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Hub APIs

Use the Hub APIs to list and retrieve Tekton Tasks, Pipelines, and StepActions indexed by Artifact Hub Shim.

Send the current user's Bearer token with each request. Add the `namespace` query parameter for Workspace-aware authorization and catalog visibility filtering. Namespace-aware requests do not fall back to the unscoped catalog view when authorization fails.

[Task APIs](#)[Pipeline APIs](#)[StepAction](#)[Hub Resource APIs](#)

Task APIs

List the Hub Tasks visible from a Workspace Namespace or retrieve a requested set of Tasks in one batch. Text search is performed by clients over the list response; this endpoint does not accept a server-side search expression.

/api/v1alpha1/tasks

get List Hub Tasks

Returns the Tasks visible from the requested Namespace. Visibility filtering happens before pagination. The API does not provide a server-side text-search parameter; clients can search or filter the returned list. This operation requires `list` permission on

`hub.tekton.dev/resources`.

Parameters

- `namespace` (*in query*): `string`
Workspace Namespace used for authorization and catalog visibility filtering. It must be a DNS-1123 label. When omitted, the response uses the legacy unscoped catalog view. Generated `apiPath` and `manifestURL` values preserve this parameter.
- `includeContent` (*in query*): `boolean`
Whether list items include README and manifest content. Detail and batch responses always include content.
- `offset` (*in query*): `integer`
Zero-based offset applied after visibility filtering.

- `limit` (in query): `integer`

Maximum number of items to return. When supplied, the server caps it at

`config.maxBatchQuerySize`, which defaults to 200. When omitted, all items after `offset` are returned.

Response

- `200` `HubResourceList`: The visible Hub Tasks.
- `400` `ErrorResponse`: The Namespace, query parameter, path, or request body is invalid.
- `401` `ErrorResponse`: The Authorization header is missing or the Bearer token is invalid.
- `403` `ErrorResponse`: The authenticated caller is not allowed to access Hub resources in the Namespace.
- `404` `ErrorResponse`: The Namespace or resource does not exist, or the catalog is not visible from the Namespace. Hidden catalogs intentionally use the same status as missing resources.
- `500` `ErrorResponse`: Indexed README or manifest content could not be resolved.
- `503` `ErrorResponse`: The Hub index, authentication service, or Namespace lookup service is temporarily unavailable.

`post` Batch-query Hub Tasks

Returns the requested Tasks in request order. The request is atomic: if any resource is missing or not visible from the Namespace, the entire request returns `404`. The default deployment accepts at most 200 entries and limits the JSON body to 1 MiB. This operation requires `list` permission on `hub.tekton.dev/resources`.

Parameters

- `namespace` (in query): `string`

Workspace Namespace used for authorization and catalog visibility filtering. It must be a DNS-1123 label. When omitted, the response uses the legacy unscoped catalog view.

Generated `apiPath` and `manifestURL` values preserve this parameter.

Request Body

TaskBatchRequest required

Response

- `200` [HubResourceList](#): The requested Hub resources.
- `400` [ErrorResponse](#): The Namespace, query parameter, path, or request body is invalid.
- `401` [ErrorResponse](#): The Authorization header is missing or the Bearer token is invalid.
- `403` [ErrorResponse](#): The authenticated caller is not allowed to access Hub resources in the Namespace.
- `404` [ErrorResponse](#): The Namespace or resource does not exist, or the catalog is not visible from the Namespace. Hidden catalogs intentionally use the same status as missing resources.
- `413` [ErrorResponse](#): The batch request body exceeds 1 MiB.
- `500` [ErrorResponse](#): Indexed README or manifest content could not be resolved.
- `503` [ErrorResponse](#): The Hub index, authentication service, or Namespace lookup service is temporarily unavailable.

HubResourceList

- `metadata` : [ListMetadata](#)
- `items` : `[]`[HubResource](#)

ListMetadata

- `resourceVersion` : `string`
Reserved for Kubernetes list compatibility; normally empty.

HubResource

- `metadata` : [ObjectMetadata](#)
- `spec` : [HubResourceSpec](#)

ObjectMetadata

- `name` : `string`
Hub resource name.
- `uid` : `string`
Deterministic Artifact Hub Shim identifier.
- `labels` : `map[string]string`
- `annotations` : `map[string]string`

HubResourceSpec

- `version` : `string`
Selected original catalog version.
- `available_versions` : `[]string`
Original catalog versions sorted from oldest to newest.
- `apiPath` : `string`
Versionless resource-detail path relative to `/api/v1alpha1/`.
- `tags` : `[]string`
- `readme` : `string`
README Markdown. Empty when `includeContent=false` on a list request.
- `platforms` : `[]string`
- `manifest` : `string`
Raw Tekton YAML. Empty when `includeContent=false` on a list request.
- `manifestURL` : `string`
Path to the raw YAML endpoint for the selected version.
- `description` : `string`
Human-readable resource description.
- `raw` : `object`
Reserved compatibility field for additional resource data.

BadRequest

The Namespace, query parameter, path, or request body is invalid.

ErrorResponse

- `error` : `string`

Human-readable error message.

Unauthorized

The Authorization header is missing or the Bearer token is invalid.

Forbidden

The authenticated caller is not allowed to access Hub resources in the Namespace.

NotFound

The Namespace or resource does not exist, or the catalog is not visible from the Namespace.
Hidden catalogs intentionally use the same status as missing resources.

InternalServerError

Indexed README or manifest content could not be resolved.

ServiceUnavailable

The Hub index, authentication service, or Namespace lookup service is temporarily unavailable.

TaskBatchRequest

Metadata for the Tasks to retrieve.

HubResourceBatchRequest

Batch lookup entries. The configured maximum can differ from the documented default of 200.

HubResourceLookup

- `catalog` : `string`
Repository or catalog name.
- `kind` : `string`
- `name` : `string`
Hub resource name.
- `version` : `string`
Optional version. When omitted, the latest version is returned.

HubResourceKind

PayloadTooLarge

The batch request body exceeds 1 MiB.

Pipeline APIs

List the Hub Pipelines visible from a Workspace Namespace or retrieve a requested set of Pipelines in one batch. Text search is performed by clients over the list response; this endpoint does not accept a server-side search expression.

/api/v1alpha1/pipelines

get List Hub Pipelines

Returns the Pipelines visible from the requested Namespace. Visibility filtering happens before pagination. The API does not provide a server-side text-search parameter; clients can search or filter the returned list. This operation requires `list` permission on `hub.tekton.dev/resources`.

Parameters

- `namespace` (*in query*): `string`
Workspace Namespace used for authorization and catalog visibility filtering. It must be a DNS-1123 label. When omitted, the response uses the legacy unscoped catalog view. Generated `apiPath` and `manifestURL` values preserve this parameter.
- `includeContent` (*in query*): `boolean`
Whether list items include README and manifest content. Detail and batch responses always include content.
- `offset` (*in query*): `integer`
Zero-based offset applied after visibility filtering.

- `limit` (*in query*): `integer`

Maximum number of items to return. When supplied, the server caps it at

`config.maxBatchQuerySize`, which defaults to 200. When omitted, all items after `offset` are returned.

Response

- `200` [HubResourceList](#): The requested Hub resources.
- `400` [ErrorResponse](#): The Namespace, query parameter, path, or request body is invalid.
- `401` [ErrorResponse](#): The Authorization header is missing or the Bearer token is invalid.
- `403` [ErrorResponse](#): The authenticated caller is not allowed to access Hub resources in the Namespace.
- `404` [ErrorResponse](#): The Namespace or resource does not exist, or the catalog is not visible from the Namespace. Hidden catalogs intentionally use the same status as missing resources.
- `500` [ErrorResponse](#): Indexed README or manifest content could not be resolved.
- `503` [ErrorResponse](#): The Hub index, authentication service, or Namespace lookup service is temporarily unavailable.

`post` Batch-query Hub Pipelines

Returns the requested Pipelines in request order. The request is atomic: if any resource is missing or not visible from the Namespace, the entire request returns `404`. The default deployment accepts at most 200 entries and limits the JSON body to 1 MiB. This operation requires `list` permission on `hub.tekton.dev/resources`.

Parameters

- `namespace` (*in query*): `string`

Workspace Namespace used for authorization and catalog visibility filtering. It must be a DNS-1123 label. When omitted, the response uses the legacy unscoped catalog view.

Generated `apiPath` and `manifestURL` values preserve this parameter.

Request Body

PipelineBatchRequest required

Response

- `200` [HubResourceList](#): The requested Hub resources.
- `400` [ErrorResponse](#): The Namespace, query parameter, path, or request body is invalid.
- `401` [ErrorResponse](#): The Authorization header is missing or the Bearer token is invalid.
- `403` [ErrorResponse](#): The authenticated caller is not allowed to access Hub resources in the Namespace.
- `404` [ErrorResponse](#): The Namespace or resource does not exist, or the catalog is not visible from the Namespace. Hidden catalogs intentionally use the same status as missing resources.
- `413` [ErrorResponse](#): The batch request body exceeds 1 MiB.
- `500` [ErrorResponse](#): Indexed README or manifest content could not be resolved.
- `503` [ErrorResponse](#): The Hub index, authentication service, or Namespace lookup service is temporarily unavailable.

HubResourceList

- `metadata` : [ListMetadata](#)
- `items` : `[]`[HubResource](#)

ListMetadata

- `resourceVersion` : `string`
Reserved for Kubernetes list compatibility; normally empty.

HubResource

- `metadata` : [ObjectMetadata](#)
- `spec` : [HubResourceSpec](#)

ObjectMetadata

- `name` : `string`
Hub resource name.
- `uid` : `string`
Deterministic Artifact Hub Shim identifier.
- `labels` : `map[string]string`
- `annotations` : `map[string]string`

HubResourceSpec

- `version` : `string`
Selected original catalog version.
- `available_versions` : `[]string`
Original catalog versions sorted from oldest to newest.
- `apiPath` : `string`
Versionless resource-detail path relative to `/api/v1alpha1/`.
- `tags` : `[]string`
- `readme` : `string`
README Markdown. Empty when `includeContent=false` on a list request.
- `platforms` : `[]string`
- `manifest` : `string`
Raw Tekton YAML. Empty when `includeContent=false` on a list request.
- `manifestURL` : `string`
Path to the raw YAML endpoint for the selected version.
- `description` : `string`
Human-readable resource description.
- `raw` : `object`
Reserved compatibility field for additional resource data.

BadRequest

The Namespace, query parameter, path, or request body is invalid.

ErrorResponse

- `error` : `string`

Human-readable error message.

Unauthorized

The Authorization header is missing or the Bearer token is invalid.

Forbidden

The authenticated caller is not allowed to access Hub resources in the Namespace.

NotFound

The Namespace or resource does not exist, or the catalog is not visible from the Namespace.
Hidden catalogs intentionally use the same status as missing resources.

InternalServerError

Indexed README or manifest content could not be resolved.

ServiceUnavailable

The Hub index, authentication service, or Namespace lookup service is temporarily unavailable.

PipelineBatchRequest

Metadata for the Pipelines to retrieve.

HubResourceBatchRequest

Batch lookup entries. The configured maximum can differ from the documented default of 200.

HubResourceLookup

- `catalog` : `string`
Repository or catalog name.
- `kind` : `string`
- `name` : `string`
Hub resource name.
- `version` : `string`
Optional version. When omitted, the latest version is returned.

HubResourceKind

PayloadTooLarge

The batch request body exceeds 1 MiB.

StepAction APIs

List the Hub StepActions visible from a Workspace Namespace or retrieve a requested set of StepActions in one batch. Text search is performed by clients over the list response; this endpoint does not accept a server-side search expression.

/api/v1alpha1/stepactions

get List Hub StepActions

Returns the StepActions visible from the requested Namespace. Visibility filtering happens before pagination. The API does not provide a server-side text-search parameter; clients can search or filter the returned list. This operation requires `list` permission on `hub.tekton.dev/resources`.

Parameters

- `namespace` (in query): `string`
Workspace Namespace used for authorization and catalog visibility filtering. It must be a DNS-1123 label. When omitted, the response uses the legacy unscoped catalog view. Generated `apiPath` and `manifestURL` values preserve this parameter.
- `includeContent` (in query): `boolean`
Whether list items include README and manifest content. Detail and batch responses always include content.
- `offset` (in query): `integer`
Zero-based offset applied after visibility filtering.

- `limit` (*in query*): `integer`

Maximum number of items to return. When supplied, the server caps it at

`config.maxBatchQuerySize`, which defaults to 200. When omitted, all items after `offset` are returned.

Response

- `200` `HubResourceList`: The requested Hub resources.
- `400` `ErrorResponse`: The Namespace, query parameter, path, or request body is invalid.
- `401` `ErrorResponse`: The Authorization header is missing or the Bearer token is invalid.
- `403` `ErrorResponse`: The authenticated caller is not allowed to access Hub resources in the Namespace.
- `404` `ErrorResponse`: The Namespace or resource does not exist, or the catalog is not visible from the Namespace. Hidden catalogs intentionally use the same status as missing resources.
- `500` `ErrorResponse`: Indexed README or manifest content could not be resolved.
- `503` `ErrorResponse`: The Hub index, authentication service, or Namespace lookup service is temporarily unavailable.

`post` Batch-query Hub StepActions

Returns the requested StepActions in request order. The request is atomic: if any resource is missing or not visible from the Namespace, the entire request returns `404`. The default deployment accepts at most 200 entries and limits the JSON body to 1 MiB. This operation requires `list` permission on `hub.tekton.dev/resources`.

Parameters

- `namespace` (*in query*): `string`

Workspace Namespace used for authorization and catalog visibility filtering. It must be a DNS-1123 label. When omitted, the response uses the legacy unscoped catalog view.

Generated `apiPath` and `manifestURL` values preserve this parameter.

Request Body

StepActionBatchRequest required

Response

- `200` [HubResourceList](#): The requested Hub resources.
- `400` [ErrorResponse](#): The Namespace, query parameter, path, or request body is invalid.
- `401` [ErrorResponse](#): The Authorization header is missing or the Bearer token is invalid.
- `403` [ErrorResponse](#): The authenticated caller is not allowed to access Hub resources in the Namespace.
- `404` [ErrorResponse](#): The Namespace or resource does not exist, or the catalog is not visible from the Namespace. Hidden catalogs intentionally use the same status as missing resources.
- `413` [ErrorResponse](#): The batch request body exceeds 1 MiB.
- `500` [ErrorResponse](#): Indexed README or manifest content could not be resolved.
- `503` [ErrorResponse](#): The Hub index, authentication service, or Namespace lookup service is temporarily unavailable.

HubResourceList

- `metadata` : [ListMetadata](#)
- `items` : `[]`[HubResource](#)

ListMetadata

- `resourceVersion` : `string`
Reserved for Kubernetes list compatibility; normally empty.

HubResource

- `metadata` : [ObjectMetadata](#)
- `spec` : [HubResourceSpec](#)

ObjectMetadata

- `name` : `string`
Hub resource name.
- `uid` : `string`
Deterministic Artifact Hub Shim identifier.
- `labels` : `map[string]string`
- `annotations` : `map[string]string`

HubResourceSpec

- `version` : `string`
Selected original catalog version.
- `available_versions` : `[]string`
Original catalog versions sorted from oldest to newest.
- `apiPath` : `string`
Versionless resource-detail path relative to `/api/v1alpha1/`.
- `tags` : `[]string`
- `readme` : `string`
README Markdown. Empty when `includeContent=false` on a list request.
- `platforms` : `[]string`
- `manifest` : `string`
Raw Tekton YAML. Empty when `includeContent=false` on a list request.
- `manifestURL` : `string`
Path to the raw YAML endpoint for the selected version.
- `description` : `string`
Human-readable resource description.
- `raw` : `object`
Reserved compatibility field for additional resource data.

BadRequest

The Namespace, query parameter, path, or request body is invalid.

ErrorResponse

- `error` : `string`

Human-readable error message.

Unauthorized

The Authorization header is missing or the Bearer token is invalid.

Forbidden

The authenticated caller is not allowed to access Hub resources in the Namespace.

NotFound

The Namespace or resource does not exist, or the catalog is not visible from the Namespace.
Hidden catalogs intentionally use the same status as missing resources.

InternalServerError

Indexed README or manifest content could not be resolved.

ServiceUnavailable

The Hub index, authentication service, or Namespace lookup service is temporarily unavailable.

StepActionBatchRequest

Metadata for the StepActions to retrieve.

HubResourceBatchRequest

Batch lookup entries. The configured maximum can differ from the documented default of 200.

HubResourceLookup

- `catalog` : `string`
Repository or catalog name.
- `kind` : `string`
- `name` : `string`
Hub resource name.
- `version` : `string`
Optional version. When omitted, the latest version is returned.

HubResourceKind

PayloadTooLarge

The batch request body exceeds 1 MiB.



Hub Resource APIs

Retrieve the latest or a specific version of a Hub Task, Pipeline, or StepAction. Detail responses contain the available versions, README, manifest, and the URL of the raw YAML endpoint. Catalogs that are not visible from the requested Namespace return `404` and do not disclose resource metadata.

/api/v1alpha1/{catalog}/{kind}/{name}

`get` Get the latest Hub resource version

Returns the latest indexed version of a Task, Pipeline, or StepAction, including its available versions, README, manifest, and raw-manifest URL. A catalog that is not visible from the Namespace is reported as `404` to avoid disclosing private catalog contents. This operation requires `get` permission on `hub.tekton.dev/resources`.

Parameters

- `catalog` (*in path*): `string` required
Repository or catalog name.
- `kind` (*in path*): `HubResourceKind` required
Tekton resource kind.
- `name` (*in path*): `string` required
Hub resource name.
- `namespace` (*in query*): `string`

Workspace Namespace used for authorization and catalog visibility filtering. It must be a DNS-1123 label. When omitted, the response uses the legacy unscoped catalog view. Generated `apiPath` and `manifestURL` values preserve this parameter.

Response

- `200` [HubResource](#): The requested Hub resource.
- `400` [ErrorResponse](#): The Namespace, query parameter, path, or request body is invalid.
- `401` [ErrorResponse](#): The Authorization header is missing or the Bearer token is invalid.
- `403` [ErrorResponse](#): The authenticated caller is not allowed to access Hub resources in the Namespace.
- `404` [ErrorResponse](#): The Namespace or resource does not exist, or the catalog is not visible from the Namespace. Hidden catalogs intentionally use the same status as missing resources.
- `500` [ErrorResponse](#): Indexed README or manifest content could not be resolved.
- `503` [ErrorResponse](#): The Hub index, authentication service, or Namespace lookup service is temporarily unavailable.

/api/v1alpha1/{catalog}/{kind}/{name}/{version}

`get` Get a specific Hub resource version

Returns one version of a Task, Pipeline, or StepAction, including its available versions, README, manifest, and raw-manifest URL. The version can use the original catalog value or its semantic-version-normalized equivalent. A catalog that is not visible from the Namespace is reported as `404`. This operation requires `get` permission on `hub.tekton.dev/resources`.

Parameters

- `catalog` (*in path*): `string` [required](#)
Repository or catalog name.
- `kind` (*in path*): [HubResourceKind](#) [required](#)

Tekton resource kind.

- `name` (*in path*): `string` required

Hub resource name.

- `version` (*in path*): `string` required

Original or semantic-version-normalized resource version.

- `namespace` (*in query*): `string`

Workspace Namespace used for authorization and catalog visibility filtering. It must be a DNS-1123 label. When omitted, the response uses the legacy unscoped catalog view.

Generated `apiPath` and `manifestURL` values preserve this parameter.

Response

- `200` [HubResource](#): The requested Hub resource.
- `400` [ErrorResponse](#): The Namespace, query parameter, path, or request body is invalid.
- `401` [ErrorResponse](#): The Authorization header is missing or the Bearer token is invalid.
- `403` [ErrorResponse](#): The authenticated caller is not allowed to access Hub resources in the Namespace.
- `404` [ErrorResponse](#): The Namespace or resource does not exist, or the catalog is not visible from the Namespace. Hidden catalogs intentionally use the same status as missing resources.
- `500` [ErrorResponse](#): Indexed README or manifest content could not be resolved.
- `503` [ErrorResponse](#): The Hub index, authentication service, or Namespace lookup service is temporarily unavailable.

/v1/resource/{catalog}/{kind}/{name}/{version}/yaml

`get` Get a raw Hub resource manifest

Returns the raw Tekton YAML referenced by `spec.manifestURL` in Hub resource responses.

A catalog that is not visible from the Namespace is reported as `404`. This operation requires

`get` permission on `hub.tekton.dev/resources`.

Parameters

- `catalog` (*in path*): `string` required
Repository or catalog name.
- `kind` (*in path*): `HubResourceKind` required
Tekton resource kind.
- `name` (*in path*): `string` required
Hub resource name.
- `version` (*in path*): `string` required
Original or semantic-version-normalized resource version.
- `namespace` (*in query*): `string`
Workspace Namespace used for authorization and catalog visibility filtering. It must be a DNS-1123 label. When omitted, the response uses the legacy unscoped catalog view.
Generated `apiPath` and `manifestURL` values preserve this parameter.

Response

- `200` : The raw Tekton resource manifest.
- `400` `ErrorResponse`: The Namespace, query parameter, path, or request body is invalid.
- `401` `ErrorResponse`: The Authorization header is missing or the Bearer token is invalid.
- `403` `ErrorResponse`: The authenticated caller is not allowed to access Hub resources in the Namespace.
- `404` `ErrorResponse`: The Namespace or resource does not exist, or the catalog is not visible from the Namespace. Hidden catalogs intentionally use the same status as missing resources.
- `500` `ErrorResponse`: Indexed README or manifest content could not be resolved.
- `503` `ErrorResponse`: The Hub index, authentication service, or Namespace lookup service is temporarily unavailable.

HubResource

- `metadata` : `ObjectMetadata`
- `spec` : `HubResourceSpec`

ObjectMetadata

- `name` : `string`
Hub resource name.
- `uid` : `string`
Deterministic Artifact Hub Shim identifier.
- `labels` : `map[string]string`
- `annotations` : `map[string]string`

HubResourceSpec

- `version` : `string`
Selected original catalog version.
- `available_versions` : `[]string`
Original catalog versions sorted from oldest to newest.
- `apiPath` : `string`
Versionless resource-detail path relative to `/api/v1alpha1/`.
- `tags` : `[]string`
- `readme` : `string`
README Markdown. Empty when `includeContent=false` on a list request.
- `platforms` : `[]string`
- `manifest` : `string`
Raw Tekton YAML. Empty when `includeContent=false` on a list request.
- `manifestURL` : `string`
Path to the raw YAML endpoint for the selected version.
- `description` : `string`
Human-readable resource description.
- `raw` : `object`
Reserved compatibility field for additional resource data.

BadRequest

The Namespace, query parameter, path, or request body is invalid.

ErrorResponse

- `error` : `string`

Human-readable error message.

Unauthorized

The Authorization header is missing or the Bearer token is invalid.

Forbidden

The authenticated caller is not allowed to access Hub resources in the Namespace.

NotFound

The Namespace or resource does not exist, or the catalog is not visible from the Namespace.
Hidden catalogs intentionally use the same status as missing resources.

InternalServerError

Indexed README or manifest content could not be resolved.

ServiceUnavailable

The Hub index, authentication service, or Namespace lookup service is temporarily unavailable.

