`` More details: <https://clickhouse.tech/docs/en/operations/settings/settings/>

类型

object

`.spec.configuration.clusters[].layout.replicas[].shards[].files`

描述

optional, allows define content of any setting file inside each ``Pod`` only in one shard related to current replica during generate ``ConfigMap`` which will mount in ``/etc/clickhouse-server/config.d/`` or ``/etc/clickhouse-server/conf.d/`` or ``/etc/clickhouse-server/users.d/`` override top-level ``chi.spec.configuration.files`` and cluster-level ``chi.spec.configuration.clusters.files``, will ignore if ``chi.spec.configuration.clusters.layout.shards`` presents

类型

object

`.spec.configuration.clusters[].layout.replicas[].shards[].templates`

描述

optional, configuration of the templates names which will use for generate Kubernetes resources according to selected replica override top-level ``chi.spec.configuration.templates``, cluster-level ``chi.spec.configuration.clusters.templates``, replica-level ``chi.spec.configuration.clusters.layout.replicas.templates``

类型

object

属性	类型	描述
hostTemplate	string	optional, template name from <code>chi.spec.templates.hostTemplates</code> , which will apply to configure every <code>clickhouse-server</code> instance during render ConfigMap resources which will mount into <code>Pod</code>
podTemplate	string	optional, template name from <code>chi.spec.templates.podTemplates</code> , allows customization each <code>Pod</code> resource during render and reconcile each <code>StatefulSet.spec</code> resource described in <code>chi.spec.configuration.clusters</code>
dataVolumeClaimTemplate	string	optional, template name from <code>chi.spec.templates.volumeClaimTemplates</code> , allows customization each <code>PVC</code> which will mount for clickhouse data directory in each <code>Pod</code> during render and reconcile every <code>StatefulSet.spec</code> resource described in <code>chi.spec.configuration.clusters</code>
logVolumeClaimTemplate	string	optional, template name from <code>chi.spec.templates.volumeClaimTemplates</code> , allows customization each <code>PVC</code> which will mount for clickhouse log directory in each <code>Pod</code> during render and reconcile every <code>StatefulSet.spec</code> resource described in <code>chi.spec.configuration.clusters</code>

属性	类型	描述
serviceTemplate	string	optional, template name from chi.spec.templates.serviceTemplates, allows customization for one Service resource which will created by clickhouse-operator which cover all clusters in whole chi resource
clusterServiceTemplate	string	optional, template name from chi.spec.templates.serviceTemplates, allows customization for each Service resource which will created by clickhouse-operator which cover each clickhouse cluster described in chi.spec.configuration.clusters
shardServiceTemplate	string	optional, template name from chi.spec.templates.serviceTemplates, allows customization for each Service resource which will created by clickhouse-operator which cover each shard inside clickhouse cluster described in chi.spec.configuration.clusters
replicaServiceTemplate	string	optional, template name from chi.spec.templates.serviceTemplates, allows customization for each Service resource which will created by clickhouse-operator which cover each replica inside each shard inside each clickhouse cluster

属性	类型	描述
		described in <code>chi.spec.configuration.clusters</code>
<code>volumeClaimTemplate</code>	<code>string</code>	DEPRECATED! VolumeClaimTemplate is deprecated in favor of DataVolumeClaimTemplate and LogVolumeClaimTemplate

.spec.templates

描述

allows define templates which will use for render Kubernetes resources like StatefulSet, ConfigMap, Service, PVC, by default, clickhouse-operator have own templates, but you can override it

类型

`object`

属性	类型	描述
<code>hostTemplates</code>	<code>array</code>	hostTemplate will use during apply to generate <code>clickhouse-operator</code>
<code>podTemplates</code>	<code>array</code>	podTemplate will use during render <code>Pod</code> inside <code>StatefulSet</code> , rendered <code>Pod.spec</code> , pod scheduling distribution and https://github.com/Altinity/clickhouse-operator/blob/master/docs/custom_resource_explain

属性	类型	描述
volumeClaimTemplates	array	allows define template for rendering <code>PVC</code> kubernete: <code>Pod</code> for mount clickhouse <code>data</code> , clickhouse <code>logs</code>
serviceTemplates	array	allows define template for rendering <code>Service</code> which which scoped chi-wide, cluster-wide, shard-wide, repl

.spec.templates.hostTemplates

描述

hostTemplate will use during apply to generate `clickhose-server` config files

类型

array

.spec.templates.hostTemplates[]

类型

object

属性	类型	描述
name	string	template name, could use to link inside top-level <code>chi.spec.defaults.templates.hostTemplate</code> , cluster- <code>chi.spec.configuration.clusters.templates.hostTe</code> <code>chi.spec.configuration.clusters.layout.shards.te</code> replica-level <code>chi.spec.configuration.clusters.layout.replicas.</code>

属性	类型	描述
portDistribution	array	define how will distribute numeric values of named ports in <code>Pod.spec.containers.ports</code> and clickhouse-server config
spec	object	

.spec.templates.hostTemplates[].portDistribution

描述

define how will distribute numeric values of named ports in ``Pod.spec.containers.ports`` and clickhouse-server configs

类型

array

.spec.templates.hostTemplates[].portDistribution[]

类型

object

属性	类型	描述
type	string	type of distribution, when <code>Unspecified</code> (default value) then all listen ports on clickhouse-server configuration in all Pods will have the same value, when <code>ClusterScopeIndex</code> then ports will increment to offset from base value depends on shard and replica index inside cluster with combination of <code>chi.spec.templates.podTemplates.spec.HostNetwork</code> it allows setup ClickHouse cluster inside Kubernetes and provide access via external network bypass Kubernetes internal network

.spec.templates.hostTemplates[].spec

类型

object

属性	类型	描述
name	string	by default, hostname will generate, but this allows defini <code>clickhuse-server</code>
secure	boolean	optional, setup <code>secure</code> inside <code>clickhouse-server</code> current template will apply if specified

属性	类型	描述
tcpPort	integer	optional, setup <code>tcp_port</code> inside <code>clickhouse-serve</code> current template will apply if specified, should have equ <code>chi.spec.templates.podTemplates.spec.containe</code> info: https://clickhouse.tech/docs/en/interfaces/tcp/ ↗
httpPort	integer	optional, setup <code>http_port</code> inside <code>clickhouse-serv</code> current template will apply if specified, should have equ <code>chi.spec.templates.podTemplates.spec.containe</code> info: https://clickhouse.tech/docs/en/interfaces/http/ ↗
interserverHTTPPort	integer	optional, setup <code>interserver_http_port</code> inside <code>cli</code> each Pod where current template will apply if specified <code>chi.spec.templates.podTemplates.spec.containe</code> More info: https://clickhouse.tech/docs/en/operations/sparameters/settings/#interserver-http-port ↗
settings	object	optional, allows configure <code>clickhouse-server</code> settin where this template will apply during generate <code>Config</code> <code>/etc/clickhouse-server/conf.d/</code> More details: https://clickhouse.tech/docs/en/operations/settings/seti
files	object	optional, allows define content of any setting file inside template will apply during generate <code>ConfigMap</code> which <code>/etc/clickhouse-server/config.d/</code> or <code>/etc/cli</code> <code>/etc/clickhouse-server/users.d/</code>

属性	类型	描述
templates	object	be careful, this part of CRD allows override template in don't understand what you do

.spec.templates.hostTemplates[].spec.settings

描述

optional, allows configure `clickhouse-server` settings inside `<yandex>...</yandex>` tag in each `Pod` where this template will apply during generate `ConfigMap` which will mount in `/etc/clickhouse-server/conf.d/` More details:`

<https://clickhouse.tech/docs/en/operations/settings/settings/>

类型

object

.spec.templates.hostTemplates[].spec.files

描述

optional, allows define content of any setting file inside each `Pod` where this template will apply during generate `ConfigMap` which will mount in `/etc/clickhouse-server/config.d/` or /etc/clickhouse-server/conf.d/` or /etc/clickhouse-server/users.d/``

类型

object

.spec.templates.hostTemplates[].spec.templates

描述

be careful, this part of CRD allows override template inside template, don't use it if you don't understand what you do

类型

object

属性	类型	描述
hostTemplate	string	optional, template name from <code>chi.spec.templates.hostTemplates</code> , which will apply to configure every <code>clickhouse-server</code> instance during render ConfigMap resources which will mount into <code>Pod</code>
podTemplate	string	optional, template name from <code>chi.spec.templates.podTemplates</code> , allows customization each <code>Pod</code> resource during render and reconcile each <code>StatefulSet.spec</code> resource described in <code>chi.spec.configuration.clusters</code>
dataVolumeClaimTemplate	string	optional, template name from <code>chi.spec.templates.volumeClaimTemplates</code> , allows customization each <code>PVC</code> which will mount for clickhouse data directory in each <code>Pod</code> during render and reconcile every <code>StatefulSet.spec</code> resource described in <code>chi.spec.configuration.clusters</code>
logVolumeClaimTemplate	string	optional, template name from <code>chi.spec.templates.volumeClaimTemplates</code> , allows customization each <code>PVC</code> which will mount for clickhouse log directory in each <code>Pod</code> during render and reconcile every <code>StatefulSet.spec</code> resource described in <code>chi.spec.configuration.clusters</code>

属性	类型	描述
serviceTemplate	string	optional, template name from chi.spec.templates.serviceTemplates, allows customization for one Service resource which will created by clickhouse-operator which cover all clusters in whole chi resource
clusterServiceTemplate	string	optional, template name from chi.spec.templates.serviceTemplates, allows customization for each Service resource which will created by clickhouse-operator which cover each clickhouse cluster described in chi.spec.configuration.clusters
shardServiceTemplate	string	optional, template name from chi.spec.templates.serviceTemplates, allows customization for each Service resource which will created by clickhouse-operator which cover each shard inside clickhouse cluster described in chi.spec.configuration.clusters
replicaServiceTemplate	string	optional, template name from chi.spec.templates.serviceTemplates, allows customization for each Service resource which will created by clickhouse-operator which cover each replica inside each shard inside each clickhouse cluster

属性	类型	描述
		described in <code>chi.spec.configuration.clusters</code>
<code>volumeClaimTemplate</code>	<code>string</code>	DEPRECATED! VolumeClaimTemplate is deprecated in favor of DataVolumeClaimTemplate and LogVolumeClaimTemplate

.spec.templates.podTemplates

描述

podTemplate will use during render `Pod` inside `StatefulSet.spec` and allows define rendered `Pod.spec`, pod scheduling distribution and pod zone More information: https://github.com/Altinity/clickhouse-operator/blob/master/docs/custom_resource_explained.md#spectemplatespodtemplates

类型

`array`

.spec.templates.podTemplates[]

类型

`object`

属性	类型	描述
name	string	template name, could use to link inside top-level <code>chi.spec.defaults.templates.podTemplate</code> , cluster-level <code>chi.spec.configuration.clusters.templates.podTemplate</code> <code>chi.spec.configuration.clusters.layout.shards.template</code> level <code>chi.spec.configuration.clusters.layout.replicas</code>
generateName	string	allows define format for generated <code>Pod</code> name, look to https://github.com/Altinity/clickhouse-operator/blob/master/docs/custom_resource_explained.md ↗ for details about available template variables
zone	object	allows define custom zone name and will separate ClickHouse shortcut for <code>chi.spec.templates.podTemplates.spec.affinity.pod</code>
distribution	string	DEPRECATED, shortcut for <code>chi.spec.templates.podTemplates.spec.affinity.pod</code>
podDistribution	array	define ClickHouse Pod distribution policy between Kubernetes Namespace, CHI, another ClickHouse cluster
spec	object	allows define whole Pod.spec inside StatefulSet.spec, look https://kubernetes.io/docs/concepts/workloads/pods/#pod-template-spec
metadata	ObjectMeta ↗	allows pass standard object's metadata from template to Pod https://git.k8s.io/community/contributors/devel/sig-architecture

属性	类型	描述
		conventions.md#metadata ↗

.spec.templates.podTemplates[].zone

描述

allows define custom zone name and will separate ClickHouse `Pods` between nodes, shortcut for `chi.spec.templates.podTemplates.spec.affinity.podAntiAffinity`

类型

object

属性	类型	描述
key	string	optional, if defined, allows select kubernetes nodes by label with <code>name</code> equal <code>key</code>
values	array	optional, if defined, allows select kubernetes nodes by label with <code>value</code> in <code>values</code>

.spec.templates.podTemplates[].zone.values

描述

optional, if defined, allows select kubernetes nodes by label with `value` in `values`

类型

array

.spec.templates.podTemplates[].zone.values[]

类型

string

.spec.templates.podTemplates[].podDistribution

描述

define ClickHouse Pod distibution policy between Kubernetes Nodes inside Shard, Replica, Namespace, CHI, another ClickHouse cluster

类型

array

.spec.templates.podTemplates[].podDistribution[]

类型

object

属性	类型	描述
type	string	you can define multiple affinity policy types
scope	string	scope for apply each podDistribution
number	integer	define, how much ClickHouse Pods could be inside selected scope
topologyKey	string	use for inter-pod affinity look to pod.spec.affinity.podAntiAffinity.preferredDuringSchedulingAndEviction More info: https://kubernetes.io/docs/concepts/scheduling-eviction/affinity/

.spec.templates.podTemplates[].spec

描述

allows define whole Pod.spec inside StaefulSet.spec, look to <https://kubernetes.io/docs/concepts/workloads/pods/#pod-templates> for details

类型

object

.spec.templates.volumeClaimTemplates

描述

allows define template for rendering `PVC` kubernetes resource, which would use inside `Pod` for mount clickhouse `data`, clickhouse `logs` or something else

类型

array

.spec.templates.volumeClaimTemplates[]

类型

object

属性	类型	描述
		template name, could use to link inside top-level
		<code>chi.spec.defaults.templates.dataVolumeClaimTemplate</code>
		<code>chi.spec.defaults.templates.logVolumeClaimTemplate</code>
		<code>chi.spec.configuration.clusters.templates.dataVolumeClaimTemplate</code>
		<code>chi.spec.configuration.clusters.templates.logVolumeClaimTemplate</code>
name	string	<code>chi.spec.configuration.clusters.layout.shards.templateName</code>
		<code>chi.spec.configuration.clusters.layout.shards.templateName</code>
		replica-level
		<code>chi.spec.configuration.clusters.layout.replicas.templateName</code>
		or
		<code>chi.spec.configuration.clusters.layout.replicas.templateName</code>

属性	类型	描述
<code>provisioner</code>	<code>string</code>	defines <code>PVC</code> provisioner - be it StatefulSet or the Operator
<code>reclaimPolicy</code>	<code>string</code>	defines behavior of <code>PVC</code> deletion. <code>Delete</code> by default, if <code>Retain</code> kept when deleting StatefulSet
<code>metadata</code>	<code>ObjectMeta</code> ↗	allows to pass standard object's metadata from template to PVC https://git.k8s.io/community/contributors/devel/sig-architecture
<code>spec</code>	<code>object</code>	allows define all aspects of <code>PVC</code> resource More info: https://kubernetes.io/docs/concepts/storage/persistent-volumes/#persistentvolumeclaims

`.spec.templates.volumeClaimTemplates[].spec`

描述

allows define all aspects of `PVC` resource More info:

<https://kubernetes.io/docs/concepts/storage/persistent-volumes/#persistentvolumeclaims>

类型

`object`

`.spec.templates.serviceTemplates`

描述

allows define template for rendering `Service` which would get endpoint from Pods which scoped chi-wide, cluster-wide, shard-wide, replica-wide level

类型

`array`

.spec.templates.serviceTemplates[]

类型

object

属性	类型	描述
name	string	template name, could use to link inside chi-level <code>chi.spec.defaults.templates.serviceTemplate</code> cluster-l <code>chi.spec.configuration.clusters.templates.clusterSer</code> <code>chi.spec.configuration.clusters.layout.shards.temlat</code> replica-level <code>chi.spec.configuration.clusters.layout.replicas.tem</code> or <code>chi.spec.configuration.clusters.layout.shards.rep</code>
generateName	string	allows define format for generated <code>Service</code> name, look to https://github.com/Altinity/clickhouse-operator/blob/master/docs/custom_resource_explained.md#spec-templates details about avaiailable template variables
metadata	ObjectMeta ↗	allows pass standard object's metadata from template to Servi specificly for Cloud Provider metadata which impact to behavic https://kubernetes.io/docs/concepts/services-networking/service
spec	object	describe behavior of generated Service More info: https://kubernetes.io/docs/concepts/services-networking/service/ ↗

.spec.templates.serviceTemplates[].spec

描述

describe behavior of generated Service More info:
<https://kubernetes.io/docs/concepts/services-networking/service/>

类型

object

.spec.useTemplates

描述

list of `ClickHouseInstallationTemplate` (chit) resource names which will merge with current `Chi` manifest during render Kubernetes resources to create related ClickHouse clusters

类型

array

.spec.useTemplates[]

类型

object

属性	类型	描述
name	string	name of ClickHouseInstallationTemplate (chit) resource
namespace	string	Kubernetes namespace where need search chit resource, depending on watchNamespaces settings in clichouse-operator
useType	string	optional, current strategy is only merge, and current chi settings have more priority than merged template chit

API 端点

可用的 API 端点如下：

- `/apis/clickhouse.altinity.com/v1/namespaces/{namespace}/clickhouseinstallations`
 - **DELETE** : delete collection of ClickHouseInstallation
 - **GET** : list objects of kind ClickHouseInstallation
 - **POST** : create a new ClickHouseInstallation
- `/apis/clickhouse.altinity.com/v1/namespaces/{namespace}/clickhouseinstallations/{name}`
 - **DELETE** : delete the specified ClickHouseInstallation
 - **GET** : read the specified ClickHouseInstallation
 - **PATCH** : partially update the specified ClickHouseInstallation
 - **PUT** : replace the specified ClickHouseInstallation
- `/apis/clickhouse.altinity.com/v1/namespaces/{namespace}/clickhouseinstallations/{name}/status`
 - **GET** : read status of the specified ClickHouseInstallation
 - **PATCH** : partially update status of the specified ClickHouseInstallation
 - **PUT** : replace status of the specified ClickHouseInstallation

`/apis/clickhouse.altinity.com/v1/namespaces/{namespace}/clickhouseinstallations`

HTTP 方法

DELETE

描述

delete collection of ClickHouseInstallation

HTTP 响应

HTTP 状态码	响应体
200 - OK	<code>Status</code> schema
401 - Unauthorized	Empty

HTTP 方法

GET

描述

list objects of kind ClickHouseInstallation

HTTP 响应

HTTP 状态码	响应体
200 - OK	<code>ClickHouseInstallationList</code> schema
401 - Unauthorized	Empty

HTTP 方法

POST

描述

create a new ClickHouseInstallation

查询参数

参数	类型	描述
<code>dryRun</code>	<code>string</code>	When present, indicates that modifications should not be persisted. An invalid or unrecognized dryRun directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed
<code>fieldValidation</code>	<code>string</code>	fieldValidation instructs the server on how to handle objects in the request (POST/PUT/PATCH) containing unknown or duplicate fields. Valid values are: - Ignore: This will ignore any unknown fields that are silently dropped from the object, and will ignore all but the last

参数	类型	描述
		duplicate field that the decoder encounters. This is the default behavior prior to v1.23. - Warn: This will send a warning via the standard warning response header for each unknown field that is dropped from the object, and for each duplicate field that is encountered. The request will still succeed if there are no other errors, and will only persist the last of any duplicate fields. This is the default in v1.23+ - Strict: This will fail the request with a BadRequest error if any unknown fields would be dropped from the object, or if any duplicate fields are present. The error returned from the server will contain all unknown and duplicate fields encountered.

请求体参数

参数	类型	描述
body	ClickHouseInstallation schema	application/json formatted

HTTP 响应

HTTP 状态码	响应体
200 - OK	ClickHouseInstallation schema
201 - Created	ClickHouseInstallation schema
202 - Accepted	ClickHouseInstallation schema
401 - Unauthorized	Empty

/apis/clickhouse.altinity.com/v1/namespaces/{namespace}/clickhouseinstallations/{name}

HTTP 方法

DELETE

描述

delete the specified ClickHouseInstallation

查询参数

参数	类型	描述
<code>dryRun</code>	<code>string</code>	When present, indicates that modifications should not be persisted. An invalid or unrecognized dryRun directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed

HTTP 响应

HTTP 状态码	响应体
200 - OK	<code>Status</code>  schema
202 - Accepted	<code>Status</code>  schema
401 - Unauthorized	Empty

HTTP 方法

GET

描述

read the specified ClickHouseInstallation

HTTP 响应

HTTP 状态码	响应体
200 - OK	<code>ClickHouseInstallation</code>  schema
401 - Unauthorized	Empty

HTTP 方法

PATCH

描述

partially update the specified ClickHouseInstallation

查询参数

参数	类型	描述
dryRun	string	When present, indicates that modifications should not be persisted. An invalid or unrecognized dryRun directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed
fieldValidation	string	fieldValidation instructs the server on how to handle objects in the request (POST/PUT/PATCH) containing unknown or duplicate fields. Valid values are: - Ignore: This will ignore any unknown fields that are silently dropped from the object, and will ignore all but the last duplicate field that the decoder encounters. This is the default behavior prior to v1.23. - Warn: This will send a warning via the standard warning response header for each unknown field that is dropped from the object, and for each duplicate field that is encountered. The request will still succeed if there are no other errors, and will only persist the last of any duplicate fields. This is the default in v1.23+ - Strict: This will fail the request with a BadRequest error if any unknown fields would be dropped from the object, or if any duplicate fields are present. The error returned from the server will contain all unknown and duplicate fields encountered.

HTTP 响应

HTTP 状态码	响应体
200 - OK	ClickHouseInstallation schema
401 - Unauthorized	Empty

HTTP 方法

PUT

描述

replace the specified ClickHouseInstallation

查询参数

参数	类型	描述
dryRun	string	When present, indicates that modifications should not be persisted. An invalid or unrecognized dryRun directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed
fieldValidation	string	fieldValidation instructs the server on how to handle objects in the request (POST/PUT/PATCH) containing unknown or duplicate fields. Valid values are: - Ignore: This will ignore any unknown fields that are silently dropped from the object, and will ignore all but the last duplicate field that the decoder encounters. This is the default behavior prior to v1.23. - Warn: This will send a warning via the standard warning response header for each unknown field that is dropped from the object, and for each duplicate field that is encountered. The request will still succeed if there are no other errors, and will only persist the last of any duplicate fields. This is the default in v1.23+ - Strict: This will fail the request with a BadRequest error if any unknown fields would be dropped from the object, or if any duplicate fields are present. The error returned from the server will contain all unknown and duplicate fields encountered.

请求体参数

参数	类型	描述
body	ClickHouseInstallation schema	application/json formatted

HTTP 响应

HTTP 状态码	响应体
200 - OK	<code>ClickHouseInstallation</code> schema
201 - Created	<code>ClickHouseInstallation</code> schema
401 - Unauthorized	Empty

/apis/clickhouse.altinity.com/v1/namespaces/{namespace}/clickhouseinstallations/{name}/status

HTTP 方法

GET

描述

read status of the specified ClickHouseInstallation

HTTP 响应

HTTP 状态码	响应体
200 - OK	<code>ClickHouseInstallation</code> schema
401 - Unauthorized	Empty

HTTP 方法

PATCH

描述

partially update status of the specified ClickHouseInstallation

查询参数

参数	类型	描述
<code>dryRun</code>	<code>string</code>	When present, indicates that modifications should not be persisted. An invalid or unrecognized dryRun directive will result in an error response and no further

参数	类型	描述
		processing of the request. Valid values are: - All: all dry run stages will be processed
fieldValidation	string	fieldValidation instructs the server on how to handle objects in the request (POST/PUT/PATCH) containing unknown or duplicate fields. Valid values are: - Ignore: This will ignore any unknown fields that are silently dropped from the object, and will ignore all but the last duplicate field that the decoder encounters. This is the default behavior prior to v1.23. - Warn: This will send a warning via the standard warning response header for each unknown field that is dropped from the object, and for each duplicate field that is encountered. The request will still succeed if there are no other errors, and will only persist the last of any duplicate fields. This is the default in v1.23+ - Strict: This will fail the request with a BadRequest error if any unknown fields would be dropped from the object, or if any duplicate fields are present. The error returned from the server will contain all unknown and duplicate fields encountered.

HTTP 响应

HTTP 状态码	响应体
200 - OK	ClickHouseInstallation schema
401 - Unauthorized	Empty

HTTP 方法

PUT

描述

replace status of the specified ClickHouseInstallation

查询参数

参数	类型	描述
dryRun	string	When present, indicates that modifications should not be persisted. An invalid or unrecognized dryRun directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed
fieldValidation	string	fieldValidation instructs the server on how to handle objects in the request (POST/PUT/PATCH) containing unknown or duplicate fields. Valid values are: - Ignore: This will ignore any unknown fields that are silently dropped from the object, and will ignore all but the last duplicate field that the decoder encounters. This is the default behavior prior to v1.23. - Warn: This will send a warning via the standard warning response header for each unknown field that is dropped from the object, and for each duplicate field that is encountered. The request will still succeed if there are no other errors, and will only persist the last of any duplicate fields. This is the default in v1.23+ - Strict: This will fail the request with a BadRequest error if any unknown fields would be dropped from the object, or if any duplicate fields are present. The error returned from the server will contain all unknown and duplicate fields encountered.

请求体参数

参数	类型	描述
body	ClickHouseInstallation schema	application/json formatted

HTTP 响应

HTTP 状态码	响应体
200 - OK	ClickHouseInstallation schema
201 - Created	ClickHouseInstallation schema

HTTP 状态码	响应体
401 - Unauthorized	Empty



ClickHouseInstallationTemplates

描述

define a set of Kubernetes resources (StatefulSet, PVC, Service, ConfigMap) which describe behavior one or more ClickHouse clusters

类型

`object`

必填

`spec`

规格

属性	类型	描述
<code>apiVersion</code>	<code>string</code>	APIVersion defines the versioned schema of this representation of an object. Servers should convert recognized schemas to the latest internal value, and may reject unrecognized values. More info: https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#resources
<code>kind</code>	<code>string</code>	Kind is a string value representing the REST resource this object represents. Servers may infer this from the endpoint

属性	类型	描述
		the client submits requests to. Cannot be updated. In CamelCase. More info: https://git.k8s.io/community/contributors/devel/sig-architecture/api-conventions.md#types-kinds
metadata	ObjectMeta	ObjectMeta is metadata that all persisted resources must have, which includes all objects users must create.
status	object	Current ClickHouseInstallation manifest status, contains many fields like a normalized configuration, clickhouse-operator version, current action and all applied action list, current taskID and all applied taskIDs and other
spec	object	Specification of the desired behavior of one or more ClickHouse clusters More info: https://github.com/Altinity/clickhouse-operator/blob/master/docs/custom_resource_explained.md

.status

描述

Current ClickHouseInstallation manifest status, contains many fields like a normalized configuration, clickhouse-operator version, current action and all applied action list, current taskID and all applied taskIDs and other

类型

object

属性	类型	描述
chop-version	string	ClickHouse operator version
chop-commit	string	ClickHouse operator git commit SHA
chop-date	string	ClickHouse operator build date
chop-ip	string	IP address of the operator's pod which managed this CHI
clusters	integer	Clusters count
shards	integer	Shards count
replicas	integer	Replicas count
hosts	integer	Hosts count
status	string	Status
taskID	string	Current task id

属性	类型	描述
<code>taskIDsStarted</code>	<code>array</code>	Started task ids
<code>taskIDsCompleted</code>	<code>array</code>	Completed task ids
<code>action</code>	<code>string</code>	Action
<code>actions</code>	<code>array</code>	Actions
<code>error</code>	<code>string</code>	Last error
<code>errors</code>	<code>array</code>	Errors
<code>updated</code>	<code>integer</code>	Updated Hosts count
<code>added</code>	<code>integer</code>	Added Hosts count
<code>deleted</code>	<code>integer</code>	Deleted Hosts count
<code>delete</code>	<code>integer</code>	About to delete Hosts count

属性	类型	描述
pods	array	Pods
pod-ips	array	Pod IPs
fqdns	array	Pods FQDNs
endpoint	string	Endpoint
generation	integer	Generation
normalized	object	Normalized CHI requested
normalizedCompleted	object	Normalized CHI completed

.status.taskIDsStarted

描述

Started task ids

类型

array

.status.taskIDsStarted[]

类型

string

.status.taskIDsCompleted

描述

Completed task ids

类型

array

.status.taskIDsCompleted[]

类型

string

.status.actions

描述

Actions

类型

array

.status.actions[]

类型

string

.status.errors

描述

Errors

类型

`array`

.status.errors[]

类型

`string`

.status.pods

描述

Pods

类型

`array`

.status.pods[]

类型

`string`

.status.pod-ips

描述

Pod IPs

类型

`array`

.status.pod-ips[]

类型

`string`

.status.fqdns

描述

Pods FQDNs

类型

array

.status.fqdns[]

类型

string

.status.normalized

描述

Normalized CHI requested

类型

object

.status.normalizedCompleted

描述

Normalized CHI completed

类型

object

.spec

描述

Specification of the desired behavior of one or more ClickHouse clusters More info:
https://github.com/Altinity/clickhouse-operator/blob/master/docs/custom_resource_explained.md

类型

object

属性	类型	描述
taskID	string	Allows to define custom taskID for named update o status of this update execution in .status.taskIDs fie update of chi manifest will generate random taskID
stop	string	Allow stop all ClickHouse clusters described in curr mechanism works as follows: - When <code>stop</code> is <code>1</code> then setup <code>Replicas: 0</code> current <code>chi</code> StatefulSet resource, all <code>Pods</code> a resources will descstroy, but PVCs still live - When <code>stop</code> is <code>0</code> then <code>Pods</code> will created ag retained PVCs and <code>Service</code> also will created
restart	string	This is a 'soft restart' button. When set to 'RollingUp restart ClickHouse pods in a graceful way. Remove order to avoid unneeded restarts
troubleshoot	string	allows troubleshoot Pods during CrashLoopBack si wrong configuration, <code>clickhouse-server</code> wouldr
namespaceDomainPattern	string	custom domain suffix which will add to end of <code>Ser</code> use it when you use custom cluster domain in your

属性	类型	描述
<code>templating</code>	<code>object</code>	optional, define policy for auto applying ClickHouse inside ClickHouseInstallation
<code>reconciling</code>	<code>object</code>	optional, allows tuning reconciling cycle for Clickho clickhouse-operator side
<code>defaults</code>	<code>object</code>	define default behavior for whole ClickHouseInstall can be re-define on cluster, shard and replica level https://github.com/Altinity/clickhouse-operator/blob/master/docs/custom_resource_expla
<code>configuration</code>	<code>object</code>	allows configure multiple aspects and behavior for <code>server</code> instance and also allows describe multiple <code>server</code> clusters inside one <code>chi</code> resource
<code>templates</code>	<code>object</code>	allows define templates which will use for render K8 like StatefulSet, ConfigMap, Service, PVC, by default operator have own templates, but you can override
<code>useTemplates</code>	<code>array</code>	list of <code>ClickHouseInstallationTemplate</code> (chit) resource will merge with current <code>Chi</code> manifest during rendering resources to create related ClickHouse clusters

.spec.templating

描述

optional, define policy for auto applying ClickHouseInstallationTemplate inside ClickHouseInstallation

类型

object

属性	类型	描述
policy	string	when defined as <code>auto</code> inside ClickhouseInstallationTemplate, it will auto add into all ClickHouseInstallation, manual value is default

.spec.reconciling

描述

optional, allows tuning reconciling cycle for ClickhouseInstallation from clickhouse-operator side

类型

object

属性	类型	描述
policy	string	DEPRECATED
configMapPropagationTimeout	integer	timeout in seconds when <code>clickhouse-operator</code> applied <code>ConfigMap</code> during reconcile <code>ClickHouseInstallation</code> pods will updated from cache see details: https://kubernetes.io/docs/concepts/configuration/configmaps-are-updated-automatically/

属性	类型	描述
<code>cleanup</code>	<code>object</code>	optional, define behavior for cleanup Kubernetes reconcile cycle

`.spec.reconciling.cleanup`

描述

optional, define behavior for cleanup Kubernetes resources during reconcile cycle

类型

`object`

属性	类型	描述
<code>unknownObjects</code>	<code>object</code>	what clickhouse-operator shall do when found Kubernetes resources which should be managed with clickhouse-operator, but not have <code>ownerReference</code> to any currently managed <code>ClickHouseInstallation</code> resource, default behavior is <code>Delete</code>
<code>reconcileFailedObjects</code>	<code>object</code>	what clickhouse-operator shall do when reconciling Kubernetes resources are failed, default behavior is <code>Retain</code>

`.spec.reconciling.cleanup.unknownObjects`

描述

what clickhouse-operator shall do when found Kubernetes resources which should be managed with clickhouse-operator, but not have `ownerReference` to any currently

managed `ClickHouseInstallation` resource, default behavior is `Delete`

类型

object

属性	类型	描述
<code>statefulSet</code>	<code>string</code>	behavior policy for unknown StatefulSet, Delete by default
<code>pvc</code>	<code>string</code>	behavior policy for unknown PVC, Delete by default
<code>configMap</code>	<code>string</code>	behavior policy for unknown ConfigMap, Delete by default
<code>service</code>	<code>string</code>	behavior policy for unknown Service, Delete by default

.spec.reconciling.cleanup.reconcileFailedObjects

描述

what clickhouse-operator shall do when reconciling Kubernetes resources are failed, default behavior is `Retain`

类型

object

属性	类型	描述
<code>statefulSet</code>	<code>string</code>	behavior policy for failed StatefulSet reconciling, Retain by default

属性	类型	描述
pvc	string	behavior policy for failed PVC reconciling, Retain by default
configMap	string	behavior policy for failed ConfigMap reconciling, Retain by default
service	string	behavior policy for failed Service reconciling, Retain by default

.spec.defaults

描述

define default behavior for whole ClickHouseInstallation, some behavior can be re-define on cluster, shard and replica level More info: https://github.com/Altinity/clickhouse-operator/blob/master/docs/custom_resource_explained.md#specdefaults

类型

object

属性	类型	描述
replicasUseFQDN	string	define should replicas be specified by FQDN in <code><host></host></code> . In case of "no" will use short hostname and clickhouse-server will use kubernetes default suffixes for DNS lookup "yes" by default

属性	类型	描述
<code>distributedDDL</code>	<code>object</code>	allows change <code><yandex><distributed_ddl></code> <code></distributed_ddl></yandex></code> settings More info: https://clickhouse.tech/docs/en/operations/server-configuration-parameters/settings/#server-settings-distributed_ddl ↗
<code>storageManagement</code>	<code>object</code>	default storage management options
<code>templates</code>	<code>object</code>	optional, configuration of the templates names which will use for generate Kubernetes resources according to one or more ClickHouse clusters described in current ClickHouseInstallation (chi) resource

.spec.defaults.distributedDDL

描述

allows change ``<yandex><distributed_ddl></distributed_ddl></yandex>`` settings More info:
https://clickhouse.tech/docs/en/operations/server-configuration-parameters/settings/#server-settings-distributed_ddl

类型

`object`

属性	类型	描述
<code>profile</code>	<code>string</code>	Settings from this profile will be used to execute DDL queries

.spec.defaults.storageManagement

描述

default storage management options

类型

object

属性	类型	描述
<code>provisioner</code>	<code>string</code>	defines <code>PVC</code> provisioner - be it StatefulSet or the Operator
<code>reclaimPolicy</code>	<code>string</code>	defines behavior of <code>PVC</code> deletion. <code>Delete</code> by default, if <code>Retain</code> specified then <code>PVC</code> will be kept when deleting StatefulSet

.spec.defaults.templates

描述

optional, configuration of the templates names which will use for generate Kubernetes resources according to one or more ClickHouse clusters described in current ClickHouseInstallation (chi) resource

类型

object

属性	类型	描述
<code>hostTemplate</code>	<code>string</code>	optional, template name from <code>chi.spec.templates.hostTemplates</code> , which will apply to configure every <code>clickhouse-</code>

属性	类型	描述
		<code>server</code> instance during render ConfigMap resources which will mount into <code>Pod</code>
<code>podTemplate</code>	<code>string</code>	optional, template name from <code>chi.spec.templates.podTemplates</code> , allows customization each <code>Pod</code> resource during render and reconcile each <code>StatefulSet.spec</code> resource described in <code>chi.spec.configuration.clusters</code>
<code>dataVolumeClaimTemplate</code>	<code>string</code>	optional, template name from <code>chi.spec.templates.volumeClaimTemplates</code> , allows customization each <code>PVC</code> which will mount for clickhouse data directory in each <code>Pod</code> during render and reconcile every <code>StatefulSet.spec</code> resource described in <code>chi.spec.configuration.clusters</code>
<code>logVolumeClaimTemplate</code>	<code>string</code>	optional, template name from <code>chi.spec.templates.volumeClaimTemplates</code> , allows customization each <code>PVC</code> which will mount for clickhouse log directory in each <code>Pod</code> during render and reconcile every <code>StatefulSet.spec</code> resource described in <code>chi.spec.configuration.clusters</code>
<code>serviceTemplate</code>	<code>string</code>	optional, template name from <code>chi.spec.templates.serviceTemplates</code> , allows customization for one <code>Service</code> resource

属性	类型	描述
		which will created by <code>clickhouse-operator</code> which cover all clusters in whole <code>chi</code> resource
<code>clusterServiceTemplate</code>	<code>string</code>	optional, template name from <code>chi.spec.templates.serviceTemplates</code> , allows customization for each <code>Service</code> resource which will created by <code>clickhouse-operator</code> which cover each clickhouse cluster described in <code>chi.spec.configuration.clusters</code>
<code>shardServiceTemplate</code>	<code>string</code>	optional, template name from <code>chi.spec.templates.serviceTemplates</code> , allows customization for each <code>Service</code> resource which will created by <code>clickhouse-operator</code> which cover each shard inside clickhouse cluster described in <code>chi.spec.configuration.clusters</code>
<code>replicaServiceTemplate</code>	<code>string</code>	optional, template name from <code>chi.spec.templates.serviceTemplates</code> , allows customization for each <code>Service</code> resource which will created by <code>clickhouse-operator</code> which cover each replica inside each shard inside each clickhouse cluster described in <code>chi.spec.configuration.clusters</code>

属性	类型	描述
volumeClaimTemplate	string	DEPRECATED! VolumeClaimTemplate is deprecated in favor of DataVolumeClaimTemplate and LogVolumeClaimTemplate

.spec.configuration

描述

allows configure multiple aspects and behavior for `clickhouse-server` instance and also allows describe multiple `clickhouse-server` clusters inside one `chi` resource

类型

object

属性	类型	描述
zookeeper	object	allows configure .. section in each Pod during generate ConfigMap. ConfigMap is mounted in /etc/clickhouse-server/config.d/ clickhouse-server doesn't manage Zookeeper, please install Zookeeper separatelly. https://github.com/Altinity/clickhouse-operator/tree/master/deploy currently, zookeeper (or clickhouse-keeper replacement) used for *ReplicatedMergeTree table engines and for distributed_ddl_table engine. https://clickhouse.tech/docs/en/operations/server-configuration-parameters/settings/#server-settings_zookeeper
users	object	allows configure .. section in each Pod during generate ConfigMap. ConfigMap is mount in /etc/clickhouse-server/users.d/ you can configure user, password, hashed, authorization restrictions, database level security row filter. https://clickhouse.tech/docs/en/operations/settings/settings-user

属性	类型	描述
		will convert to XML, see examples https://github.com/Altinity/clickhouse-operator/blob/master/docs/custom_resource_explained.md#spe
profiles	object	allows configure .. section in each <code>Pod</code> during generate <code>ConfigMap</code> which will mount in <code>/etc/clickhouse-server/users.d/</code> you can configure settings profile More details: https://clickhouse.tech/docs/en/operations/settings/settings-profiles will convert to XML, see examples https://github.com/Altinity/clickhouse-operator/blob/master/docs/custom_resource_explained.md#spe
quotas	object	allows configure .. section in each <code>Pod</code> during generate <code>ConfigMap</code> which will mount in <code>/etc/clickhouse-server/users.d/</code> you can configure resource quotas More details: https://clickhouse.tech/docs/en/operations/settings/settings-quotas Your yaml code will convert to XML, see examples https://github.com/Altinity/clickhouse-operator/blob/master/docs/custom_resource_explained.md#spe
settings	object	allows configure <code>clickhouse-server</code> settings inside ... tag in generate <code>ConfigMap</code> which will mount in <code>/etc/clickhouse-server/settings.d/</code> More details: https://clickhouse.tech/docs/en/operations/settings/settings-configuration code will convert to XML, see examples https://github.com/Altinity/clickhouse-operator/blob/master/docs/custom_resource_explained.md#spe
files	object	allows define content of any setting file inside each <code>Pod</code> during generate <code>ConfigMap</code> which will mount in <code>/etc/clickhouse-server/conf.d/</code> or <code>/etc/clickhouse-server/settings.d/</code>

属性	类型	描述
		every key in this object is the file name every value in this object you can use <code>!!binary </code> and base64 for binary files, see data https://yaml.org/type/binary.html ↗ each key could contains prefix COMMON, HOST or config.d, users.d, cond.d, wrong prefixes will also will ignored More details: https://github.com/Altinity/clickhouse-operator/blob/master/docs/chi-examples/05-settings-05-files-ne
<code>clusters</code>	<code>array</code>	describes ClickHouse clusters layout and allows change settings: shard-level and replica-level every cluster is a set of StatefulSet contains only one Pod with <code>clickhouse-server</code> all Pods will run <code><remote_server></code> part of ClickHouse configs, mounted from <code>/etc/clickhouse-server/config.d/chop-generated-remote</code> Clusters will use for Distributed table engine, more details: https://clickhouse.tech/docs/en/engines/table-engines/special/distributed <code>cluster</code> contains zookeeper settings (could be inherited from <code>zookeeper</code> when you can create <code>*ReplicatedMergeTree</code> tables

.spec.configuration.zookeeper

描述

allows configure `<yandex><zookeeper>..</zookeeper></yandex>` section in each `Pod` during generate `ConfigMap` which will mounted in `/etc/clickhouse-server/config.d/` `clickhouse-operator` itself doesn't manage Zookeeper, please install Zookeeper separately look examples on <https://github.com/Altinity/clickhouse-operator/tree/master/deploy/zookeeper/> currently, zookeeper (or clickhouse-keeper replacement) used for `*ReplicatedMergeTree` table engines and for ``distributed_ddl`` More details: https://clickhouse.tech/docs/en/operations/server-configuration-parameters/settings/#server-settings_zookeeper

类型

`object`

属性	类型	描述
<code>nodes</code>	<code>array</code>	describe every available zookeeper cluster node for interaction
<code>session_timeout_ms</code>	<code>integer</code>	session timeout during connect to Zookeeper
<code>operation_timeout_ms</code>	<code>integer</code>	one operation timeout during Zookeeper transactions
<code>root</code>	<code>string</code>	optional root znode path inside zookeeper to store ClickHouse related data (replication queue or distributed DDL)
<code>identity</code>	<code>string</code>	optional access credentials string with <code>user:password</code> format used when use digest authorization in Zookeeper

`.spec.configuration.zookeeper.nodes`

描述

describe every available zookeeper cluster node for interaction

类型

`array`

`.spec.configuration.zookeeper.nodes[]`

类型

`object`

属性	类型	描述
<code>host</code>	<code>string</code>	dns name or ip address for Zookeeper node
<code>port</code>	<code>integer</code>	TCP port which used to connect to Zookeeper node

.spec.configuration.users

描述

allows configure `<yandex><users>..</users></yandex>` section in each `Pod` during generate `ConfigMap` which will mount in `/etc/clickhouse-server/users.d/` you can configure password hashed, authorization restrictions, database level security row filters etc. More details: <https://clickhouse.tech/docs/en/operations/settings/settings-users/> Your yaml code will convert to XML, see examples https://github.com/Altinity/clickhouse-operator/blob/master/docs/custom_resource_explained.md#specconfigurationusers

类型

`object`

.spec.configuration.profiles

描述

allows configure `<yandex><profiles>..</profiles></yandex>` section in each `Pod` during generate `ConfigMap` which will mount in `/etc/clickhouse-server/users.d/` you can configure any aspect of settings profile More details: <https://clickhouse.tech/docs/en/operations/settings/settings-profiles/> Your yaml code will convert to XML, see examples https://github.com/Altinity/clickhouse-operator/blob/master/docs/custom_resource_explained.md#specconfigurationprofiles

类型

`object`

.spec.configuration.quotas

描述

allows configure `<yandex><quotas>..</quotas></yandex>` section in each `Pod` during generate `ConfigMap` which will mount in `/etc/clickhouse-server/users.d/` you can configure any aspect of resource quotas More details:

<https://clickhouse.tech/docs/en/operations/quotas/> Your yaml code will convert to XML, see examples https://github.com/Altinity/clickhouse-operator/blob/master/docs/custom_resource_explained.md#specconfigurationquotas

类型

object

.spec.configuration.settings

描述

allows configure `clickhouse-server` settings inside `<yandex>...</yandex>` tag in each `Pod` during generate `ConfigMap` which will mount in `/etc/clickhouse-server/config.d/` More details: <https://clickhouse.tech/docs/en/operations/settings/settings/> Your yaml code will convert to XML, see examples https://github.com/Altinity/clickhouse-operator/blob/master/docs/custom_resource_explained.md#specconfigurationsettings

类型

object

.spec.configuration.files

描述

allows define content of any setting file inside each `Pod` during generate `ConfigMap` which will mount in `/etc/clickhouse-server/config.d/` or `/etc/clickhouse-server/conf.d/` or `/etc/clickhouse-server/users.d/` every key in this object is the file name every value in this object is the file content you can use `!!binary |` and base64 for binary files, see details here <https://yaml.org/type/binary.html> each key could contains prefix like USERS, COMMON, HOST or config.d, users.d, cond.d, wrong prefixes will ignored, subfolders also will ignored More details: <https://github.com/Altinity/clickhouse-operator/blob/master/docs/examples/05-settings-05-files-nested.yaml>

类型

object

.spec.configuration.clusters

描述

describes ClickHouse clusters layout and allows change settings on cluster-level, shard-level and replica-level every cluster is a set of StatefulSet, one StatefulSet contains only one Pod with `clickhouse-server` all Pods will rendered in <remote_server> part of ClickHouse configs, mounted from ConfigMap as `etc/clickhouse-server/config.d/chop-generated-remote\_servers.xml` Clusters will use for Distributed table engine, more details: <https://clickhouse.tech/docs/en/engines/table-engines/special/distributed/> If `cluster` contains zookeeper settings (could be inherited from top `chi` level), when you can create *ReplicatedMergeTree tables

类型

array

.spec.configuration.clusters[]

类型

object

属性	类型	描述
name	string	cluster name, used to identify set of ClickHouse servers and wide used during generate names of related Kubernetes resources
zookeeper	object	optional, allows configure .. section in each Pod only in current ClickHouse cluster, during generate ConfigMap which will mounted in etc/clickhouse-

属性	类型	描述
		<code>server/config.d/</code> override top-level <code>chi.spec.configuration.zookeeper</code> settings
<code>settings</code>	<code>object</code>	optional, allows configure <code>clickhouse-server</code> settings inside ... tag in each <code>Pod</code> only in one cluster during generate <code>ConfigMap</code> which will mount in <code>/etc/clickhouse-server/config.d/</code> override top-level <code>chi.spec.configuration.settings</code> More details: https://clickhouse.tech/docs/en/operations/settings/settings/
<code>files</code>	<code>object</code>	optional, allows define content of any setting file inside each <code>Pod</code> on current cluster during generate <code>ConfigMap</code> which will mount in <code>/etc/clickhouse-server/config.d/</code> or <code>/etc/clickhouse-server/conf.d/</code> or <code>/etc/clickhouse-server/users.d/</code> override top-level <code>chi.spec.configuration.files</code>
<code>templates</code>	<code>object</code>	optional, configuration of the templates names which will use for generate Kubernetes resources according to selected cluster override top-level <code>chi.spec.configuration.templates</code>
<code>schemaPolicy</code>	<code>object</code>	describes how schema is propagated within replicas and shards

属性	类型	描述
<code>secret</code>	<code>object</code>	optional, shared secret value to secure cluster communications
<code>layout</code>	<code>object</code>	describe current cluster layout, how much shards in cluster, how much replica in shard allows override settings on each shard and replica separately

`.spec.configuration.clusters[].zookeeper`

描述

optional, allows configure `<yandex><zookeeper>..</zookeeper></yandex>` section in each `Pod` only in current ClickHouse cluster, during generate `ConfigMap` which will mounted in `/etc/clickhouse-server/config.d/` override top-level `chi.spec.configuration.zookeeper` settings

类型

`object`

属性	类型	描述
<code>nodes</code>	<code>array</code>	describe every available zookeeper cluster node for interaction
<code>session_timeout_ms</code>	<code>integer</code>	session timeout during connect to Zookeeper
<code>operation_timeout_ms</code>	<code>integer</code>	one operation timeout during Zookeeper transactions

属性	类型	描述
<code>root</code>	<code>string</code>	optional root znode path inside zookeeper to store ClickHouse related data (replication queue or distributed DDL)
<code>identity</code>	<code>string</code>	optional access credentials string with <code>user:password</code> format used when use digest authorization in Zookeeper

`.spec.configuration.clusters[].zookeeper.nodes`

描述

describe every available zookeeper cluster node for interaction

类型

`array`

`.spec.configuration.clusters[].zookeeper.nodes[]`

类型

`object`

属性	类型	描述
<code>host</code>	<code>string</code>	dns name or ip address for Zookeeper node
<code>port</code>	<code>integer</code>	TCP port which used to connect to Zookeeper node

.spec.configuration.clusters[].settings

描述

optional, allows configure `clickhouse-server` settings inside `<yandex>...</yandex>` tag in each `Pod` only in one cluster during generate `ConfigMap` which will mount in `/etc/clickhouse-server/config.d/` override top-level `chi.spec.configuration.settings` More details: https://clickhouse.tech/docs/en/operations/settings/settings/`

类型

object

.spec.configuration.clusters[].files

描述

optional, allows define content of any setting file inside each `Pod` on current cluster during generate `ConfigMap` which will mount in `/etc/clickhouse-server/config.d/` or /etc/clickhouse-server/conf.d/` or /etc/clickhouse-server/users.d/` override top-level `chi.spec.configuration.files``

类型

object

.spec.configuration.clusters[].templates

描述

optional, configuration of the templates names which will use for generate Kubernetes resources according to selected cluster override top-level `chi.spec.configuration.templates`

类型

object

属性	类型	描述
<code>hostTemplate</code>	<code>string</code>	optional, template name from <code>chi.spec.templates.hostTemplates</code> , which will apply to configure every <code>clickhouse-</code>

属性	类型	描述
		<code>server</code> instance during render ConfigMap resources which will mount into <code>Pod</code>
<code>podTemplate</code>	<code>string</code>	optional, template name from <code>chi.spec.templates.podTemplates</code> , allows customization each <code>Pod</code> resource during render and reconcile each <code>StatefulSet.spec</code> resource described in <code>chi.spec.configuration.clusters</code>
<code>dataVolumeClaimTemplate</code>	<code>string</code>	optional, template name from <code>chi.spec.templates.volumeClaimTemplates</code> , allows customization each <code>PVC</code> which will mount for clickhouse data directory in each <code>Pod</code> during render and reconcile every <code>StatefulSet.spec</code> resource described in <code>chi.spec.configuration.clusters</code>
<code>logVolumeClaimTemplate</code>	<code>string</code>	optional, template name from <code>chi.spec.templates.volumeClaimTemplates</code> , allows customization each <code>PVC</code> which will mount for clickhouse log directory in each <code>Pod</code> during render and reconcile every <code>StatefulSet.spec</code> resource described in <code>chi.spec.configuration.clusters</code>
<code>serviceTemplate</code>	<code>string</code>	optional, template name from <code>chi.spec.templates.serviceTemplates</code> , allows customization for one <code>Service</code> resource

属性	类型	描述
		which will created by <code>clickhouse-operator</code> which cover all clusters in whole <code>chi</code> resource
<code>clusterServiceTemplate</code>	<code>string</code>	optional, template name from <code>chi.spec.templates.serviceTemplates</code> , allows customization for each <code>Service</code> resource which will created by <code>clickhouse-operator</code> which cover each clickhouse cluster described in <code>chi.spec.configuration.clusters</code>
<code>shardServiceTemplate</code>	<code>string</code>	optional, template name from <code>chi.spec.templates.serviceTemplates</code> , allows customization for each <code>Service</code> resource which will created by <code>clickhouse-operator</code> which cover each shard inside clickhouse cluster described in <code>chi.spec.configuration.clusters</code>
<code>replicaServiceTemplate</code>	<code>string</code>	optional, template name from <code>chi.spec.templates.serviceTemplates</code> , allows customization for each <code>Service</code> resource which will created by <code>clickhouse-operator</code> which cover each replica inside each shard inside each clickhouse cluster described in <code>chi.spec.configuration.clusters</code>

属性	类型	描述
<code>volumeClaimTemplate</code>	<code>string</code>	DEPRECATED! VolumeClaimTemplate is deprecated in favor of DataVolumeClaimTemplate and LogVolumeClaimTemplate

`.spec.configuration.clusters[].schemaPolicy`

描述

describes how schema is propagated within replicas and shards

类型

`object`

属性	类型	描述
<code>replica</code>	<code>string</code>	how schema is propagated within a replica
<code>shard</code>	<code>string</code>	how schema is propagated between shards

`.spec.configuration.clusters[].secret`

描述

optional, shared secret value to secure cluster communications

类型

`object`

属性	类型	描述
auto	string	Auto-generate shared secret value to secure cluster communications
value	string	Cluster shared secret value in plain text
valueFrom	object	Cluster shared secret source

`.spec.configuration.clusters[].secret.valueFrom`

描述

Cluster shared secret source

类型

object

属性	类型	描述
secretKeyRef	object	Selects a key of a secret in the clickhouse installation namespace. Should not be used if value is not empty.

`.spec.configuration.clusters[].secret.valueFrom.secretKeyRef`

描述

Selects a key of a secret in the clickhouse installation namespace. Should not be used if value is not empty.

类型

`object`

必填

`name``key`

属性	类型	描述
<code>name</code>	<code>string</code>	Name of the referent. More info: https://kubernetes.io/docs/concepts/overview/working-with-objects/names/#names ↗
<code>key</code>	<code>string</code>	The key of the secret to select from. Must be a valid secret key.
<code>optional</code>	<code>boolean</code>	Specify whether the Secret or its key must be defined

`.spec.configuration.clusters[].layout`

描述

describe current cluster layout, how much shards in cluster, how much replica in shard
allows override settings on each shard and replica separately

类型

`object`

属性	类型	描述
<code>type</code>	<code>string</code>	DEPRECATED - to be removed soon
<code>shardsCount</code>	<code>integer</code>	how much shards for current ClickHouse cluster will run in Kubernetes, each shard contains shared-nothing part

属性	类型	描述
		of data and contains set of replicas, cluster contains 1 shard by default
<code>replicasCount</code>	<code>integer</code>	how much replicas in each shards for current ClickHouse cluster will run in Kubernetes, each replica is a separate <code>StatefulSet</code> which contains only one <code>Pod</code> with <code>clickhouse-server</code> instance, every shard contains 1 replica by default
<code>shards</code>	<code>array</code>	optional, allows override top-level <code>chi.spec.configuration</code> , cluster-level <code>chi.spec.configuration.clusters</code> settings for each shard separately, use it only if you fully understand what you do
<code>replicas</code>	<code>array</code>	optional, allows override top-level <code>chi.spec.configuration</code> and cluster-level <code>chi.spec.configuration.clusters</code> configuration for each replica and each shard relates to selected replica, use it only if you fully understand what you do

`.spec.configuration.clusters[].layout.shards`

描述

optional, allows override top-level ``chi.spec.configuration``, cluster-level ``chi.spec.configuration.clusters`` settings for each shard separately, use it only if you fully understand what you do

类型

array

.spec.configuration.clusters[].layout.shards[]

类型

object

属性	类型	描述
name	string	optional, by default shard name is generated, but you can override it and setup custom name
definitionType	string	DEPRECATED - to be removed soon
weight	integer	optional, 1 by default, allows setup shard setting which during insert into tables with <code>Distributed</code> engine, with <remote_servers> inside ConfigMap which will mount in /etc/clickhouse-server/config.d/chop-generated-remote_servers.xml More details: https://clickhouse.tech/docs/en/engines/table-engines/special/distributed/
internalReplication	string	optional, <code>true</code> by default when <code>chi.spec.configuration.clusters[].layout.ReplicationFactor > 1</code> and 0 otherwise allows setup <internal_replication> which will use during insert into tables with <code>Distributed</code> engine for insert only in one live replica and other replicas download inserted data during replication, will apply in <remote_servers> inside ConfigMap which will mount in /etc/clickhouse-server/config.d/chop-generated-remote_servers.xml More details:

属性	类型	描述
		https://clickhouse.tech/docs/en/engines/table-engines/special/distributed/ ↗
settings	object	optional, allows configure <code>clickhouse-server</code> setting ... tag in each <code>Pod</code> only in one shard during generate <code>ConfigMap</code> which will mount in <code>/etc/clickhouse-server/config.d/</code> override top-level <code>chi.spec.configuration.settings</code> and cluster-level <code>chi.spec.configuration.clusters.settings</code> More https://clickhouse.tech/docs/en/operations/settings/seti
files	object	optional, allows define content of any setting file inside <code>Pod</code> only in one shard during generate <code>ConfigMap</code> mount in <code>/etc/clickhouse-server/config.d/</code> or <code>/etc/clickhouse-server/conf.d/</code> or <code>/etc/clickhouse-server/users.d/</code> override top-level <code>chi.spec.configuration.files</code> and cluster-level <code>chi.spec.configuration.clusters.files</code>
templates	object	optional, configuration of the templates names which will generate Kubernetes resources according to selected override top-level <code>chi.spec.configuration.templates</code> cluster-level <code>chi.spec.configuration.clusters.templates</code>
replicasCount	integer	optional, how much replicas in selected shard for selected ClickHouse cluster will run in Kubernetes, each replica separate <code>StatefulSet</code> which contains only one <code>Pod</code> <code>clickhouse-server</code> instance, shard contains 1 replica

属性	类型	描述
		default override cluster-level <code>chi.spec.configuration.clusters.layout.replicas</code>
<code>replicas</code>	<code>array</code>	optional, allows override behavior for selected replicas cluster-level <code>chi.spec.configuration.clusters</code> or level <code>chi.spec.configuration.clusters.layout.sl</code>

`.spec.configuration.clusters[].layout.shards[].settings`

描述

optional, allows configure `clickhouse-server` settings inside `<yandex>...</yandex>` tag in each `Pod` only in one shard during generate `ConfigMap` which will mount in `/etc/clickhouse-server/config.d/` override top-level `chi.spec.configuration.settings` and cluster-level `chi.spec.configuration.clusters.settings` More details: https://clickhouse.tech/docs/en/operations/settings/settings/`

类型

`object`

`.spec.configuration.clusters[].layout.shards[].files`

描述

optional, allows define content of any setting file inside each `Pod` only in one shard during generate `ConfigMap` which will mount in `/etc/clickhouse-server/config.d/` or /etc/clickhouse-server/conf.d/` or /etc/clickhouse-server/users.d/` override top-level `chi.spec.configuration.files` and cluster-level `chi.spec.configuration.clusters.files``

类型

`object`

`.spec.configuration.clusters[].layout.shards[].templates`

描述

optional, configuration of the templates names which will use for generate Kubernetes resources according to selected shard override top-level `chi.spec.configuration.templates` and cluster-level `chi.spec.configuration.clusters.templates`

类型

object

属性	类型	描述
hostTemplate	string	optional, template name from chi.spec.templates.hostTemplates, which will apply to configure every clickhouse-server instance during render ConfigMap resources which will mount into Pod
podTemplate	string	optional, template name from chi.spec.templates.podTemplates, allows customization each Pod resource during render and reconcile each StatefulSet.spec resource described in chi.spec.configuration.clusters
dataVolumeClaimTemplate	string	optional, template name from chi.spec.templates.volumeClaimTemplates, allows customization each PVC which will mount for clickhouse data directory in each Pod during render and reconcile every StatefulSet.spec resource described in chi.spec.configuration.clusters

属性	类型	描述
<code>logVolumeClaimTemplate</code>	<code>string</code>	optional, template name from <code>chi.spec.templates.volumeClaimTemplates</code> , allows customization each <code>PVC</code> which will mount for clickhouse log directory in each <code>Pod</code> during render and reconcile every <code>StatefulSet.spec</code> resource described in <code>chi.spec.configuration.clusters</code>
<code>serviceTemplate</code>	<code>string</code>	optional, template name from <code>chi.spec.templates.serviceTemplates</code> , allows customization for one <code>Service</code> resource which will created by <code>clickhouse-operator</code> which cover all clusters in whole <code>chi</code> resource
<code>clusterServiceTemplate</code>	<code>string</code>	optional, template name from <code>chi.spec.templates.serviceTemplates</code> , allows customization for each <code>Service</code> resource which will created by <code>clickhouse-operator</code> which cover each clickhouse cluster described in <code>chi.spec.configuration.clusters</code>
<code>shardServiceTemplate</code>	<code>string</code>	optional, template name from <code>chi.spec.templates.serviceTemplates</code> , allows customization for each <code>Service</code> resource which will created by <code>clickhouse-operator</code> which cover each shard inside

属性	类型	描述
		clickhouse cluster described in <code>chi.spec.configuration.clusters</code>
<code>replicaServiceTemplate</code>	<code>string</code>	optional, template name from <code>chi.spec.templates.serviceTemplates</code> , allows customization for each <code>Service</code> resource which will created by <code>clickhouse-</code> <code>operator</code> which cover each replica inside each shard inside each clickhouse cluster described in <code>chi.spec.configuration.clusters</code>
<code>volumeClaimTemplate</code>	<code>string</code>	DEPRECATED! VolumeClaimTemplate is deprecated in favor of DataVolumeClaimTemplate and LogVolumeClaimTemplate

.spec.configuration.clusters[].layout.shards[].replicas

描述

optional, allows override behavior for selected replicas from cluster-level
`chi.spec.configuration.clusters` and shard-level
`chi.spec.configuration.clusters.layout.shards`

类型

`array`

.spec.configuration.clusters[].layout.shards[].replicas[]

类型

object

属性	类型	描述
name	string	optional, by default replica name is generated, but you and setup custom name
secure	boolean	optional, setup <code>secure</code> inside <code>clickhouse-server</code> each Pod where current template will apply if specified
tcpPort	integer	optional, setup <code>Pod.spec.containers.ports</code> with name selected replica, override <code>chi.spec.templates.hostTemplates.spec.tcpPort</code> connect to <code>clickhouse-server</code> via TCP Native protocol via kubernetes <code>Service</code>
httpPort	integer	optional, setup <code>Pod.spec.containers.ports</code> with name selected replica, override <code>chi.spec.templates.hostTemplates.spec.httpPort</code> connect to <code>clickhouse-server</code> via HTTP protocol via <code>Service</code>
interserverHTTPPort	integer	optional, setup <code>Pod.spec.containers.ports</code> with name <code>interserver</code> for selected replica, override <code>chi.spec.templates.hostTemplates.spec.interserverHTTPPort</code> allows connect between replicas inside same shard distributed replicated data parts HTTP protocol

属性	类型	描述
settings	object	optional, allows configure <code>clickhouse-server</code> setting in <code>Pod</code> only in one replica during generate <code>ConfigMap</code> mount in <code>/etc/clickhouse-server/conf.d/</code> overriding <code>chi.spec.configuration.settings</code>, cluster-level <code>chi.spec.configuration.clusters.settings</code> and <code>chi.spec.configuration.clusters.layout.shards</code> More details: https://clickhouse.tech/docs/en/operations/settings/settings
files	object	optional, allows define content of any setting file inside one replica during generate <code>ConfigMap</code> which will mount in <code>/etc/clickhouse-server/config.d/</code> or <code>/etc/clickhouse-server/conf.d/</code> or <code>/etc/clickhouse-server/user.d/</code> top-level <code>chi.spec.configuration.files</code>, cluster-level <code>chi.spec.configuration.clusters.files</code> and shards-level <code>chi.spec.configuration.clusters.layout.shards</code>
templates	object	optional, configuration of the templates names which will generate Kubernetes resources according to selected top-level <code>chi.spec.configuration.templates</code>, cluster-level <code>chi.spec.configuration.clusters.templates</code> and shards-level <code>chi.spec.configuration.clusters.layout.shards</code>

.spec.configuration.clusters[].layout.shards[].replicas[].settings

描述

optional, allows configure `clickhouse-server` settings inside `<yandex>...</yandex>` tag in `Pod` only in one replica during generate `ConfigMap` which will mount in `/etc/clickhouse-server/conf.d/` override top-level `chi.spec.configuration.settings`, cluster-level `chi.spec.configuration.clusters.settings` and shard-level `chi.spec.configuration.clusters.layout.shards.settings` More details: https://clickhouse.tech/docs/en/operations/settings/settings/`

类型

object

`.spec.configuration.clusters[].layout.shards[].replicas[].files`

描述

optional, allows define content of any setting file inside `Pod` only in one replica during generate `ConfigMap` which will mount in `/etc/clickhouse-server/config.d/` or /etc/clickhouse-server/conf.d/` or /etc/clickhouse-server/users.d/` override top-level `chi.spec.configuration.files`, cluster-level `chi.spec.configuration.clusters.files` and shard-level `chi.spec.configuration.clusters.layout.shards.files``

类型

object

`.spec.configuration.clusters[].layout.shards[].replicas[].templates`

描述

optional, configuration of the templates names which will use for generate Kubernetes resources according to selected replica override top-level `chi.spec.configuration.templates`, cluster-level `chi.spec.configuration.clusters.templates` and shard-level `chi.spec.configuration.clusters.layout.shards.templates`

类型

object

属性	类型	描述
hostTemplate	string	optional, template name from <code>chi.spec.templates.hostTemplates</code> , which will apply to configure every <code>clickhouse-server</code> instance during render ConfigMap resources which will mount into <code>Pod</code>
podTemplate	string	optional, template name from <code>chi.spec.templates.podTemplates</code> , allows customization each <code>Pod</code> resource during render and reconcile each <code>StatefulSet.spec</code> resource described in <code>chi.spec.configuration.clusters</code>
dataVolumeClaimTemplate	string	optional, template name from <code>chi.spec.templates.volumeClaimTemplates</code> , allows customization each <code>PVC</code> which will mount for clickhouse data directory in each <code>Pod</code> during render and reconcile every <code>StatefulSet.spec</code> resource described in <code>chi.spec.configuration.clusters</code>
logVolumeClaimTemplate	string	optional, template name from <code>chi.spec.templates.volumeClaimTemplates</code> , allows customization each <code>PVC</code> which will mount for clickhouse log directory in each <code>Pod</code> during render and reconcile every <code>StatefulSet.spec</code> resource described in <code>chi.spec.configuration.clusters</code>

属性	类型	描述
<code>serviceTemplate</code>	<code>string</code>	optional, template name from <code>chi.spec.templates.serviceTemplates</code> , allows customization for one <code>Service</code> resource which will created by <code>clickhouse-operator</code> which cover all clusters in whole <code>chi</code> resource
<code>clusterServiceTemplate</code>	<code>string</code>	optional, template name from <code>chi.spec.templates.serviceTemplates</code> , allows customization for each <code>Service</code> resource which will created by <code>clickhouse-operator</code> which cover each clickhouse cluster described in <code>chi.spec.configuration.clusters</code>
<code>shardServiceTemplate</code>	<code>string</code>	optional, template name from <code>chi.spec.templates.serviceTemplates</code> , allows customization for each <code>Service</code> resource which will created by <code>clickhouse-operator</code> which cover each shard inside clickhouse cluster described in <code>chi.spec.configuration.clusters</code>
<code>replicaServiceTemplate</code>	<code>string</code>	optional, template name from <code>chi.spec.templates.serviceTemplates</code> , allows customization for each <code>Service</code> resource which will created by <code>clickhouse-operator</code> which cover each replica inside each shard inside each clickhouse cluster

属性	类型	描述
		described in <code>chi.spec.configuration.clusters</code>
<code>volumeClaimTemplate</code>	<code>string</code>	DEPRECATED! VolumeClaimTemplate is deprecated in favor of DataVolumeClaimTemplate and LogVolumeClaimTemplate

`.spec.configuration.clusters[].layout.replicas`

描述

optional, allows override top-level ``chi.spec.configuration`` and cluster-level ``chi.spec.configuration.clusters`` configuration for each replica and each shard relates to selected replica, use it only if you fully understand what you do

类型

`array`

`.spec.configuration.clusters[].layout.replicas[]`

类型

`object`

属性	类型	描述
<code>name</code>	<code>string</code>	optional, by default replica name is generated, but you can override it and setup custom name
<code>settings</code>	<code>object</code>	optional, allows configure <code>clickhouse-server</code> settings inside tag in <code>Pod</code> only in one replica during generate <code>ConfigMap</code>

属性	类型	描述
		which will mount in <code>/etc/clickhouse-server/conf.d/</code> override top-level <code>chi.spec.configuration.settings</code> , cluster-level <code>chi.spec.configuration.clusters.settings</code> and will ignore if shard-level <code>chi.spec.configuration.clusters.layout.shards</code> present More details: https://clickhouse.tech/docs/en/operations/settings/settings/
<code>files</code>	<code>object</code>	optional, allows define content of any setting file inside each <code>Pod</code> only in one replica during generate <code>ConfigMap</code> which will mount in <code>/etc/clickhouse-server/config.d/</code> or <code>/etc/clickhouse-server/conf.d/</code> or <code>/etc/clickhouse-server/users.d/</code> override top-level <code>chi.spec.configuration.files</code> and cluster-level <code>chi.spec.configuration.clusters.files</code> , will ignore if <code>chi.spec.configuration.clusters.layout.shards</code> present
<code>templates</code>	<code>object</code>	optional, configuration of the templates names which will use for generate Kubernetes resources according to selected replica override top-level <code>chi.spec.configuration.templates</code> , cluster-level <code>chi.spec.configuration.clusters.templates</code>
<code>shardsCount</code>	<code>integer</code>	optional, count of shards related to current replica, you can override each shard behavior on low-level <code>chi.spec.configuration.clusters.layout.replicas.shards</code>

属性	类型	描述
shards	array	optional, list of shards related to current replica, will ignore if <code>chi.spec.configuration.clusters.layout.shards</code> present

`.spec.configuration.clusters[].layout.replicas[].settings`

描述

optional, allows configure ``clickhouse-server`` settings inside `<yandex>...</yandex>` tag in ``Pod`` only in one replica during generate ``ConfigMap`` which will mount in ``/etc/clickhouse-server/conf.d/`` override top-level ``chi.spec.configuration.settings``, cluster-level ``chi.spec.configuration.clusters.settings`` and will ignore if shard-level ``chi.spec.configuration.clusters.layout.shards`` present More details: <https://clickhouse.tech/docs/en/operations/settings/settings/>

类型

object

`.spec.configuration.clusters[].layout.replicas[].files`

描述

optional, allows define content of any setting file inside each ``Pod`` only in one replica during generate ``ConfigMap`` which will mount in ``/etc/clickhouse-server/config.d/`` or ``/etc/clickhouse-server/conf.d/`` or ``/etc/clickhouse-server/users.d/`` override top-level ``chi.spec.configuration.files`` and cluster-level ``chi.spec.configuration.clusters.files``, will ignore if ``chi.spec.configuration.clusters.layout.shards`` presents

类型

object

`.spec.configuration.clusters[].layout.replicas[].templates`

描述

optional, configuration of the templates names which will use for generate Kubernetes resources according to selected replica override top-level

`chi.spec.configuration.templates`, cluster-level `chi.spec.configuration.clusters.templates`

类型

object

属性	类型	描述
hostTemplate	string	optional, template name from <code>chi.spec.templates.hostTemplates</code> , which will apply to configure every <code>clickhouse-server</code> instance during render ConfigMap resources which will mount into <code>Pod</code>
podTemplate	string	optional, template name from <code>chi.spec.templates.podTemplates</code> , allows customization each <code>Pod</code> resource during render and reconcile each <code>StatefulSet.spec</code> resource described in <code>chi.spec.configuration.clusters</code>
dataVolumeClaimTemplate	string	optional, template name from <code>chi.spec.templates.volumeClaimTemplates</code> , allows customization each <code>PVC</code> which will mount for clickhouse data directory in each <code>Pod</code> during render and reconcile every <code>StatefulSet.spec</code> resource described in <code>chi.spec.configuration.clusters</code>
logVolumeClaimTemplate	string	optional, template name from <code>chi.spec.templates.volumeClaimTemplates</code> ,

属性	类型	描述
		allows customization each <code>PVC</code> which will mount for clickhouse log directory in each <code>Pod</code> during render and reconcile every <code>StatefulSet.spec</code> resource described in <code>chi.spec.configuration.clusters</code>
<code>serviceTemplate</code>	<code>string</code>	optional, template name from <code>chi.spec.templates.serviceTemplates</code> , allows customization for one <code>Service</code> resource which will created by <code>clickhouse-operator</code> which cover all clusters in whole <code>chi</code> resource
<code>clusterServiceTemplate</code>	<code>string</code>	optional, template name from <code>chi.spec.templates.serviceTemplates</code> , allows customization for each <code>Service</code> resource which will created by <code>clickhouse-operator</code> which cover each clickhouse cluster described in <code>chi.spec.configuration.clusters</code>
<code>shardServiceTemplate</code>	<code>string</code>	optional, template name from <code>chi.spec.templates.serviceTemplates</code> , allows customization for each <code>Service</code> resource which will created by <code>clickhouse-operator</code> which cover each shard inside clickhouse cluster described in <code>chi.spec.configuration.clusters</code>

属性	类型	描述
<code>replicaServiceTemplate</code>	<code>string</code>	optional, template name from <code>chi.spec.templates.serviceTemplates</code> , allows customization for each <code>Service</code> resource which will created by <code>clickhouse-operator</code> which cover each replica inside each shard inside each clickhouse cluster described in <code>chi.spec.configuration.clusters</code>
<code>volumeClaimTemplate</code>	<code>string</code>	DEPRECATED! <code>VolumeClaimTemplate</code> is deprecated in favor of <code>DataVolumeClaimTemplate</code> and <code>LogVolumeClaimTemplate</code>

`.spec.configuration.clusters[].layout.replicas[].shards`

描述

optional, list of shards related to current replica, will ignore if ``chi.spec.configuration.clusters.layout.shards`` presents

类型

`array`

`.spec.configuration.clusters[].layout.replicas[].shards[]`

类型

`object`

属性	类型	描述
name	string	optional, by default shard name is generated, but you can setup custom name
secure	boolean	optional, setup <code>secure</code> inside <code>clickhouse-server</code> each Pod where current template will apply if specified
tcpPort	integer	optional, setup <code>Pod.spec.containers.ports</code> with name <code>tcpPort</code> for selected shard, override <code>chi.spec.templates.hostTemplates.spec.tcpPort</code> to connect to <code>clickhouse-server</code> via TCP Native protocol through kubernetes <code>Service</code>
httpPort	integer	optional, setup <code>Pod.spec.containers.ports</code> with name <code>httpPort</code> for selected shard, override <code>chi.spec.templates.hostTemplates.spec.httpPort</code> to connect to <code>clickhouse-server</code> via HTTP protocol through kubernetes <code>Service</code>
interserverHTTPPort	integer	optional, setup <code>Pod.spec.containers.ports</code> with name <code>interserver</code> for selected shard, override <code>chi.spec.templates.hostTemplates.spec.interserverHTTPPort</code> to allow connect between replicas inside same shard through replicated data parts HTTP protocol
settings	object	optional, allows configure <code>clickhouse-server</code> settings in <code>Pod</code> only in one shard related to current replica due to ClickHouse distributed nature

属性	类型	描述
		<code>ConfigMap</code> which will mount in <code>/etc/clickhouse-server/conf.d/</code> override top-level <code>chi.spec.configuration.settings</code> , cluster-level <code>chi.spec.configuration.clusters.settings</code> and <code>chi.spec.configuration.clusters.layout.replic</code> More details: https://clickhouse.tech/docs/en/operations/settings/seti
<code>files</code>	<code>object</code>	optional, allows define content of any setting file inside only in one shard related to current replica during generate <code>ConfigMap</code> which will mount in <code>/etc/clickhouse-server/config.d/</code> or <code>/etc/clickhouse-server/config.d/</code> override top-level <code>chi.spec.configuration.files</code> and cluster-level <code>chi.spec.configuration.clusters.files</code> , will ignore <code>chi.spec.configuration.clusters.layout.shards</code>
<code>templates</code>	<code>object</code>	optional, configuration of the templates names which will generate Kubernetes resources according to selected top-level <code>chi.spec.configuration.templates</code> , cluster-level <code>chi.spec.configuration.clusters.templates</code> , replica-level <code>chi.spec.configuration.clusters.layout.replic</code>

`chi.spec.configuration.clusters[].layout.replicas[].shards[].settings`

描述

optional, allows configure `clickhouse-server` settings inside `<yandex>...</yandex>` tag in `Pod` only in one shard related to current replica during generate `ConfigMap` which will

mount in ``/etc/clickhouse-server/conf.d/`` override top-level ``chi.spec.configuration.settings``, cluster-level ``chi.spec.configuration.clusters.settings`` and replica-level ``chi.spec.configuration.clusters.layout.replicas.settings`` More details: <https://clickhouse.tech/docs/en/operations/settings/settings/>

类型

object

`.spec.configuration.clusters[].layout.replicas[].shards[].files`

描述

optional, allows define content of any setting file inside each ``Pod`` only in one shard related to current replica during generate ``ConfigMap`` which will mount in ``/etc/clickhouse-server/config.d/`` or ``/etc/clickhouse-server/conf.d/`` or ``/etc/clickhouse-server/users.d/`` override top-level ``chi.spec.configuration.files`` and cluster-level ``chi.spec.configuration.clusters.files``, will ignore if ``chi.spec.configuration.clusters.layout.shards`` presents

类型

object

`.spec.configuration.clusters[].layout.replicas[].shards[].templates`

描述

optional, configuration of the templates names which will use for generate Kubernetes resources according to selected replica override top-level ``chi.spec.configuration.templates``, cluster-level ``chi.spec.configuration.clusters.templates``, replica-level ``chi.spec.configuration.clusters.layout.replicas.templates``

类型

object

属性	类型	描述
hostTemplate	string	optional, template name from <code>chi.spec.templates.hostTemplates</code> , which will apply to configure every <code>clickhouse-server</code> instance during render ConfigMap resources which will mount into <code>Pod</code>
podTemplate	string	optional, template name from <code>chi.spec.templates.podTemplates</code> , allows customization each <code>Pod</code> resource during render and reconcile each <code>StatefulSet.spec</code> resource described in <code>chi.spec.configuration.clusters</code>
dataVolumeClaimTemplate	string	optional, template name from <code>chi.spec.templates.volumeClaimTemplates</code> , allows customization each <code>PVC</code> which will mount for clickhouse data directory in each <code>Pod</code> during render and reconcile every <code>StatefulSet.spec</code> resource described in <code>chi.spec.configuration.clusters</code>
logVolumeClaimTemplate	string	optional, template name from <code>chi.spec.templates.volumeClaimTemplates</code> , allows customization each <code>PVC</code> which will mount for clickhouse log directory in each <code>Pod</code> during render and reconcile every <code>StatefulSet.spec</code> resource described in <code>chi.spec.configuration.clusters</code>

属性	类型	描述
<code>serviceTemplate</code>	<code>string</code>	optional, template name from <code>chi.spec.templates.serviceTemplates</code> , allows customization for one <code>Service</code> resource which will created by <code>clickhouse-operator</code> which cover all clusters in whole <code>chi</code> resource
<code>clusterServiceTemplate</code>	<code>string</code>	optional, template name from <code>chi.spec.templates.serviceTemplates</code> , allows customization for each <code>Service</code> resource which will created by <code>clickhouse-operator</code> which cover each clickhouse cluster described in <code>chi.spec.configuration.clusters</code>
<code>shardServiceTemplate</code>	<code>string</code>	optional, template name from <code>chi.spec.templates.serviceTemplates</code> , allows customization for each <code>Service</code> resource which will created by <code>clickhouse-operator</code> which cover each shard inside clickhouse cluster described in <code>chi.spec.configuration.clusters</code>
<code>replicaServiceTemplate</code>	<code>string</code>	optional, template name from <code>chi.spec.templates.serviceTemplates</code> , allows customization for each <code>Service</code> resource which will created by <code>clickhouse-operator</code> which cover each replica inside each shard inside each clickhouse cluster

属性	类型	描述
		described in <code>chi.spec.configuration.clusters</code>
<code>volumeClaimTemplate</code>	<code>string</code>	DEPRECATED! VolumeClaimTemplate is deprecated in favor of DataVolumeClaimTemplate and LogVolumeClaimTemplate

.spec.templates

描述

allows define templates which will use for render Kubernetes resources like StatefulSet, ConfigMap, Service, PVC, by default, clickhouse-operator have own templates, but you can override it

类型

`object`

属性	类型	描述
<code>hostTemplates</code>	<code>array</code>	hostTemplate will use during apply to generate <code>clickhouse-operator</code>
<code>podTemplates</code>	<code>array</code>	podTemplate will use during render <code>Pod</code> inside <code>StatefulSet</code> , pod rendered <code>Pod.spec</code> , pod scheduling distribution and https://github.com/Altinity/clickhouse-operator/blob/master/docs/custom_resource_explain

属性	类型	描述
<code>volumeClaimTemplates</code>	<code>array</code>	allows define template for rendering <code>PVC</code> kubernete: <code>Pod</code> for mount clickhouse <code>data</code> , clickhouse <code>logs</code>
<code>serviceTemplates</code>	<code>array</code>	allows define template for rendering <code>Service</code> which which scoped chi-wide, cluster-wide, shard-wide, repl

`.spec.templates.hostTemplates`

描述

hostTemplate will use during apply to generate `clickhose-server` config files

类型

`array`

`.spec.templates.hostTemplates[]`

类型

`object`

属性	类型	描述
<code>name</code>	<code>string</code>	template name, could use to link inside top-level <code>chi.spec.defaults.templates.hostTemplate</code> , cluster- <code>chi.spec.configuration.clusters.templates.hostTe</code> <code>chi.spec.configuration.clusters.layout.shards.te</code> replica-level <code>chi.spec.configuration.clusters.layout.replicas.</code>

属性	类型	描述
portDistribution	array	define how will distribute numeric values of named ports in <code>Pod.spec.containers.ports</code> and clickhouse-server configs
spec	object	

.spec.templates.hostTemplates[].portDistribution

描述

define how will distribute numeric values of named ports in `Pod.spec.containers.ports` and clickhouse-server configs

类型

array

.spec.templates.hostTemplates[].portDistribution[]

类型

object

属性	类型	描述
type	string	type of distribution, when <code>Unspecified</code> (default value) then all listen ports on clickhouse-server configuration in all Pods will have the same value, when <code>ClusterScopeIndex</code> then ports will increment to offset from base value depends on shard and replica index inside cluster with combination of <code>chi.spec.templates.podTemplates.spec.HostNetwork</code> it allows setup ClickHouse cluster inside Kubernetes and provide access via external network bypass Kubernetes internal network

.spec.templates.hostTemplates[].spec

类型

object

属性	类型	描述
name	string	by default, hostname will generate, but this allows defini <code>clickhuse-server</code>
secure	boolean	optional, setup <code>secure</code> inside <code>clickhouse-server</code> current template will apply if specified

属性	类型	描述
tcpPort	integer	optional, setup <code>tcp_port</code> inside <code>clickhouse-serve</code> current template will apply if specified, should have equ <code>chi.spec.templates.podTemplates.spec.containe</code> info: https://clickhouse.tech/docs/en/interfaces/tcp/ ↗
httpPort	integer	optional, setup <code>http_port</code> inside <code>clickhouse-serv</code> current template will apply if specified, should have equ <code>chi.spec.templates.podTemplates.spec.containe</code> info: https://clickhouse.tech/docs/en/interfaces/http/ ↗
interserverHTTPPort	integer	optional, setup <code>interserver_http_port</code> inside <code>cli</code> each Pod where current template will apply if specified <code>chi.spec.templates.podTemplates.spec.containe</code> More info: https://clickhouse.tech/docs/en/operations/sparameters/settings/#interserver-http-port ↗
settings	object	optional, allows configure <code>clickhouse-server</code> settin where this template will apply during generate <code>Config</code> <code>/etc/clickhouse-server/conf.d/</code> More details: https://clickhouse.tech/docs/en/operations/settings/seti
files	object	optional, allows define content of any setting file inside template will apply during generate <code>ConfigMap</code> which <code>/etc/clickhouse-server/config.d/</code> or <code>/etc/cli</code> <code>/etc/clickhouse-server/users.d/</code>

属性	类型	描述
<code>templates</code>	<code>object</code>	be careful, this part of CRD allows override template in don't understand what you do

`.spec.templates.hostTemplates[].spec.settings`

描述

optional, allows configure `clickhouse-server` settings inside `<yandex>...</yandex>` tag in each `Pod` where this template will apply during generate `ConfigMap` which will mount in `/etc/clickhouse-server/conf.d/` More details:`

<https://clickhouse.tech/docs/en/operations/settings/settings/>

类型

`object`

`.spec.templates.hostTemplates[].spec.files`

描述

optional, allows define content of any setting file inside each `Pod` where this template will apply during generate `ConfigMap` which will mount in `/etc/clickhouse-server/config.d/` or /etc/clickhouse-server/conf.d/` or /etc/clickhouse-server/users.d/``

类型

`object`

`.spec.templates.hostTemplates[].spec.templates`

描述

be careful, this part of CRD allows override template inside template, don't use it if you don't understand what you do

类型

`object`

属性	类型	描述
hostTemplate	string	optional, template name from <code>chi.spec.templates.hostTemplates</code> , which will apply to configure every <code>clickhouse-server</code> instance during render ConfigMap resources which will mount into <code>Pod</code>
podTemplate	string	optional, template name from <code>chi.spec.templates.podTemplates</code> , allows customization each <code>Pod</code> resource during render and reconcile each <code>StatefulSet.spec</code> resource described in <code>chi.spec.configuration.clusters</code>
dataVolumeClaimTemplate	string	optional, template name from <code>chi.spec.templates.volumeClaimTemplates</code> , allows customization each <code>PVC</code> which will mount for clickhouse data directory in each <code>Pod</code> during render and reconcile every <code>StatefulSet.spec</code> resource described in <code>chi.spec.configuration.clusters</code>
logVolumeClaimTemplate	string	optional, template name from <code>chi.spec.templates.volumeClaimTemplates</code> , allows customization each <code>PVC</code> which will mount for clickhouse log directory in each <code>Pod</code> during render and reconcile every <code>StatefulSet.spec</code> resource described in <code>chi.spec.configuration.clusters</code>

属性	类型	描述
<code>serviceTemplate</code>	<code>string</code>	optional, template name from <code>chi.spec.templates.serviceTemplates</code> , allows customization for one <code>Service</code> resource which will created by <code>clickhouse-operator</code> which cover all clusters in whole <code>chi</code> resource
<code>clusterServiceTemplate</code>	<code>string</code>	optional, template name from <code>chi.spec.templates.serviceTemplates</code> , allows customization for each <code>Service</code> resource which will created by <code>clickhouse-operator</code> which cover each clickhouse cluster described in <code>chi.spec.configuration.clusters</code>
<code>shardServiceTemplate</code>	<code>string</code>	optional, template name from <code>chi.spec.templates.serviceTemplates</code> , allows customization for each <code>Service</code> resource which will created by <code>clickhouse-operator</code> which cover each shard inside clickhouse cluster described in <code>chi.spec.configuration.clusters</code>
<code>replicaServiceTemplate</code>	<code>string</code>	optional, template name from <code>chi.spec.templates.serviceTemplates</code> , allows customization for each <code>Service</code> resource which will created by <code>clickhouse-operator</code> which cover each replica inside each shard inside each clickhouse cluster

属性	类型	描述
		described in <code>chi.spec.configuration.clusters</code>
<code>volumeClaimTemplate</code>	<code>string</code>	DEPRECATED! VolumeClaimTemplate is deprecated in favor of DataVolumeClaimTemplate and LogVolumeClaimTemplate

.spec.templates.podTemplates

描述

podTemplate will use during render `Pod` inside `StatefulSet.spec` and allows define rendered `Pod.spec`, pod scheduling distribution and pod zone More information: https://github.com/Altinity/clickhouse-operator/blob/master/docs/custom_resource_explained.md#spectemplatespodtemplates

类型

`array`

.spec.templates.podTemplates[]

类型

`object`

属性	类型	描述
name	string	template name, could use to link inside top-level <code>chi.spec.defaults.templates.podTemplate</code> , cluster-level <code>chi.spec.configuration.clusters.templates.podTemplate</code> <code>chi.spec.configuration.clusters.layout.shards.template</code> level <code>chi.spec.configuration.clusters.layout.replicas</code>
generateName	string	allows define format for generated <code>Pod</code> name, look to https://github.com/Altinity/clickhouse-operator/blob/master/docs/custom_resource_explained.md ↗ for details about available template variables
zone	object	allows define custom zone name and will separate ClickHouse shortcut for <code>chi.spec.templates.podTemplates.spec.affinity.pod</code>
distribution	string	DEPRECATED, shortcut for <code>chi.spec.templates.podTemplates.spec.affinity.pod</code>
podDistribution	array	define ClickHouse Pod distribution policy between Kubernetes Namespace, CHI, another ClickHouse cluster
spec	object	allows define whole Pod.spec inside StatefulSet.spec, look https://kubernetes.io/docs/concepts/workloads/pods/#pod-template-spec
metadata	ObjectMeta ↗	allows pass standard object's metadata from template to Pod https://git.k8s.io/community/contributors/devel/sig-architecture

属性	类型	描述
		conventions.md#metadata ↗

`.spec.templates.podTemplates[].zone`

描述

allows define custom zone name and will separate ClickHouse `Pods` between nodes, shortcut for ``chi.spec.templates.podTemplates.spec.affinity.podAntiAffinity``

类型

object

属性	类型	描述
<code>key</code>	<code>string</code>	optional, if defined, allows select kubernetes nodes by label with <code>name</code> equal <code>key</code>
<code>values</code>	<code>array</code>	optional, if defined, allows select kubernetes nodes by label with <code>value</code> in <code>values</code>

`.spec.templates.podTemplates[].zone.values`

描述

optional, if defined, allows select kubernetes nodes by label with `value` in `values`

类型

array

`.spec.templates.podTemplates[].zone.values[]`

类型

`string`

`.spec.templates.podTemplates[].podDistribution`

描述

define ClickHouse Pod distibution policy between Kubernetes Nodes inside Shard, Replica, Namespace, CHI, another ClickHouse cluster

类型

`array`

`.spec.templates.podTemplates[].podDistribution[]`

类型

`object`

属性	类型	描述
<code>type</code>	<code>string</code>	you can define multiple affinity policy types
<code>scope</code>	<code>string</code>	scope for apply each podDistribution
<code>number</code>	<code>integer</code>	define, how much ClickHouse Pods could be inside selected scope
<code>topologyKey</code>	<code>string</code>	use for inter-pod affinity look to <code>pod.spec.affinity.podAntiAffinity.preferredDuringSchedulingAndEviction</code> More info: https://kubernetes.io/docs/concepts/scheduling-eviction/inter-pod-anti-affinity/

`.spec.templates.podTemplates[].spec`

描述

allows define whole Pod.spec inside StaefulSet.spec, look to <https://kubernetes.io/docs/concepts/workloads/pods/#pod-templates> for details

类型

object

.spec.templates.volumeClaimTemplates

描述

allows define template for rendering `PVC` kubernetes resource, which would use inside `Pod` for mount clickhouse `data`, clickhouse `logs` or something else

类型

array

.spec.templates.volumeClaimTemplates[]

类型

object

属性	类型	描述
		template name, could use to link inside top-level
		<code>chi.spec.defaults.templates.dataVolumeClaimTemplate</code>
		<code>chi.spec.defaults.templates.logVolumeClaimTemplate</code>
		<code>chi.spec.configuration.clusters.templates.dataVolumeClaimTemplate</code>
		<code>chi.spec.configuration.clusters.templates.logVolumeClaimTemplate</code>
name	string	<code>chi.spec.configuration.clusters.layout.shards.templateName</code>
		<code>chi.spec.configuration.clusters.layout.shards.templateName</code>
		replica-level
		<code>chi.spec.configuration.clusters.layout.replicas.templateName</code>
		or
		<code>chi.spec.configuration.clusters.layout.replicas.templateName</code>

属性	类型	描述
<code>provisioner</code>	<code>string</code>	defines <code>PVC</code> provisioner - be it StatefulSet or the Operator
<code>reclaimPolicy</code>	<code>string</code>	defines behavior of <code>PVC</code> deletion. <code>Delete</code> by default, if <code>Retain</code> kept when deleting StatefulSet
<code>metadata</code>	<code>ObjectMeta</code> ↗	allows to pass standard object's metadata from template to PVC https://git.k8s.io/community/contributors/devel/sig-architecture
<code>spec</code>	<code>object</code>	allows define all aspects of <code>PVC</code> resource More info: https://kubernetes.io/docs/concepts/storage/persistent-volumes/#persistentvolumeclaims

`.spec.templates.volumeClaimTemplates[].spec`

描述

allows define all aspects of `PVC` resource More info:

<https://kubernetes.io/docs/concepts/storage/persistent-volumes/#persistentvolumeclaims>

类型

`object`

`.spec.templates.serviceTemplates`

描述

allows define template for rendering `Service` which would get endpoint from Pods which scoped chi-wide, cluster-wide, shard-wide, replica-wide level

类型

`array`

.spec.templates.serviceTemplates[]

类型

object

属性	类型	描述
name	string	template name, could use to link inside chi-level <code>chi.spec.defaults.templates.serviceTemplate</code> cluster-level <code>chi.spec.configuration.clusters.templates.clusterServiceTemplate</code> cluster-level <code>chi.spec.configuration.clusters.layout.shards.template</code> replica-level <code>chi.spec.configuration.clusters.layout.replicas.template</code> replica-level or <code>chi.spec.configuration.clusters.layout.shards.replicaTemplate</code> replica-level
generateName	string	allows define format for generated <code>Service</code> name, look to https://github.com/Altinity/clickhouse-operator/blob/master/docs/custom_resource_explained.md#spec-templates details about available template variables
metadata	ObjectMeta	allows pass standard object's metadata from template to <code>Service</code> specifically for Cloud Provider metadata which impact to behavior https://kubernetes.io/docs/concepts/services-networking/service
spec	object	describe behavior of generated <code>Service</code> More info: https://kubernetes.io/docs/concepts/services-networking/service/

.spec.templates.serviceTemplates[].spec

描述

describe behavior of generated Service More info:

<https://kubernetes.io/docs/concepts/services-networking/service/>

类型

object

.spec.useTemplates

描述

list of `ClickHouseInstallationTemplate` (chit) resource names which will merge with current `Chi` manifest during render Kubernetes resources to create related ClickHouse clusters

类型

array

.spec.useTemplates[]

类型

object

属性	类型	描述
name	string	name of <code>ClickHouseInstallationTemplate</code> (chit) resource
namespace	string	Kubernetes namespace where need search <code>chit</code> resource, depending on <code>watchNamespaces</code> settings in <code>clickhouse-operator</code>
useType	string	optional, current strategy is only merge, and current <code>chi</code> settings have more priority than merged template <code>chit</code>

API 端点

可用的 API 端点如下：

- `/apis/clickhouse.altinity.com/v1/namespaces/{namespace}/clickhouseinstallationtemplates`
 - **DELETE** : delete collection of ClickHouseInstallationTemplate
 - **GET** : list objects of kind ClickHouseInstallationTemplate
 - **POST** : create a new ClickHouseInstallationTemplate
- `/apis/clickhouse.altinity.com/v1/namespaces/{namespace}/clickhouseinstallationtemplates/{name}`
 - **DELETE** : delete the specified ClickHouseInstallationTemplate
 - **GET** : read the specified ClickHouseInstallationTemplate
 - **PATCH** : partially update the specified ClickHouseInstallationTemplate
 - **PUT** : replace the specified ClickHouseInstallationTemplate
- `/apis/clickhouse.altinity.com/v1/namespaces/{namespace}/clickhouseinstallationtemplates/{name}/status`
 - **GET** : read status of the specified ClickHouseInstallationTemplate
 - **PATCH** : partially update status of the specified ClickHouseInstallationTemplate
 - **PUT** : replace status of the specified ClickHouseInstallationTemplate

`/apis/clickhouse.altinity.com/v1/namespaces/{namespace}/clickhouseinstallationtemplates`

HTTP 方法

DELETE

描述

delete collection of ClickHouseInstallationTemplate

HTTP 响应

HTTP 状态码	响应体
200 - OK	Status ↗ schema
401 - Unauthorized	Empty

HTTP 方法

[GET](#)

描述

list objects of kind ClickHouseInstallationTemplate

HTTP 响应

HTTP 状态码	响应体
200 - OK	ClickHouseInstallationTemplateList schema
401 - Unauthorized	Empty

HTTP 方法

[POST](#)

描述

create a new ClickHouseInstallationTemplate

查询参数

参数	类型	描述
dryRun	string	When present, indicates that modifications should not be persisted. An invalid or unrecognized dryRun directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed
fieldValidation	string	fieldValidation instructs the server on how to handle objects in the request (POST/PUT/PATCH) containing unknown or duplicate fields. Valid values are: - Ignore: This will ignore any unknown fields that are silently dropped from the object, and will ignore all but the last

参数	类型	描述
		duplicate field that the decoder encounters. This is the default behavior prior to v1.23. - Warn: This will send a warning via the standard warning response header for each unknown field that is dropped from the object, and for each duplicate field that is encountered. The request will still succeed if there are no other errors, and will only persist the last of any duplicate fields. This is the default in v1.23+ - Strict: This will fail the request with a BadRequest error if any unknown fields would be dropped from the object, or if any duplicate fields are present. The error returned from the server will contain all unknown and duplicate fields encountered.

请求体参数

参数	类型	描述
body	ClickHouseInstallationTemplate schema	application/json formatted

HTTP 响应

HTTP 状态码	响应体
200 - OK	ClickHouseInstallationTemplate schema
201 - Created	ClickHouseInstallationTemplate schema
202 - Accepted	ClickHouseInstallationTemplate schema
401 - Unauthorized	Empty

**/apis/clickhouse.altinity.com/v1/namespaces/{namespace}
/clickhouseinstallationtemplates/{name}**

HTTP 方法

DELETE**描述**

delete the specified ClickHouseInstallationTemplate

查询参数

参数	类型	描述
<code>dryRun</code>	<code>string</code>	When present, indicates that modifications should not be persisted. An invalid or unrecognized dryRun directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed

HTTP 响应

HTTP 状态码	响应体
200 - OK	<code>Status</code>  schema
202 - Accepted	<code>Status</code>  schema
401 - Unauthorized	Empty

HTTP 方法**GET****描述**

read the specified ClickHouseInstallationTemplate

HTTP 响应

HTTP 状态码	响应体
200 - OK	<code>ClickHouseInstallationTemplate</code>  schema
401 - Unauthorized	Empty

HTTP 方法

PATCH

描述

partially update the specified ClickHouseInstallationTemplate

查询参数

参数	类型	描述
dryRun	string	When present, indicates that modifications should not be persisted. An invalid or unrecognized dryRun directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed
fieldValidation	string	fieldValidation instructs the server on how to handle objects in the request (POST/PUT/PATCH) containing unknown or duplicate fields. Valid values are: - Ignore: This will ignore any unknown fields that are silently dropped from the object, and will ignore all but the last duplicate field that the decoder encounters. This is the default behavior prior to v1.23. - Warn: This will send a warning via the standard warning response header for each unknown field that is dropped from the object, and for each duplicate field that is encountered. The request will still succeed if there are no other errors, and will only persist the last of any duplicate fields. This is the default in v1.23+ - Strict: This will fail the request with a BadRequest error if any unknown fields would be dropped from the object, or if any duplicate fields are present. The error returned from the server will contain all unknown and duplicate fields encountered.

HTTP 响应

HTTP 状态码	响应体
200 - OK	ClickHouseInstallationTemplate schema
401 - Unauthorized	Empty

HTTP 方法

PUT

描述

replace the specified ClickHouseInstallationTemplate

查询参数

参数	类型	描述
<code>dryRun</code>	<code>string</code>	When present, indicates that modifications should not be persisted. An invalid or unrecognized dryRun directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed
<code>fieldValidation</code>	<code>string</code>	fieldValidation instructs the server on how to handle objects in the request (POST/PUT/PATCH) containing unknown or duplicate fields. Valid values are: - Ignore: This will ignore any unknown fields that are silently dropped from the object, and will ignore all but the last duplicate field that the decoder encounters. This is the default behavior prior to v1.23. - Warn: This will send a warning via the standard warning response header for each unknown field that is dropped from the object, and for each duplicate field that is encountered. The request will still succeed if there are no other errors, and will only persist the last of any duplicate fields. This is the default in v1.23+ - Strict: This will fail the request with a BadRequest error if any unknown fields would be dropped from the object, or if any duplicate fields are present. The error returned from the server will contain all unknown and duplicate fields encountered.

请求体参数

参数	类型	描述
<code>body</code>	<code>ClickHouseInstallationTemplate</code> schema	<code>application/json</code> formatted

HTTP 响应

HTTP 状态码	响应体
200 - OK	<code>ClickHouseInstallationTemplate</code> schema
201 - Created	<code>ClickHouseInstallationTemplate</code> schema
401 - Unauthorized	Empty

/apis/clickhouse.altinity.com/v1/namespaces/{namespace}/clickhouseinstallationtemplates/{name}/status

HTTP 方法

`GET`

描述

read status of the specified ClickHouseInstallationTemplate

HTTP 响应

HTTP 状态码	响应体
200 - OK	<code>ClickHouseInstallationTemplate</code> schema
401 - Unauthorized	Empty

HTTP 方法

`PATCH`

描述

partially update status of the specified ClickHouseInstallationTemplate

查询参数

参数	类型	描述
<code>dryRun</code>	<code>string</code>	When present, indicates that modifications should not be persisted. An invalid or unrecognized dryRun

参数	类型	描述
		directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed
fieldValidation	string	fieldValidation instructs the server on how to handle objects in the request (POST/PUT/PATCH) containing unknown or duplicate fields. Valid values are: - Ignore: This will ignore any unknown fields that are silently dropped from the object, and will ignore all but the last duplicate field that the decoder encounters. This is the default behavior prior to v1.23. - Warn: This will send a warning via the standard warning response header for each unknown field that is dropped from the object, and for each duplicate field that is encountered. The request will still succeed if there are no other errors, and will only persist the last of any duplicate fields. This is the default in v1.23+ - Strict: This will fail the request with a BadRequest error if any unknown fields would be dropped from the object, or if any duplicate fields are present. The error returned from the server will contain all unknown and duplicate fields encountered.

HTTP 响应

HTTP 状态码	响应体
200 - OK	ClickHouseInstallationTemplate schema
401 - Unauthorized	Empty

HTTP 方法

PUT

描述

replace status of the specified ClickHouseInstallationTemplate

查询参数

参数	类型	描述
<code>dryRun</code>	<code>string</code>	When present, indicates that modifications should not be persisted. An invalid or unrecognized <code>dryRun</code> directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed
<code>fieldValidation</code>	<code>string</code>	<code>fieldValidation</code> instructs the server on how to handle objects in the request (POST/PUT/PATCH) containing unknown or duplicate fields. Valid values are: - Ignore: This will ignore any unknown fields that are silently dropped from the object, and will ignore all but the last duplicate field that the decoder encounters. This is the default behavior prior to v1.23. - Warn: This will send a warning via the standard warning response header for each unknown field that is dropped from the object, and for each duplicate field that is encountered. The request will still succeed if there are no other errors, and will only persist the last of any duplicate fields. This is the default in v1.23+ - Strict: This will fail the request with a <code>BadRequest</code> error if any unknown fields would be dropped from the object, or if any duplicate fields are present. The error returned from the server will contain all unknown and duplicate fields encountered.

请求体参数

参数	类型	描述
<code>body</code>	<code>ClickHouseInstallationTemplate</code> schema	<code>application/json</code> formatted

HTTP 响应

HTTP 状态码	响应体
200 - OK	<code>ClickHouseInstallationTemplate</code> schema
201 - Created	<code>ClickHouseInstallationTemplate</code> schema

HTTP 状态码	响应体
401 - Unauthorized	Empty



ClickHouseOperatorConfigurations

描述

allows customize `clickhouse-operator` settings, need restart clickhouse-operator pod after adding, more details https://github.com/Altinity/clickhouse-operator/blob/master/docs/operator_configuration.md

类型

object

规格

属性	类型	描述
status	object	
spec	object	Allows to define settings of the clickhouse-operator. More info: https://github.com/Altinity/clickhouse-operator/blob/master/config/config.yaml ↗ Check into etc-clickhouse-operator* ConfigMaps if you need more control

.status

类型

object

.spec

描述

Allows to define settings of the clickhouse-operator. More info:

<https://github.com/Altinity/clickhouse-operator/blob/master/config/config.yaml> Check into etc-clickhouse-operator* ConfigMaps if you need more control

类型

object

属性	类型	描述
<code>watch</code>	object	Parameters for watch kubernetes resources which used by clickhouse-operator deployment
<code>clickhouse</code>	object	Clickhouse related parameters used by clickhouse-operator
<code>template</code>	object	Parameters which are used if you want to generate ClickHouseInstallationTemplate custom resources from files which are stored inside clickhouse-operator deployment
<code>reconcile</code>	object	allow tuning reconciling process
<code>annotation</code>	object	defines which metadata.annotations items will include or exclude during render StatefulSet, Pod, PVC resources

属性	类型	描述
<code>label</code>	<code>object</code>	defines which metadata.labels will include or exclude during render StatefulSet, Pod, PVC resources
<code>statefulSet</code>	<code>object</code>	define StatefulSet-specific parameters
<code>pod</code>	<code>object</code>	define pod specific parameters
<code>logger</code>	<code>object</code>	allow setup clickhouse-operator logger behavior

`.spec.watch`

描述

Parameters for watch kubernetes resources which used by clickhouse-operator deployment

类型

`object`

属性	类型	描述
<code>namespaces</code>	<code>array</code>	List of namespaces where clickhouse-operator watches for events.

`.spec.watch.namespaces`

描述

List of namespaces where clickhouse-operator watches for events.

类型

array

.spec.watch.namespaces[]

类型

string

.spec.clickhouse

描述

Clickhouse related parameters used by clickhouse-operator

类型

object

属性	类型	描述
configuration	object	
access	object	parameters which use for connect to clickhouse from clickhouse-operator deployment

.spec.clickhouse.configuration

类型

object

属性	类型	描述
file	object	

属性	类型	描述
<code>user</code>	<code>object</code>	Default parameters for any user which will create
<code>network</code>	<code>object</code>	Default network parameters for any user which will create

`.spec.clickhouse.configuration.file`

类型

`object`

属性	类型	描述
<code>path</code>	<code>object</code>	

`.spec.clickhouse.configuration.file.path`

类型

`object`

属性	类型	描述
<code>common</code>	<code>string</code>	Path to the folder where ClickHouse configuration files common for all instances within a CHI are located. Default - config.d
<code>host</code>	<code>string</code>	Path to the folder where ClickHouse configuration files unique for each instance (host) within a CHI are located. Default - conf.d

属性	类型	描述
<code>user</code>	<code>string</code>	Path to the folder where ClickHouse configuration files with users settings are located. Files are common for all instances within a CHI. Default - users.d

`.spec.clickhouse.configuration.user`

描述

Default parameters for any user which will create

类型

`object`

属性	类型	描述
<code>default</code>	<code>object</code>	

`.spec.clickhouse.configuration.user.default`

类型

`object`

属性	类型	描述
<code>profile</code>	<code>string</code>	ClickHouse server configuration <code><profile>...</profile></code> for any
<code>quota</code>	<code>string</code>	ClickHouse server configuration <code><quota>...</quota></code> for any

属性	类型	描述
networksIP	array	ClickHouse server configuration <code><networks><ip>...</ip></networks></code> for any
password	string	ClickHouse server configuration <code><password>...</password></code> for any

.spec.clickhouse.configuration.user.default.networksIP

描述

ClickHouse server configuration ``<networks><ip>...</ip></networks>`` for any `<user>`

类型

array

.spec.clickhouse.configuration.user.default.networksIP[]

类型

string

.spec.clickhouse.configuration.network

描述

Default network parameters for any user which will create

类型

object

属性	类型	描述
<code>hostRegexpTemplate</code>	<code>string</code>	ClickHouse server configuration <code><host_regexp>...</host_regexp></code> for any

.spec.clickhouse.access

描述

parameters which use for connect to clickhouse from clickhouse-operator deployment

类型

`object`

属性	类型	描述
<code>scheme</code>	<code>string</code>	The scheme to user for connecting to ClickHouse. One of http or https
<code>username</code>	<code>string</code>	ClickHouse username to be used by operator to connect to ClickHouse instances, deprecated, use <code>chCredentialsSecretName</code>
<code>password</code>	<code>string</code>	ClickHouse password to be used by operator to connect to ClickHouse instances, deprecated, use <code>chCredentialsSecretName</code>
<code>rootCA</code>	<code>string</code>	Root certificate authority that clients use when verifying server certificates. Used for https connection to ClickHouse

属性	类型	描述
<code>secret</code>	<code>object</code>	
<code>port</code>	<code>integer</code>	Port to be used by operator to connect to ClickHouse instances
<code>timeouts</code>	<code>object</code>	Timeouts used to limit connection and queries from the operator to ClickHouse instances, In seconds

`.spec.clickhouse.access.secret`

类型

`object`

属性	类型	描述
<code>namespace</code>	<code>string</code>	Location of k8s Secret with username and password to be used by operator to connect to ClickHouse instances
<code>name</code>	<code>string</code>	Name of k8s Secret with username and password to be used by operator to connect to ClickHouse instances

`.spec.clickhouse.access.timeouts`

描述

Timeouts used to limit connection and queries from the operator to ClickHouse instances, In seconds

类型

`object`

属性	类型	描述
<code>connect</code>	<code>integer</code>	Connect timeout. In seconds.
<code>query</code>	<code>integer</code>	Query timeout. In seconds.

`.spec.template`

描述

Parameters which are used if you want to generate ClickHouseInstallationTemplate custom resources from files which are stored inside clickhouse-operator deployment

类型

`object`

属性	类型	描述
<code>chi</code>	<code>object</code>	

`.spec.template.chi`

类型

`object`

属性	类型	描述
<code>path</code>	<code>string</code>	Path to folder where ClickHouseInstallationTemplate .yaml manifests are located.

.spec.reconcile

描述

allow tuning reconciling process

类型

object

属性	类型	描述
<code>runtime</code>	object	runtime parameters for clickhouse-operator process which use during reconciling
<code>statefulSet</code>	object	Allow change default behavior for reconciling StatefulSet which generated by clickhouse-operator
<code>host</code>	object	allow define how to wait host include to system.cluster behavior during scale up and scale down cluster operations

.spec.reconcile.runtime

描述

runtime parameters for clickhouse-operator process which use during reconciling

类型

object

属性	类型	描述
<code>threadsNumber</code>	<code>integer</code>	How many goroutines will be used to reconcile in parallel, 10 by default

`.spec.reconcile.statefulSet`

描述

Allow change default behavior for reconciling StatefulSet which generated by clickhouse-operator

类型

`object`

属性	类型	描述
<code>create</code>	<code>object</code>	Behavior during create StatefulSet
<code>update</code>	<code>object</code>	Behavior during update StatefulSet

`.spec.reconcile.statefulSet.create`

描述

Behavior during create StatefulSet

类型

`object`

属性	类型	描述
		What to do in case created StatefulSet is not in Ready after <code>statefulSetUpdateTimeout</code> seconds Possible options:
<code>onFailure</code>	<code>string</code>	1. abort - do nothing, just break the process and wait for admin. 2. delete - delete newly created problematic StatefulSet. 3. ignore (default) - ignore error, pretend nothing happened and move on to the next StatefulSet.

.spec.reconcile.statefulSet.update

描述

Behavior during update StatefulSet

类型

`object`

属性	类型	描述
<code>timeout</code>	<code>integer</code>	How many seconds to wait for created/updated StatefulSet to be Ready
<code>pollInterval</code>	<code>integer</code>	How many seconds to wait between checks for created/updated StatefulSet status
<code>onFailure</code>	<code>string</code>	What to do in case updated StatefulSet is not in Ready after <code>statefulSetUpdateTimeout</code> seconds Possible options:

属性	类型	描述
		1. abort - do nothing, just break the process and wait for admin. 2. rollback (default) - delete Pod and rollback StatefulSet to previous Generation. Pod would be recreated by StatefulSet based on rollback-ed configuration. 3. ignore - ignore error, pretend nothing happened and move on to the next StatefulSet.

.spec.reconcile.host

描述

allow define how to wait host include to system.cluster behavior during scale up and scale down cluster operations

类型

object

属性	类型	描述
<code>wait</code>	object	

.spec.reconcile.host.wait

类型

object

属性	类型	描述
<code>exclude</code>	string	wait when a pod will be removed from the cluster

属性	类型	描述
<code>include</code>	<code>string</code>	wait when a pod will be added to the cluster

`.spec.annotation`

描述

defines which `metadata.annotations` items will include or exclude during render `StatefulSet`, `Pod`, `PVC` resources

类型

`object`

属性	类型	描述
<code>include</code>	<code>array</code>	When propagating labels from the chi's <code>metadata.annotations</code> section to child objects' <code>metadata.annotations</code> , include annotations with names from the following list
<code>exclude</code>	<code>array</code>	When propagating labels from the chi's <code>metadata.annotations</code> section to child objects' <code>metadata.annotations</code> , exclude annotations with names from the following list

`.spec.annotation.include`

描述

When propagating labels from the chi's ``metadata.annotations`` section to child objects' ``metadata.annotations``, include annotations with names from the following list

类型

array

.spec.annotation.include[]

类型

string

.spec.annotation.exclude

描述

When propagating labels from the chi's `metadata.annotations` section to child objects' `metadata.annotations`, exclude annotations with names from the following list

类型

array

.spec.annotation.exclude[]

类型

string

.spec.label

描述

defines which metadata.labels will include or exclude during render StatefulSet, Pod, PVC resources

类型

object

属性	类型	描述
include	array	When propagating labels from the chi's <code>metadata.labels</code> section to child objects' <code>metadata.labels</code> , include labels from the following list
exclude	array	When propagating labels from the chi's <code>metadata.labels</code> section to child objects' <code>metadata.labels</code> , exclude labels from the following list
appendScope	string	Whether to append <i>Scope</i> labels to StatefulSet and Pod "LabelShardScopeIndex" "LabelReplicaScopeIndex" "LabelCHIScopeIndex" "LabelCHIScopeCycleSize" "LabelCHIScopeCycleIndex" "LabelCHIScopeCycleOffset" "LabelClusterScopeIndex" "LabelClusterScopeCycleSize" "LabelClusterScopeCycleIndex" "LabelClusterScopeCycleOffset"

.spec.label.include

描述

When propagating labels from the chi's ``metadata.labels`` section to child objects' ``metadata.labels`` , include labels from the following list

类型

`array`

`.spec.label.include[]`

类型

`string`

`.spec.label.exclude`

描述

When propagating labels from the chi's ``metadata.labels`` section to child objects' ``metadata.labels``, exclude labels from the following list

类型

`array`

`.spec.label.exclude[]`

类型

`string`

`.spec.statefulSet`

描述

define StatefulSet-specific parameters

类型

`object`

属性	类型	描述
<code>revisionHistoryLimit</code>	<code>integer</code>	revisionHistoryLimit is the maximum number of revisions that will be maintained in the StatefulSet's revision history.

属性	类型	描述
		Look details in <code>statefulset.spec.revisionHistoryLimit</code>

.spec.pod

描述

define pod specific parameters

类型

`object`

属性	类型	描述
<code>terminationGracePeriod</code>	<code>integer</code>	Optional duration in seconds the pod needs to terminate gracefully. Look details in <code>pod.spec.terminationGracePeriodSeconds</code>

.spec.logger

描述

allow setup clickhouse-operator logger behavior

类型

`object`

属性	类型	描述
<code>logtostderr</code>	<code>string</code>	boolean, allows logs to stderr

属性	类型	描述
<code>alsologtostderr</code>	<code>string</code>	boolean allows logs to stderr and files both
<code>v</code>	<code>string</code>	verbosity level of clickhouse-operator log, default - 1 max - 9
<code>stderrthreshold</code>	<code>string</code>	
<code>vmodule</code>	<code>string</code>	Comma-separated list of filename=N, where filename (can be a pattern) must have no .go ext, and N is a V level. Ex.: file*=2 sets the 'V' to 2 in all files with names like file*.
<code>log_backtrace_at</code>	<code>string</code>	It can be set to a file and line number with a logging line. Ex.: file.go:123 Each time when this line is being executed, a stack trace will be written to the Info log.

API 端点

可用的 API 端点如下：

- `/apis/clickhouse.altinity.com/v1/namespaces/{namespace}/clickhouseoperatorconfigurations`
 - `DELETE` : delete collection of ClickHouseOperatorConfiguration
 - `GET` : list objects of kind ClickHouseOperatorConfiguration
 - `POST` : create a new ClickHouseOperatorConfiguration

- `/apis/clickhouse.altinity.com/v1/namespaces/{namespace}/clickhouseoperatorconfigurations/{name}`
 - **DELETE** : delete the specified ClickHouseOperatorConfiguration
 - **GET** : read the specified ClickHouseOperatorConfiguration
 - **PATCH** : partially update the specified ClickHouseOperatorConfiguration
 - **PUT** : replace the specified ClickHouseOperatorConfiguration

`/apis/clickhouse.altinity.com/v1/namespaces/{namespace}/clickhouseoperatorconfigurations`

HTTP 方法

DELETE

描述

delete collection of ClickHouseOperatorConfiguration

HTTP 响应

HTTP 状态码	响应体
200 - OK	Status ↗ schema
401 - Unauthorized	Empty

HTTP 方法

GET

描述

list objects of kind ClickHouseOperatorConfiguration

HTTP 响应

HTTP 状态码	响应体
200 - OK	ClickHouseOperatorConfigurationList schema
401 - Unauthorized	Empty

HTTP 方法

POST

描述

create a new ClickHouseOperatorConfiguration

查询参数

参数	类型	描述
dryRun	string	When present, indicates that modifications should not be persisted. An invalid or unrecognized dryRun directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed
fieldValidation	string	fieldValidation instructs the server on how to handle objects in the request (POST/PUT/PATCH) containing unknown or duplicate fields. Valid values are: - Ignore: This will ignore any unknown fields that are silently dropped from the object, and will ignore all but the last duplicate field that the decoder encounters. This is the default behavior prior to v1.23. - Warn: This will send a warning via the standard warning response header for each unknown field that is dropped from the object, and for each duplicate field that is encountered. The request will still succeed if there are no other errors, and will only persist the last of any duplicate fields. This is the default in v1.23+ - Strict: This will fail the request with a BadRequest error if any unknown fields would be dropped from the object, or if any duplicate fields are present. The error returned from the server will contain all unknown and duplicate fields encountered.

请求体参数

参数	类型	描述
body	ClickHouseOperatorConfiguration schema	application/json formatted

HTTP 响应

HTTP 状态码	响应体
200 - OK	<code>ClickHouseOperatorConfiguration</code> schema
201 - Created	<code>ClickHouseOperatorConfiguration</code> schema
202 - Accepted	<code>ClickHouseOperatorConfiguration</code> schema
401 - Unauthorized	Empty

/apis/clickhouse.altinity.com/v1/namespaces/{namespace}/clickhouseoperatorconfigurations/{name}

HTTP 方法

`DELETE`

描述

delete the specified ClickHouseOperatorConfiguration

查询参数

参数	类型	描述
<code>dryRun</code>	<code>string</code>	When present, indicates that modifications should not be persisted. An invalid or unrecognized dryRun directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed

HTTP 响应

HTTP 状态码	响应体
200 - OK	<code>Status</code> schema
202 - Accepted	<code>Status</code> schema

HTTP 状态码	响应体
401 - Unauthorized	Empty

HTTP 方法

GET

描述

read the specified ClickHouseOperatorConfiguration

HTTP 响应

HTTP 状态码	响应体
200 - OK	<code>ClickHouseOperatorConfiguration</code> schema
401 - Unauthorized	Empty

HTTP 方法

PATCH

描述

partially update the specified ClickHouseOperatorConfiguration

查询参数

参数	类型	描述
<code>dryRun</code>	<code>string</code>	When present, indicates that modifications should not be persisted. An invalid or unrecognized dryRun directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed
<code>fieldValidation</code>	<code>string</code>	fieldValidation instructs the server on how to handle objects in the request (POST/PUT/PATCH) containing unknown or duplicate fields. Valid values are: - Ignore: This will ignore any unknown fields that are silently dropped from the object, and will ignore all but the last duplicate field that the decoder encounters. This is the default behavior prior to v1.23. - Warn: This will send a

参数	类型	描述
		warning via the standard warning response header for each unknown field that is dropped from the object, and for each duplicate field that is encountered. The request will still succeed if there are no other errors, and will only persist the last of any duplicate fields. This is the default in v1.23+ - Strict: This will fail the request with a BadRequest error if any unknown fields would be dropped from the object, or if any duplicate fields are present. The error returned from the server will contain all unknown and duplicate fields encountered.

HTTP 响应

HTTP 状态码	响应体
200 - OK	<code>ClickHouseOperatorConfiguration</code> schema
401 - Unauthorized	Empty

HTTP 方法

PUT

描述

replace the specified ClickHouseOperatorConfiguration

查询参数

参数	类型	描述
<code>dryRun</code>	<code>string</code>	When present, indicates that modifications should not be persisted. An invalid or unrecognized dryRun directive will result in an error response and no further processing of the request. Valid values are: - All: all dry run stages will be processed
<code>fieldValidation</code>	<code>string</code>	fieldValidation instructs the server on how to handle objects in the request (POST/PUT/PATCH) containing unknown or duplicate fields. Valid values are: - Ignore: This will ignore any unknown fields that are silently

参数	类型	描述
		dropped from the object, and will ignore all but the last duplicate field that the decoder encounters. This is the default behavior prior to v1.23. - Warn: This will send a warning via the standard warning response header for each unknown field that is dropped from the object, and for each duplicate field that is encountered. The request will still succeed if there are no other errors, and will only persist the last of any duplicate fields. This is the default in v1.23+ - Strict: This will fail the request with a BadRequest error if any unknown fields would be dropped from the object, or if any duplicate fields are present. The error returned from the server will contain all unknown and duplicate fields encountered.

请求体参数

参数	类型	描述
body	ClickHouseOperatorConfiguration schema	application/json formatted

HTTP 响应

HTTP 状态码	响应体
200 - OK	ClickHouseOperatorConfiguration schema
201 - Created	ClickHouseOperatorConfiguration schema
401 - Unauthorized	Empty