

[Security & Identity Products](https://cloud.google.com/products/security/) (https://cloud.google.com/products/security/)

[Cloud Key Management Service](https://cloud.google.com/kms/) (https://cloud.google.com/kms/)

[Documentation](https://cloud.google.com/kms/docs/) (https://cloud.google.com/kms/docs/) [Guides](#)

Sorting and filtering list results

Beta

This feature is in a pre-release state and might change or have limited support. For more information, see the [product launch stages](https://cloud.google.com/products/#product-launch-stages) (https://cloud.google.com/products/#product-launch-stages).

Cloud Key Management Service supports filtering and sorting results from the following **list** operations.

- [keyRings.list](https://cloud.google.com/kms/docs/reference/rest/v1/projects.locations.keyRings/list)
(https://cloud.google.com/kms/docs/reference/rest/v1/projects.locations.keyRings/list)
- [cryptoKeys.list](https://cloud.google.com/kms/docs/reference/rest/v1/projects.locations.keyRings.cryptoKeys/list)
(https://cloud.google.com/kms/docs/reference/rest/v1/projects.locations.keyRings.cryptoKeys/list)
- [cryptoKeyVersions.list](https://cloud.google.com/kms/docs/reference/rest/v1/projects.locations.keyRings.cryptoKeys.cryptoKeyVersions/list)
(https://cloud.google.com/kms/docs/reference/rest/v1/projects.locations.keyRings.cryptoKeys.cryptoKeyVersions/list)
- [importJobs.list](https://cloud.google.com/kms/docs/reference/rest/v1/projects.locations.keyRings.importJobs/list)
(https://cloud.google.com/kms/docs/reference/rest/v1/projects.locations.keyRings.importJobs/list)

Support for sorting and filtering in a **list** operation is indicated by the presence of **filter** and **orderBy** string fields in the list request body. Both fields use a simple language for referring to the fields in the object that is being sorted and/or filtered.

Filter syntax

The filter syntax consists of an expression on one or more fields of the objects being filtered.

You can use the following expression operators.

OperatorDescription

Operator	Description
=	Equality.
>	Greater than.
<	Less than.
=>	Greater than or equal to.
<=	Less than or equal to.
!=	Inequality.
-	The following are equivalent:
NOT	<pre>name != "quickstart" -name="quickstart" NOT name = "quickstart"</pre>
:	Containment. This is a case-insensitive substring match. As an example, <code>name: "cloud"</code> filters on resources that contain <code>cloud</code> (case-insensitive) in the resource name.
AND	Logical AND. A space is equivalent to AND , so the following are equivalent: <pre>name: "cloud" AND name: "kms" name: "cloud" name: "kms"</pre>
OR	Logical OR.

AND and **OR** operators are accepted at the same grouping level. **OR** takes precedence over **AND**. You can use parentheses to override default precedence.

When filtering on **time** values, encode the time as a string in the [RFC 3399](https://tools.ietf.org/html/rfc3339) (<https://tools.ietf.org/html/rfc3339>) format, such as `2019-06-20T01:30:15Z`.

When accessing a subfield, use dot syntax. For example, the [CryptoKey](https://cloud.google.com/kms/docs/reference/rest/v1/projects.locations.keyRings.cryptoKeys) (<https://cloud.google.com/kms/docs/reference/rest/v1/projects.locations.keyRings.cryptoKeys>) resource contains the **primary** field. You can filter **CryptoKey** results on the subfield `primary.algorithm` for a specific algorithm:

```
primary.algorithm=RSA_SIGN_PSS_2048_SHA256
```



Use the dot syntax for a [label](https://cloud.google.com/kms/docs/creating-managing-labels) (<https://cloud.google.com/kms/docs/creating-managing-labels>), and any other map type:

```
labels.team=alpha
```



A quoted string is interpreted as a single value rather than a sequence of values.

Filterable fields

You can filter on any field in the objects being returned.

List method

[keyRings.list](https://cloud.google.com/kms/docs/reference/rest/v1/projects.locations.keyRings/list) (<https://cloud.google.com/kms/docs/reference/rest/v1/projects.locations.keyRings/list>)

[cryptoKeys.list](https://cloud.google.com/kms/docs/reference/rest/v1/projects.locations.keyRings.cryptoKeys) (<https://cloud.google.com/kms/docs/reference/rest/v1/projects.locations.keyRings.cryptoKeys>)

[cryptoKeyVersions.list](https://cloud.google.com/kms/docs/reference/rest/v1/projects.locations.keyRings.cryptoKeys.cryptoKeyVersions)
(<https://cloud.google.com/kms/docs/reference/rest/v1/projects.locations.keyRings.cryptoKeys.cryptoKeyVersions>)

[importJobs.list](https://cloud.google.com/kms/docs/reference/rest/v1/projects.locations.keyRings.importJobs) (<https://cloud.google.com/kms/docs/reference/rest/v1/projects.locations.keyRings.importJobs>)

Sort-order syntax

You can sort results by the resource name of the objects. The following shows the supported sort-order values for the `orderBy` field.

Value	Description
' ' (empty string)	Results are sorted in the default order.
' name '	Results are sorted in ascending order by resource name.
' name desc '	Results are sorted in descending order by resource name.

Except as otherwise noted, the content of this page is licensed under the [Creative Commons Attribution 4.0 License](https://creativecommons.org/licenses/by/4.0/) (<https://creativecommons.org/licenses/by/4.0/>), and code samples are licensed under the [Apache 2.0 License](https://www.apache.org/licenses/LICENSE-2.0) (<https://www.apache.org/licenses/LICENSE-2.0>). For details, see our [Site Policies](https://developers.google.com/terms/site-policies) (<https://developers.google.com/terms/site-policies>). Java is a registered trademark of Oracle and/or its affiliates.

Last updated January 22, 2020.