

Managing Storage Pools

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Parent Pools

The parent pools receive their capacity from MDisks. A storage pool is a collection of MDisks that jointly contain all of the data for a specified set of volumes. All MDisks in a storage pool are split into extents of the same size. You can add MDisks to a storage pool at any time either to increase the number of extents that are available for new volume copies or to expand existing volume copies. Volumes are created from the extents that are available in the pool.

Child Pools

The child pools are similar to the parent pools with similar properties and they can be used for volume copy operation. Instead of creating directly from MDisks, you can create child pools from the existing capacity that is allocated to a parent pool. You can create volumes that specifically use the capacity that is allocated to the child pool as with parent pools. The capacity of the child pool must be smaller than the free capacity that is available to the parent pool. The child pools are created with fully allocated physical capacity. The allocated capacity of the child pool is no longer reported as the free space of its parent pool. You can create and change the child pools only with the command-line interface of the IBM Srorwize storage device but you can view the child pools and their properties in the management GUI of the IBM Srorwize storage device.

You can drill down the Storage Pools report in Cisco UCS Director to view the child pool report.

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Creating a Storage Pool

- **Step 1** Choose **Physical** > **Storage**.
- **Step 2** In the left pane, navigate to the pod to which the storage account is added.
- **Step 3** Choose the storage account type.
- Step 4 Click Storage Pools.
- Step 5 Click Create.
- **Step 6** On the **Create Storage Pool** screen, complete the following fields:

Name	Description
Pool Name field	The storage pool name.
Extent Size drop-down list	Choose the size of an extent. It ranges from 16 MB to 8 GB.
Maximum Addressible Size field	4 PB.
Waring Threshold (0 to 100%) field	Set the warning threshold (in terms of percentage) to send out an alert to the administrator when the usage reaches the threshold value.
MDisks drop-down list	Choose the unmanaged (not used by the system) MDisk from the list to include in this pool.

Step 7 Click Submit.

Renaming a Storage Pool

- Step 1Choose Physical > Storage.
- **Step 2** In the left pane, navigate to the pod to which the storage account is added.
- **Step 3** Choose the storage account type.
- Step 4 Click Storage Pools.
- **Step 5** Choose the storage pool that you want to rename.
- Step 6 Click Rename.
- **Step 7** On the **Rename Storage Pool** screen, enter the new name for the storage pool.
- Step 8 Click Submit.

Deleting a Storage Pool

Step 1	Choose Physical > Storage .
Step 2	In the left pane, navigate to the pod to which the storage account is added.
Step 3	Choose the storage account type.
Step 4	Click Storage Pools.
Step 5	Choose the storage pool that you want to delete.
Step 6	Click Delete.
Step 7	On the Delete Storage Pool screen, check the Delete all volumes, host mappings, and MDisks associated with pool check box.
Step 8	Click Submit.

Expanding a Storage Pool

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Step 1	Choose Physical > Storage .
Step 2	In the left pane, navigate to the pod in which the storage account is added.
Step 3	Choose the storage account type.
Step 4	Click Storage Pools .
Step 5	Choose the storage pool that you want to expand.
Step 6	Click Expand.
Step 7	On the Expand Pool screen, click Select.
Step 8	Choose an MDisk that you want to use to expand the storage pool.
Step 9	Click Submit.

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