Exercise 2: Managing FlexClone Volumes

In this exercise, you explore and manage FlexClone volumes.

Objectives

This exercise focuses on enabling you to create and split a FlexClone volume.

Case Study

The rocket motor division of Zarrot Industries is bringing a new customer relations application online. Before going live, the new application needs to be tested. You make a clone of the customer relations data so that the new application can be realistically tested without risking actual data.

Lab Equipment

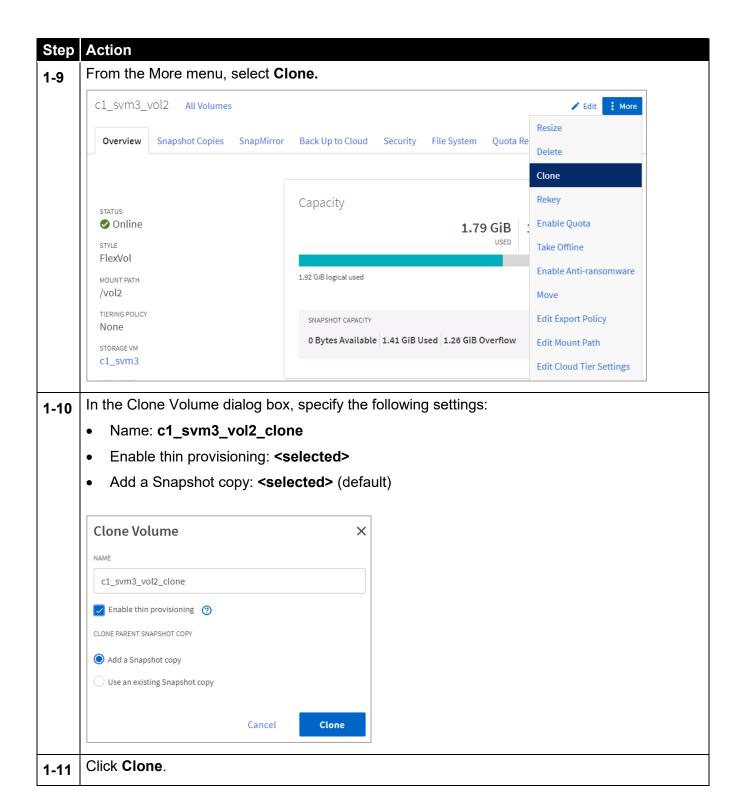
Use the following equipment to complete the exercise:

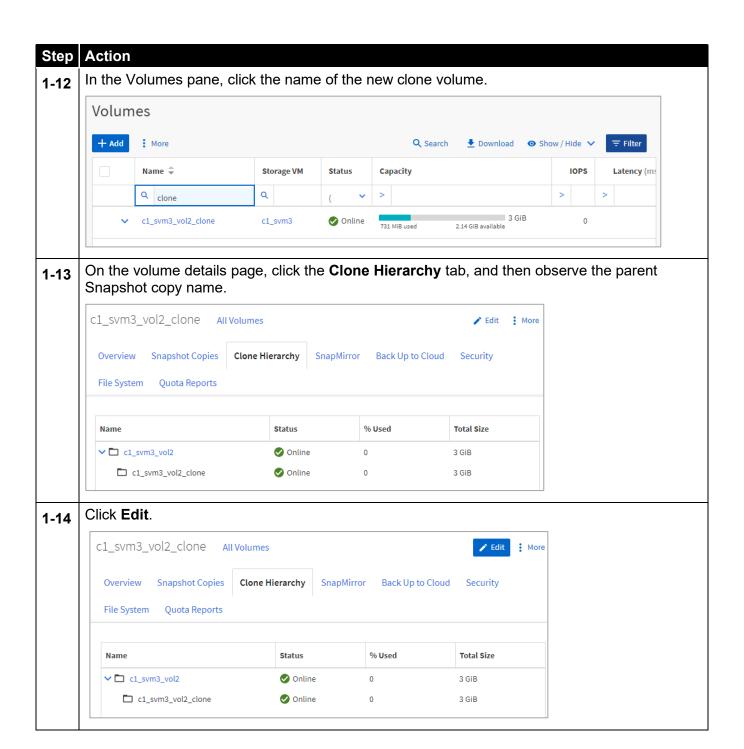
System	Host Name	IP Addresses	User Name	Password
Windows Server	jumphost	192.168.0.5	DEMO\Administrator	Netapp1!
ONTAP cluster-management LIF (cluster1)	cluster1	192.168.0.101	admin (case sensitive)	Netapp1!

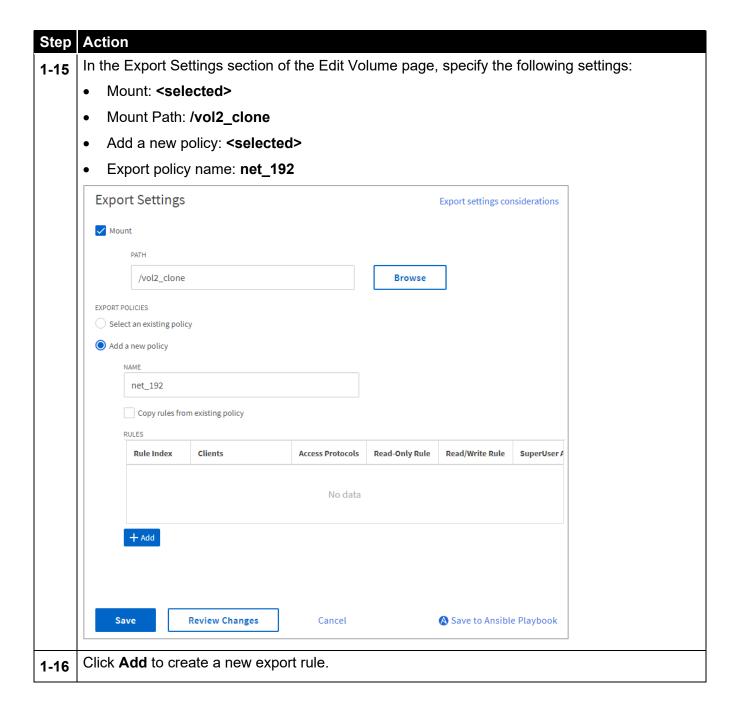
Task 1: Create and Split a FlexClone Volume

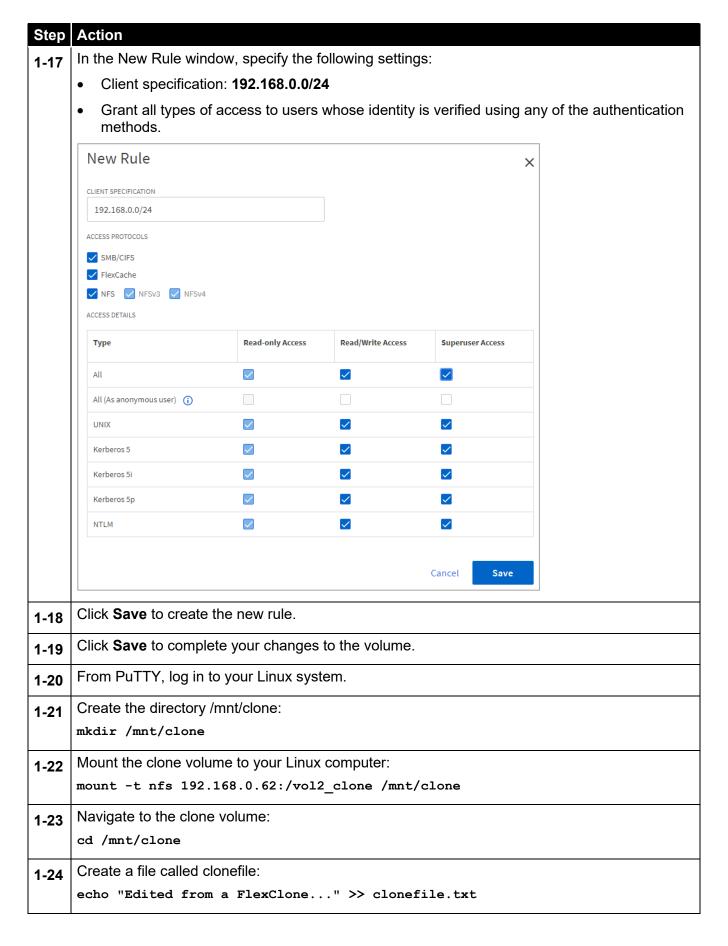
Step	Action
1-1	Log in to NetApp ONTAP System Manager for cluster1.
1-2	From the System Manager menu, select Storage > Volumes .
1-3	In the Volumes pane, click c1_svm3_vol2.
1-4	On the c1_svm3_vol2 details page, click the Overview tab, and then click the local storage tier name n1_hdd_2 .

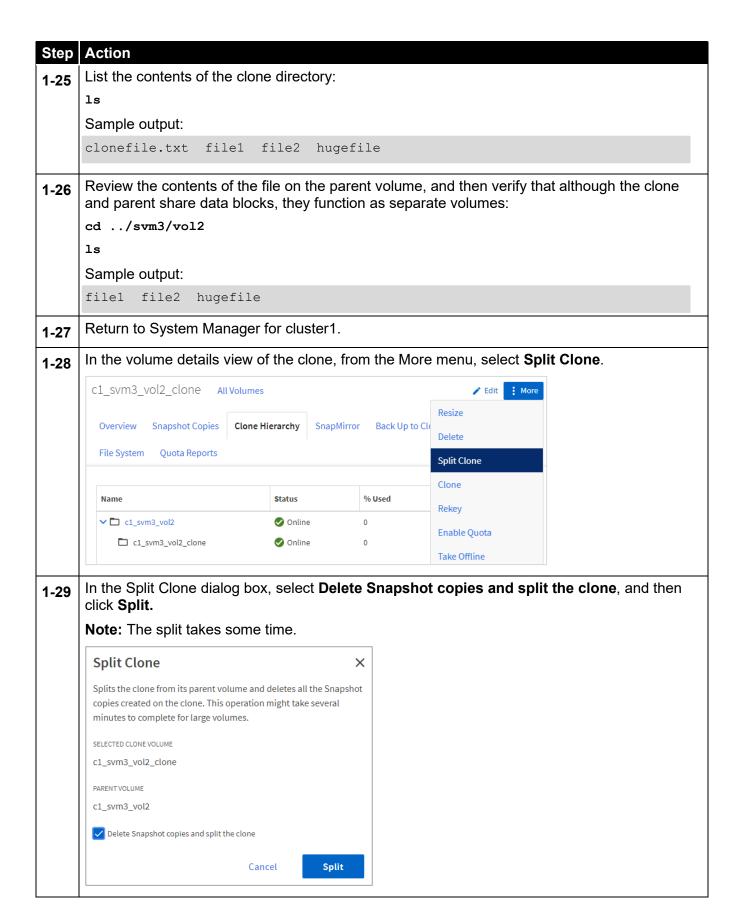


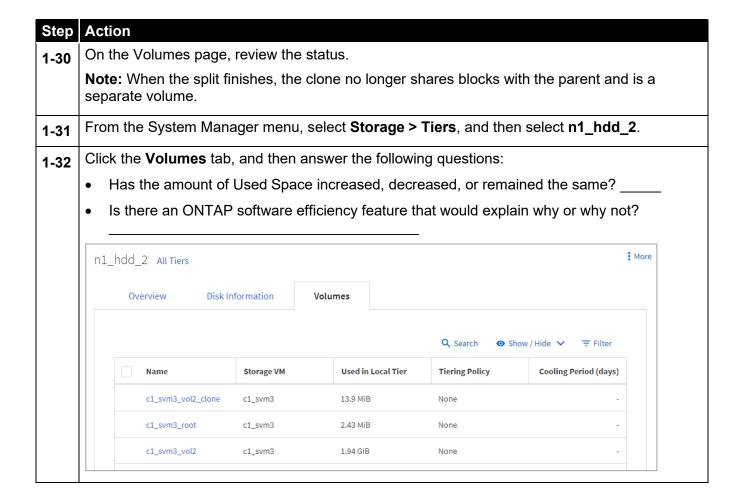












Task 2: Enable Logical Space Reporting and Enforcement

Step	Action					
2-1	Open a PuTTY session to cluster1.					
2-2	View the available and used physical space and available and used logical space in vol2 and its clones in c1_svm3:					
	<pre>volume show -vserver c1_svm3 -volume c1_svm3_vol2* -fields available,physical-used,logical-used,logical-available</pre>					
	Sample output:					
	vserver volume available physical-used logical-used logical-available					
	c1_svm3 c1_svm3_vol2 1.06GB					
2.2	Enable logical space reporting for vol2 and its clones:					
2-3	volume modify -vserver c1_svm3 -volume c1_svm3_vol2* -is-space-reporting-logical true					

Step	Action					
2-4	Enable logical space enforcement on vol2 and its clones:					
	volume modify -vserver c1_svm3 -volume c1_svm3_vol2* -is-space-enforcement-logical true					
2-5	Type ${f y}$ to confirm the exception for any volumes that are not thin-provisioned.					
2-6	View the differences in available and used physical space and available and used logical space in the NFS volumes in c1_svm3:					
	<pre>volume show -vserver c1_svm3 -volume c1_svm3_vol2* -fields available,physical-used,logical-used,logical-available</pre>					
	Sample output:					
	vserver volume available physical-used logical-used logical-available					
	c1_svm3 c1_svm3_vol2 1.06GB					

End of exercise