#### **Exercise 6: Managing NAS Storage VMs**

In this exercise, you use best practice tools to manage storage VMs (storage virtual machines, also known as SVMs) that have NAS protocols enabled.

## **Objectives**

This exercise focuses on enabling you to do the following:

- Migrate and rehome a NAS data LIF
- Manage volume tiering policies

#### **Case Study**

The NetApp cluster node needs to be brought down so that a new expansion controller board can be installed. To avoid disturbing the NAS clients that are actively using the system, you can move the logical network interface through which the clients access the system to a different node in the cluster. Temporarily migrate the LIF to another network port, or rehome the LIF if the move is permanent.

Modify the Fabric Pool volume tiering policy so that user data is moved from the performance tier to the cloud tier without waiting for the user data to cool first.

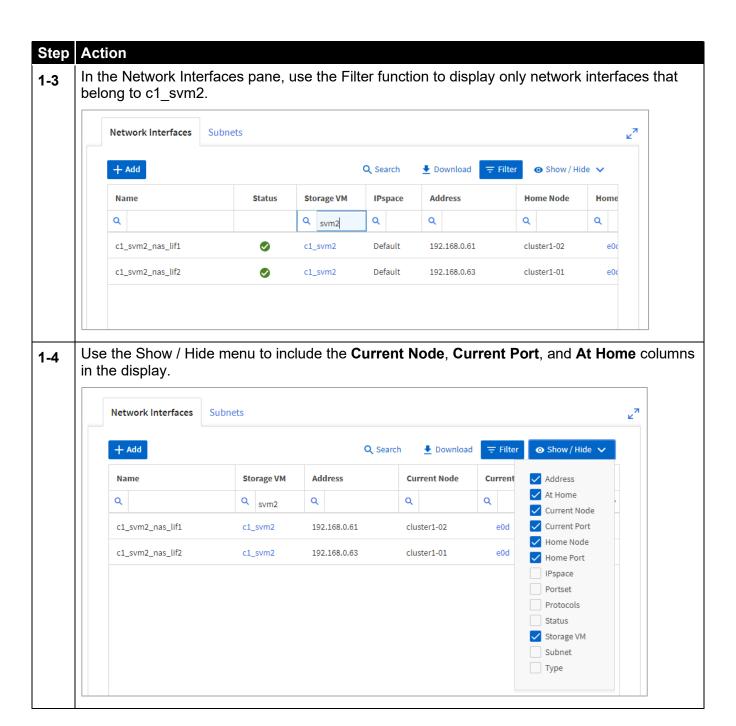
### Lab Equipment

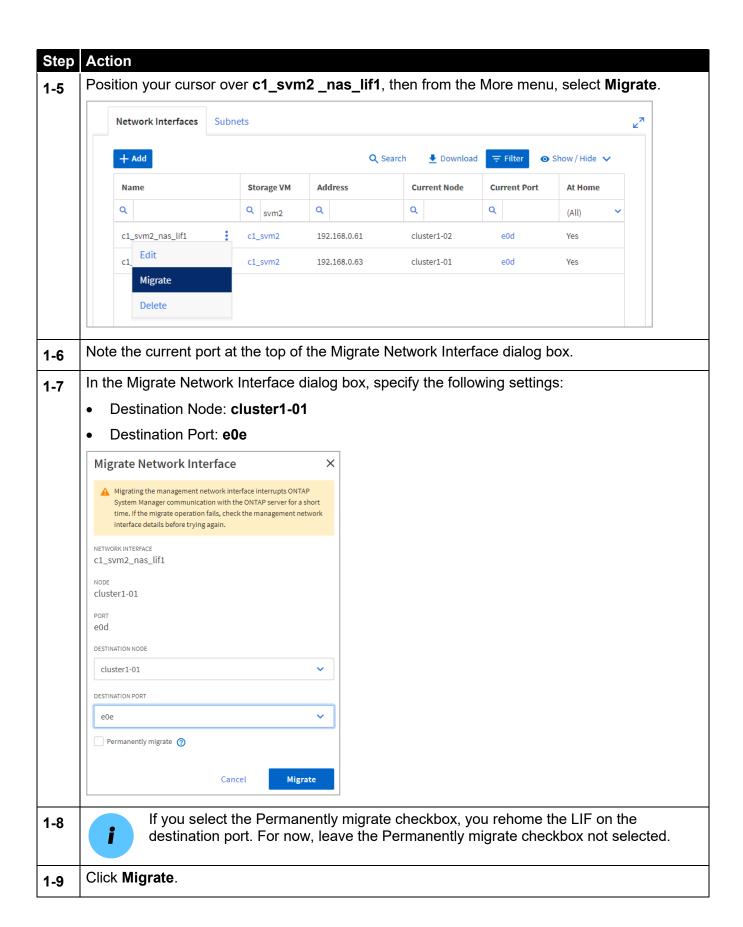
Use the following equipment to complete the exercise:

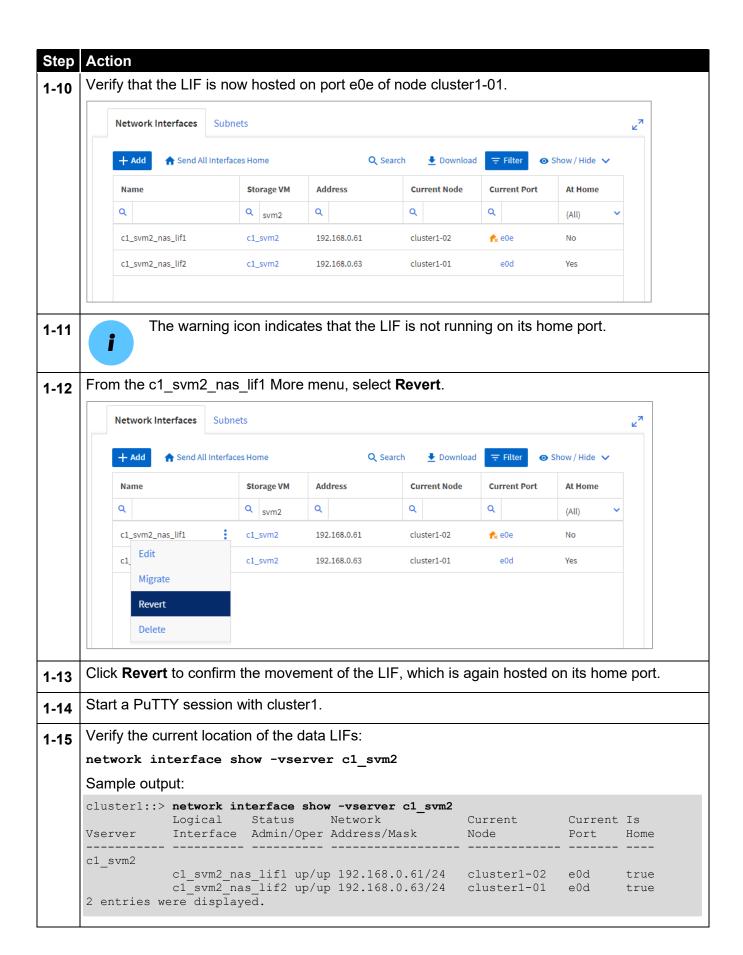
System	Host Name	IP Addresses	User Name	Password
Windows Server	jumphost	192.168.0.5	DEMO\Administrator	Netapp1!
ONTAP cluster-management LIF (cluster1)	cluster1	192.168.0.101	admin (case sensitive)	Netapp1!
ONTAP cluster-management LIF (cluster2)	cluster2	192.168.0.102	admin (case sensitive)	Netapp1!

# Task 1: Migrate and Rehome a NAS Data LIF

Step	Action
1-1	Log in to NetApp ONTAP System Manager for cluster1.
1-2	From the System Manager Dashboard menu, select <b>Network &gt; Overview</b> .



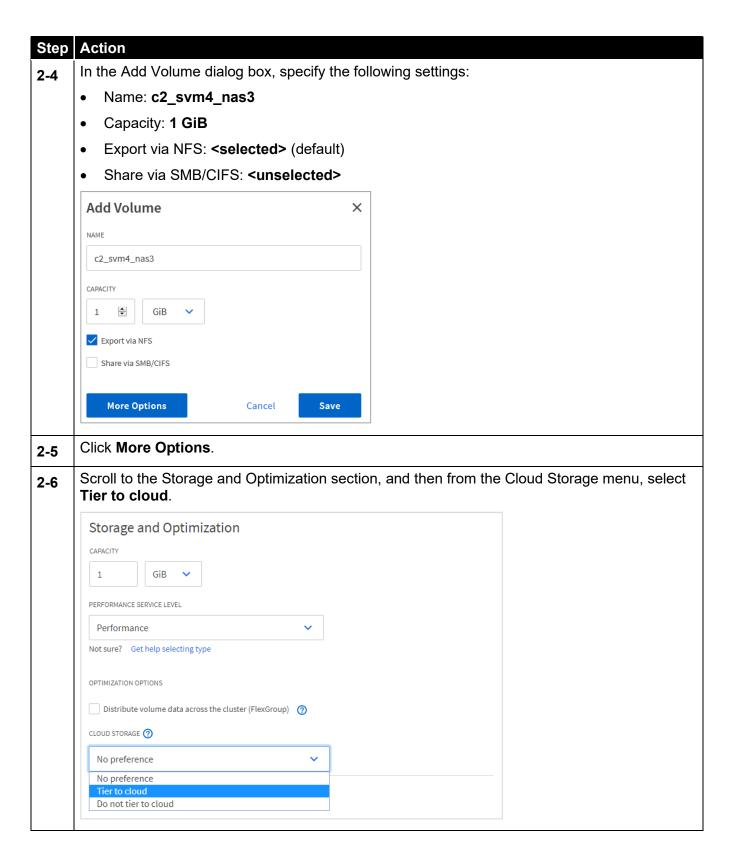


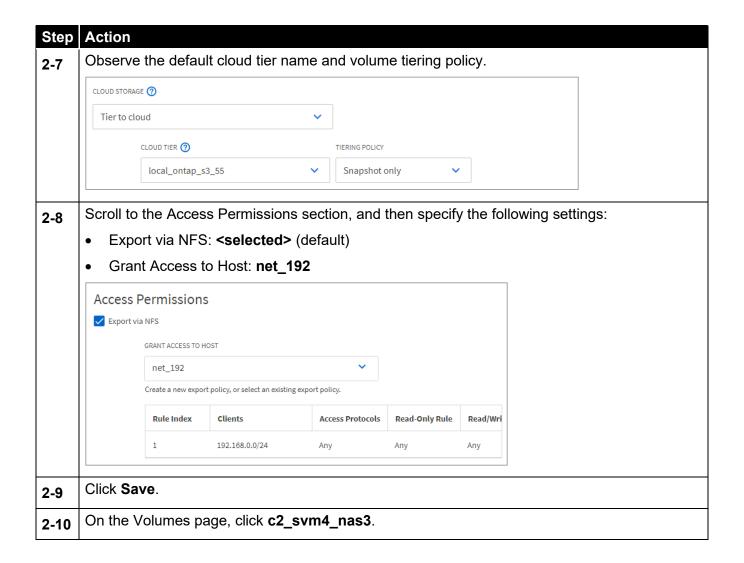


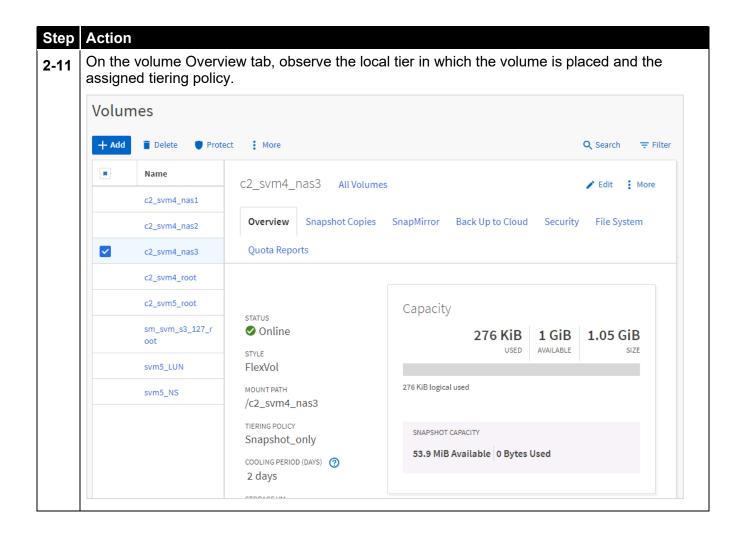
Step	Action						
1-16	Reassign the home port of c1_svm2_nas_lif1 to port e0f, and leave the home node as cluster1-01:						
	<pre>network interface modify -vserver c1_svm2 -lif c1_svm2_nas_lif1 -home-port e0f</pre>						
1-17	Review the home port again:						
	network interface show -vserver c1_svm2						
	Sample output:						
	cluster1::> net int show -vserver c1_svm2		Current Port				
	c1_svm2			false true			
1-18	Answer the following questions:						
	Did the LIF move?						
	What is the status of the LIF home?						
1-19	Issue a revert command, which sends the LIF to its new home port:						
	network interface revert *						
1-20	The asterisk (*) wildcard is a positional parameter that represents the LIF name. The revert command reverts all LIFs that are not on their home ports.						
1-21	Review the status of the LIFs again:						
	network interface show -vserver c1_svm2						
	Sample output:						
	cluster1::> net int show -vserver c1_svm2 Logical Status Network Vserver Interface Admin/Oper Address/Mask	Current Node	Current Port	Is Home			
	c1_svm2	cluster1-02 cluster1-01	e0f e0d	true true			

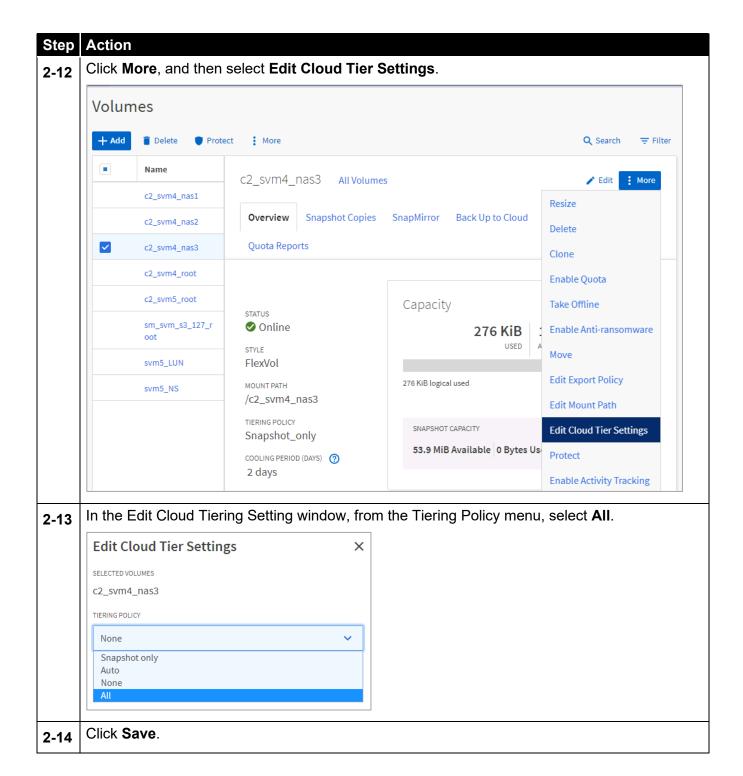
# **Task 2: Manage Volume Tiering Policies**

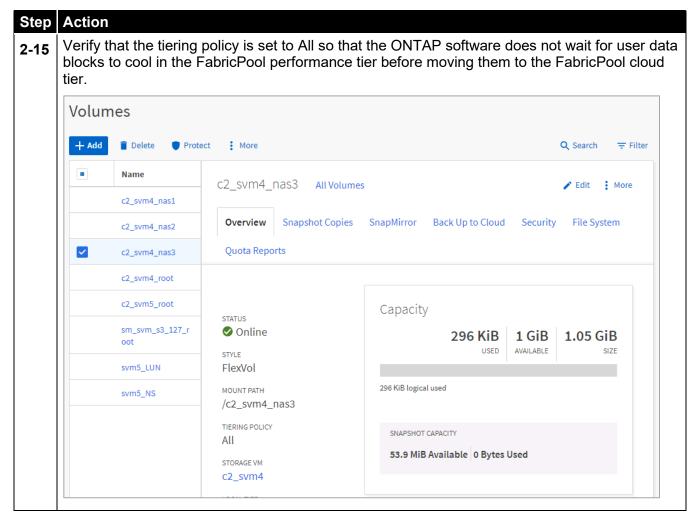
Step	Action	
2-1	Log in to System Manager for cluster2.	
2-2	From the System Manager Dashboard menu, select <b>Storage &gt; Volumes</b> .	
2-3	Click Add.	











**End of exercise**