Module 0: Welcome

Exercise 1: Checking the Exercise Equipment

In this exercise, you familiarize yourself with your equipment and verify that licenses are installed.

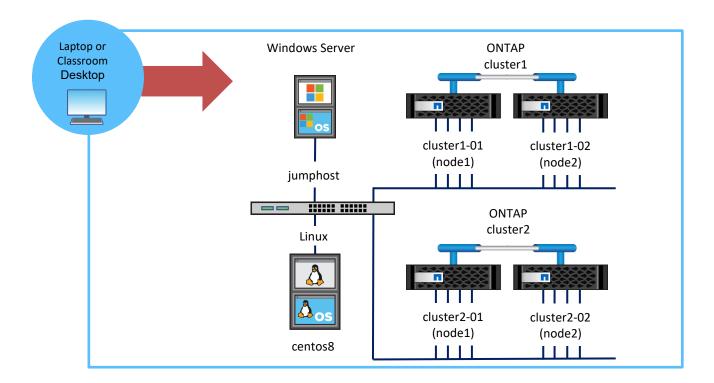
Objectives

This exercise focuses on enabling you to do the following:

- Connect to your NetApp ONTAP cluster
- Configure PuTTY saved sessions
- · Verify that required license codes are installed

Lab Equipment

When you use the connection information that your instructor assigns to you, you first connect through Remote Desktop Connection to a Windows Server. From this Windows desktop, you connect to the other servers in your exercise environment.

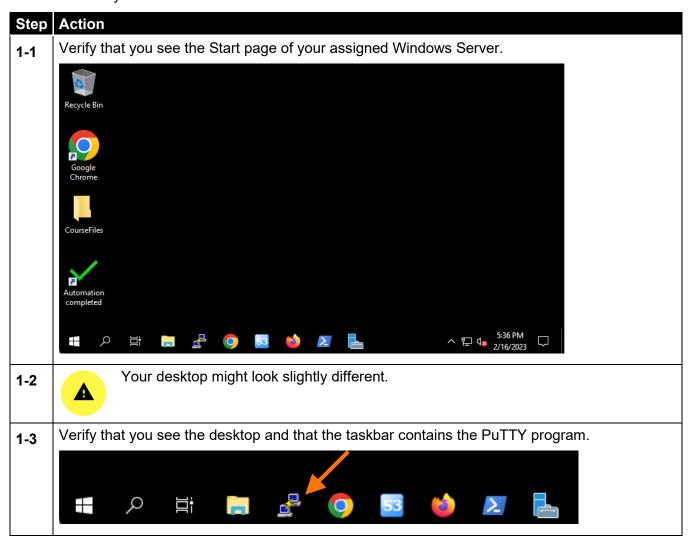


System	Host Name	IP Addresses	User Name	Password
Windows Server 2019 Datacenter	jumphost	192.168.0.5	DEMO\Administrator	Netapp1!
CentOS 8.5 Server	centos8	192.168.0.21	root (case sensitive)	Netapp1!

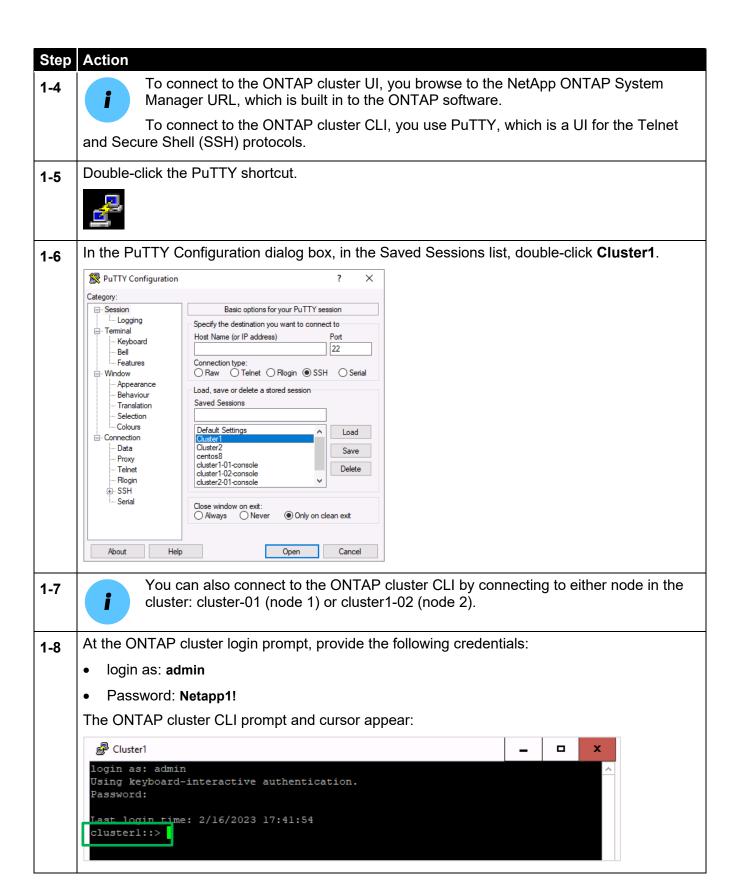
ONTAP cluster- management LIF (cluster1)	cluster1	192.168.0.101	admin (case sensitive)	Netapp1!
node1 (cluster1)	cluster1-01	192.168.0.111	admin (case sensitive)	Netapp1!
node2 (cluster1)	cluster1-02	192.168.0.112	admin (case sensitive)	Netapp1!
ONTAP cluster- management LIF (cluster2)	cluster2	192.168.0.102	admin (case sensitive)	Netapp1!
node1 (cluster2)	cluster2-01	192.168.0.121	admin (case sensitive)	Netapp1!
Node2 (cluster2)	cluster2-02	192.168.0.122	admin (case sensitive)	Netapp1!
Windows Server 2019 Datacenter	dc1	192.168.0.253	DEMO\Administrator	Netapp1!

Task 1: Connect to Your ONTAP Cluster

In this task, you familiarize yourself with the Windows Server desktop. You connect to the ONTAP cluster and verify the health of the cluster.



Checking the Exercise Equipment M0-E1-P2



Step Action





If you have any difficulty logging in to the ONTAP cluster CLI, see this table and verify that you are using the correct username and password in the correct case (both are case-sensitive).

System	Host Name	IP Address	User Name	Password
ONTAP cluster- management LIF	cluster1	192.168.0.101	admin (case-sensitive)	Netapp1!

1-10 Verify that both nodes of the ONTAP cluster are healthy and eligible:

cluster show

Sample output:

1-11



If the Health or Eligibility of either node is listed as false, alert your instructor.

cluster4::> cluster show

Node Health Eligibility

cluster4-01 true true cluster4-02 false false
2 entries were displayed.

1-12 Configure the display to work well in PuTTY:

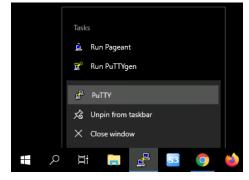
rows 0

- 1-13 Use the following credentials to repeat Steps 1-5 through 1-10 for the cluster2 selection in PuTTY:
 - login as: admin
 - Password: Netapp1!

1-14

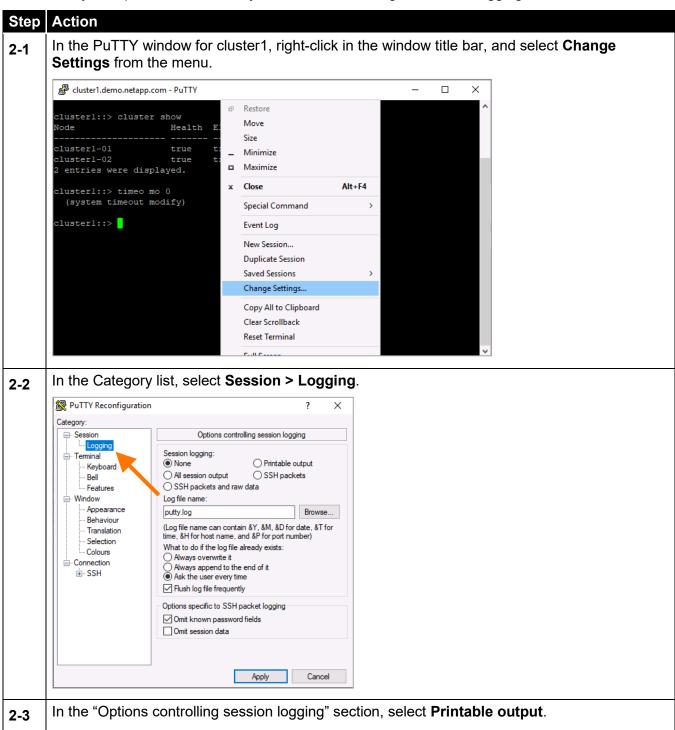


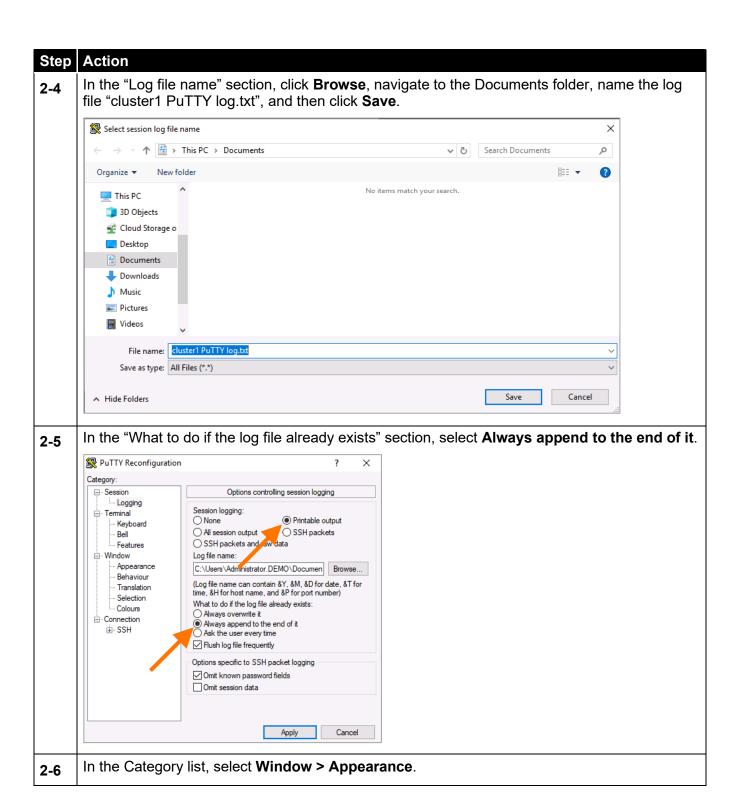
You right-click the PuTTY icon for the menu to open an extra PuTTY window.

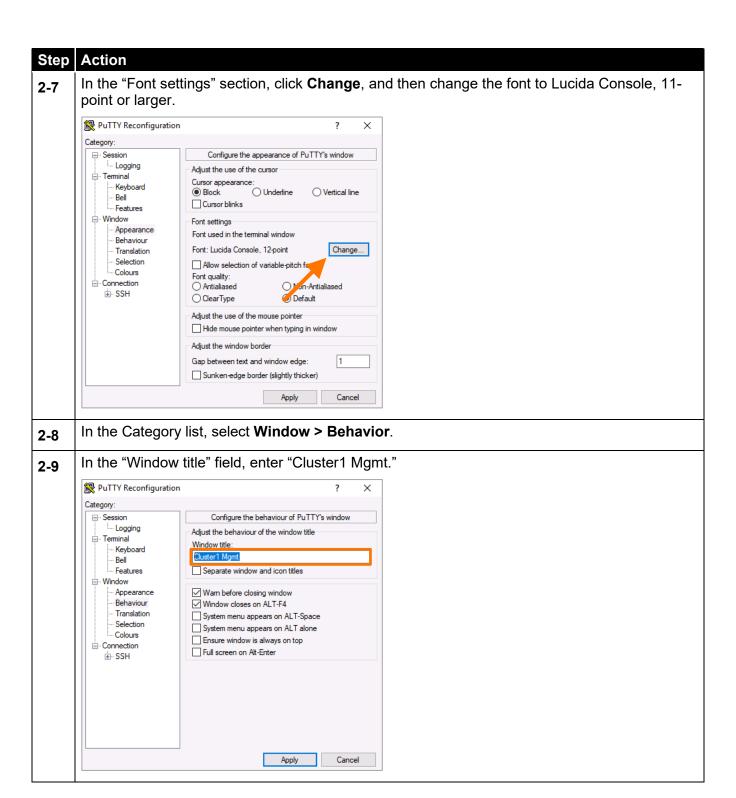


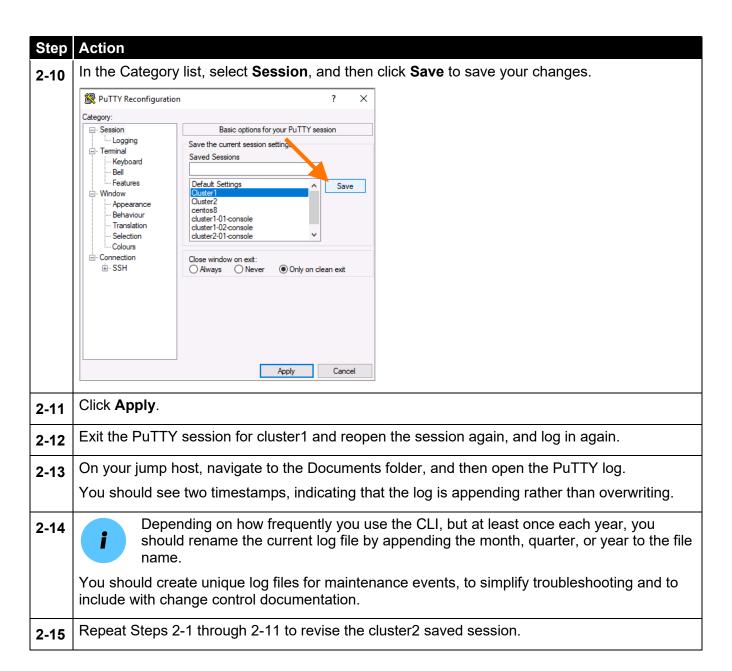
Task 2: Configure PuTTY Saved Sessions

In this task, you improve the readability of the text and configure session logging.









Task 3: Verify that Required License Codes Are Installed

Many advanced features of the ONTAP cluster require licenses to work. In later exercises, you use several licensed features of the ONTAP cluster. In this task, you verify that the necessary licenses are preinstalled.

In the cluster1 CLI, e system license sh		oming communa.	
System litemse sn			
cluster1::> licen	se show		
Owner: cluster1-0 Installed License	1	00000000000000000000000000000000000000	
Capacity: - Package	Type	Description	Expiration
NFS	license	NFS License CIFS License	
CIFS	license	CIFS License	-
SnapRestore	license	SnapRestore License SnapMirror License FlexClone License	-
SnapMirror	license	SnapMirror License	-
FlexClone	license	FlexClone License	-
SnapVault	license	SnapVault License SnapLock License SnapManagerSuite License	-
ShapLock	license	SnapLock License	_
Shapmanagersurce	license	Volume Encryption License	
SnapMirror Sync	license	SnapMirror Synchronous License	_
NVMe oF	license	NVMe-oF License	_
MT EK MGMT	license	Multi-tenant Encryption License	_
s3 ⁻ -	license	Volume Encryption License SnapMirror Synchronous License NVMe-oF License Multi-tenant Encryption License S3 License	-
Serial Number: 1-	81-000000	000000000000000000000000000000000000000	
Owner: cluster1-0			
Installed License	: Legacy	Key	
Capacity: -	_		
Package	Type	Description	Expiration
NEC	ligongo	NEC License	_
CIFS	license	CIFS License	_
SnapRestore	license	NFS License CIFS License SnapRestore License	_
SnapMirror	license	SnapMirror License	_
FlexClone	license	SnapMirror License FlexClone License SnapVault License	-
SnapVault	license	SnapVault License	-
SnapLock	license	SnapLock License SnapManagerSuite License	-
SnapManagerSuite	license	SnapManagerSuite License	-
VE	license	Volume Encryption License	-
SnapMirror_Sync	license		-
NVMe_oF		NVMe-oF License	-
MT_EK_MGMT	license		-
26 entries were d	license		_

Step	Action			
3-2	Verify that the following required license codes are installed:			
	• NFS			
	• CIFS			
	• S3			
	NVME-oF			
	iSCSI (on cluster2 only)			
	SnapRestore			
	SnapMirror			
	FlexClone			
	VE (restricted export)			
3-3	If any of the licenses are not installed, inform your instructor.			
3-4	Repeat Steps 3-1 and 3-2 for cluster2.			

End of exercise