

# Configure an extended CIFS or NFS datastore

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The following procedures show you how to configure an external datastore for the ExtraHop system.

## Before you begin

[Calculate the size needed for your extended datastore](#) 

To configure an extended datastore, you will complete the following steps:

- First, you mount the NFS or CIFS share where you want to store data.
- For NFS, optionally configure Kerberos authentication before you add the NFS mount.
- Finally, specify the newly added mount as the active datastore.

## Add a CIFS mount

1. Log in to the Administration settings on the ExtraHop system through `https://<extrahop-hostname-or-IP-address>/admin`.
2. In the System Configuration section, click **Datastore**.
3. In the Extended Datastore Settings section, click **Configure Extended Datastore**.
4. Click **Add Mount**.
5. Click **Add CIFS Mount**.
6. On the Configure CIFS Mount page, enter the following information:

### Mount Name

A name for the mount; for example, `EXDS_CIFS`.

### Remote Share Path

The path for the share in the following format:

```
\\host\mountpoint
```

For example:

```
\\herring\extended-datastore
```

### SMB Version

The SMB version that is compatible with your file server.

### Domain

The site domain.

7. If password protection is required, complete the following steps:
  - a) From the Authentication drop-down menu, select **password**.
  - b) In the User and Password fields, type a valid username and password.
8. Click **Save**.

## (Optional) Configure Kerberos for NFS

You must configure any desired Kerberos authentication before you add an NFS mount.

1. Log in to the Administration settings on the ExtraHop system through `https://<extrahop-hostname-or-IP-address>/admin`.
2. In the System Configuration section, click **Datastore and Customizations**.

3. In the Extended Datastore Settings section, click **Configure Extended Datastore**.
4. Click **Add Kerberos Config**, then complete the following information.
  - a) In the Admin Server field, type the IP address or hostname of the master Kerberos server that issues tickets.
  - b) In the Key Distribution Center (KDC) field, type the IP address or hostname of the server that holds the keys.
  - c) In the Realm field, type the name of the Kerberos realm for your configuration.
  - d) In the Domain field, type the name of the Kerberos domain for your configuration.
5. In the Keytab File section, click **Choose File**, select a saved keytab file, and then click **Open**.
6. Click **Upload**.


## Add an NFS mount

### Before you begin

- Configure any applicable Kerberos authentication before you add an NFS mount.
  - Either allow read/write access for all users on the share or assign the 'extrahop' user as the owner of the share and allow read/write access.
  - You must have NFS version 4.
1. In the System Configuration section, click **Datastore and Customizations**.
  2. In the Extended Datastore Settings section, click **Configure Extended Datastore**.
  3. Click **Add NFSv4 Mount**.
  4. On the Configure NFSv4 Mount page, complete the following information:
    - a) In the Mount Name field, type a name for the mount, such as EXDS.
    - b) In the Remote Share Point field, type the path for the mount in the following format: `host : / mountpoint`, such as `herring : /mnt/extended-datastore`.
  5. From the Authentication drop-down, select from the following options:
    - **None**, For no authentication
    - **Kerberos**, For krb5 security.
    - **Kerberos (Secure Auth and Data Integrity)**, for krb5i security.
    - **Kerberos (Secure Auth, Data Integrity, Privacy)**, for krb5p security
  6. Click **Save**.


## Specify a mount as an active extended datastore

After you add a CIFS or NFS mount, set the mount as your active extended datastore. Remember that only one datastore can collect metrics at a time.

 **Note:** If you decide to store 5-minute and 1-hour metrics on the extended datastore, this option causes any 5-minute and 1-hour metrics collected from the local ExtraHop system datastore to be migrated to the extended datastore. Migrating 5-minute and 1-hour metrics to an extended datastore leaves more room to store 30-second metrics on the local datastore, which increases the amount of high-resolution lookback available.


1. Log in to the Administration settings on the ExtraHop system through `https://<extrahop-hostname-or-IP-address>/admin`.
2. In the System Configuration section, click **Datastore and Customizations**.
3. In the Extended Datastore Settings section, click **Configure Extended Datastore**.
4. From the Mount Name drop-down, select the name of the mount you want to specify as the extended datastore.

5. In the Datastore Directory field, type a name for the datastore directory. The directory is automatically created on the mount point by the ExtraHop system.
6. From the Configure as options, select the **Active** radio button.
7. In the Datastore Size field, specify the maximum amount of data that can be stored on the datastore.
8. Select the checkbox to store 5-minute and 1-hour metrics on the extended datastore. 24-hour metrics are always stored on the extended datastore.
9. Specify whether to migrate existing metrics to the extended datastore by selecting from one of the following options.
  - To migrate existing metrics, click **Move existing metrics to the extended datastore**.
  - To retain existing metrics on the local datastore, click **Keep existing metrics on the ExtraHop**.

 **Warning:** While data is migrated, the ExtraHop system stops collecting data and system performance is degraded. The migration process takes more time under the following circumstances:

  - If there is a large amount of data to migrate
  - If the network connection to the NAS device hosting the datastore is slow
  - If the write performance of the NAS device hosting the datastore is slow
10. Select **Move existing**.
11. Specify what the system should do if the datastore becomes full by selecting from the following options.
  - To overwrite older data when the datastore becomes full, click **Overwrite**.
  - To stop storing new metrics on the extended datastore when the datastore becomes full, click **Stop writing**.
12. Click **Configure**.
13. After the storage is added, the Status displays `Nominal`.

#### Next steps

- [Troubleshoot issues with an extended datastore](#) 
- [Archive an extended datastore for read-only access](#) 