

Module 3: Using Cloud Manager to Deploy Cloud Volumes ONTAP

Exercise 4: Verify the Cloud Volumes ONTAP Deployment

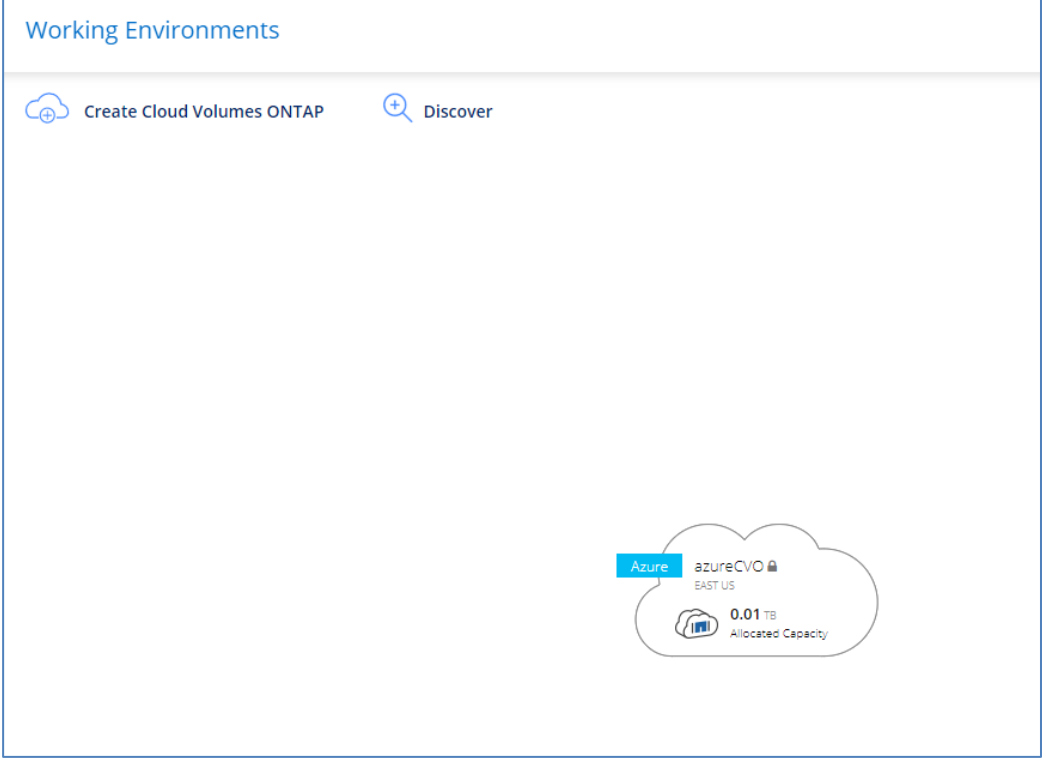
In this exercise, you verify that Cloud Volumes ONTAP deployed successfully, and you also use OnCommand Cloud Manager to obtain some basic information about the Cloud Volumes ONTAP system.

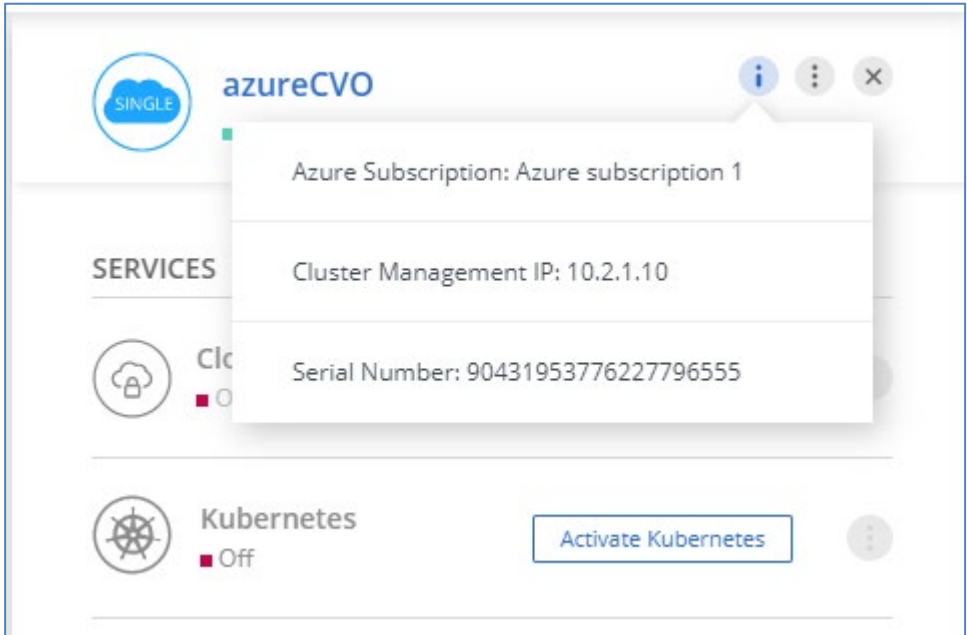
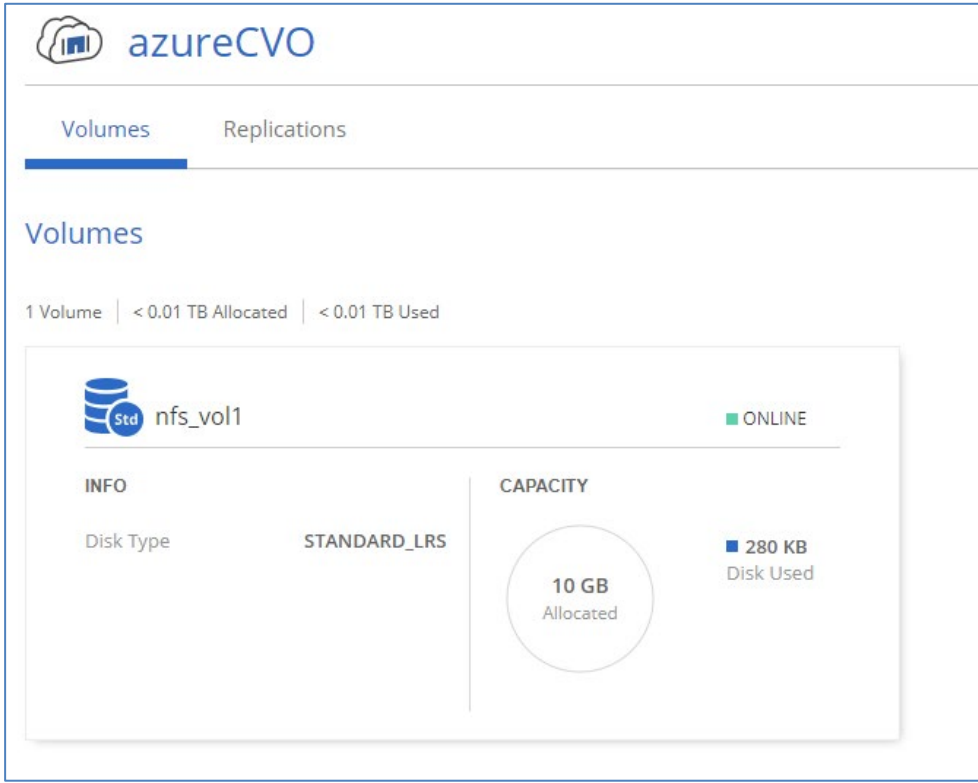
Objectives

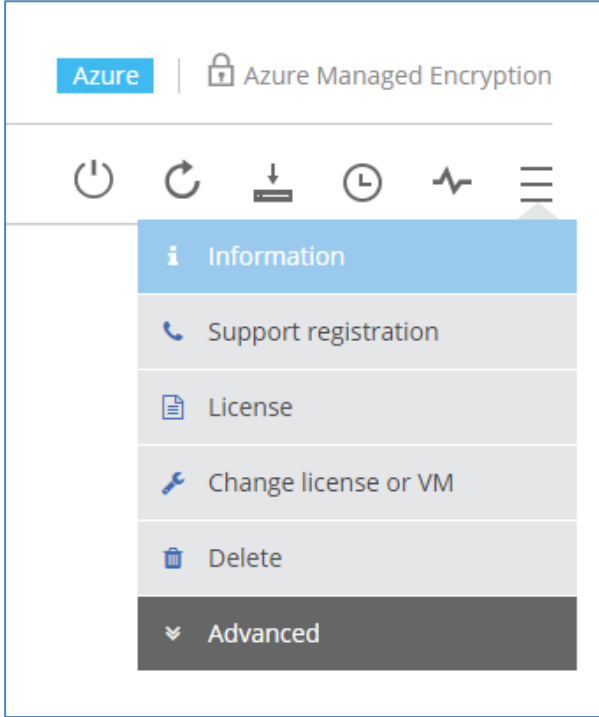
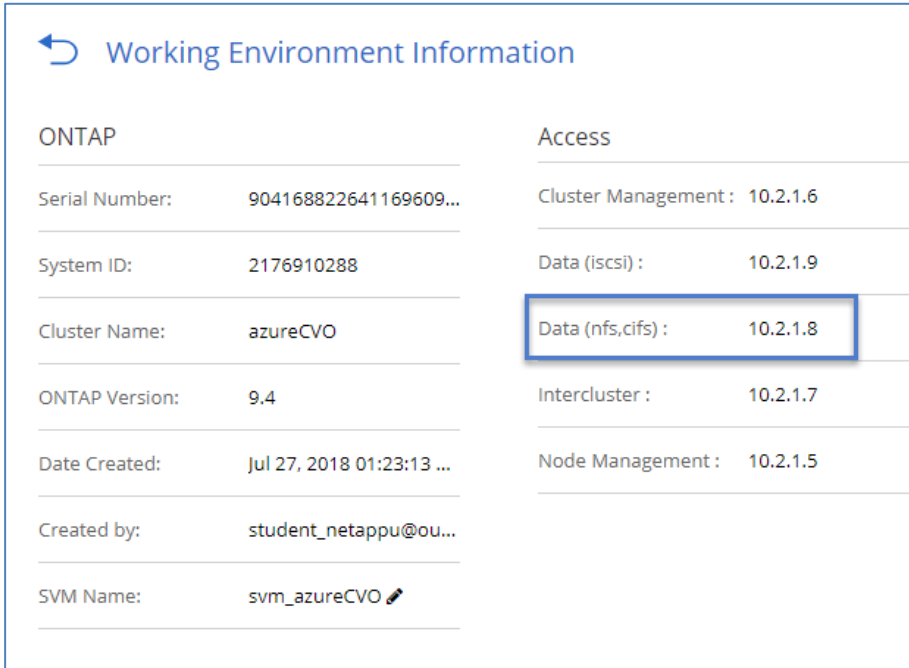
This exercise focuses on enabling you to do the following:

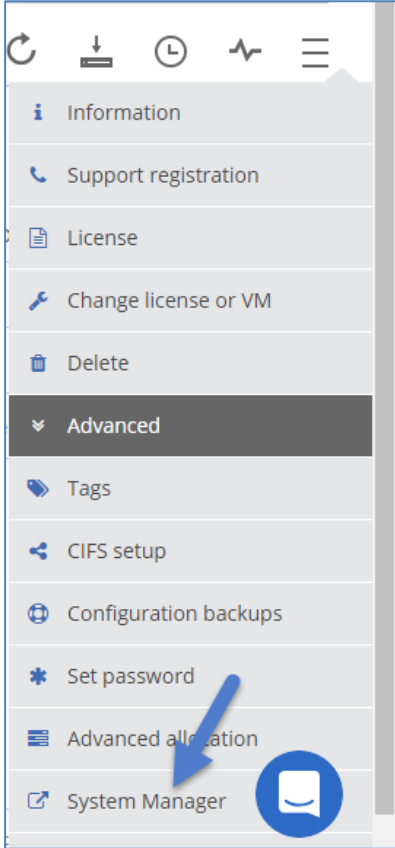
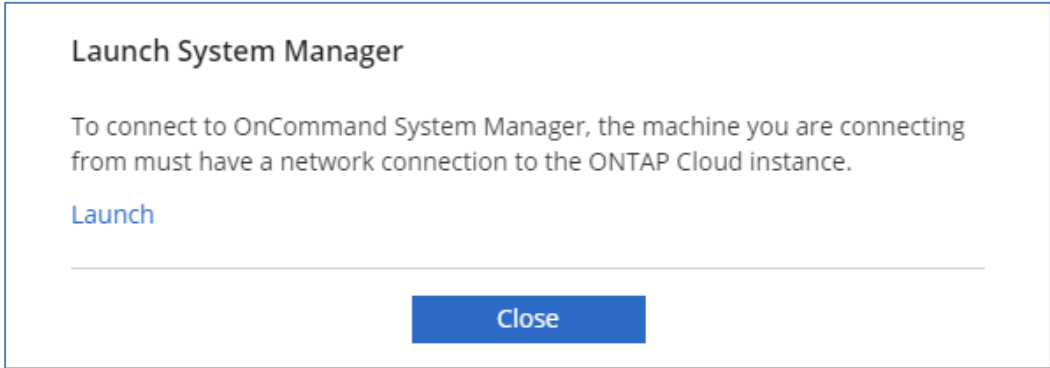

- Verify the Cloud Volumes ONTAP deployment
- Obtain the NAS IP address to be used for client connectivity

Task 1: Verify the Cloud Volumes ONTAP Deployment

Step	Action
1-1	Return to the web browser tab with the Cloud Manager interface.
1-2	Verify that Cloud Volumes ONTAP deployed successfully. <div></div>

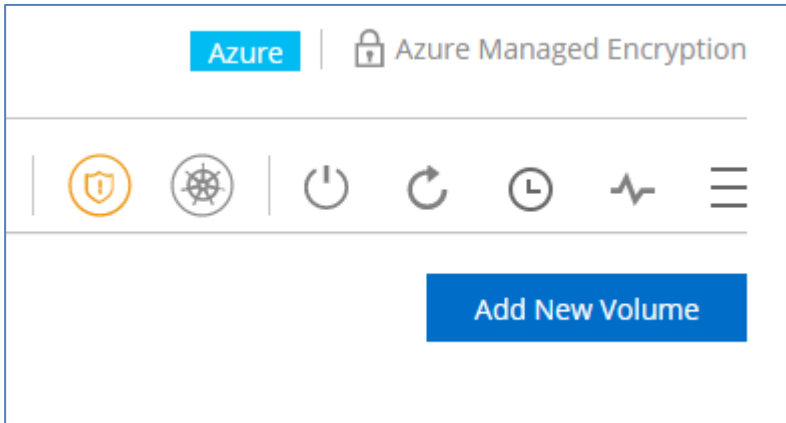
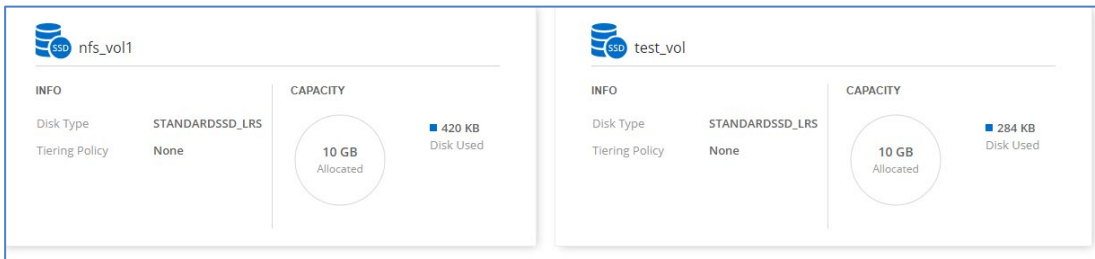
Step	Action
1-3	<p>Single click the azureCVO cloud icon. Click the “i” at the top right to view the basic information of the ONTAP Cloud system, and then record the Cluster Management IP:</p>  <p>The screenshot shows the azureCVO interface. A tooltip is displayed over the 'i' icon in the top right corner. The tooltip contains the following information:</p> <ul style="list-style-type: none"> Azure Subscription: Azure subscription 1 Cluster Management IP: 10.2.1.10 Serial Number: 90431953776227796555 <p>The background interface shows the 'SERVICES' section with a 'Kubernetes' status of 'Off' and an 'Activate Kubernetes' button.</p>
1-4	Double-click the azureCVO cloud icon.
1-5	<p>Verify that you see the <code>nfs_vol1</code> that you defined while deploying Cloud Volumes ONTAP.</p>  <p>The screenshot shows the 'Volumes' page in the azureCVO interface. The 'Volumes' tab is selected, and the 'nfs_vol1' volume is listed. The volume is in an 'ONLINE' state. The 'INFO' section shows the 'Disk Type' as 'STANDARD_LRS'. The 'CAPACITY' section shows a '10 GB' disk allocated, with '280 KB' of disk used.</p>

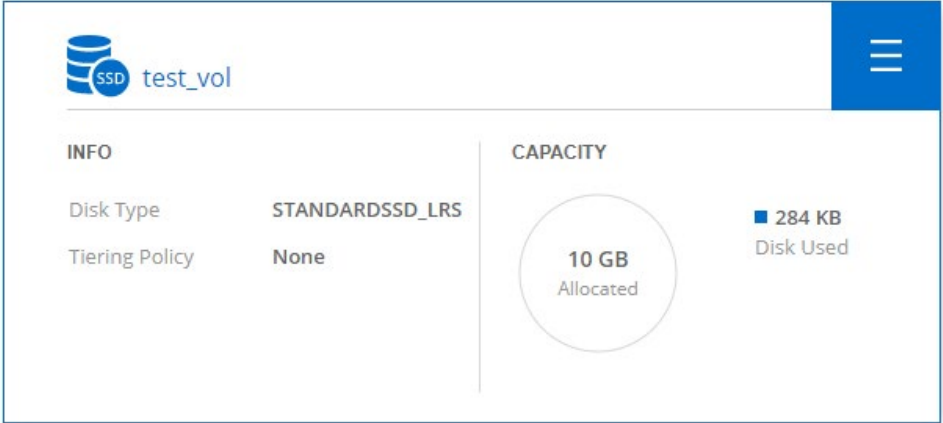
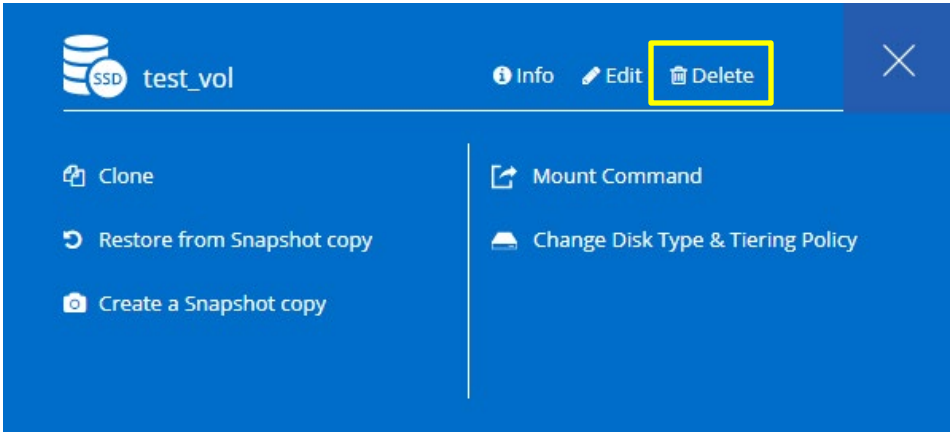
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1-6	<p>On the far-right side of the page, click the menu icon, and select Information.</p>  <p>The screenshot shows the top navigation bar with 'Azure' and 'Azure Managed Encryption'. Below it is a row of icons: a power button, a refresh button, a download button, a clock, a heartbeat line, and a menu icon (three horizontal lines). The menu is open, showing options: 'Information' (highlighted in blue), 'Support registration', 'License', 'Change license or VM', 'Delete', and 'Advanced' (at the bottom, highlighted in dark grey).</p>																
1-7	<p>Record the Data (nfs,cifs) IP address: _____</p>  <p>The screenshot shows the 'Working Environment Information' page. It has two columns: 'ONTAP' and 'Access'. The 'ONTAP' column contains fields for Serial Number, System ID, Cluster Name, ONTAP Version, Date Created, Created by, and SVM Name. The 'Access' column contains fields for Cluster Management, Data (iscsi), Data (nfs,cifs), Intercluster, and Node Management. The 'Data (nfs,cifs)' field is highlighted with a blue box, showing the IP address 10.2.1.8.</p> <table border="1"> <thead> <tr> <th>ONTAP</th><th>Access</th></tr> </thead> <tbody> <tr> <td>Serial Number: 904168822641169609...</td><td>Cluster Management : 10.2.1.6</td></tr> <tr> <td>System ID: 2176910288</td><td>Data (iscsi) : 10.2.1.9</td></tr> <tr> <td>Cluster Name: azureCVO</td><td>Data (nfs,cifs) : 10.2.1.8</td></tr> <tr> <td>ONTAP Version: 9.4</td><td>Intercluster : 10.2.1.7</td></tr> <tr> <td>Date Created: Jul 27, 2018 01:23:13 ...</td><td>Node Management : 10.2.1.5</td></tr> <tr> <td>Created by: student_netappu@ou...</td><td></td></tr> <tr> <td>SVM Name: svm_azureCVO</td><td></td></tr> </tbody> </table>	ONTAP	Access	Serial Number: 904168822641169609...	Cluster Management : 10.2.1.6	System ID: 2176910288	Data (iscsi) : 10.2.1.9	Cluster Name: azureCVO	Data (nfs,cifs) : 10.2.1.8	ONTAP Version: 9.4	Intercluster : 10.2.1.7	Date Created: Jul 27, 2018 01:23:13 ...	Node Management : 10.2.1.5	Created by: student_netappu@ou...		SVM Name: svm_azureCVO	
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1-8	<p>On the far-right side of the page, click the menu icon, and select Advanced > System Manager.</p> 
1-9	<p>Read the warning in the Launch System Manager window.</p> 
1-10	 <p>You are trying to connect through a web browser on your laptop and the Cloud Volumes ONTAP instance is in the back-end subnet with a private IP address. Therefore, you cannot connect to it from the internet. In a later exercise in the course, you connect to System Manager (which runs as a service on the Cloud Volumes ONTAP instance that you deployed) from the Azure Window Server jump host.</p>
1-11	Click Close .

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1-12	<p>At the top right, click Timeline.</p> <div><div>Azure Azure Managed Encryption</div><div><div> </div><div>Timeline</div></div></div>																																																								
1-13	<p>Select the Create VSA Working Environment row.</p> <div><div>></div><div>Apr 23 2020, 3:48:50 pm</div><div>Create Vsa Working Environment</div></div>																																																								
1-14	<p>Review the steps that Cloud Manager used to deploy Cloud Volumes ONTAP.</p> <table><tr><td>...</td><td>Jul 27, 2018 0...</td><td>Create new working environment <i>azureCVO</i> of type ONTAP Cloud</td><td>Cloud...</td><td>azureCVO</td><td>Richard Nicholl</td><td>✔ Success</td></tr><tr><td></td><td>Jul 27, 2018 01:41:53</td><td>...Describe Azure Identity Data</td><td></td><td></td><td></td><td>✔ Success</td></tr><tr><td></td><td>Jul 27, 2018 01:41:53</td><td>...Describe System Images (3)</td><td></td><td></td><td></td><td>✔ Success</td></tr><tr><td></td><td>Jul 27, 2018 01:41:53</td><td>...Describe Ontap Version</td><td></td><td></td><td></td><td>✔ Success</td></tr><tr><td></td><td>Jul 27, 2018 01:41:52</td><td>...Describe Virtual Machine Operation Status</td><td></td><td></td><td></td><td>✔ Success</td></tr><tr><td></td><td>Jul 27, 2018 01:41:52</td><td>...Tag Virtual Machine</td><td></td><td></td><td></td><td>✔ Success</td></tr><tr><td></td><td>Jul 27, 2018 01:41:51</td><td>...Describe System Images</td><td></td><td></td><td></td><td>✔ Success</td></tr><tr><td></td><td>Jul 27, 2018 01:41:51</td><td>...Describe Nodes</td><td></td><td></td><td></td><td>✔ Success</td></tr></table>	...	Jul 27, 2018 0...	Create new working environment <i>azureCVO</i> of type ONTAP Cloud	Cloud...	azureCVO	Richard Nicholl	✔ Success		Jul 27, 2018 01:41:53	...Describe Azure Identity Data				✔ Success		Jul 27, 2018 01:41:53	...Describe System Images (3)				✔ Success		Jul 27, 2018 01:41:53	...Describe Ontap Version				✔ Success		Jul 27, 2018 01:41:52	...Describe Virtual Machine Operation Status				✔ Success		Jul 27, 2018 01:41:52	...Tag Virtual Machine				✔ Success		Jul 27, 2018 01:41:51	...Describe System Images				✔ Success		Jul 27, 2018 01:41:51	...Describe Nodes				✔ Success
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Task 2: Create a New Volume

Step	Action
2-1	Click the Working Environments tab at the top of the page.
2-2	Double-click the azureCVO cloud icon.
2-3	<p>In the Volumes tab on the top-right corner of the window, click Add New Volume.</p>  <p>The screenshot shows a top navigation bar with the 'Azure' logo and 'Azure Managed Encryption' text. Below this is a row of icons: a shield with a checkmark, a gear, a power button, a refresh arrow, a clock, a pulse line, and a hamburger menu. A blue button labeled 'Add New Volume' is positioned at the bottom right of the interface.</p>
2-4	<p>In the Create Volume page, do the following:</p> <p>Details and Protection section</p> <ol style="list-style-type: none"> Enter the Volume name as test_vol. For the Size, enter 10 GB. Leave the Snapshot Policy as default. <p>Protocol section</p> <ol style="list-style-type: none"> Select NFS Protocol. For the Access Control and Custom export policy, leave the defaults.
2-5	Click Continue .
2-6	In the Create Volume – Usage Profile, Disk Type & Tiering Policy, leave all the values as the defaults, and click Go .
2-7	<p>Verify that the new volume is added to the Volumes tab.</p>  <p>The screenshot displays two volume cards side-by-side. The left card is for 'nfs_vol1' and the right card is for 'test_vol'. Each card has an 'INFO' section with 'Disk Type' as 'STANDARDSSD_LRS' and 'Tiering Policy' as 'None'. The 'CAPACITY' section shows a '10 GB Allocated' disk with a small bar indicating '420 KB Disk Used' for nfs_vol1 and '284 KB Disk Used' for test_vol.</p>

Step	Action
2-8	<p>In the top-right section of the test_vol item, click the menu icon, and then click Delete.</p>  
2-9	In the Are you sure you want to delete the volume: test_vol? window, click Delete .
2-10	Verify that the test volume is removed.

End of Exercise