Object tagging using user-created custom tags

ONTAP 9

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Object tagging using user-created custom tags overview

Beginning with ONTAP 9.8, FabricPool supports object tagging using user-created custom tags to enable you to classify and sort objects for easier management. If you are a user with the admin privilege level, you can create new object tags, and modify, delete, and view existing tags.

Assign a new tag during volume creation

You can create a new object tag when you want to assign one or more tags to new objects that are tiered from a new volume you create.

About this task

- A maximum of 4 tags per volume is allowed
- Each object tag must be a key-value pair separated by an equal sign (`""`)
- Multiple tags must be separated by a comma (`""`)
- Each tag value can contain a maximum of 127 characters
- Each tag key must start with either an alphabetic character or an underscore.

  Keys must contain only alphanumeric characters and underscores, and the maximum number of characters allowed is 127.

Step

1. Use the `volume create` command with the `-tiering-object-tags` option to create a new volume with the specified tags. You can specify multiple tags in comma-separated pairs:

   ```
   volume create [ -vserver <vserver name> ] -volume <volume_name> -tiering
   -object-tags <key1=value1> [
       ,<key2=value2>,<key3=value3>,<key4=value4> ]
   ```

   The following example creates a volume named fp_volume1 with three object tags.

   ```
   vol create -volume fp_volume1 -vserver vs0 -tiering-object-tags
   project=fabricpool,type=abc,content=data
   ```

Modify an existing tag

You can change the name of a tag, replace tags on existing objects in the object store, or add a different tag to new objects that you plan to add later.

About this task

Using the `volume modify` command with the `-tiering-object-tags` option replaces existing tags with the new value you provide.

Step

1. Use the `volume modify` command with the `-tiering-object-tags` option to modify an existing tag.

```
volume modify [ -vserver <vserver name> ] -volume <volume_name> -tiering
-object-tags <key1=value1> [ ,<key2=value2>,
<key3=value3>,<key4=value4> ]
```

The following example changes the name of the existing tag type=abc to type=xyz.

```
vol create -volume fp_volume1 -vserver vs0 -tiering-object-tags
project=fabricpool,type=xyz,content=data
```

Delete a tag

You can delete object tags when you no longer want them set on a volume or on objects in the object store.

Step

1. Use the `volume modify` command with the `-tiering-object-tags` option followed by an empty value (`""`) to delete an existing tag.

   The following example deletes the existing tags on fp_volume1.

```
vol modify -volume fp_volume1 -vserver vs0 -tiering-object-tags ""
```

View existing tags on a volume

You can view the existing tags on a volume to see what tags are available before appending new tags to the list.

Step

1. Use the `volume show` command with the `-tiering-object-tags` option to view existing tags on a volume.

```
volume show [ -vserver <vserver name> ] -volume <volume_name> -fields
-tiering-object-tags
```

Check object tagging status on FabricPool volumes

You can check if tagging is complete on one or more FabricPool volumes.

Step

1. Use the `vol show` command with the `-fieldsneeds-object-retagging` option to see if tagging is in progress, if it has completed, or if tagging is not set.

   ```
   vol show -fields needs-object-retagging  [ -instance | -volume <volume name>]
   ```

   One of the following values is displayed:

   - `true` — the object tagging scanner has not yet to run or needs to run again for this volume
   - `false` — the object tagging scanner has completed tagging for this volume
   - `<->` — the object tagging scanner is not applicable for this volume. This happens for volumes that are not residing on FabricPools.