Module 5: Cloud Manager Management Functionality

Exercise 2: Manage Cloud Volumes ONTAP

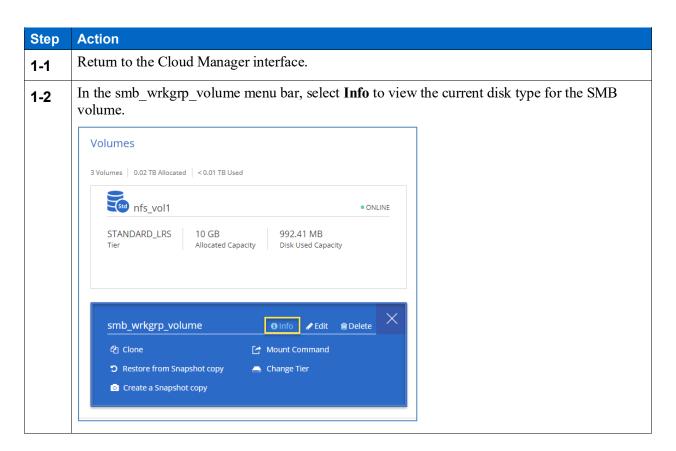
In this exercise, you use Cloud Manager to manage various aspects of a Cloud Volumes ONTAP system, including storage provisioning, modification, and movement. You also use other functions, such as configuring a Network Time Protocol (NTP) server, scheduling a shutdown schedule for Cloud Volumes ONTAP, and using Cloud Manager API commands to administrate Cloud Volumes ONTAP.

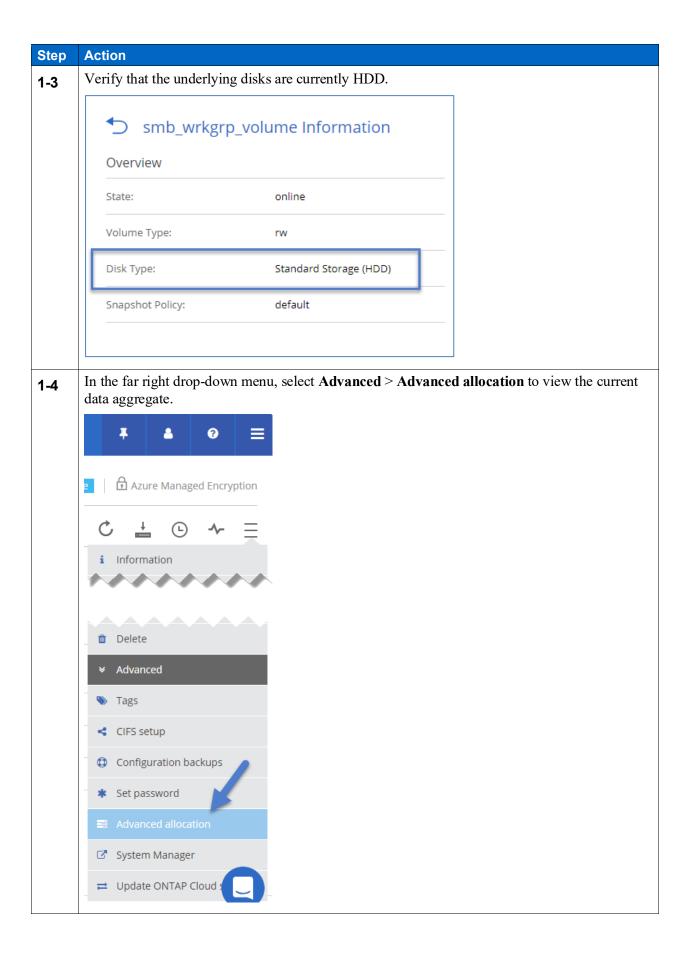
Objectives

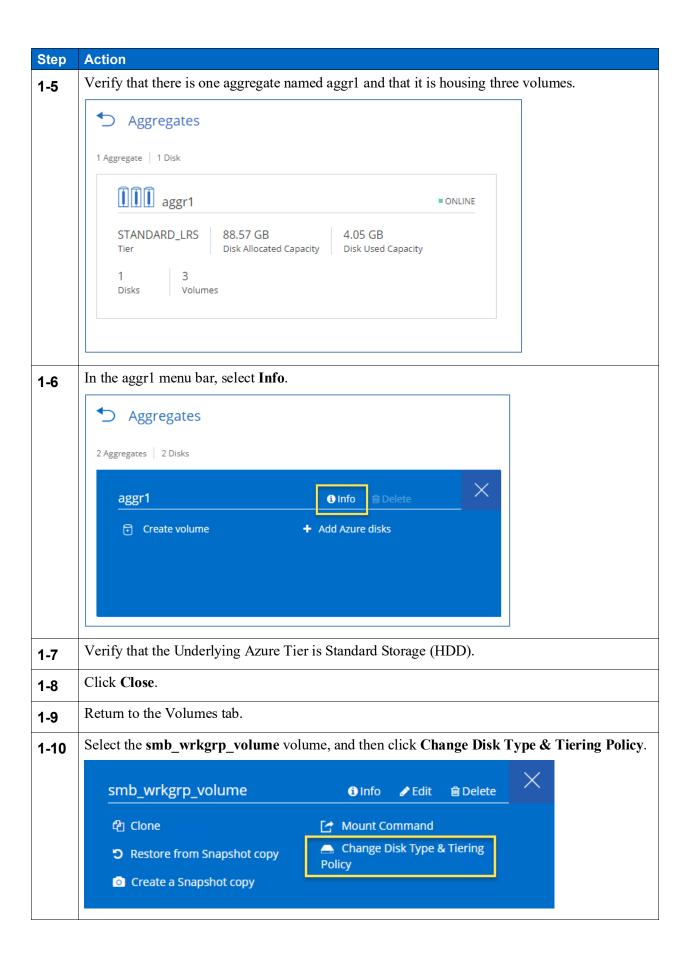
This exercise focuses on enabling you to do the following:

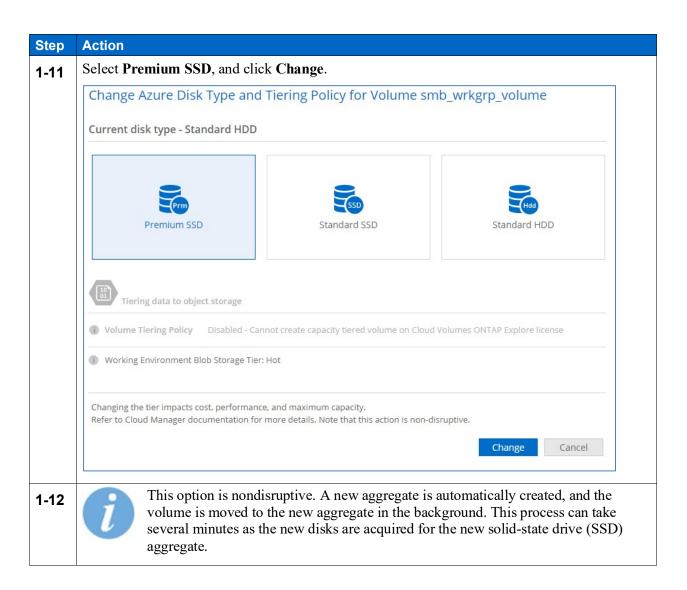
- Change the underlying disk type of a Cloud Volumes ONTAP volume
- Add disks to an aggregate
- Use System Manager to move volumes between aggregates
- Synchronize system time using NTP
- Schedule automatic shutdown of a Cloud Volumes ONTAP instance
- Use Cloud Manager API commands to administer Cloud Volumes ONTAP

Task 1: Manage Volumes and Aggregates









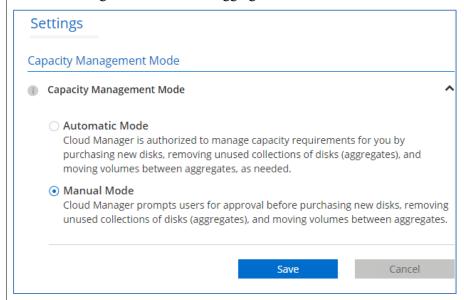


1-13



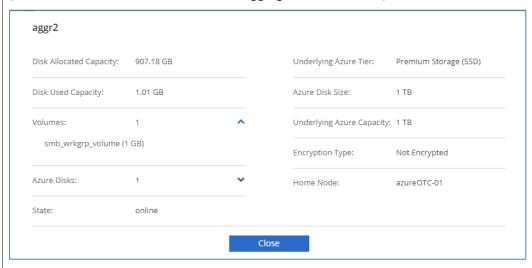
In the Cloud Manager settings, set the Capacity Management Mode to Manual Mode if you want to be prompted for approval before the following:

- Purchasing any new disks
- Removing unused collections of disks (aggregates)
- Moving volumes between aggregates

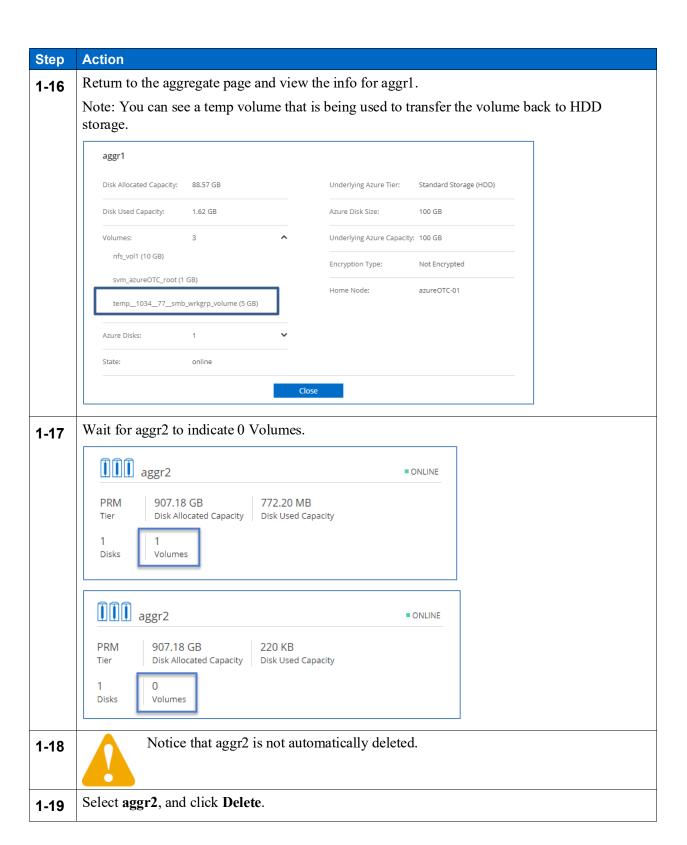


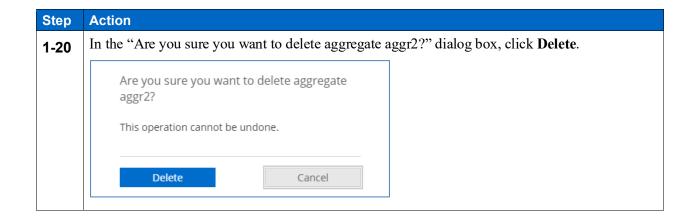
Return to the Advanced Allocation menu to see that a new aggr2 is created and that the smb wrkgrp volume has been moved to this aggregate.

(It can take several minutes for the new aggregate to be created.)

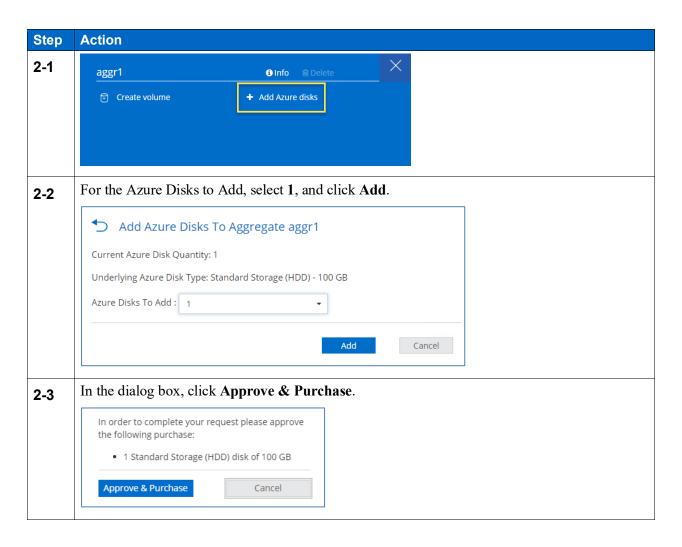


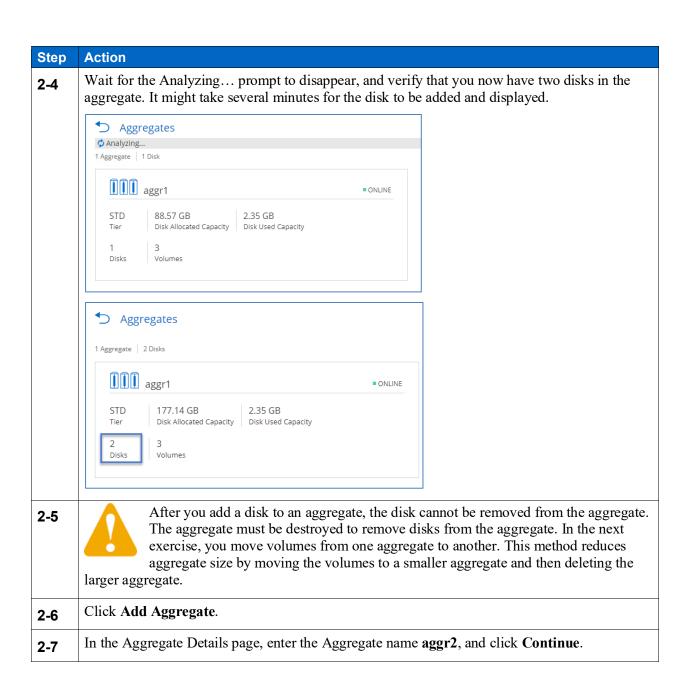
1-15 | Change the smb_wrkgrp_volume back to the Standard HDD Tier.

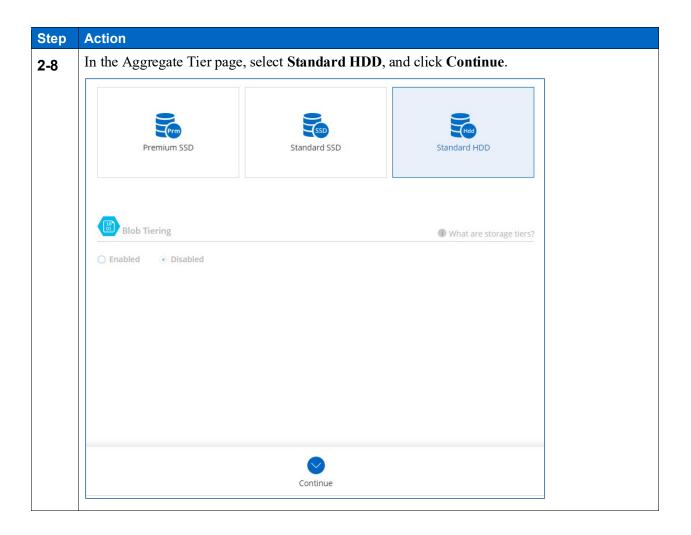


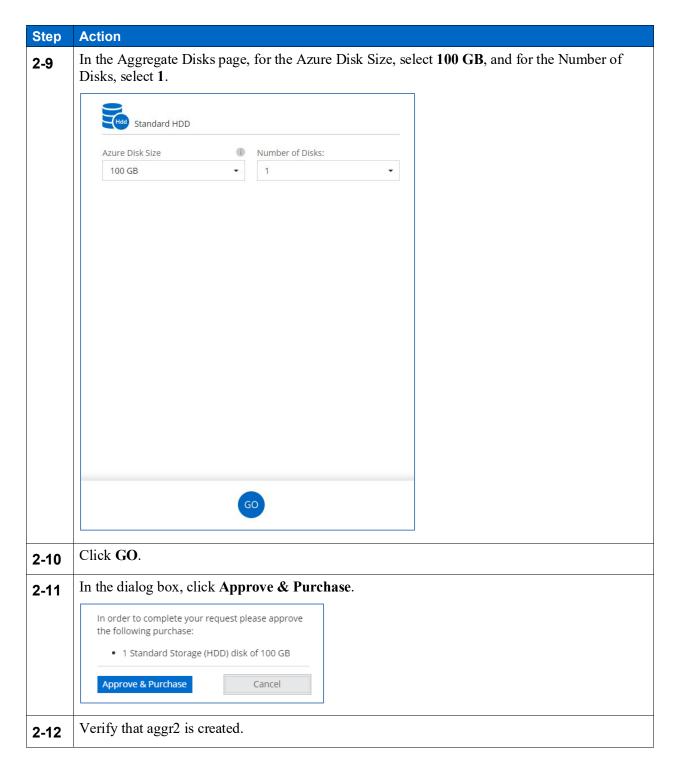


Task 2: Add Disks to an Aggregate





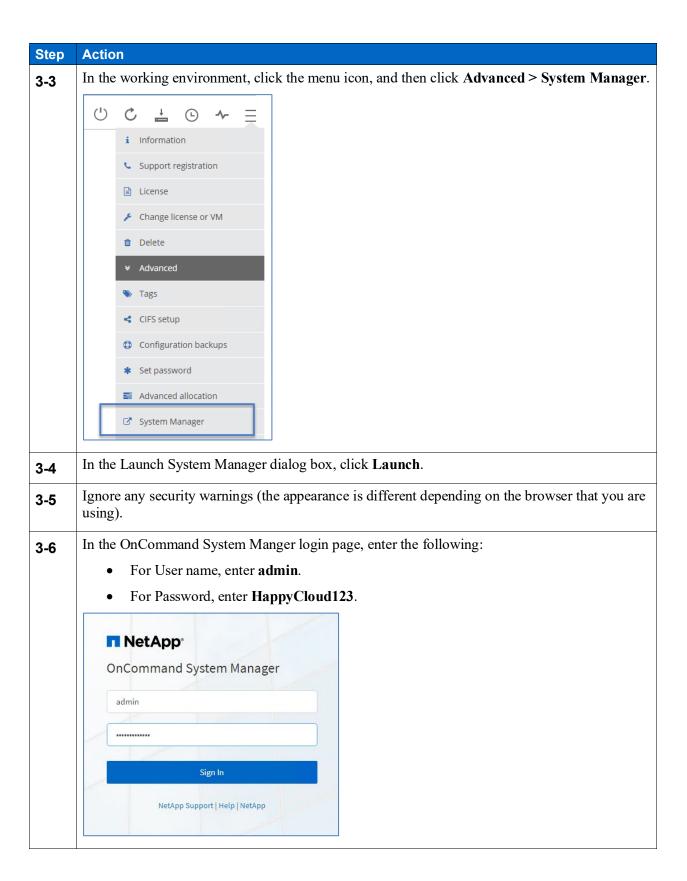


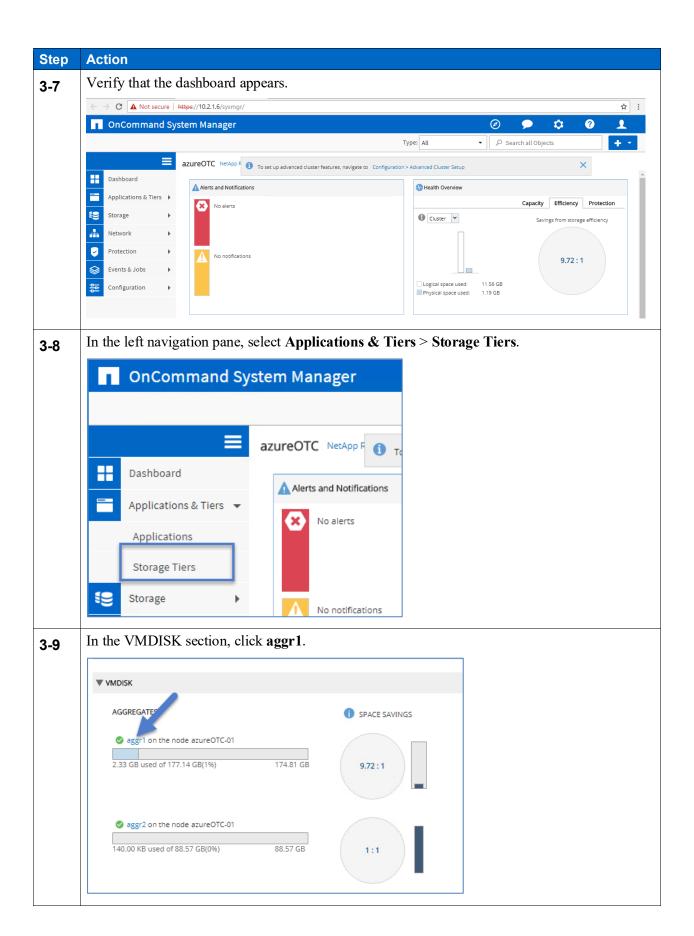


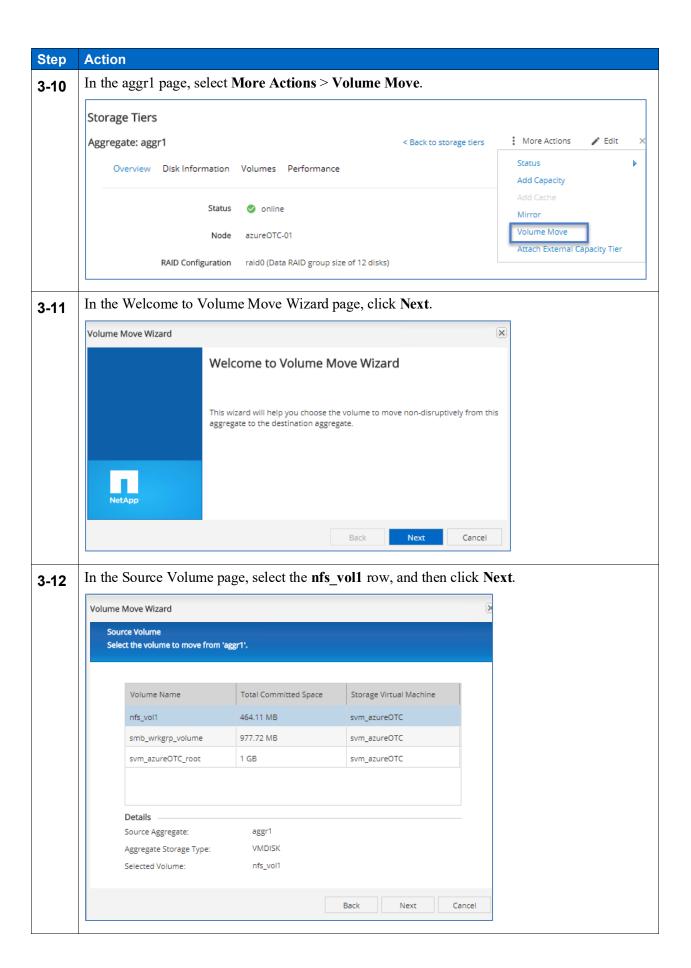
Task 3: Move Volumes Using System Manager

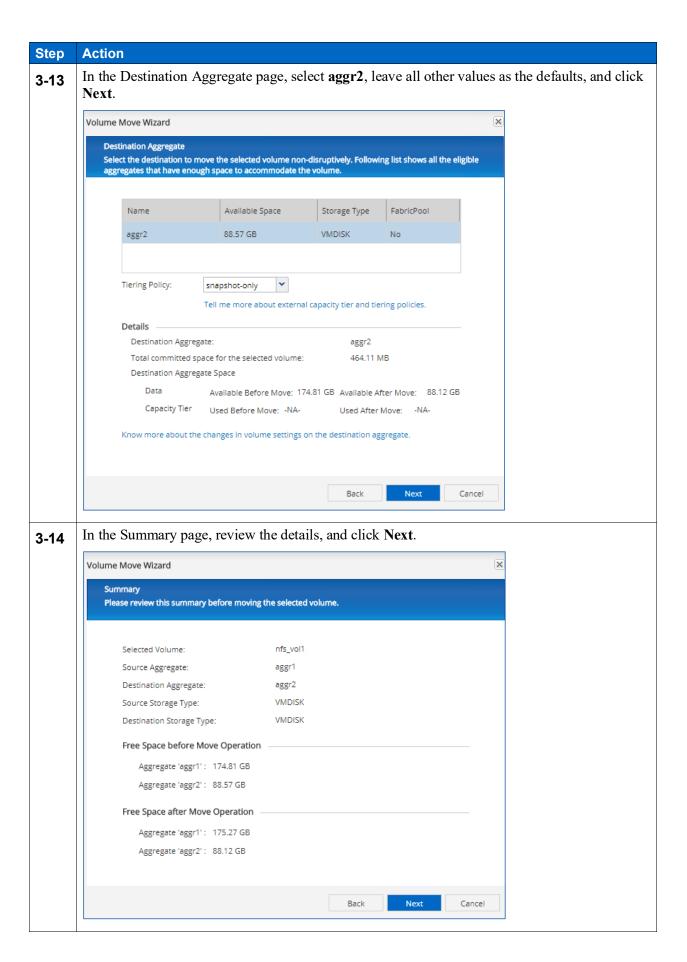
In this task, you move all your volumes from aggr1 to aggr2, and then you delete aggr1.

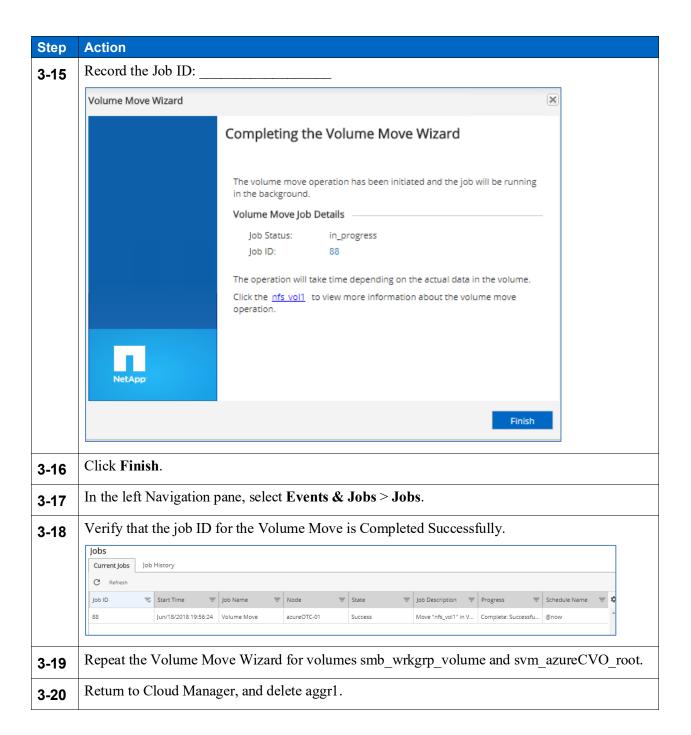
Step	Action
3-1	Return to your W2K16-jumphost Windows Server.
3-2	Connect to Cloud Manager from the web browser on the Windows Server. (Chrome or Firefox is recommended)



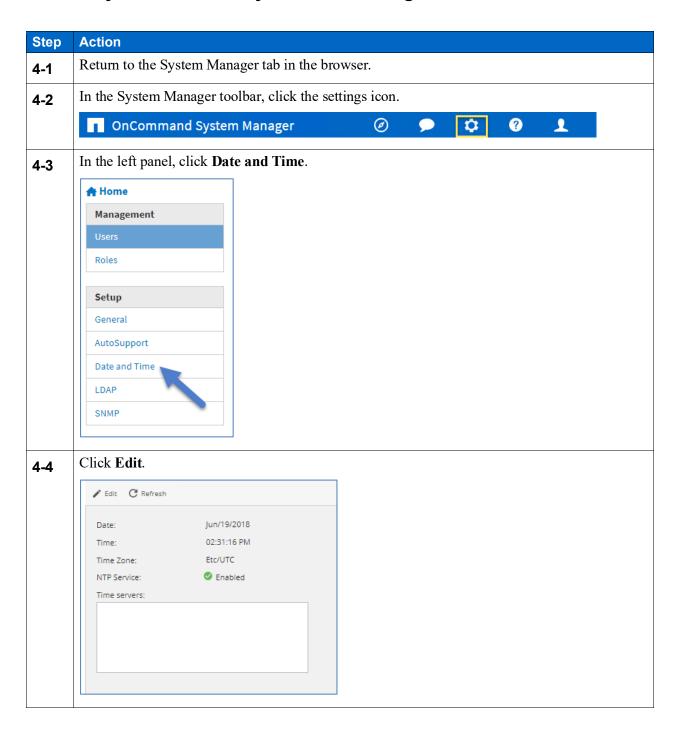


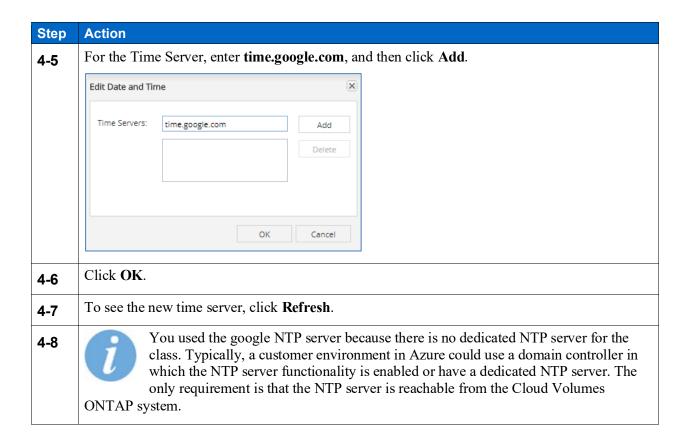




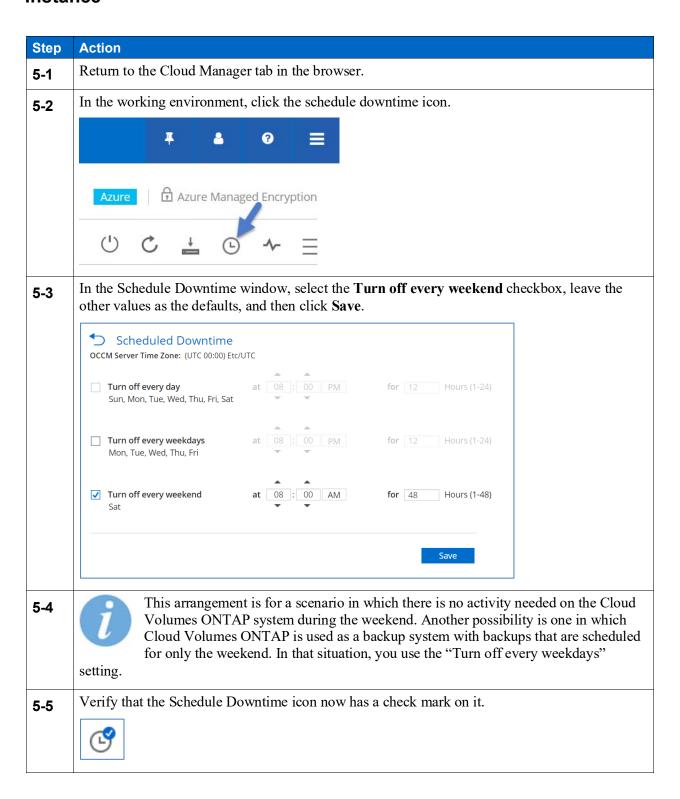


Task 4: Synchronize the System Time Using NTP



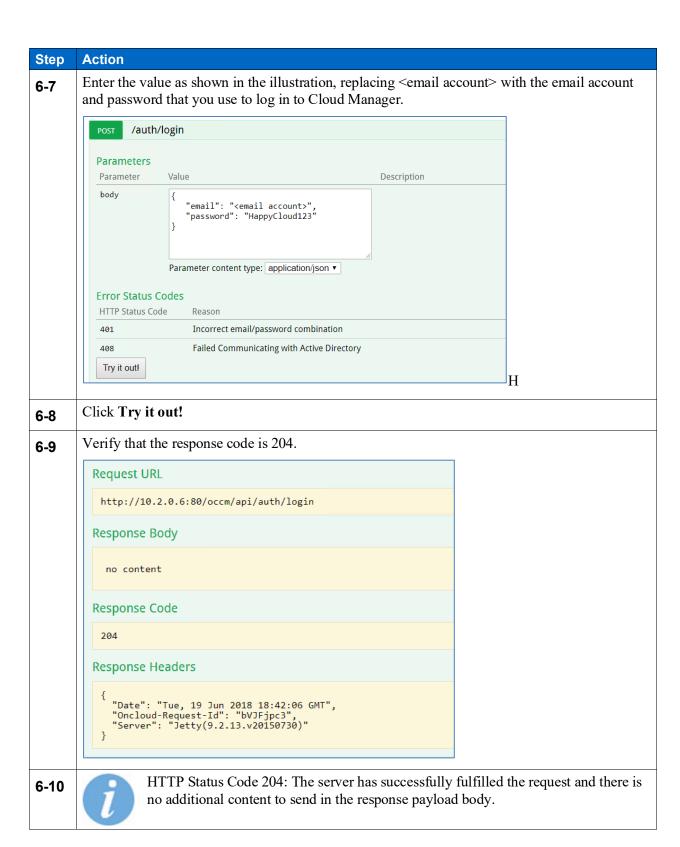


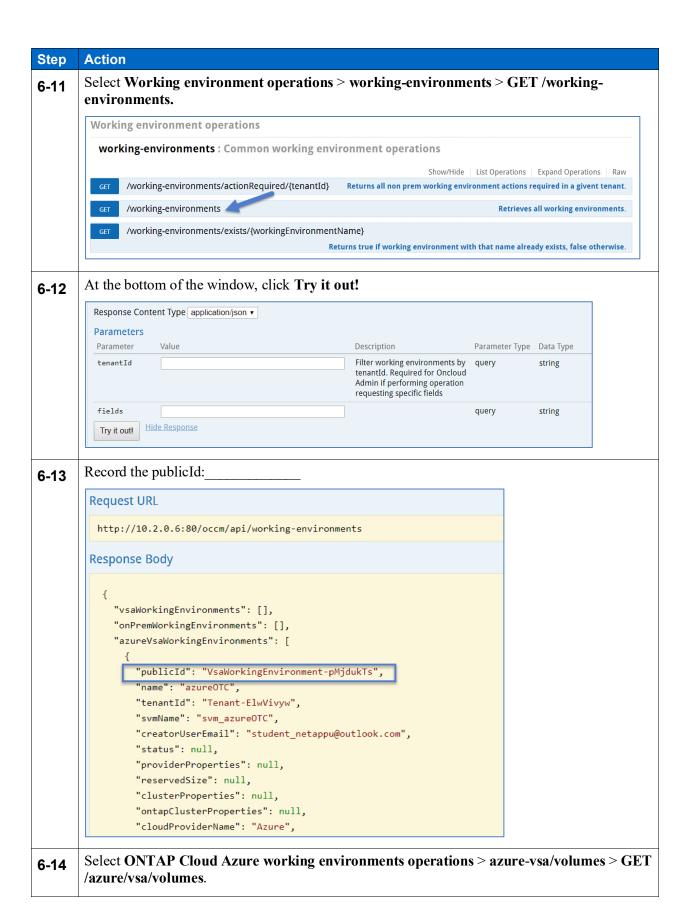
Task 5: Schedule Automatic Shutdown of a Cloud Volumes ONTAP Instance

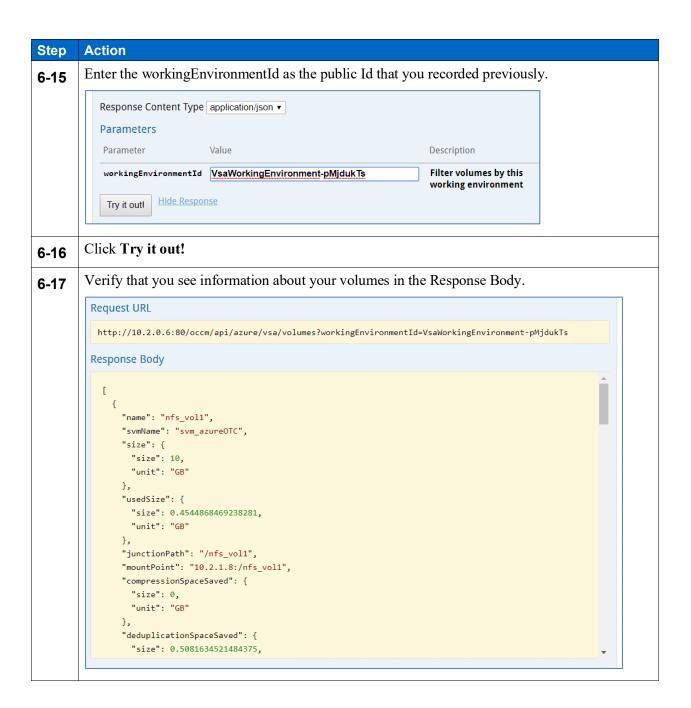


Task 6: Use Swagger to Send API Commands to Cloud Manager

Step	Action
6-1	Return to the Cloud Manager tab in the browser.
6-2	At the bottom-right of the page, click API documentation. API API documentation
6-3	A new tab opens in the browser with the API Documentation. Wait for the page to populate. It might take several minutes.
6-4	Click User management operations. ONTAP Cloud working environment operations Replication operations Tenant operations User management operations Volume view operations Working environment operations [BASE URL: http://10.2.0.6/occm/api/api-docs , API VERSION: 3.2.0]
6-5	Select auth > /auth/login.
6-6	The authorization API needs to be run before any other API. This API logs you in to Cloud Manager. If the authorization API is not run first, you get an authentication error in any other API that you later use.







End of Exercise