Exercise 3: Creating a Flash Pool Aggregate

In this exercise, you convert an aggregate with only HDDs into a Flash Pool aggregate to increase performance.

Objectives

This exercise focuses on enabling you to convert an aggregate to a Flash Pool aggregate.

Case Study

Sales at Zarrot Industries are growing rapidly. The company website is under a heavy load and would benefit from faster I/O. Mr. Zarrot has purchased some SSD drives for the NetApp system to improve I/O performance. Only data that is actively used should be stored in the SSD drives. You need to enable automatic tiering of data by adding the SSDs to an existing aggregate with HDDs to create a Flash Pool aggregate.

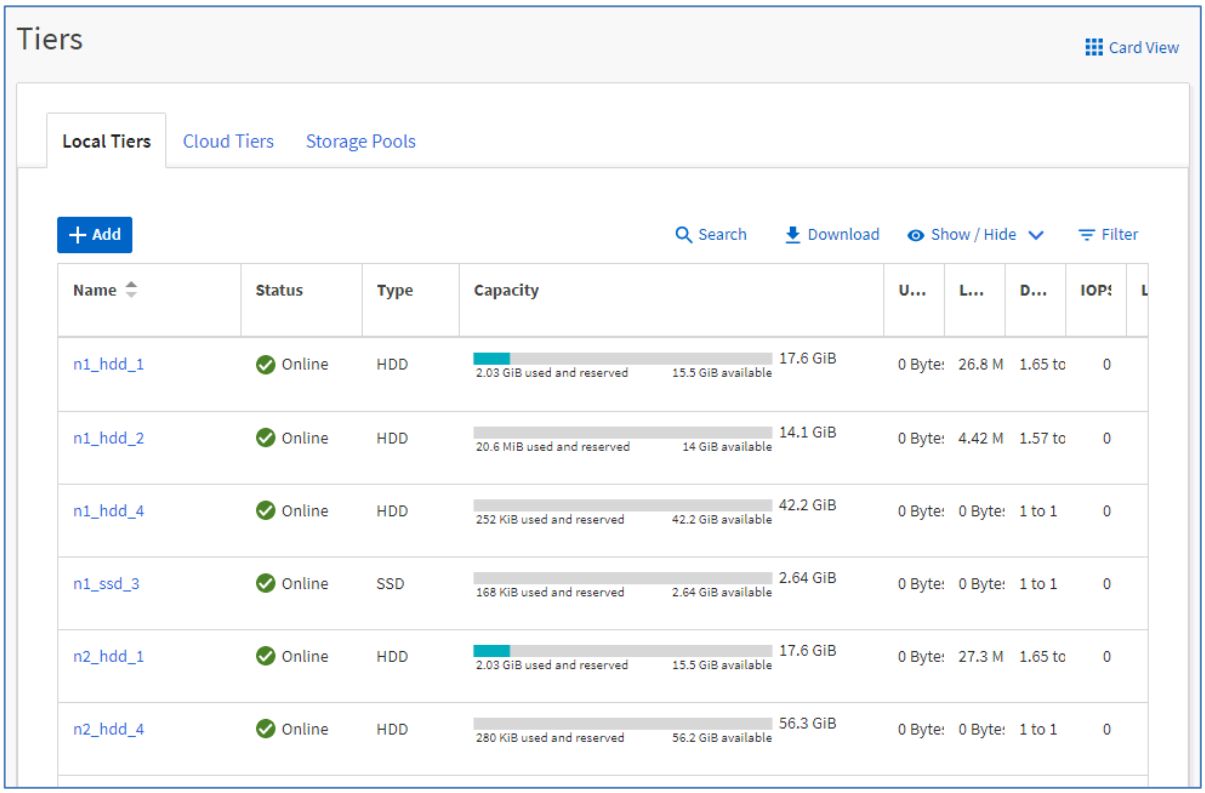
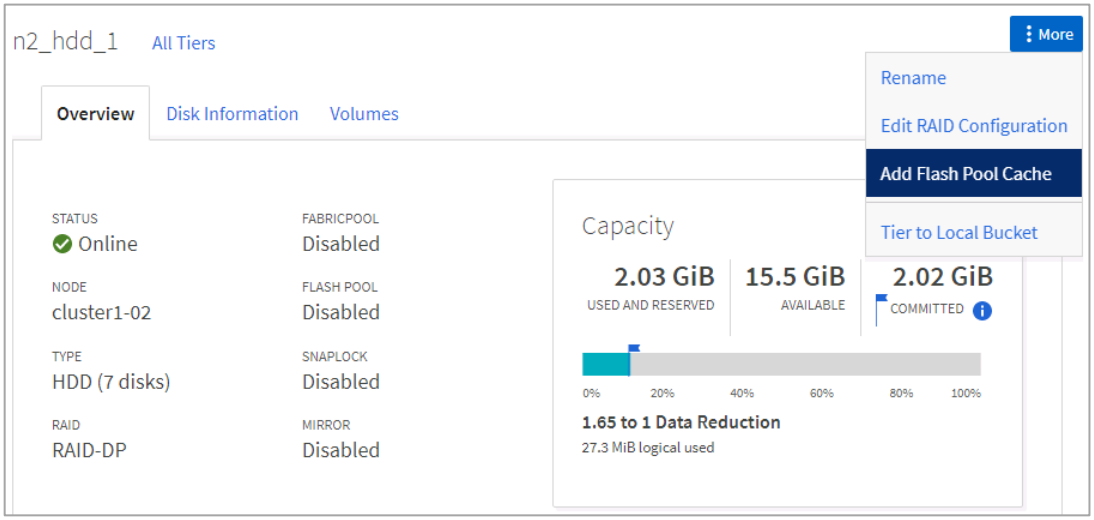
Lab Equipment

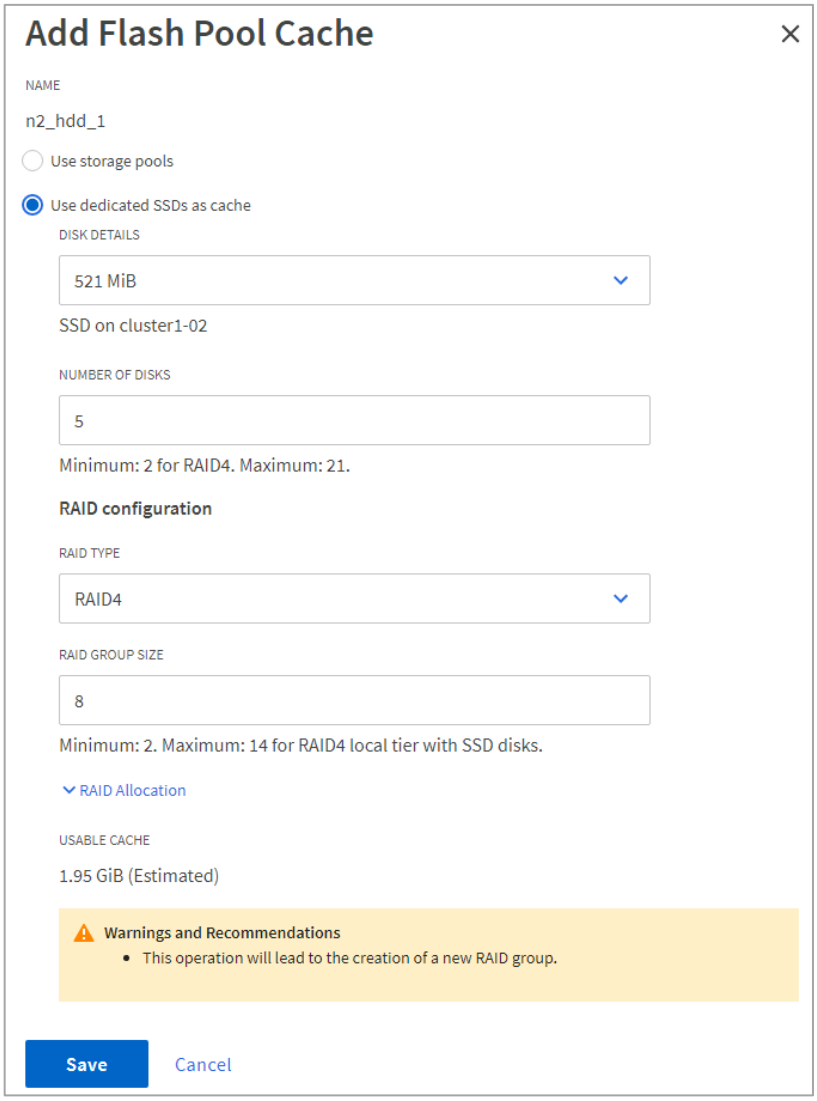
Use the following equipment to complete the exercise:

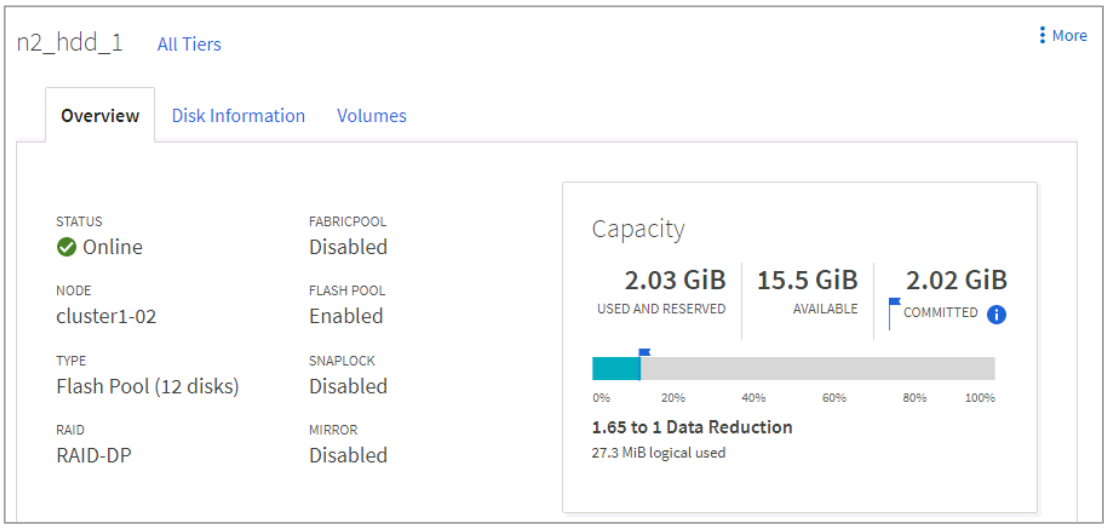
System	Host Name	IP Addresses	User Name	Password
Windows Server	jumphost	192.168.0.5	DEMO\Administrator	Netapp1!
ONTAP cluster-management LIF (cluster1)	cluster1	192.168.0.101	admin (case-sensitive)	Netapp1!

Task 1: Convert an Aggregate to a Flash Pool Aggregate

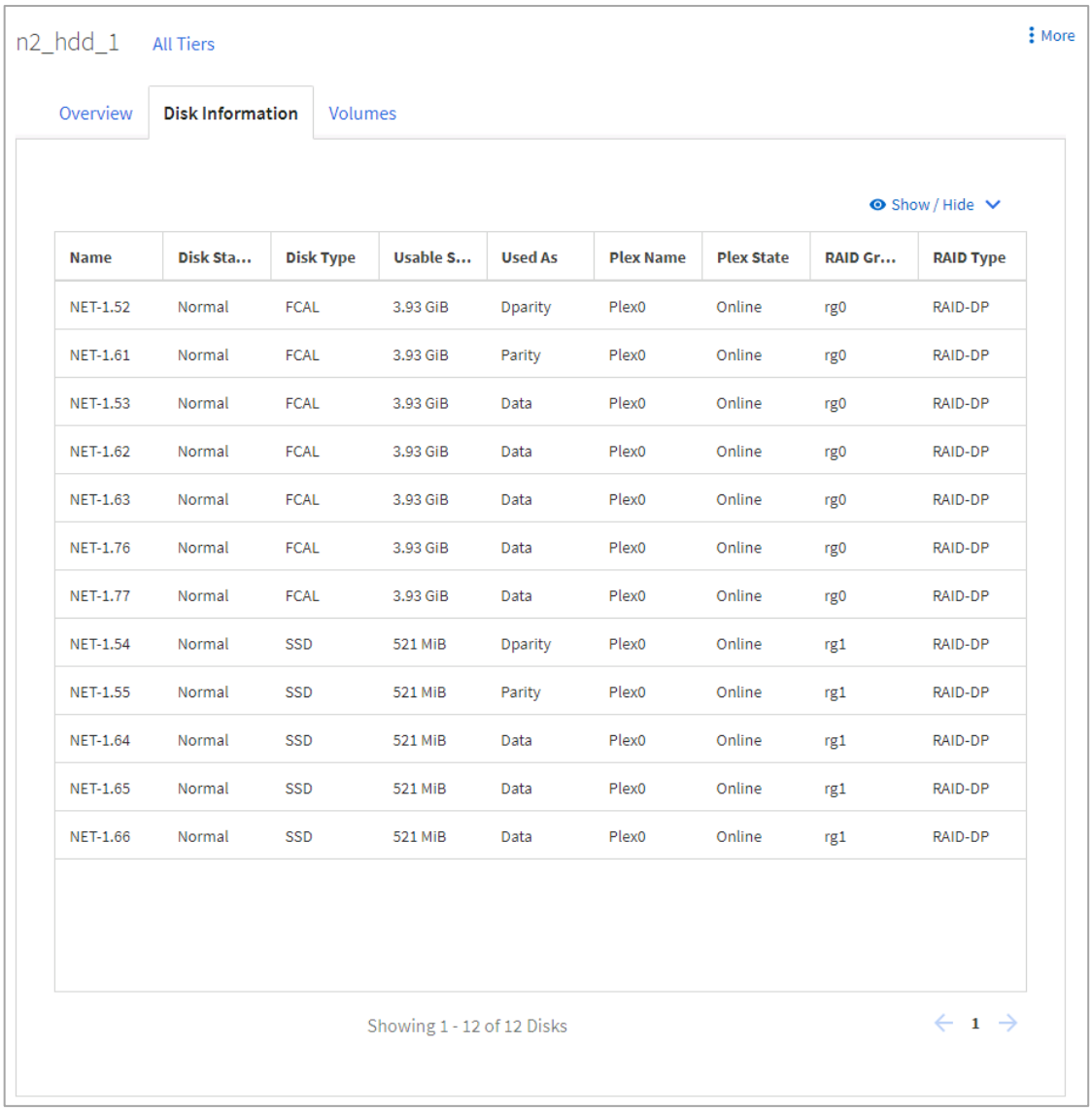
Step	Action
1-1	Open a connection to ONTAP System Manager for cluster1.
1-2	Navigate to **Storage > Tiers**.

Step	Action
1-3	From the Tiers page, select **n2_hdd_1**. 
1-4	From the **More** menu, select **Add Flash Pool Cache** to begin converting an HDD aggregate into a Flash Pool aggregate. 

Step	Action
1-5	Expand the Flash Pool aggregate with the following settings: • Use dedicated SSDs as cache: <selected> • Disk Details: **521MiB** • Number of Disks: **5** • RAID Type: **RAID4** • RAID Group Size: **8** 
1-6	The RAID policies for the SSD RAID group (or groups) are independent from the policies for the HDD RAID groups within a Flash Pool aggregate. For example, an SSD RAID group in a Flash Pool aggregate can be configured with RAID 4 and a group size of 8. The HDD RAID groups in the same Flash Pool aggregate can use RAID DP with a group size of 16.
1-7	Click **Save**.

Step	Action
1-8	Verify that the aggregate has Flash Pool enabled. 

Step	Action
1-9	Click the **Disk Information** tab, and verify that the aggregate contains a mix of HDD and SSD drives.



End of exercise