# **Module 8: Data Protection**

# **Exercise 1: Managing Snapshot Copies**

In this exercise, you create and schedule a NetApp ONTAP Snapshot copy and then restore data from that copy.

# **Objectives**

This exercise focuses on enabling you to do the following:

- Create and schedule a Snapshot copy
- Restore data from a Snapshot copy

# **Case Study**

The employees acquired from Dwurgle are untried, and Mr. Zarrot is unsure of their abilities. To reduce the amount of data that might be lost due to user mistakes, Mr. Zarrot decrees that frequent Snapshot copies of all valuable data must be made.

An employee accidently corrupted the spreadsheet with the latest rocket-part delivery forecasts. You recover the spreadsheet from the most recent Snapshot copy.

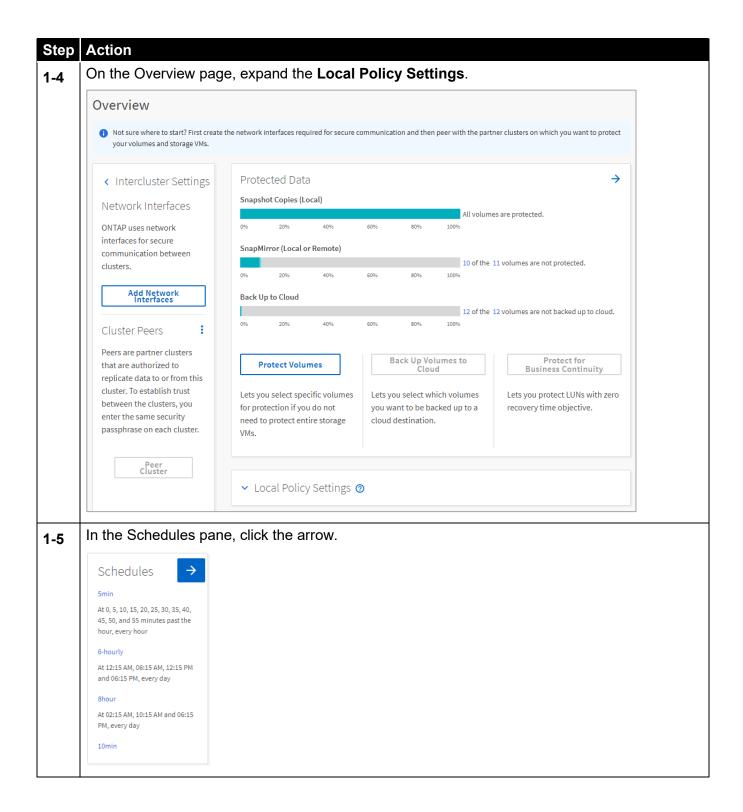
# **Lab Equipment**

Use the following equipment to complete the exercise:

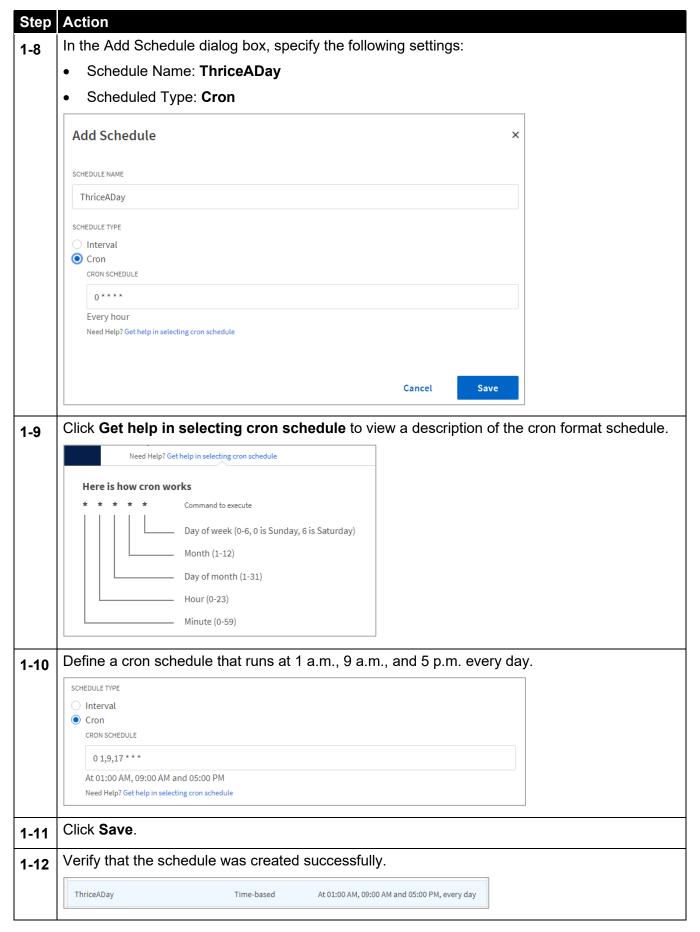
System	<b>Host Name</b>	IP Addresses	User Name	Password
Windows Server	jumphost	192.168.0.5	DEMO\Administrator	Netapp1!
ONTAP cluster-management LIF (cluster1)	cluster1	192.168.0.101	admin (case sensitive)	Netapp1!

#### Task 1: Create a Schedule

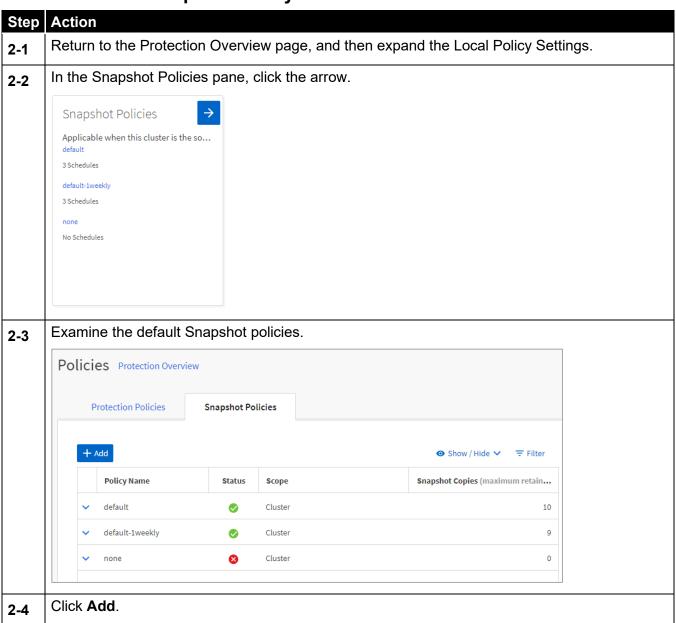
Step	Action	
1-1	Log in to NetApp ONTAP System Manager for cluster1.	
1-2	Be sure to log in to the correct cluster.	
1-3	From the System Manager menu, select <b>Protection &gt; Overview</b> .	

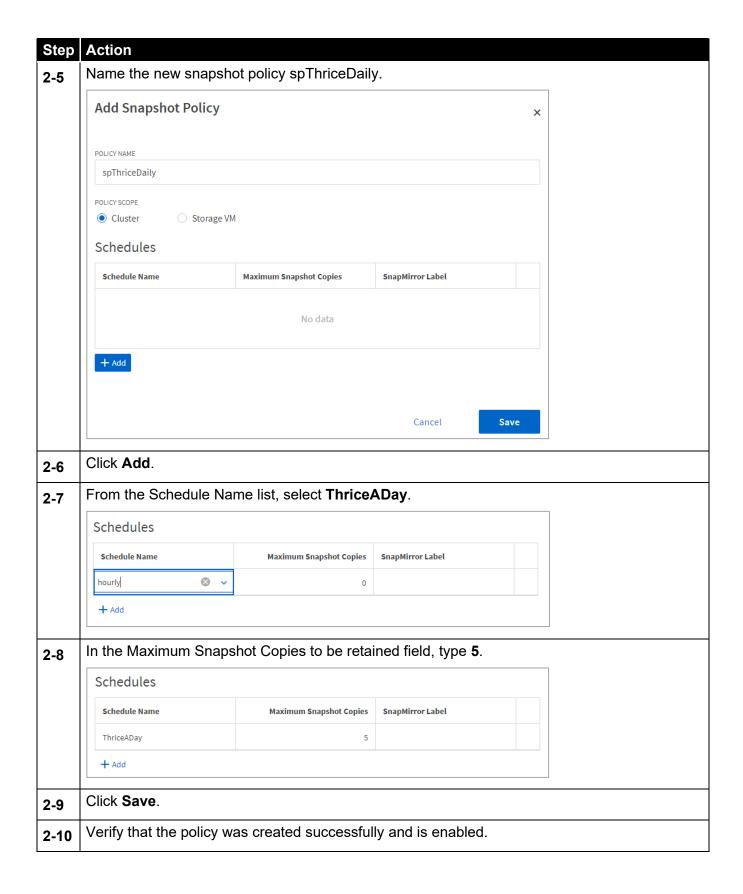


#### Step **Action** Examine the default schedules. 1-6 Schedules Protection Overview ■ Show / Hide ▼ + Add ∓ Filter Name 🕏 Type Schedule 5min Time-based At 0, 5, 10, 15, 20, 25, 30, 35, 40, 45, 50, and 55 ... 6-hourly Time-based At 12:15 AM, 06:15 AM, 12:15 PM and 06:15 PM, ... 8hour Time-based At 02:15 AM, 10:15 AM and 06:15 PM, every day 10min Time-based At 0, 10, 20, 30, 40, and 50 minutes past the hou... Time-based At 12:15 AM and 12:15 PM, every day 12-hourly Time-based At 0, 15, 30, and 45 minutes past the hour, every... 15min Application Templates ASUP Dump Interval-based Every 1 day Auto Balance Aggregate Scheduler Interval-based Every 1 hour Balanced Placement Model Cache Update Interval-based Every 7 minutes, 30 seconds daily Time-based At 12:10 AM, every day hourly Time-based At 5 minutes past the hour, every hour monthly Time-based At 12:20 AM, on day 1 of the month, every day o... RepositoryBalanceMonitorJobSchedule Interval-based Every 10 minutes Time-based weekly At 12:15 AM, only on Sunday, every month Click Add. 1-7

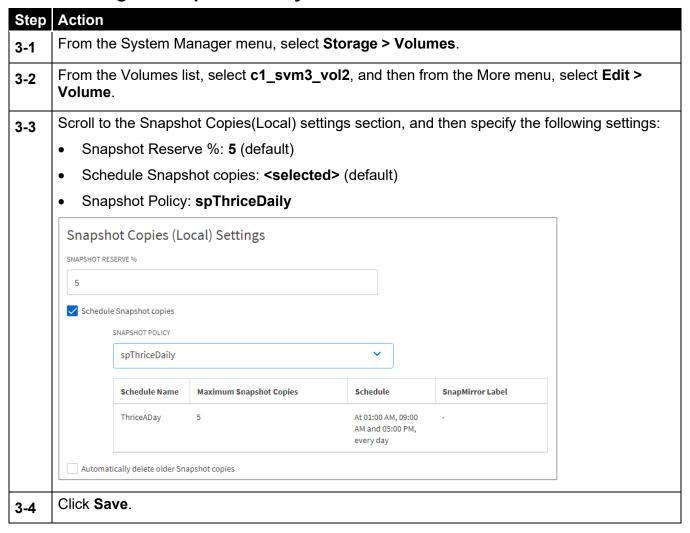


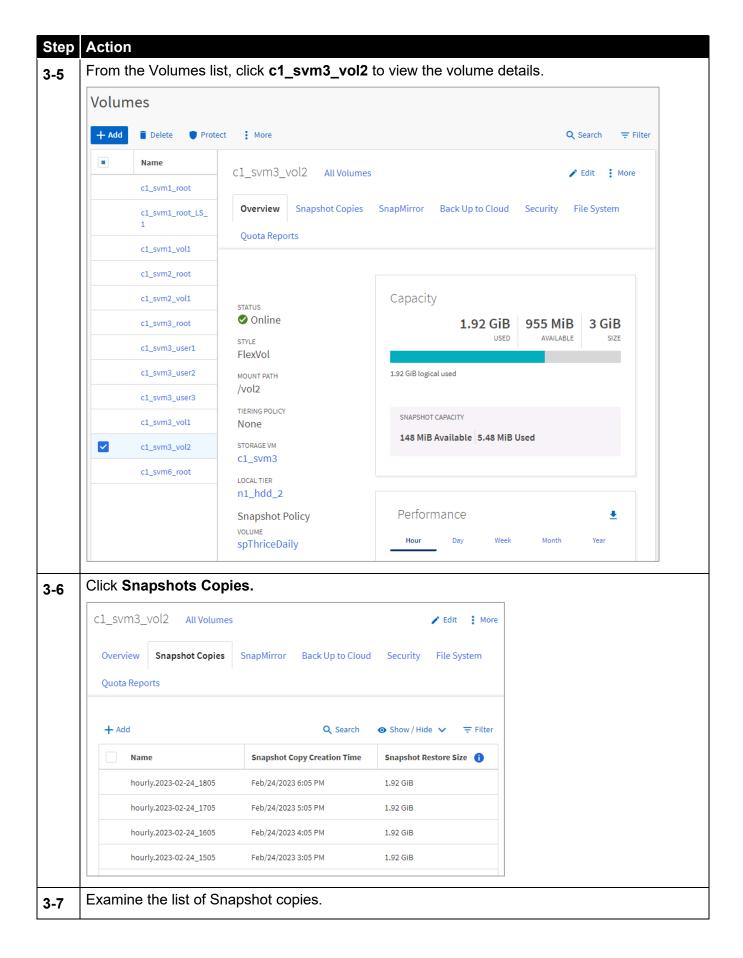
# Task 2: Create a Snapshot Policy



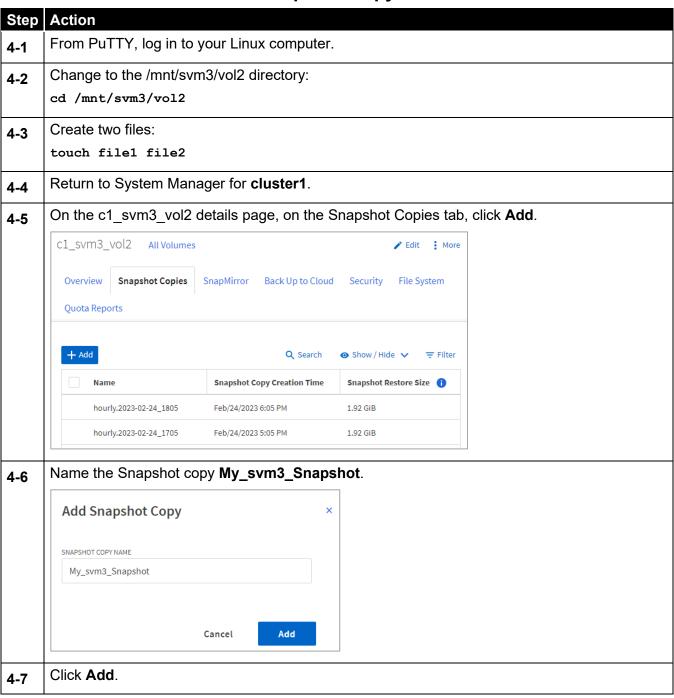


# Task 3: Assign a Snapshot Policy to a Volume





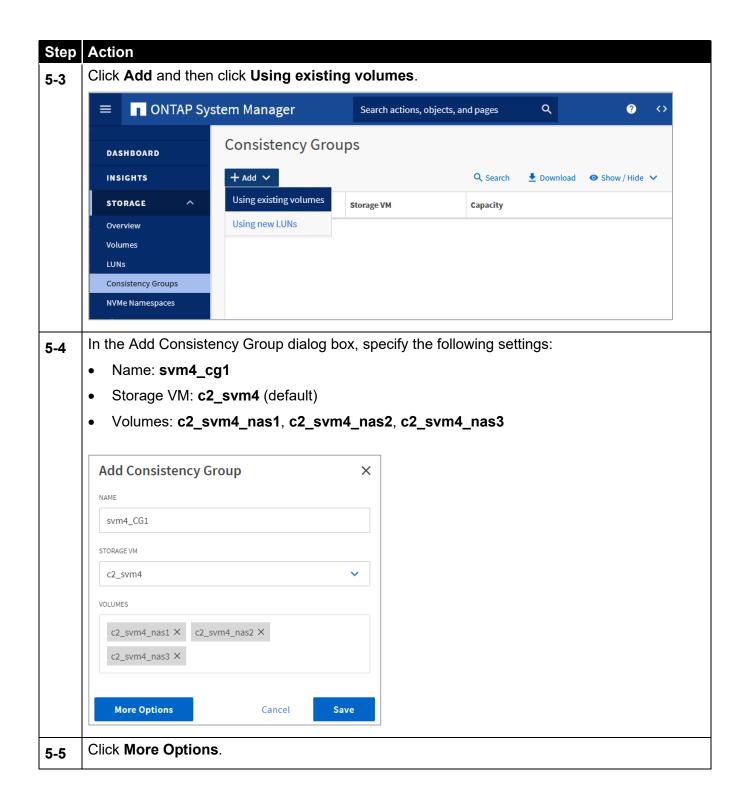
Task 4: Restore a File from a Snapshot Copy

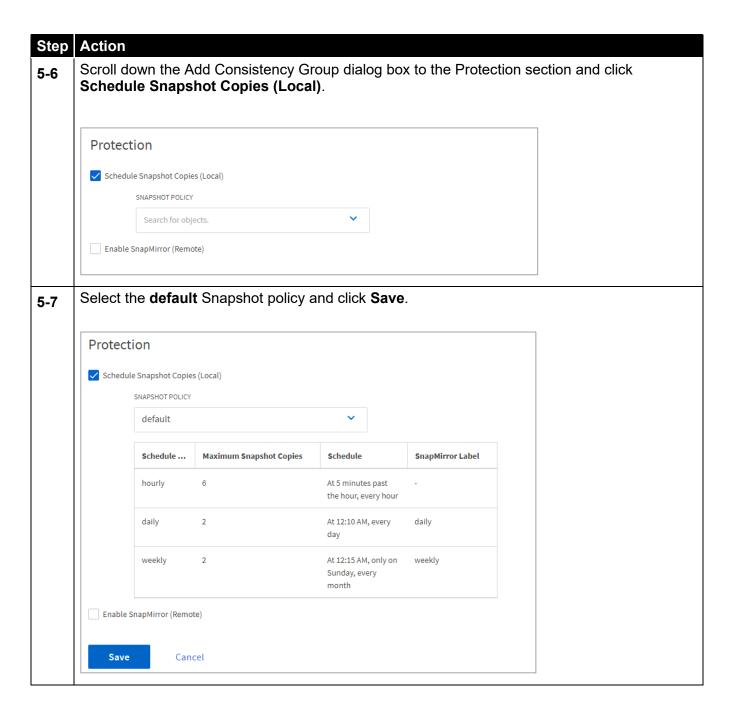


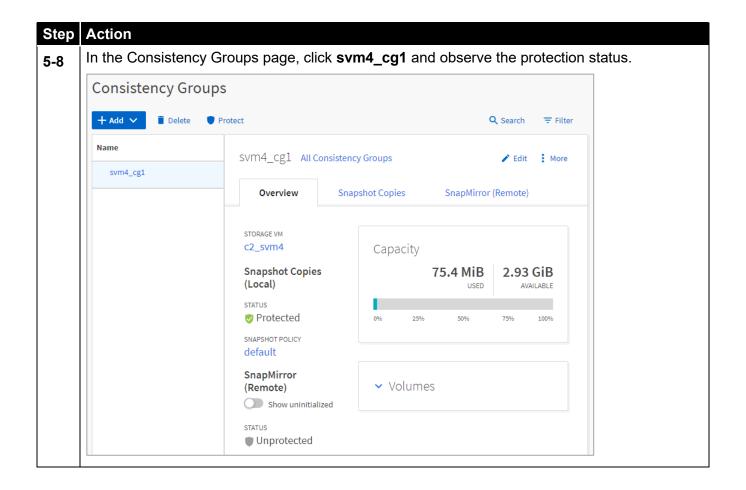


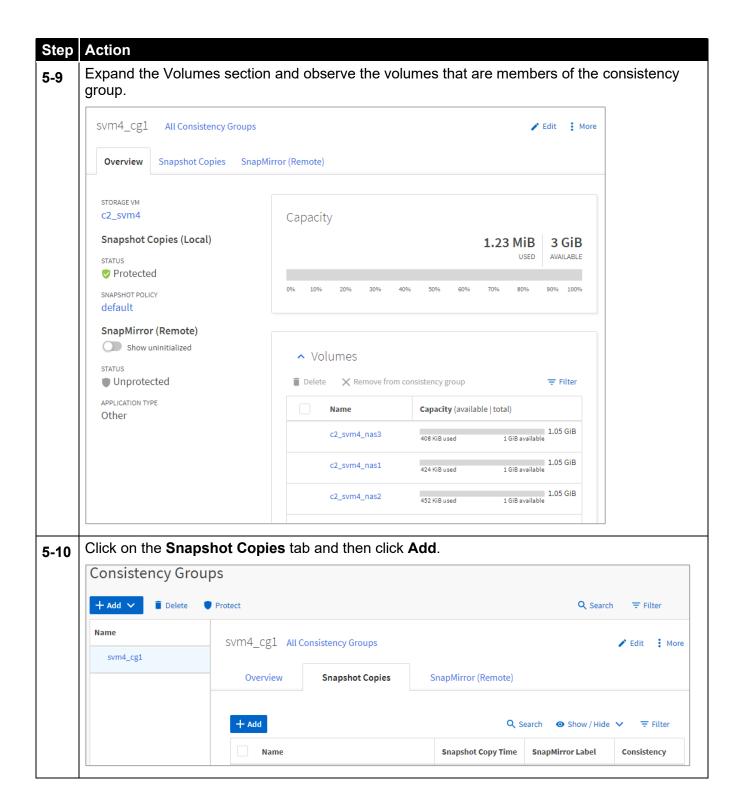
**Task 5: Creating Snapshot Consistency Groups** 

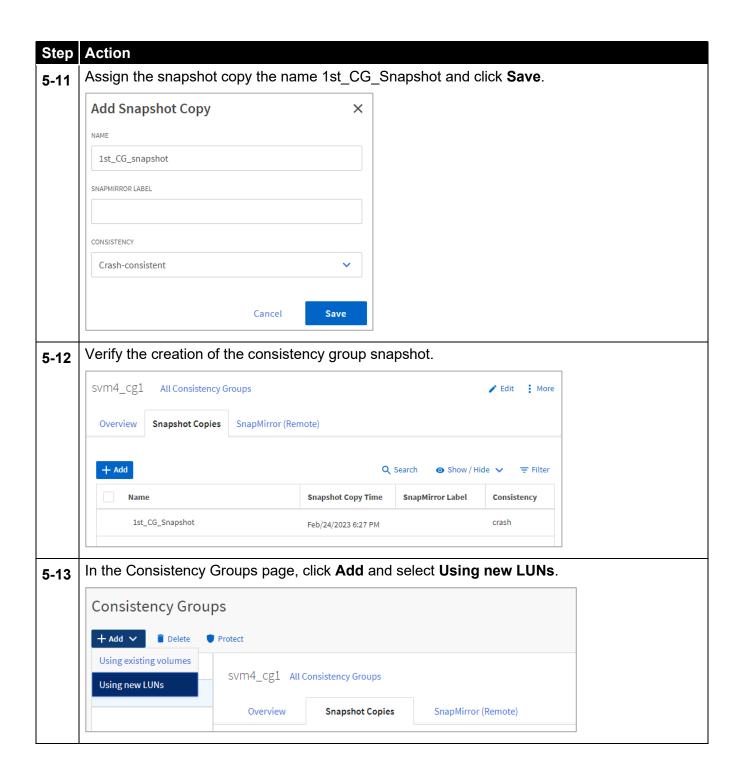
Step	Action
5-1	Log in to NetApp ONTAP System Manager for cluster2.
5-2	From the System Manager menu, select <b>Storage &gt; Consistency Groups</b> .

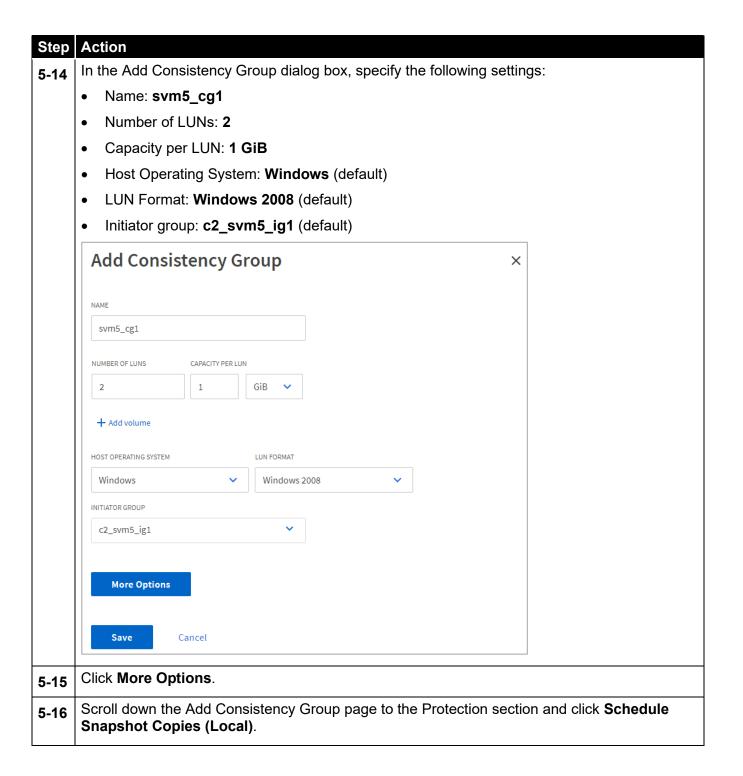


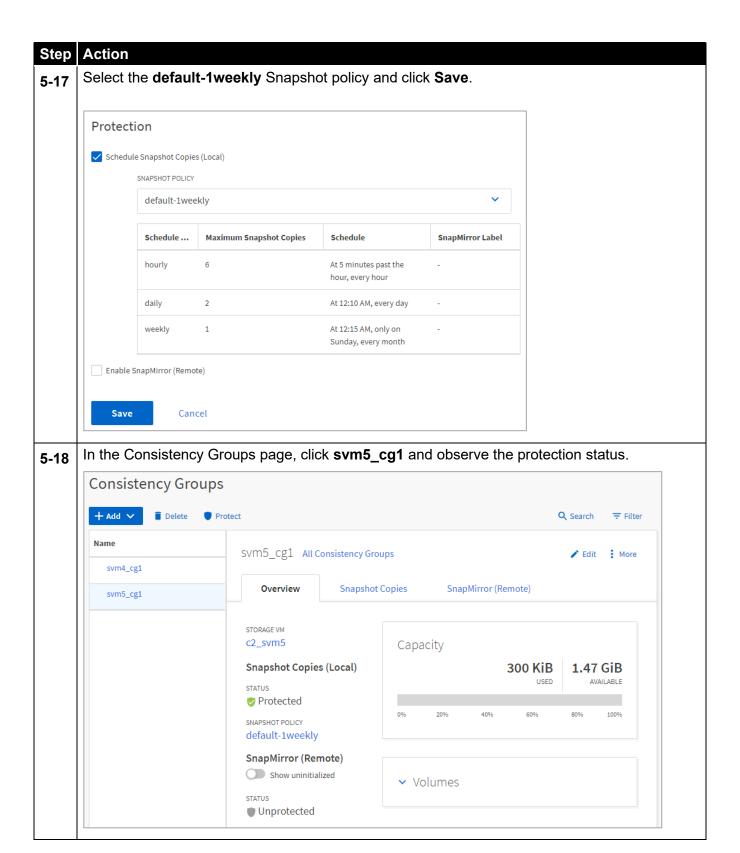


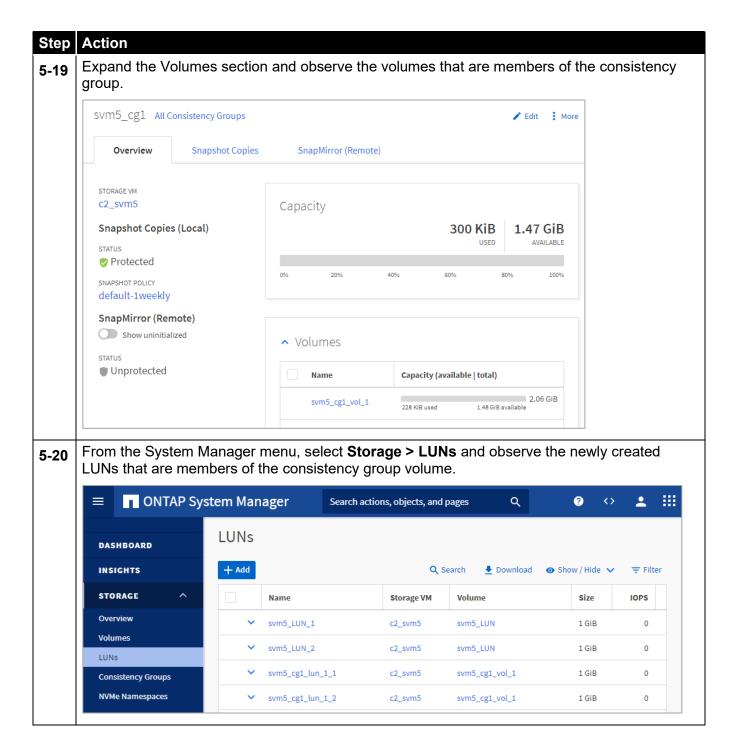












End of exercise