# Module 3: Using Cloud Manager to Deploy Cloud Volumes ONTAP

# **Exercise 2: Grant Azure Permissions to Cloud Manager**

In this exercise, you prepare Cloud Manager to launch Cloud Volumes ONTAP, this includes granting the appropriate Azure permissions to Cloud Manager.

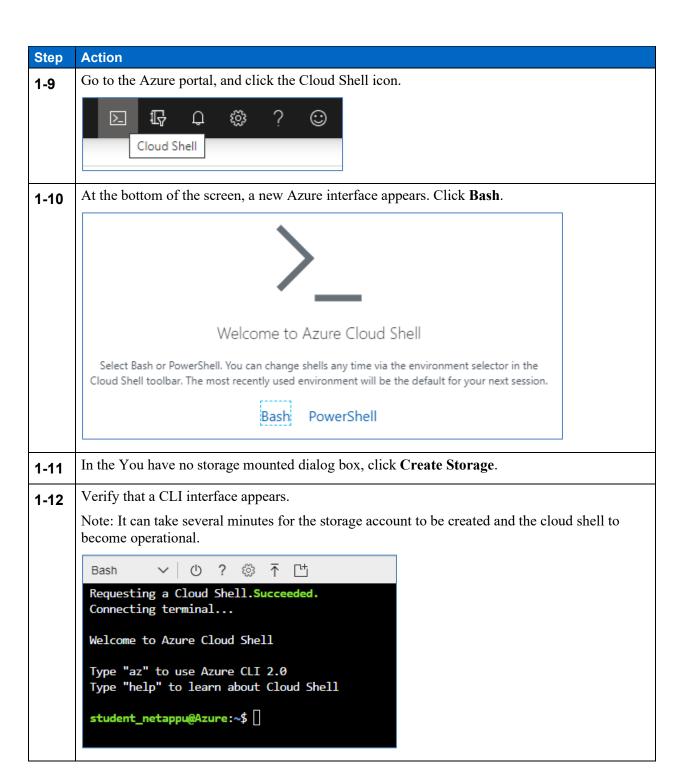
# **Objectives**

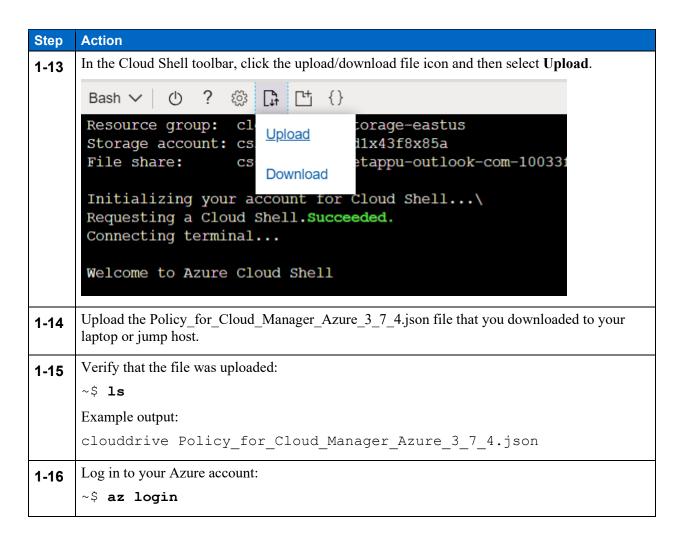
This exercise focuses on enabling you to do the following:

Grant Azure permissions to Cloud Manager.

## Task 1: Create a Custom Role

Step	Action		
1-1	In the Azure portal, navigate to <b>Home</b> > <b>Subscriptions</b> .		
1-2	In the Subscriptions pane, click your subscription. Copy your Subscription ID.		
	☐ Cancel subscription   ☐ Rename   → Change directory	Copy to clipboard	
	Subscription ID: b310df1e-a4e2-477d-8f5f-c47094f44425	Subscripti	
	Directory : Default Directory (cloudreadyoutlook670.onmicrosoft.com)	My role	
1-3	Record your subscription ID:		
1-4	Open a new tab in the web browser to https://occm-sample-policies.s3.amazonaws.com/Policy_for_cloud_Maximum.com/Policy_for_cloud_Max	anager_Azure_3.7.4.json	
1-5	A new browser tab opens. Save the .json file on your computer (Policy_for_Cloud_Manager_Azure_3_7_4.json).		
1-6	Open the file with your favorite editing tool.		
1-7	Scroll down to the AssignableScopes field, and enter the following line	<b>:</b>	
	"/subscriptions/ <your account="" azure="" earlier="" id="" recorded="" subscription="">"</your>		
	"NotActions": [],  "AssignableScopes": [  "/subscriptions/c15e10e3-878e-48bc-b32e-2af52c627004"		
	],		





# Step **Action** Follow the instructions returned from the command to authenticate: 1-17 (Example instruction: To sign in, use a web browser to open the page https://microsoft.com/devicelogin and enter the code BHXUR243Y to authenticate.) a. Open a browser tab, and enter https://microsoft.com/devicelogin b. Enter the code that you received. c. Click Next d. Complete the steps to sign in to your Azure account. Microsoft Enter code Enter the code displayed on your app or device. Code Next Return to the Cloud Shell and verify that you were logged in to your Azure account. You are 1-18 now logged in. Example truncated output: "cloudName": "AzureCloud", "id": "c15e12e3-888e-45bc-b14e-1af53ac627004", "isDefault": true, "name": "Pay-As-You-Go", "state": "Enabled", "tenantId": "985d61ed-98db-4d30-8f7c-f85ae16b244a", "user": { "name": "student netappu@outlook.com", "type": "user"

### **1-19** Create the role:

 ${\sim}\$$  az role definition create --role-definition <path to azure cloud manager policy>

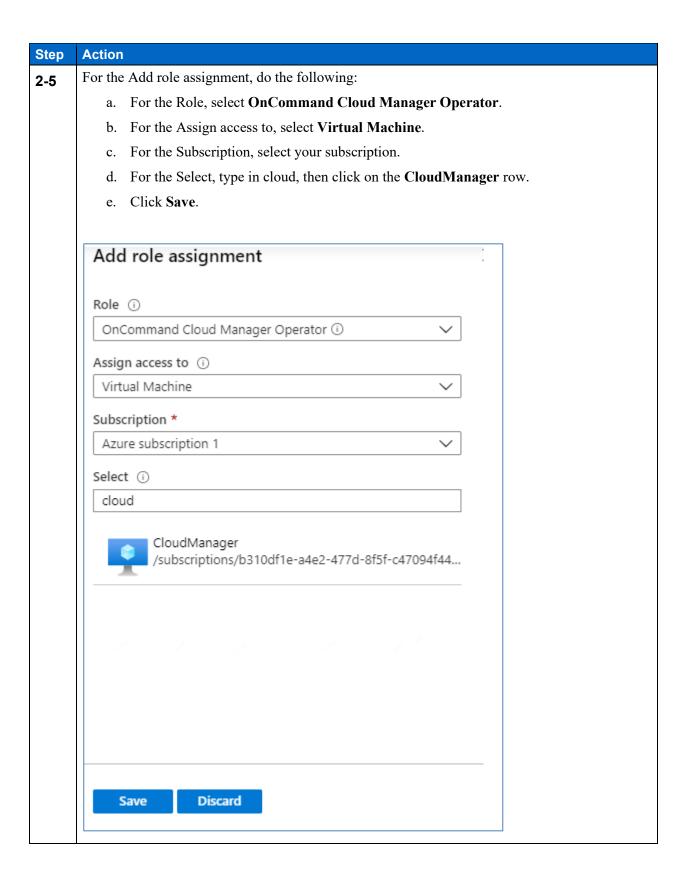
Example command: az role definition create --role-definition Policy for Cloud Manager Azure 3 7 4.json)

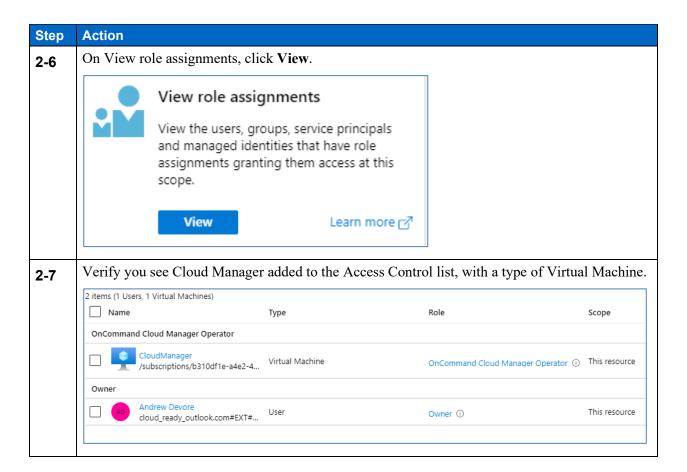
Step **Action** In the command response, verify that the role is created for your subscription. 1-20 "assignableScopes": [ "/subscriptions/b310df1e-a4e2-477d-8f5f-c47094f444 "description": "OnCommand Cloud Manager Permissions" "id": "/subscriptions/b310df1e-a4e2-477d-8f5f-c47094 "name": "55b70a43-eb78-437f-948c-fb46584936e4", "permissions": [ "actions": [ "Microsoft.Compute/disks/delete", "Microsoft.Compute/disks/read", "Microsoft.Compute/disks/write", "Microsoft.Compute/locations/operations/read" "Microsoft.Compute/locations/vmSizes/read", "Microsoft.Resources/subscriptions/locations/r "Microsoft.Compute/operations/read", View the role in the Azure portal: 1-21 a. Return to the Azure portal. b. Click on Subscriptions. In the Subscriptions section, click the row with your subscription. In the Subscription blade, click the menu option Access control (IAM). At the top of the Access control (IAM) blade, click Roles. Verify that you see the OnCommand Cloud Manager Operator role. Roles Pay-As-You-Go NAME USERS **GROUPS** Owner 6 0 Contributor 6 2 0 Reader 6 0 0 OnCommand Cloud Manager Operator 6 1 0 API Management Service Contributor 6 0 0 API Management Service Operator Role 6 0 0

# Task 2: Assign the Role to the Cloud Manager vitrual machine

In this task, you deploy Cloud Volumes ONTAP and create a volume with NFS access.

Step	Action
2-1	Open the <b>Subscriptions</b> service and then select the subscription in which you want to deploy Cloud Volumes ONTAP systems.
2-2	Click Access Control (IAM).
2-3	Click + Add.
2-4	For the Add a role assignment  Add a role assignment  Grant access to resources at this scope by assigning a role to a user, group, service principal, or managed identity.  Add  Learn more





#### **End of Exercise**