



# Hedvig S3 Protocol-Compatible Object Storage User Interface

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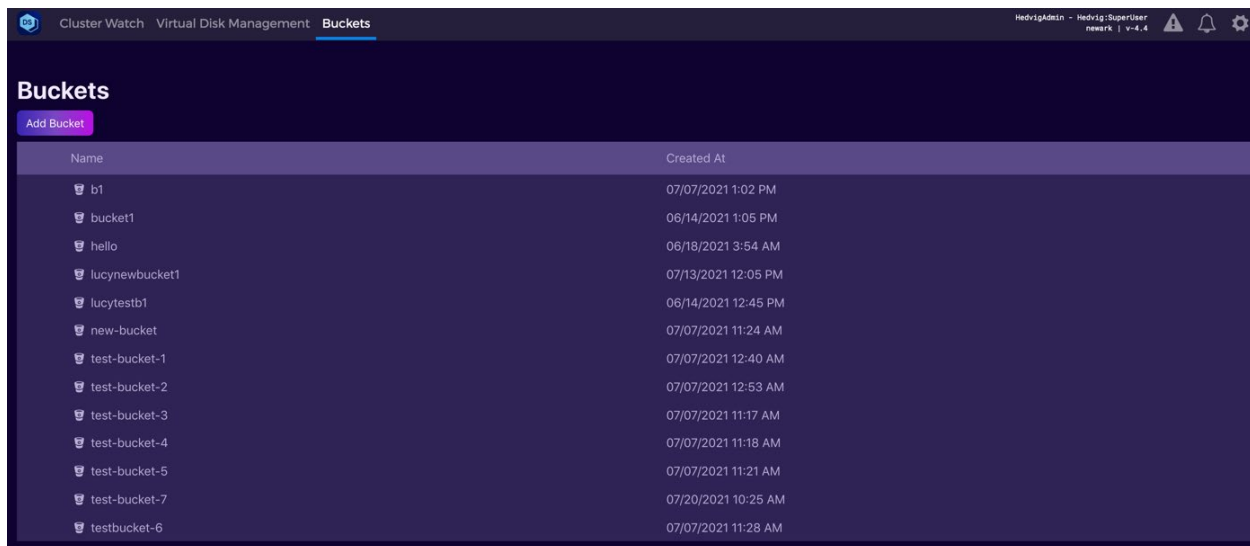
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# Using the Hedvig S3 User Interface

The *Hedvig S3 User Interface* provides capabilities to perform basic operations on Hedvig S3 Protocol-Compatible Object Storage, such as browsing, uploading, and deleting.

## Entering the Hedvig S3 dashboard

After logging into the Hedvig WebUI, click the **Buckets** tab at the top to enter the Hedvig S3 dashboard.



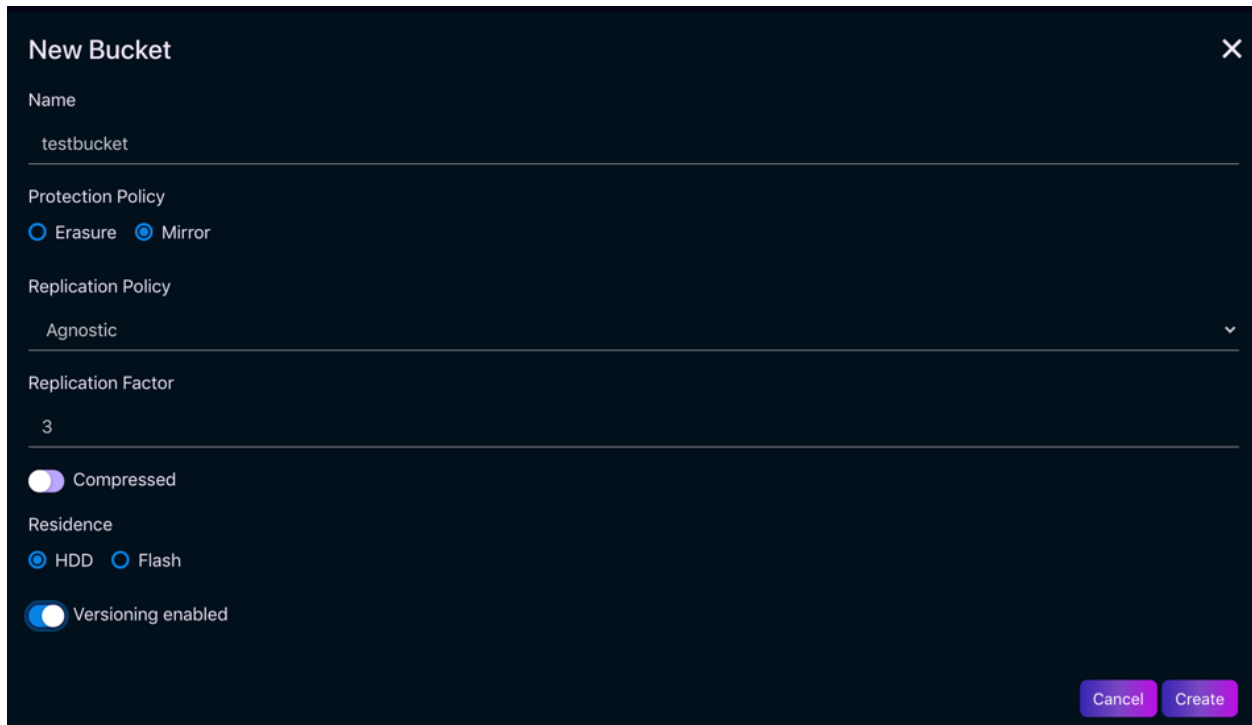
The screenshot shows the Hedvig S3 dashboard interface. At the top, there are navigation tabs: Cluster Watch, Virtual Disk Management, and Buckets (which is selected). The user is logged in as HedvigAdmin - Hedvig SuperUser. Below the navigation, there is a section titled 'Buckets' with an 'Add Bucket' button. A table lists the following buckets:

Name	Created At
b1	07/07/2021 1:02 PM
bucket1	06/14/2021 1:05 PM
hello	06/18/2021 3:54 AM
lucynewbucket1	07/13/2021 12:05 PM
lucytestb1	06/14/2021 12:45 PM
new-bucket	07/07/2021 11:24 AM
test-bucket-1	07/07/2021 12:40 AM
test-bucket-2	07/07/2021 12:53 AM
test-bucket-3	07/07/2021 11:17 AM
test-bucket-4	07/07/2021 11:18 AM
test-bucket-5	07/07/2021 11:21 AM
test-bucket-7	07/20/2021 10:25 AM
testbucket-6	07/07/2021 11:28 AM

Figure 1: Hedvig S3 dashboard

## Creating new buckets

To create a new bucket, click the **Add Bucket** button. In the **New Bucket** dialog, you can select attributes for the bucket, such as replication policy, disk residence type, and versioning status of the bucket at creation.



**New Bucket** ✕

Name  
testbucket

Protection Policy  
 Erasure  Mirror

Replication Policy  
Agnostic ▾

Replication Factor  
3

Compressed

Residence  
 HDD  Flash

Versioning enabled

Cancel Create

Figure 2: New Bucket dialog

# Performing operations on buckets

To perform operations on a bucket, click the ... (ellipsis) to the left of the bucket. There are four possible operations:

- [Modifying a bucket's ACL](#)
- [Modifying bucket versioning](#)
- [Exploring buckets](#)
- [Deleting buckets](#)

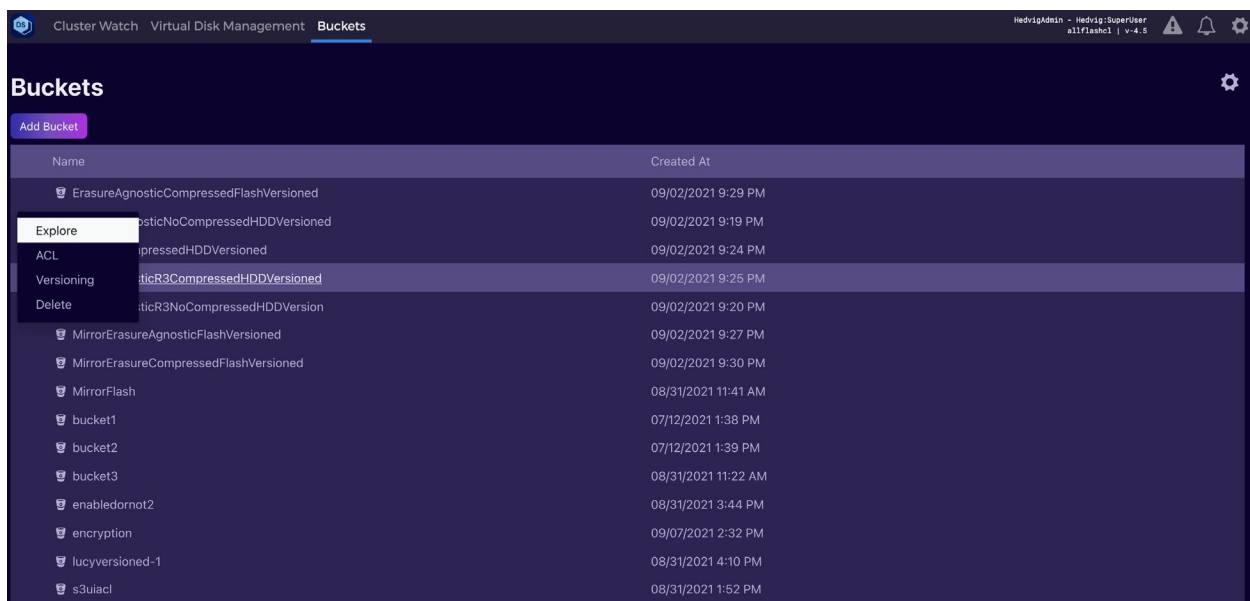


Figure 3: Operations for buckets

## Viewing, adding, or modifying a bucket's ACL

In the ACL tab, you can view, add, or modify the current ACL for a bucket. For **New Grant**, you can give either a specified user ACL or a canned ACL, such as *AllUsers* and *AllAuthenticatedUsers*.

**Note:** Currently, if you grant the read/write ACL to another user, and that user is logged into the Hedvig S3 UI, they will not be able to view the granted bucket on the dashboard.

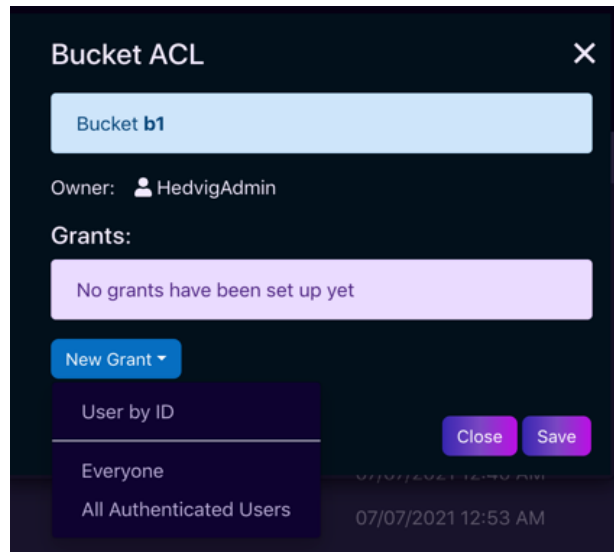


Figure 4: Modifying a bucket's ACL

## Modifying bucket versioning

You can change the versioning status on a bucket – such as to change an unversioned bucket to a versioning-enabled bucket – or switch a versioning-enabled bucket to a versioning-suspended one.

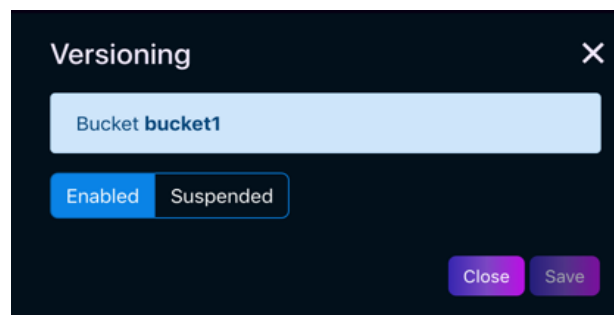


Figure 5: Modifying bucket versioning

## Exploring buckets

Using the Explore option, you can view the list of objects in the selected bucket.

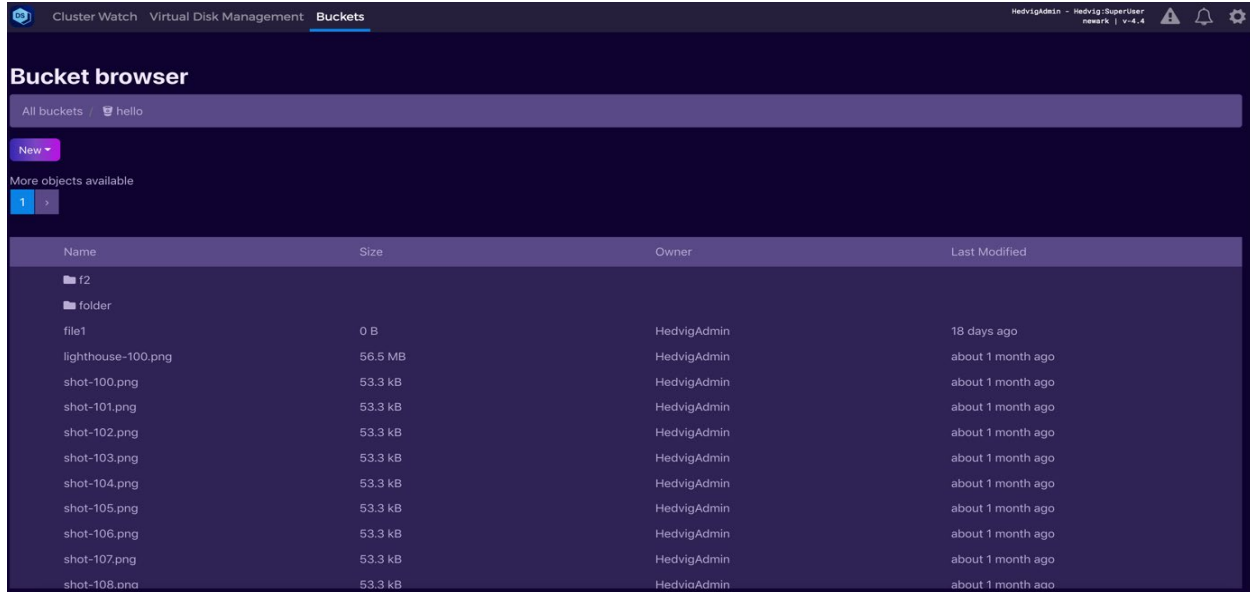


Figure 6: Exploring buckets

## Deleting buckets

To delete a bucket, select the **Delete** option. In the **Delete** dialog, confirm the bucket to be deleted, and select **Close** if you do not want to delete it, or **Delete** if you do.

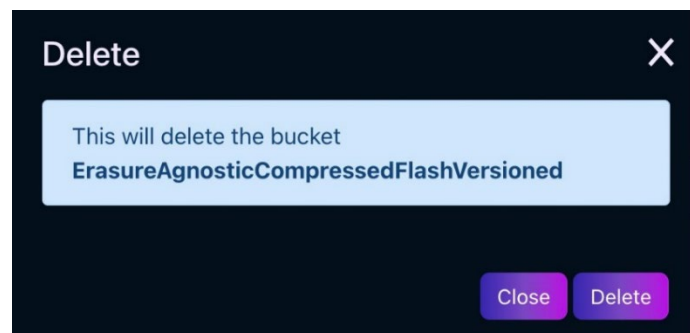


Figure 7: Deleting buckets



# Performing operations on objects

To perform operations on an object, click the ... (ellipsis) to the left of the object. There are five possible operations:

- *Downloading objects*
- *Viewing and modifying object metadata*
- *Viewing objects with multiple versions*
- *Viewing, adding, or modifying an object's ACL*
- *Deleting objects*

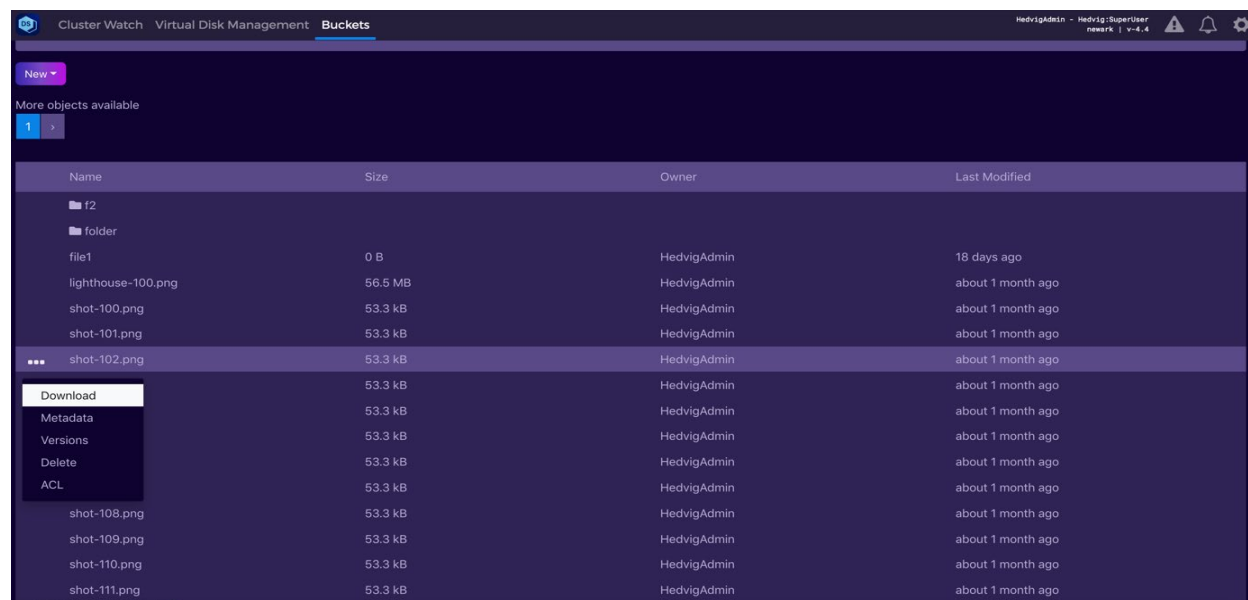


Figure 8: Operations for objects

## Downloading objects

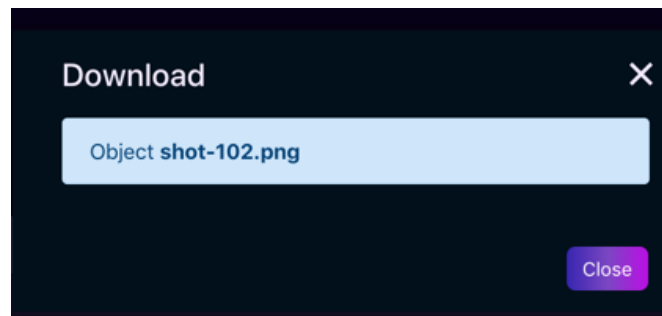


Figure 9: Downloading objects

## Viewing and modifying object metadata

You can view and modify metadata, and you can add customized user metadata, as well.

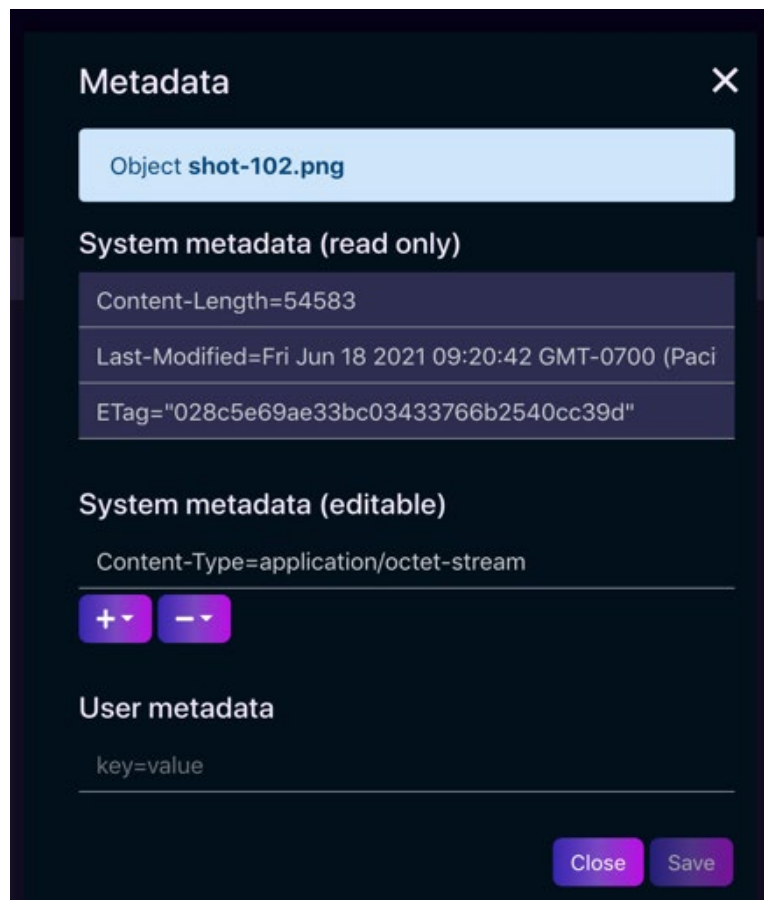


Figure 10: Viewing object metadata

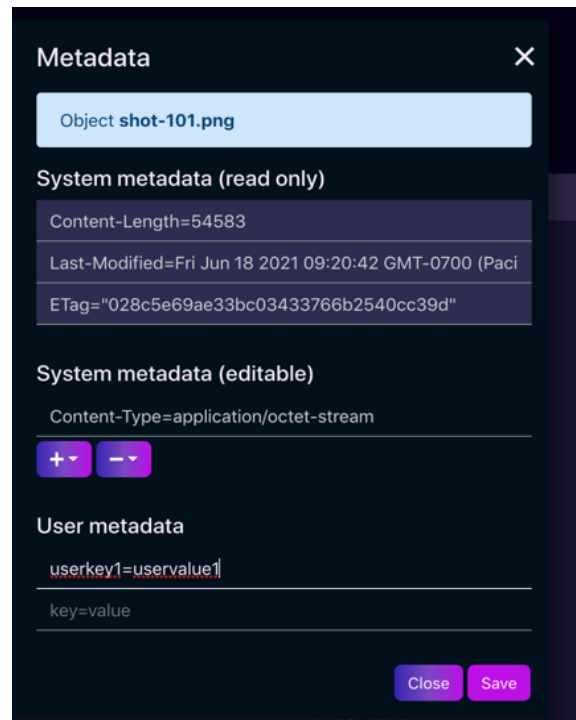


Figure 11: Viewing object metadata (continued)

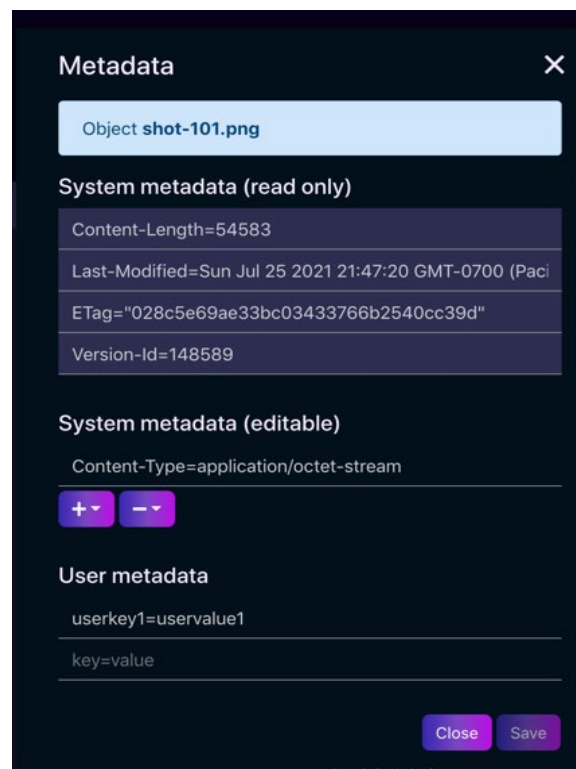


Figure 12: Viewing metadata for a versioned object

## Viewing objects with multiple versions

If an object has multiple versions, you can view it in the Object versions tab. (If the bucket is unversioned, there will be only one object with version null.)

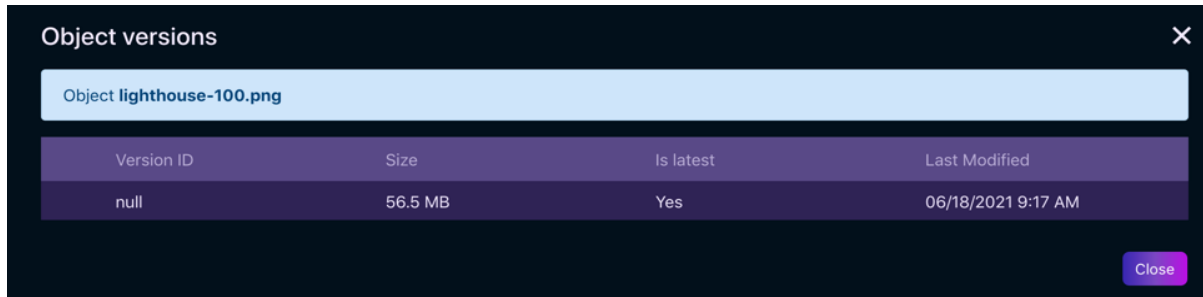


Figure 13: Viewing objects with multiple versions

## Viewing, adding, or modifying an object's ACL

In the ACL tab, you can view, add, or modify the current ACL for an object. For **New Grant**, you can give either a specified user ACL or a canned ACL, such as *AllUsers* and *AllAuthenticatedUsers*.

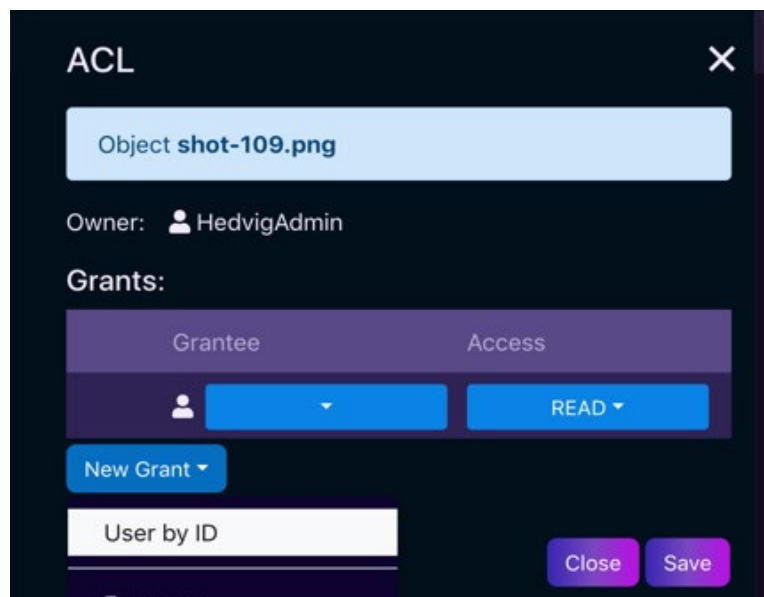


Figure 14: ACL tab

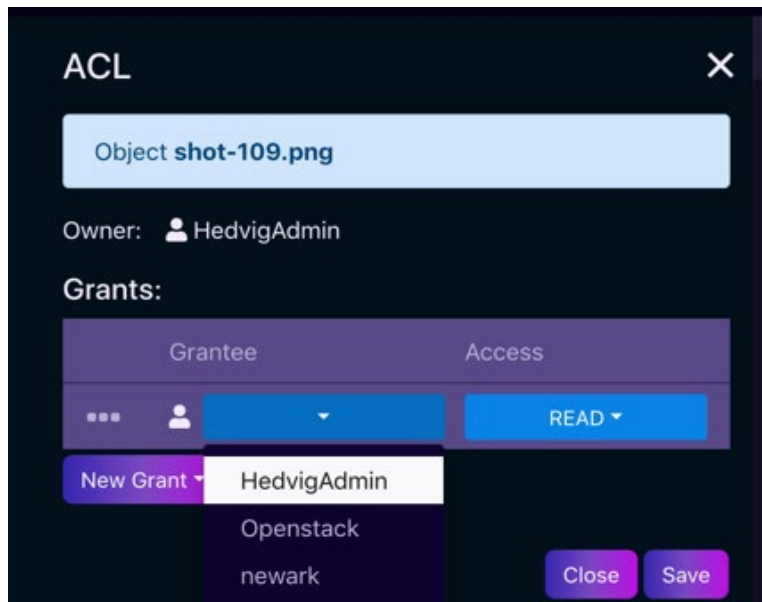


Figure 15: ACL tab (continued)

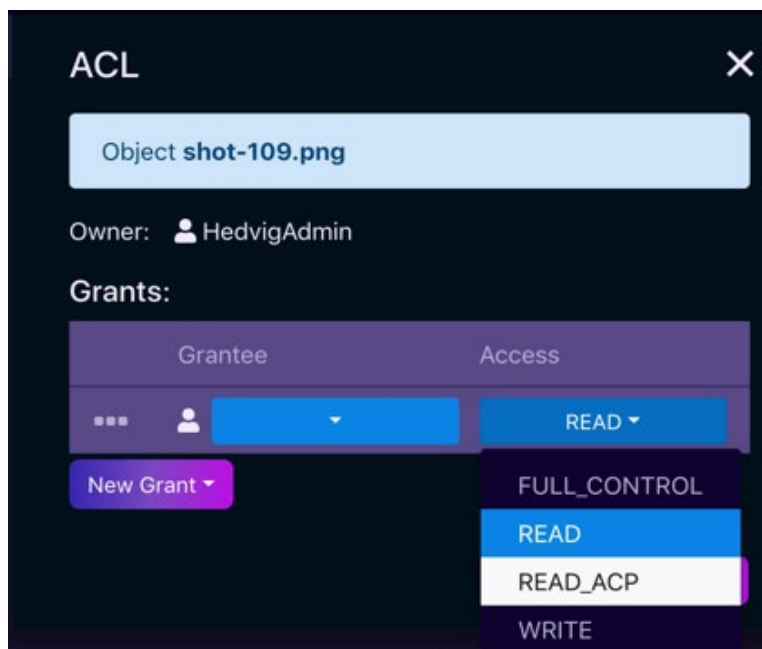


Figure 16: ACL tab (continued 2)

## Deleting objects

You can delete one object, or you can delete multiple objects simultaneously.

To delete multiple objects, select all of the objects that you need to delete, and click the ... (ellipsis) at the top. You will see the option to delete all of the objects that you have selected.

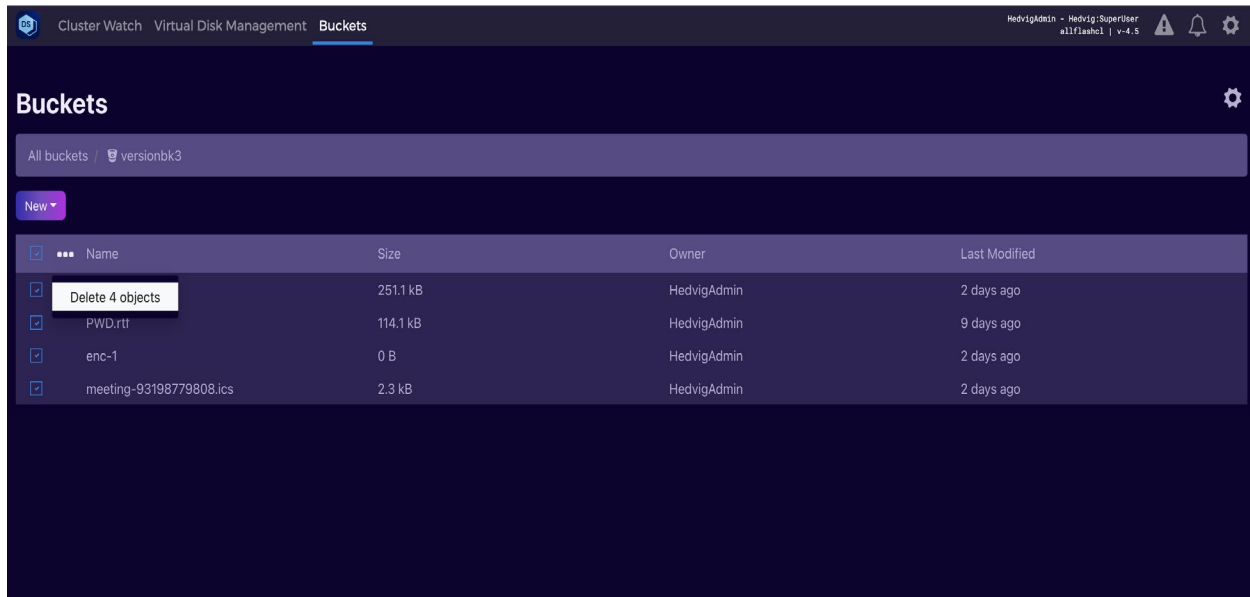


Figure 17: Deleting multiple objects simultaneously

# Additional operations for buckets

For buckets, you can use the **New** button to perform three additional operations:

- *Creating new (empty) files*
- *Creating new folders*
- *Uploading files*

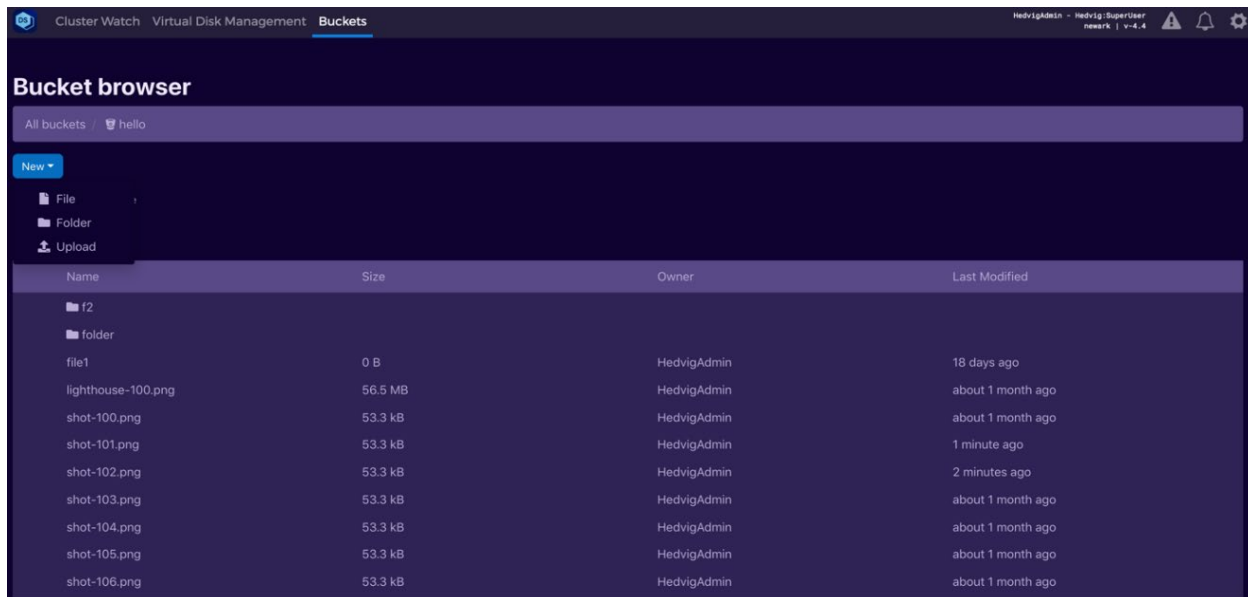


Figure 18: Operations for buckets under the New button

## Creating new (empty) files

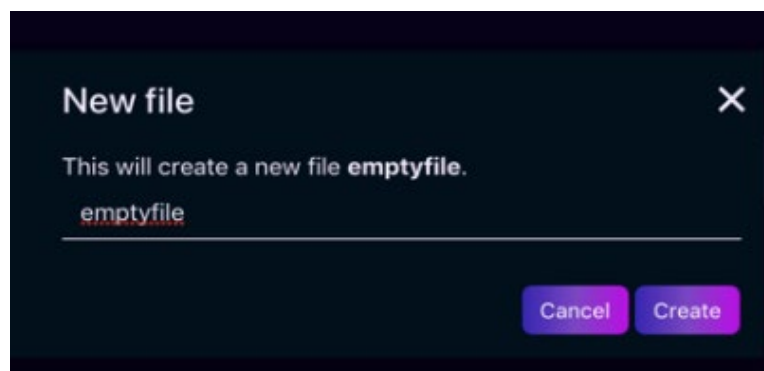


Figure 19: Creating an empty file

## Creating new folders

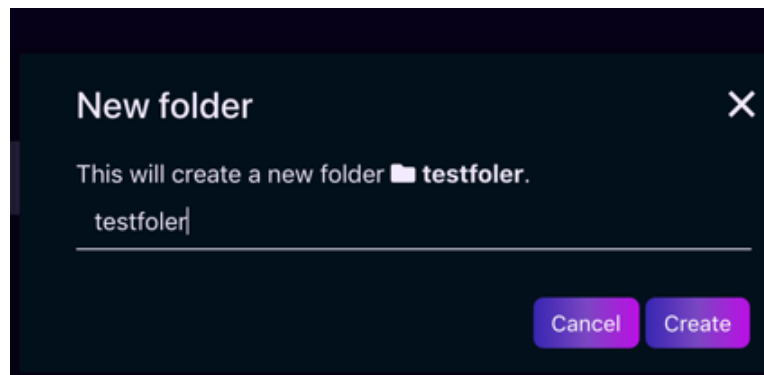


Figure 20: Creating a new folder

## Uploading files

If your cluster has KMS set up, while uploading files you can also turn on the encrypt option to upload the object with AES-256 encryption.

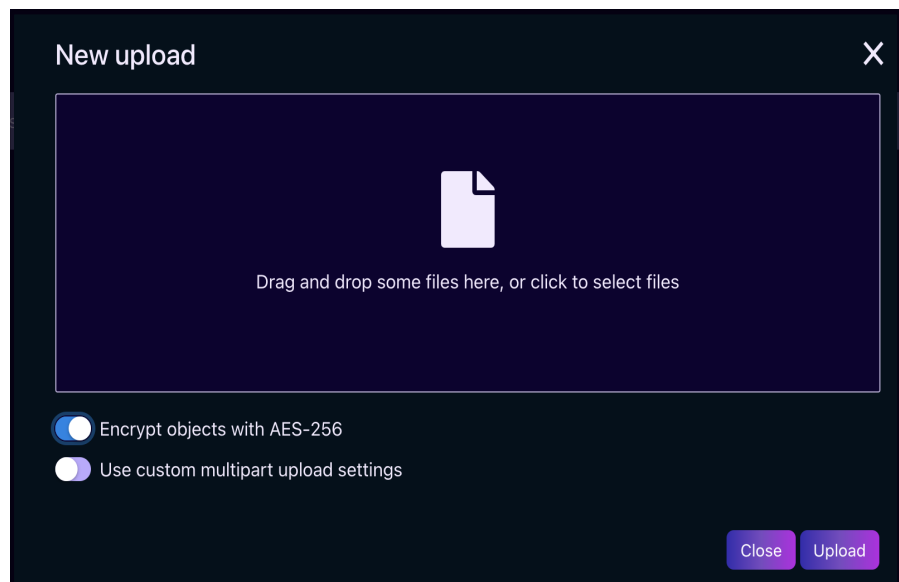


Figure 21: Uploading files with AES-256 encryption



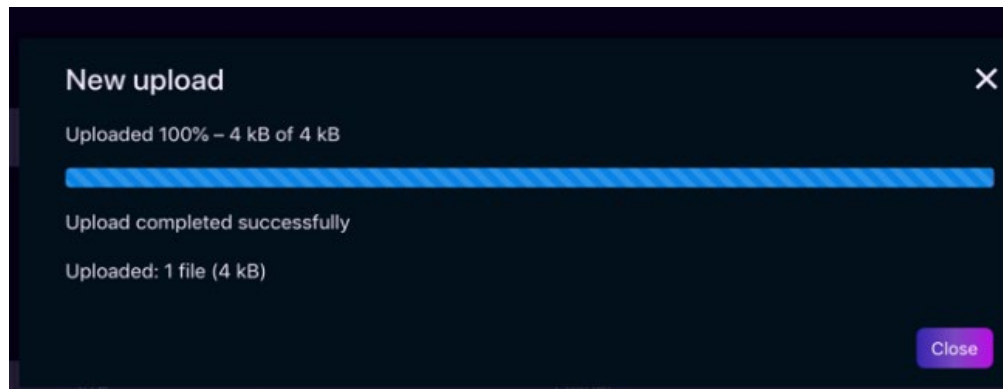


Figure 22: Uploading files -- completed successfully

When you upload a large object, you can make it a multipart upload. You can specify the threshold and chunk size. The default is that any objects larger than 100 MB will be uploaded with chunk size of 10 MB.

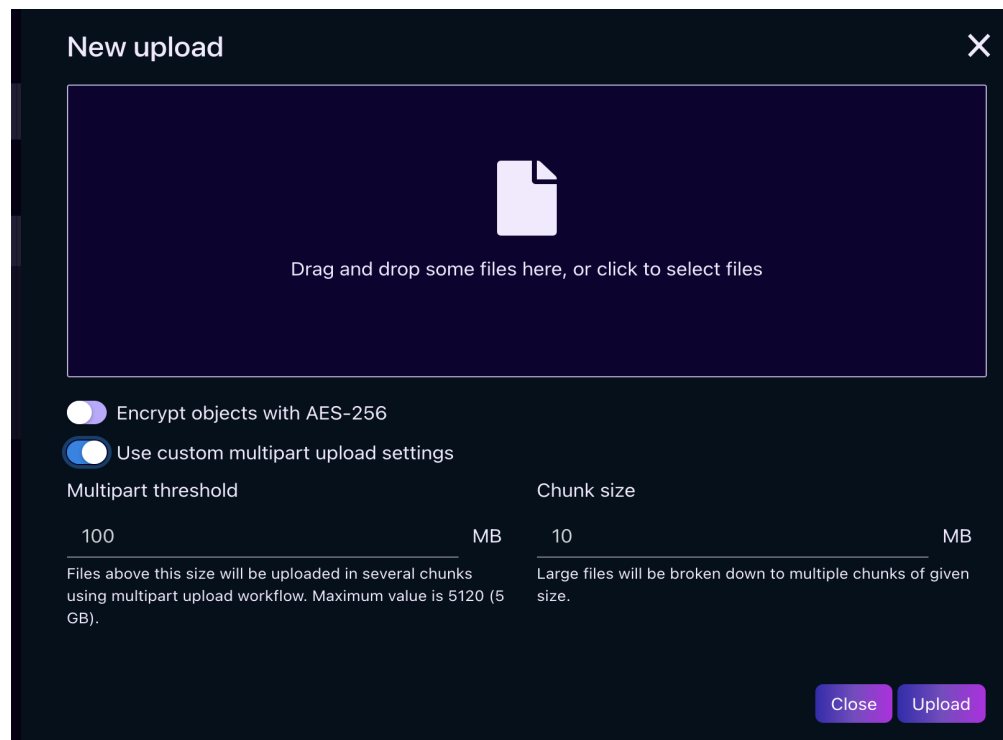


Figure 23: Uploading files with custom multipart upload settings

# Appendix A: Hedvig S3 UI functionality support matrix

S3 API	Supported
put-bucket-acl	Yes
get-bucket-acl	Yes
put-bucket-cors	No
get-bucket-cors	No
delete-bucket-cors	No
put-bucket-policy	No
get-bucket-policy	No
delete-bucket-policy	No
put-bucket-tagging	No
get-bucket-tagging	No
delete-bucket-tagging	No
put-bucket-versioning	Yes
get-bucket-versioning	Yes
create-bucket	Yes
delete-bucket	Yes
head-bucket	Yes
list-buckets	Yes
list-objects / list-objects-v2	Yes
list-object-versions	Yes
put-object	Yes
copy-object	No
get-object	Yes

S3 API	Supported
delete-object	Yes
delete-objects	Yes
put-object-acl	Yes
get-object-acl	Yes
put-object-tagging	No
get-object-tagging	No
delete-object-tagging	No
head-object	Yes
put-object-retention	No
get-object-retention	No
put-object-legal-hold	No
get-object-legal-hold	No
put-object-lock-configuration	No
get-object-lock-configuration	No
abort-multipart-upload	No
complete-multipart-upload	Yes
create-multipart-upload	Yes
list-multipart-uploads	No
list-parts	No
upload-part	Yes
upload-part-copy	No

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