

# **LOYALIST COLLEGE IN TORONTO**

## **In-Class Assignment – 2**

Course Code – CLOD1000

**Instructor Name – Duo Lu**

**Submitted by:**

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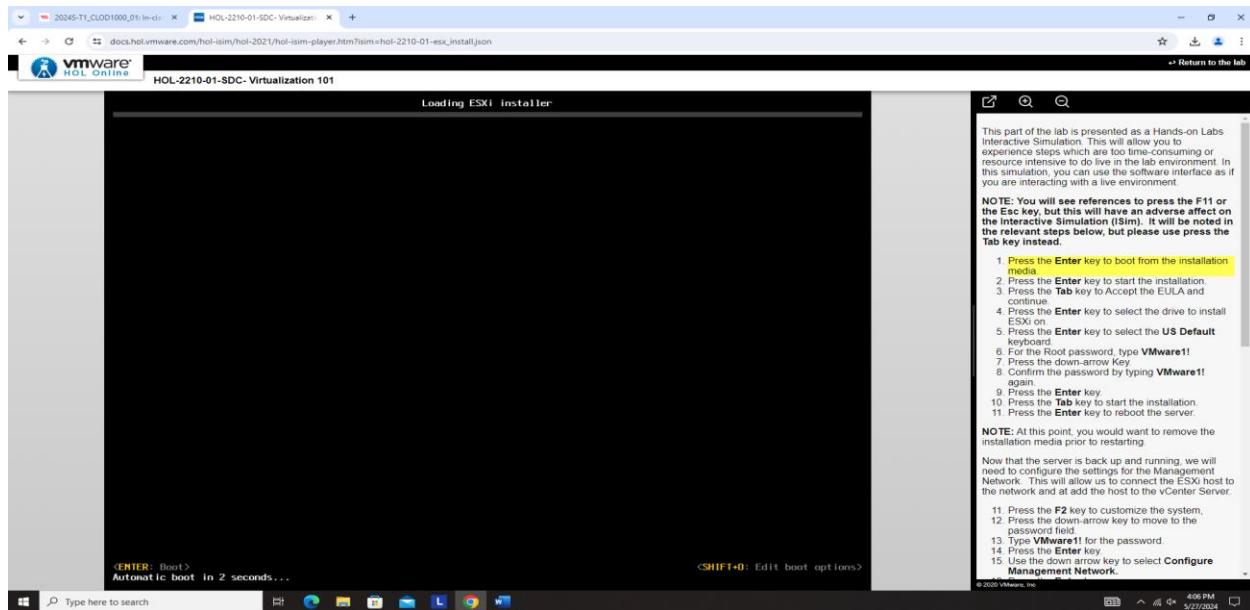
By submitting this assignment, you confirm that you alone have contributed to this submission. Any suspicion of copying or plagiarism in this work will result in an investigation of Academic Misconduct and may result in a "0" on the work, an "0" in the course, or possibly more severe penalties as well as a Disciplinary Notice on your academic record under the Student Code of Academic Conduct, which can be found online at:<https://www.loyalistcollege.com/about-loyalist/policies/aop-216-academic-honesty/>

# **ASSIGNMENT SUBMISSION CHECKLIST**

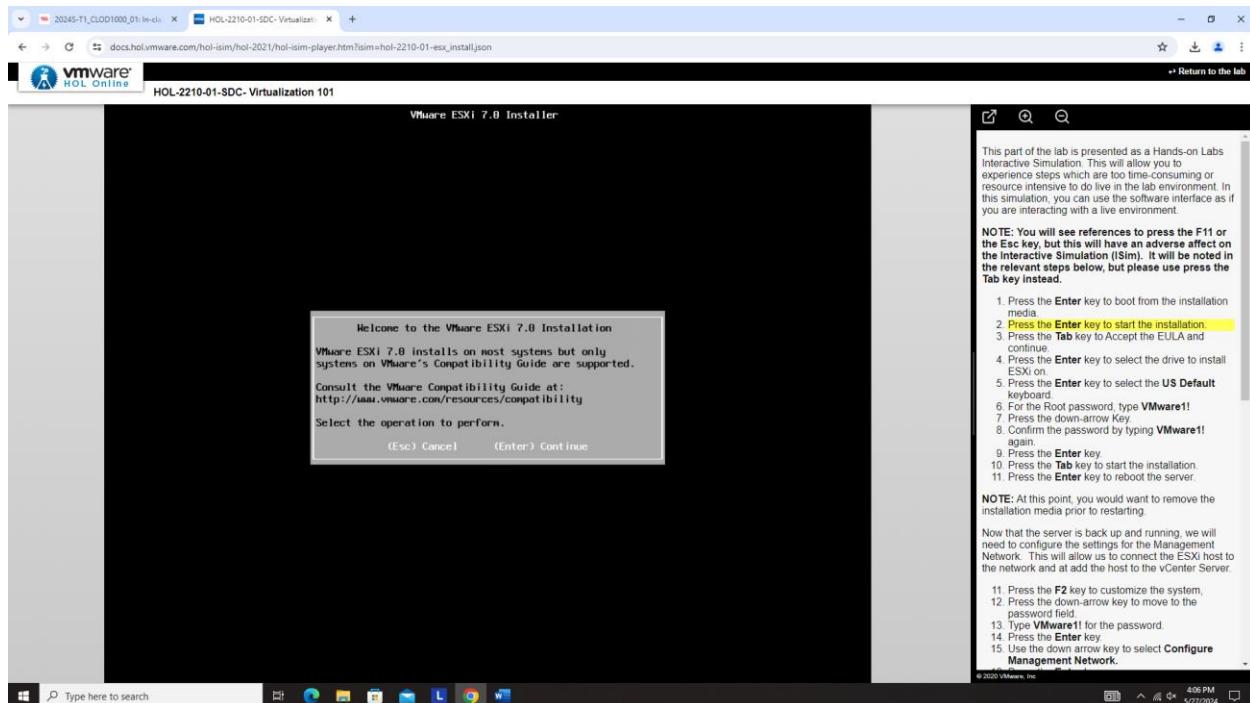
- |  |                                     |
|--|-------------------------------------|
| Is this my best effort?  | <input checked="" type="checkbox"/> |
| Has the spelling been checked?   | <input checked="" type="checkbox"/> |
| Is the references section correct?   | <input checked="" type="checkbox"/> |
| Is all cited material referenced?  | <input type="checkbox"/>            |
| included screen shots  | <input checked="" type="checkbox"/> |
| are the steps covered the requirements?  | <input checked="" type="checkbox"/> |
| Are the steps executed in sequences  | <input checked="" type="checkbox"/> |
| Are there any materials that you have not cited? (Should therefore be expunged).   | <input type="checkbox"/>            |
| Each screen shots commented and included enough explanations                       | <input checked="" type="checkbox"/> |
| Is the word length, OK?  | <input type="checkbox"/>            |
| Have I checked for spelling and grammar?   | <input type="checkbox"/>            |
| Is your name, student number, instructor's name and course code on the title page? | <input type="checkbox"/>            |
| Is an extra software used?   | <input checked="" type="checkbox"/> |
| The answers are in clear and good order (sorted)?                                  | <input checked="" type="checkbox"/> |
| Is the output graphs match the developed codes                                     | <input type="checkbox"/>            |
| X, Y labels are defined and titled in the graph correctly                          | <input type="checkbox"/>            |
| Did I check the whole checklist?   | <input type="checkbox"/>            |
| Layout and presentation is an Good and an Acceptable level                         | <input checked="" type="checkbox"/> |

# ➤ Virtualization 101 (HOL-2210-01-SDC)

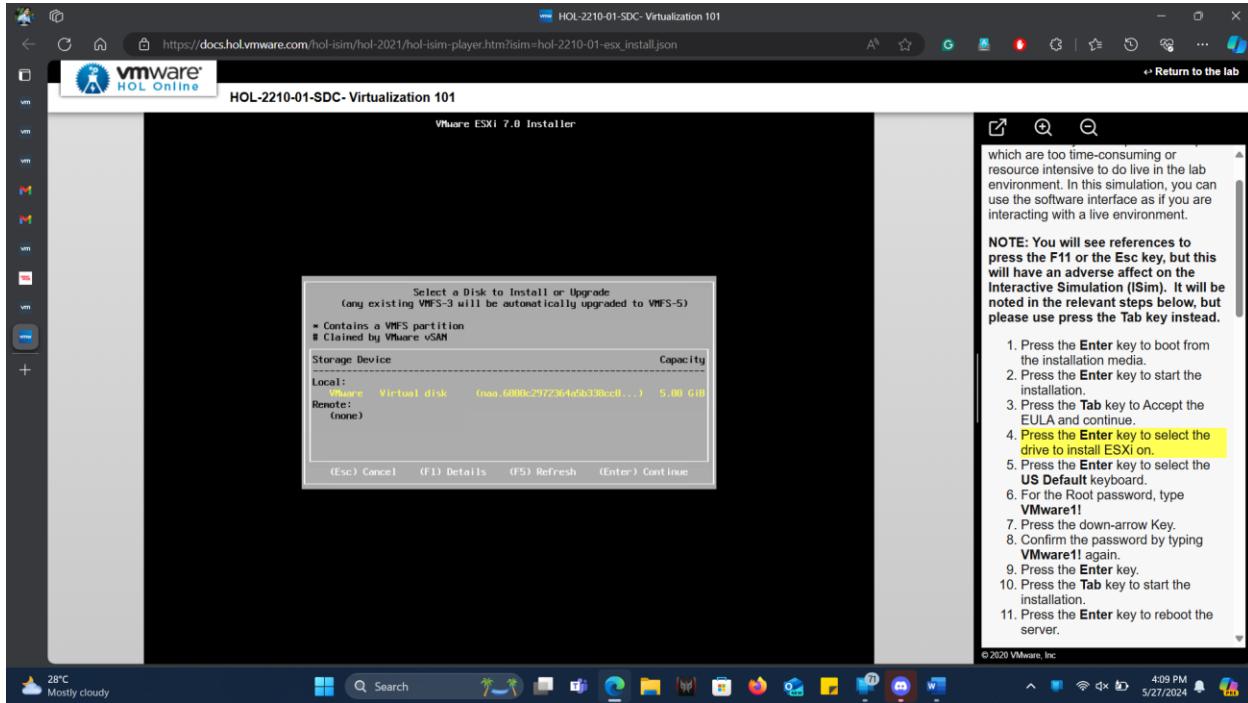
1. Press the Enter key to boot from the installation media.



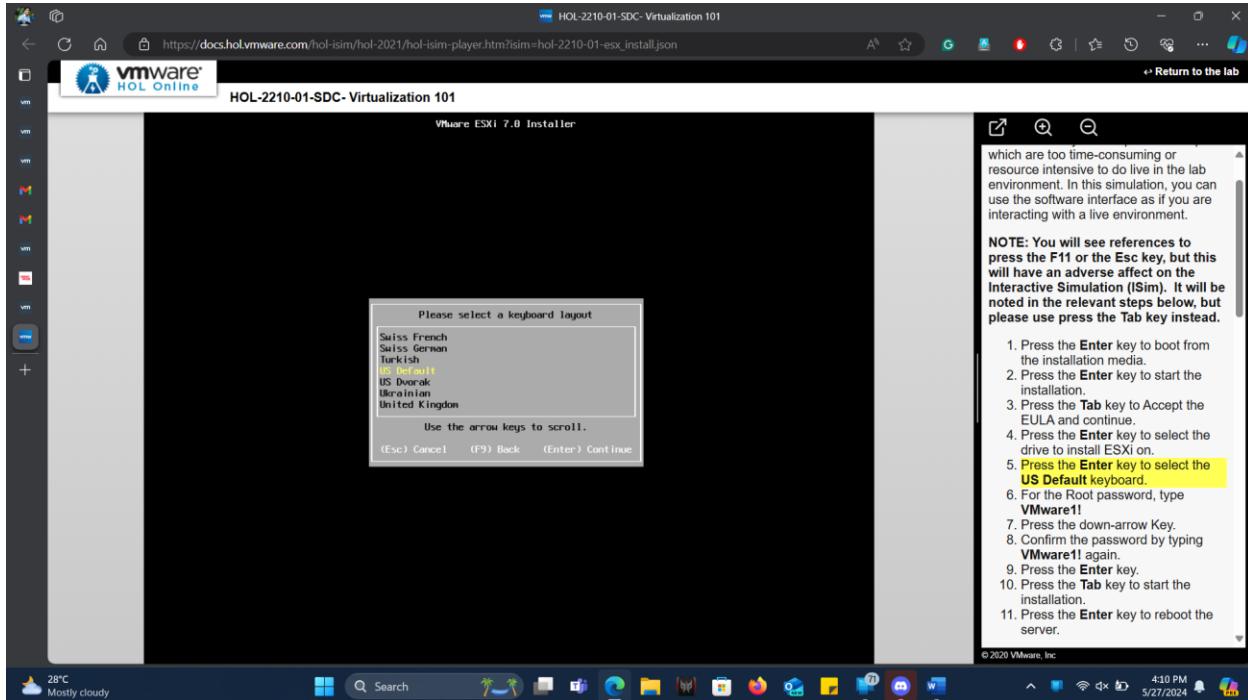
2. Press the **Enter** key to start the installation.



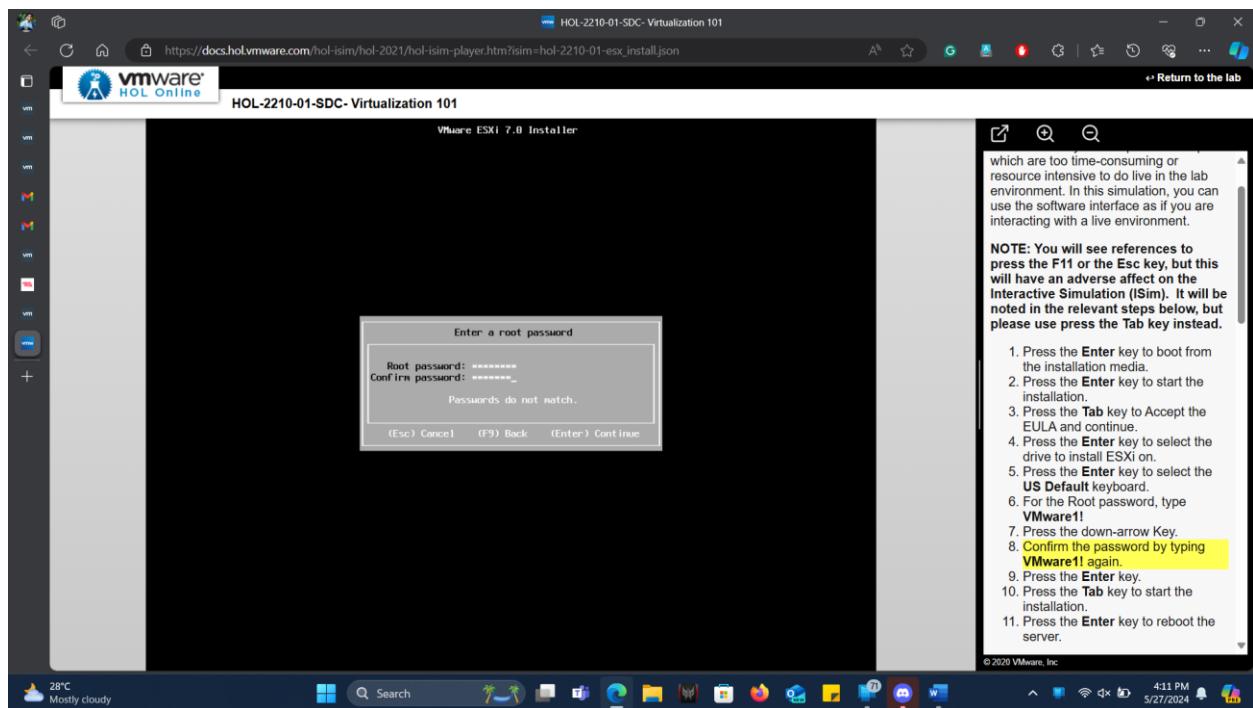
3. Press the **Tab** key to Accept the EULA and continue.
4. Press the **Enter** key to select the drive to install ESXi on.



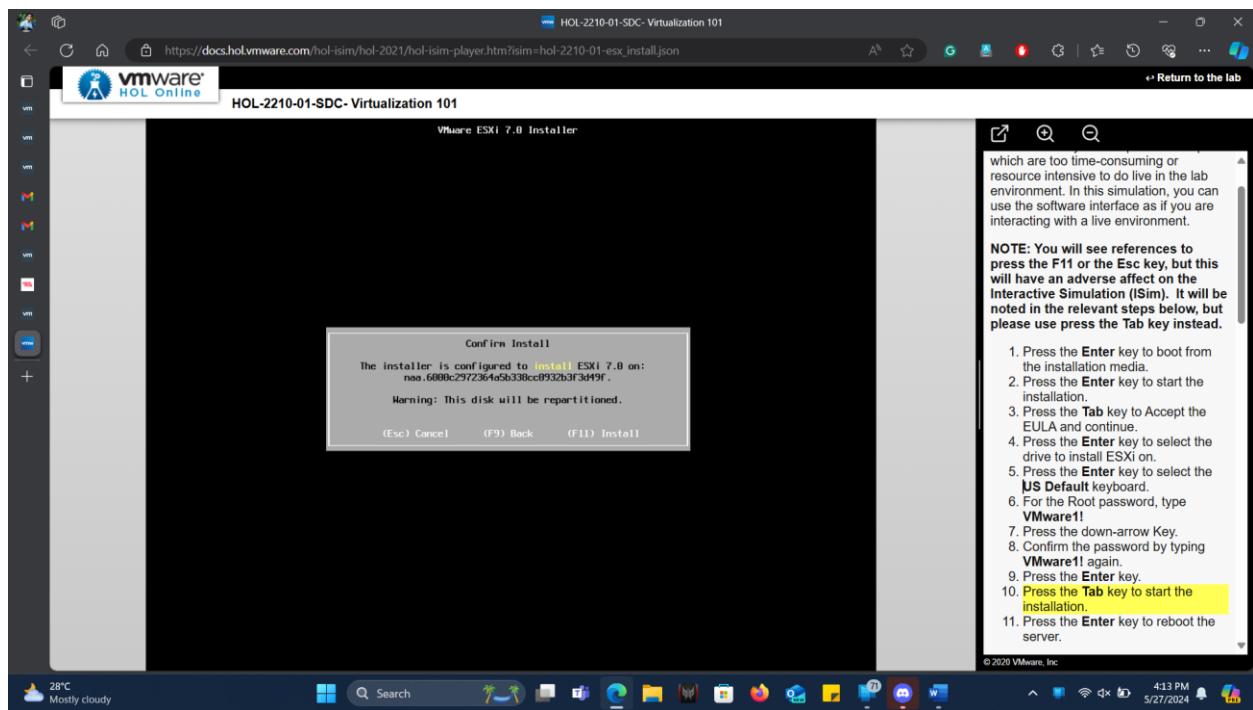
5. Press the **Enter** key to select the **US Default** keyboard.



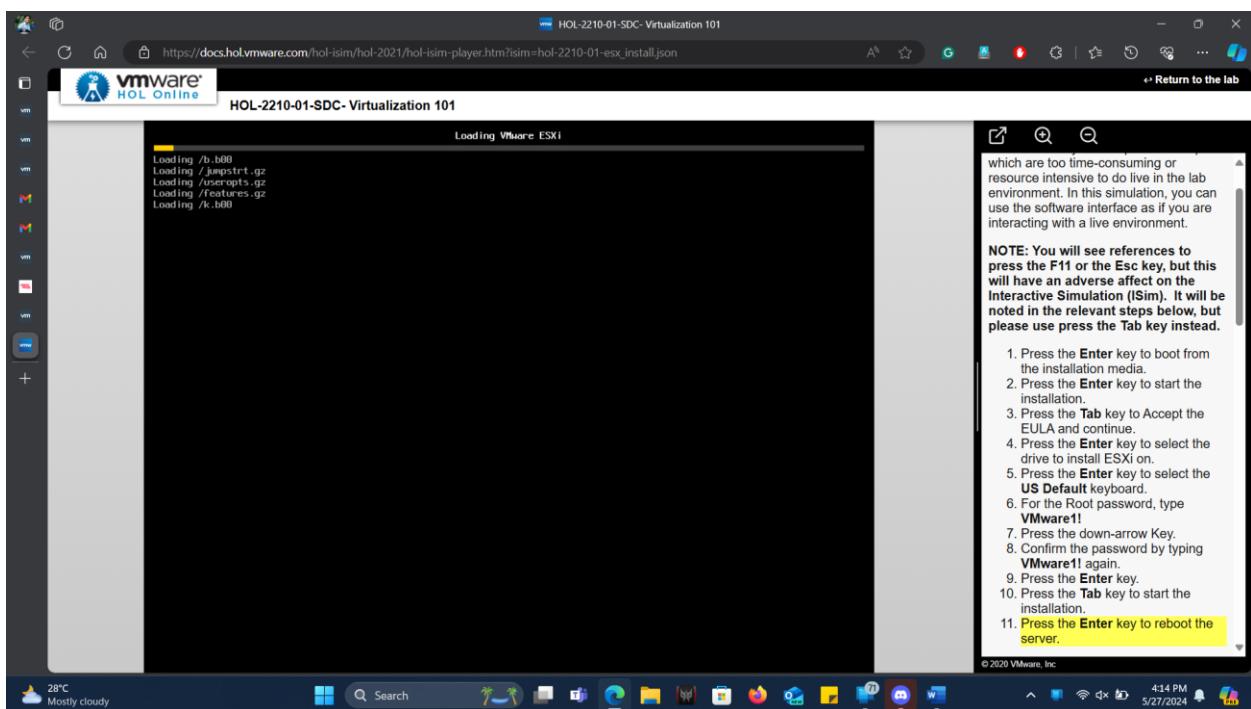
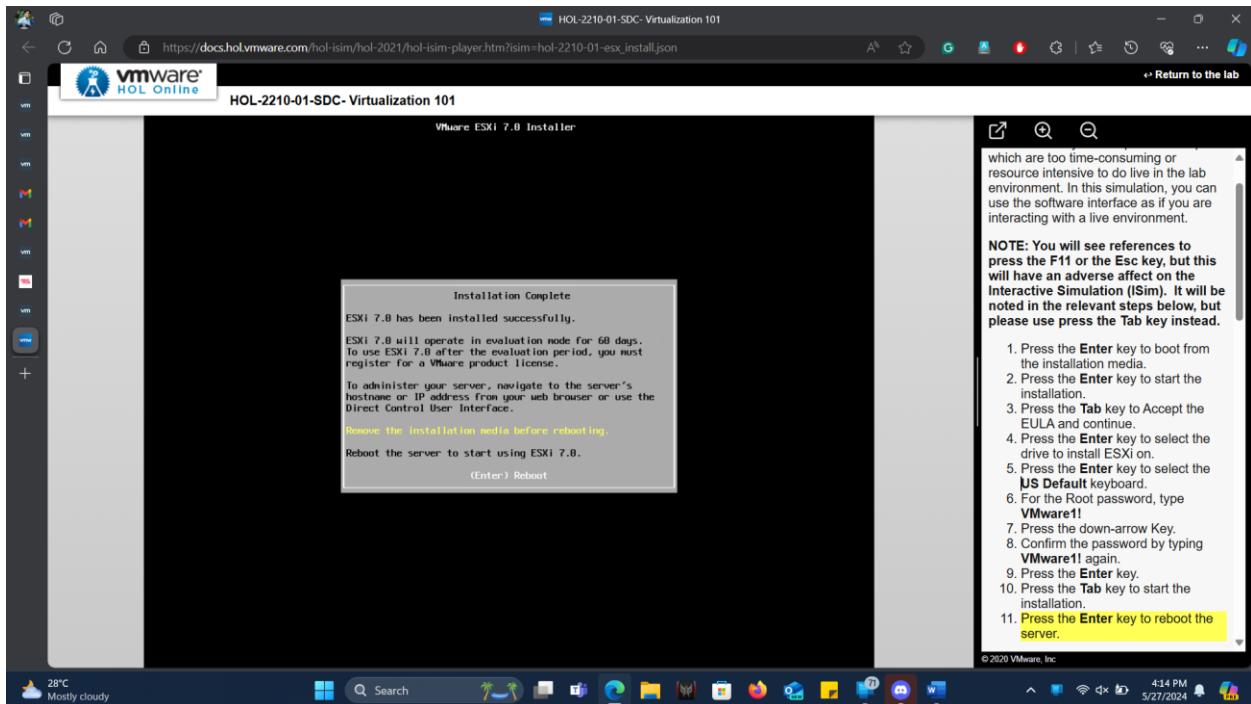
6. For the Root password, type **VMware1!**
7. Press the down-arrow Key.
8. Confirm the password by typing **VMware1!** again.



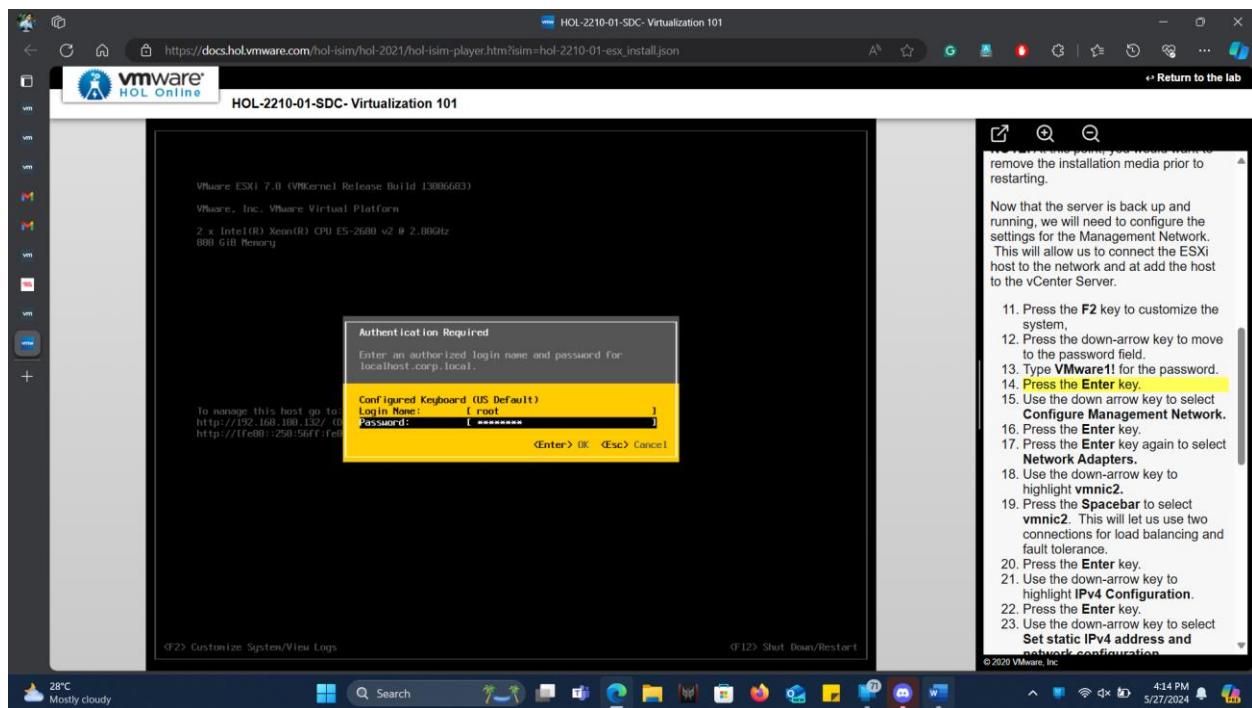
9. Press the **Enter** key.
10. Press the **Tab** key to start the installation.



11. Press the **Enter** key to reboot the server.

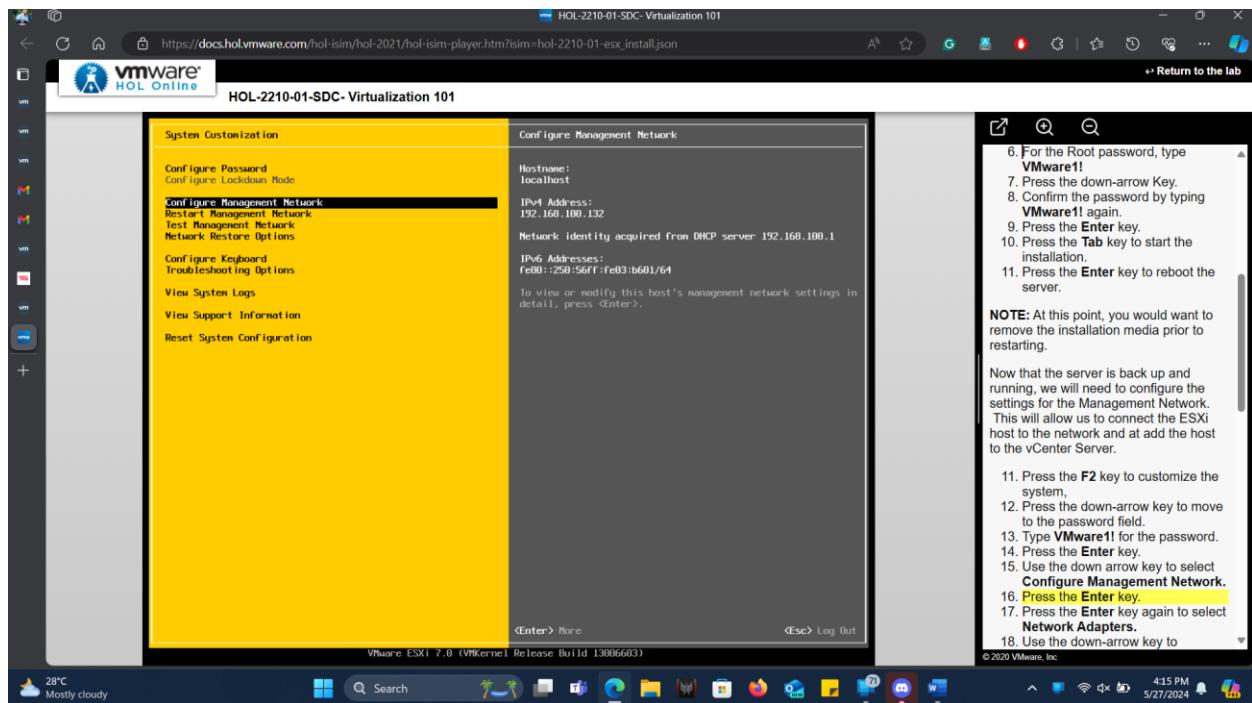


12. Press the **F2** key to customize the system,
13. Press the down-arrow key to move to the password field.
14. Type **VMware1!** for the password.

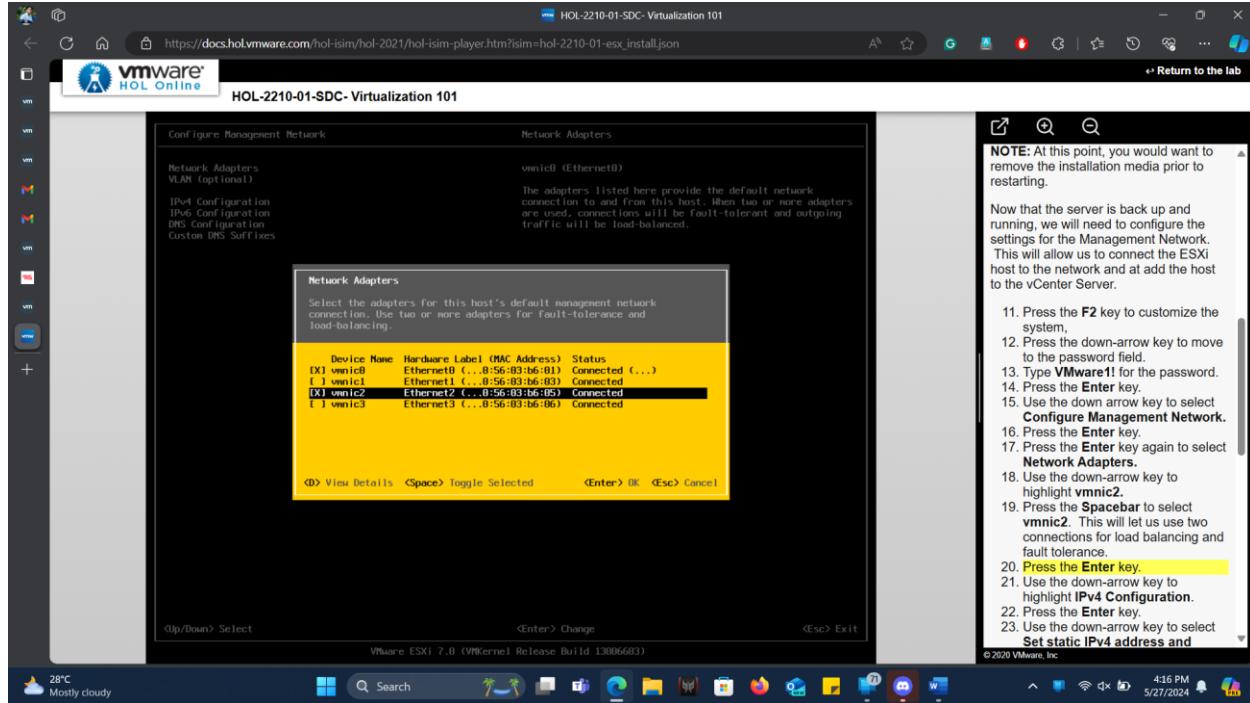


15. Use the down arrow key to select **Configure Management Network**.

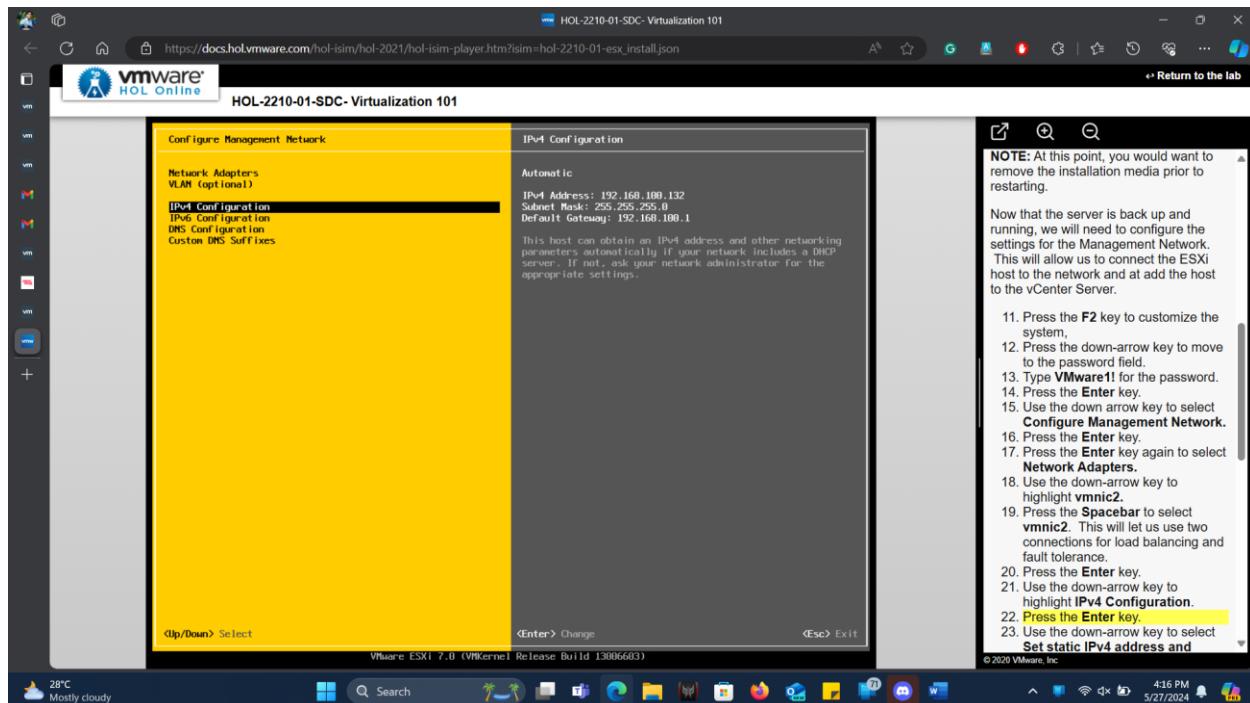
16. Press the **Enter** key.



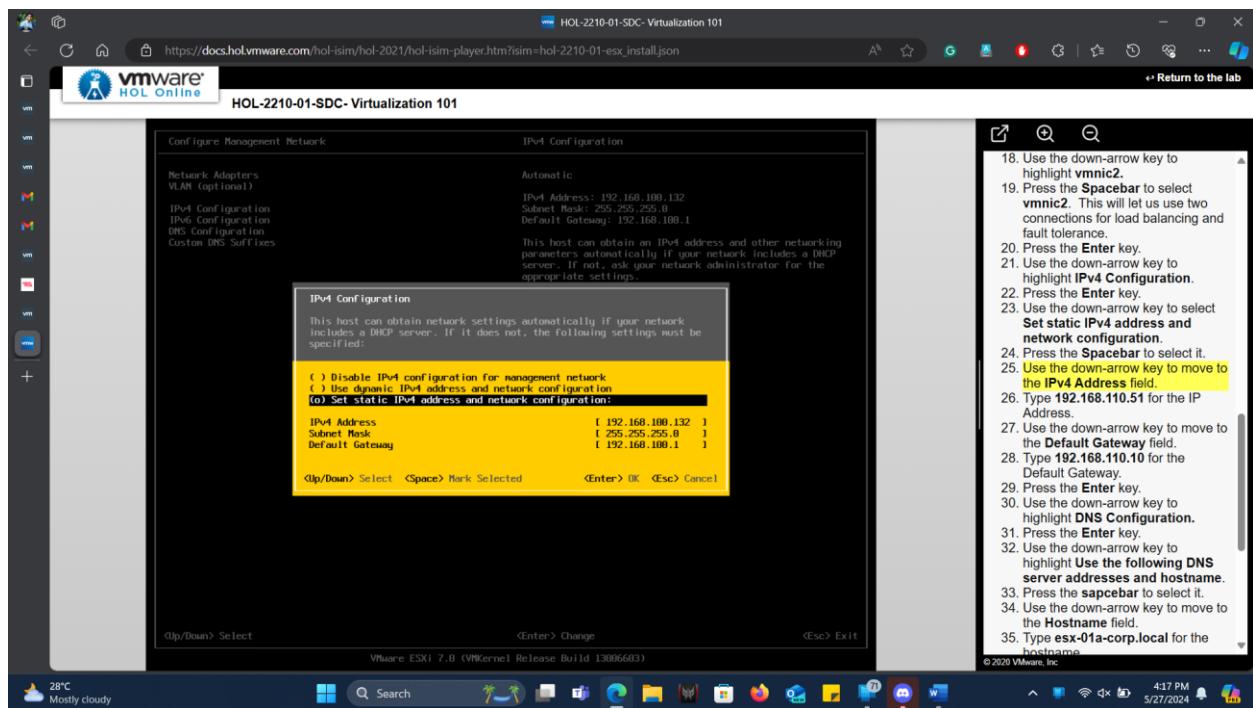
17. Press the **Enter** key again to select **Network Adapters**.
18. Use the down-arrow key to highlight **vmnic2**.
19. Press the **Spacebar** to select **vmnic2**. This will let us use two connections for load balancing and fault tolerance.
20. Press the **Enter** key.



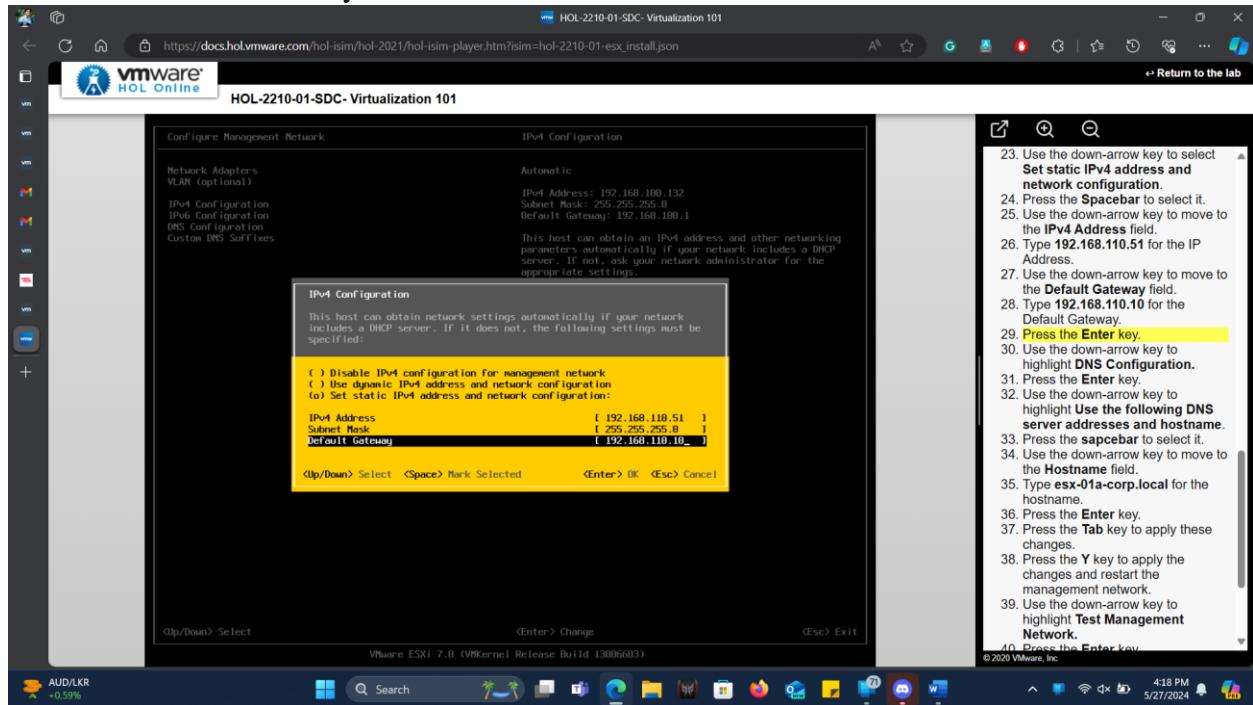
21. Use the down-arrow key to highlight **IPv4 Configuration**.
22. Press the **Enter** key.



23. Use the down-arrow key to select Set static IPv4 address and network configuration.
24. Press the Spacebar to select it.
25. Use the down-arrow key to move to the IPv4 Address field.

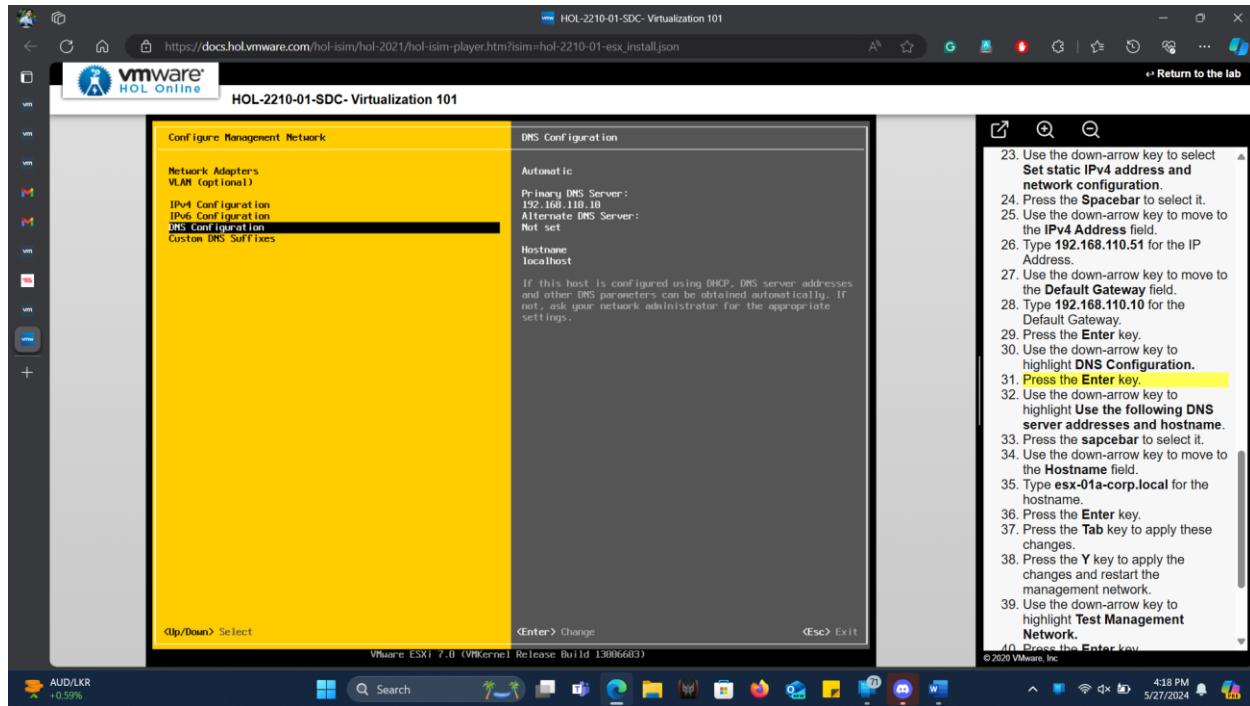


26. Type **192.168.110.51** for the IP Address.
27. Use the down-arrow key to move to the **Default Gateway** field.
28. Type **192.168.110.10** for the Default Gateway.
29. Press the **Enter** key.



30. Use the down-arrow key to highlight **DNS Configuration**.

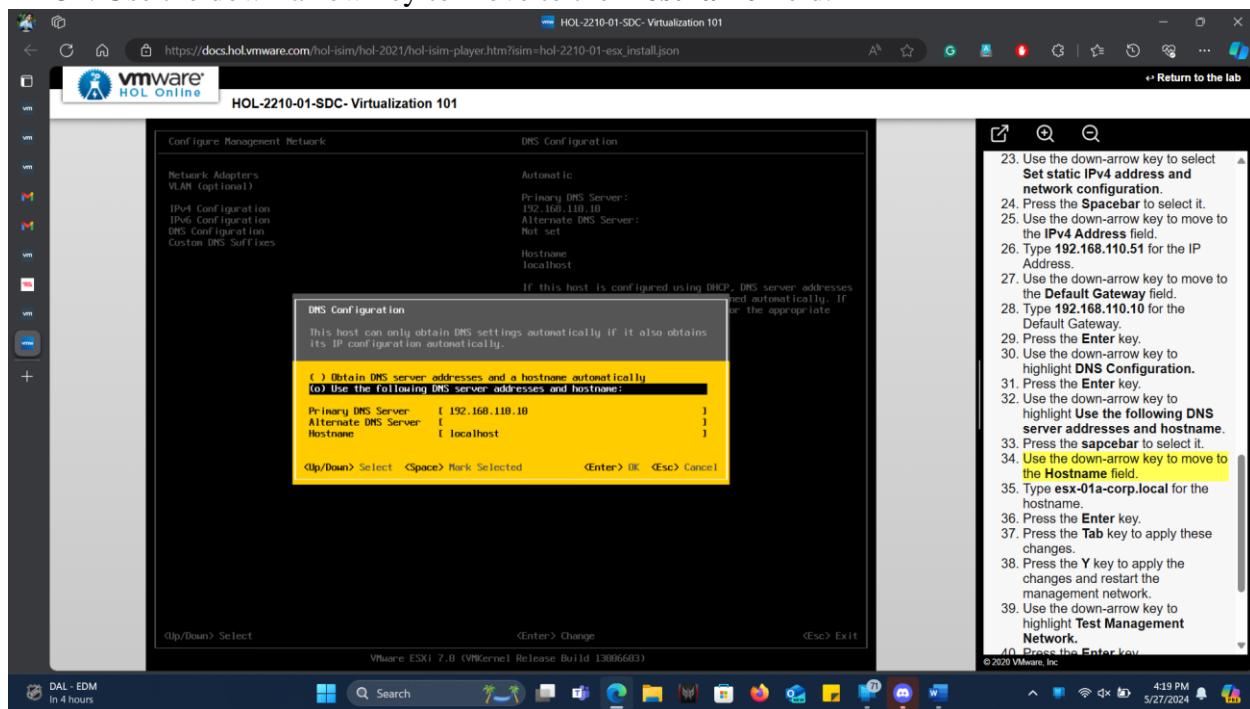
31. Press the **Enter** key.



32. Use the down-arrow key to highlight **Use the following DNS server addresses and hostname**.

33. Press the **Spacebar** to select it.

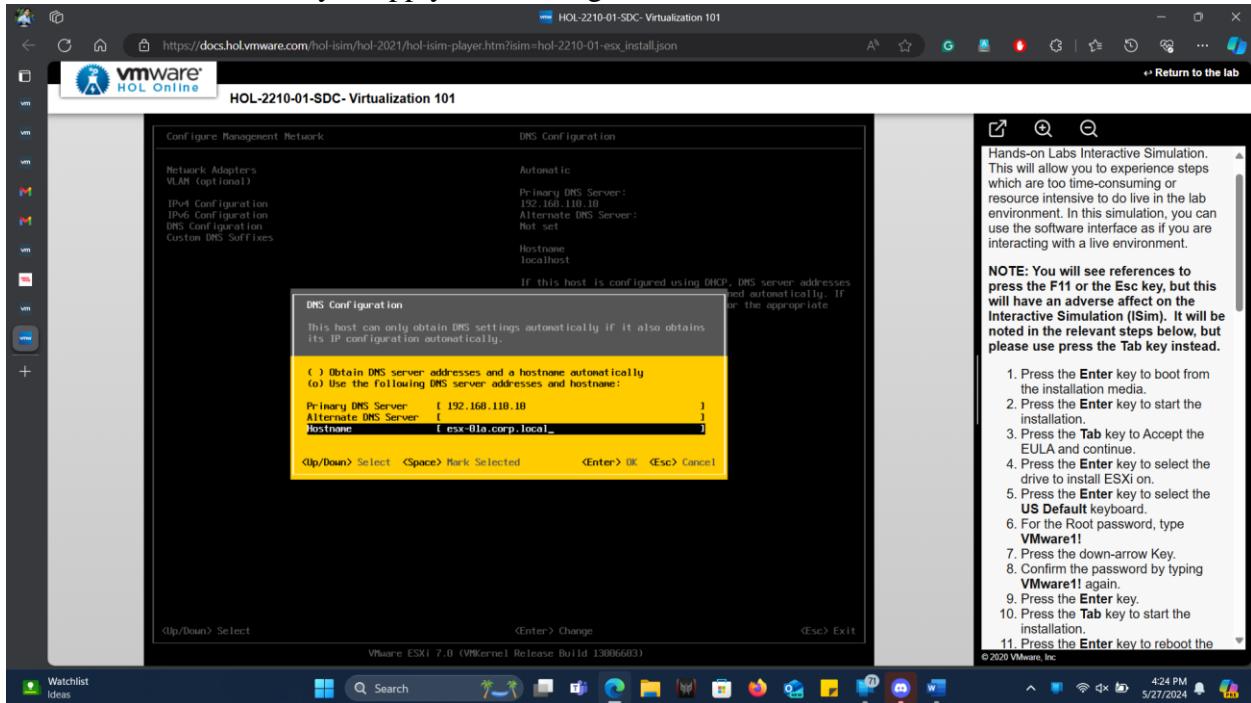
34. Use the down-arrow key to move to the **Hostname** field.



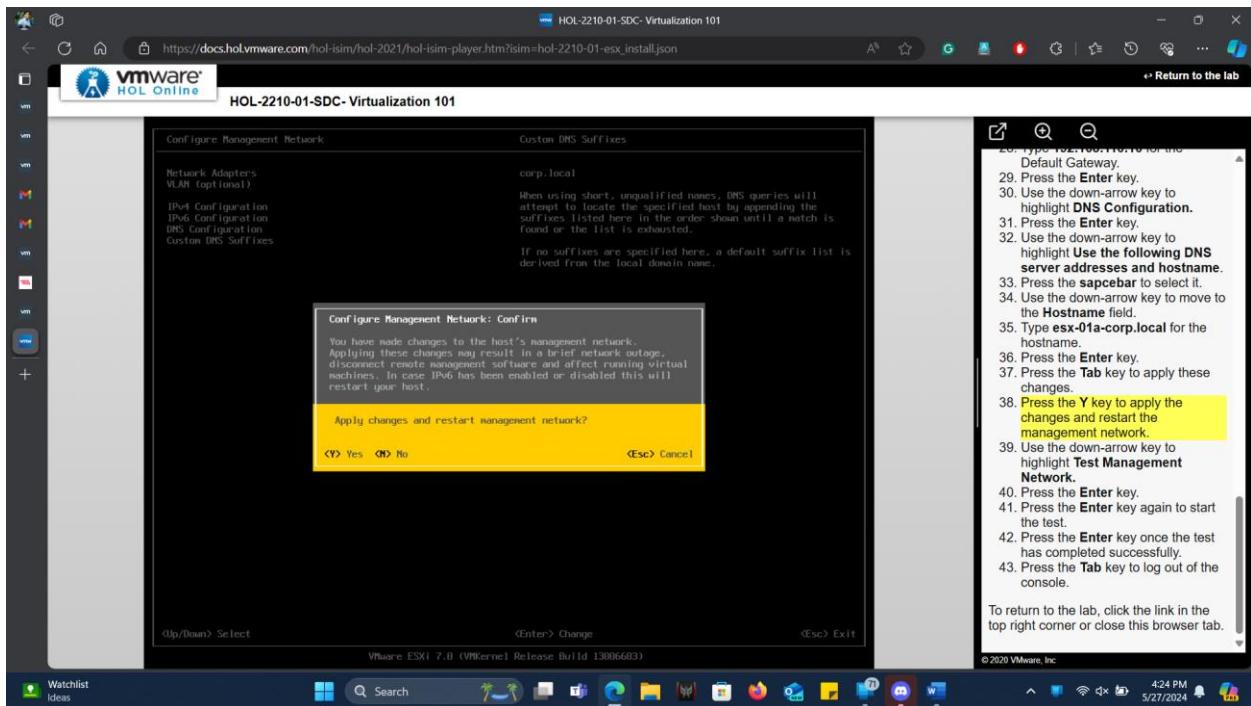
35. Type **esx-01a-corp.local** for the hostname.

36. Press the **Enter** key.

37. Press the **Tab** key to apply these changes.

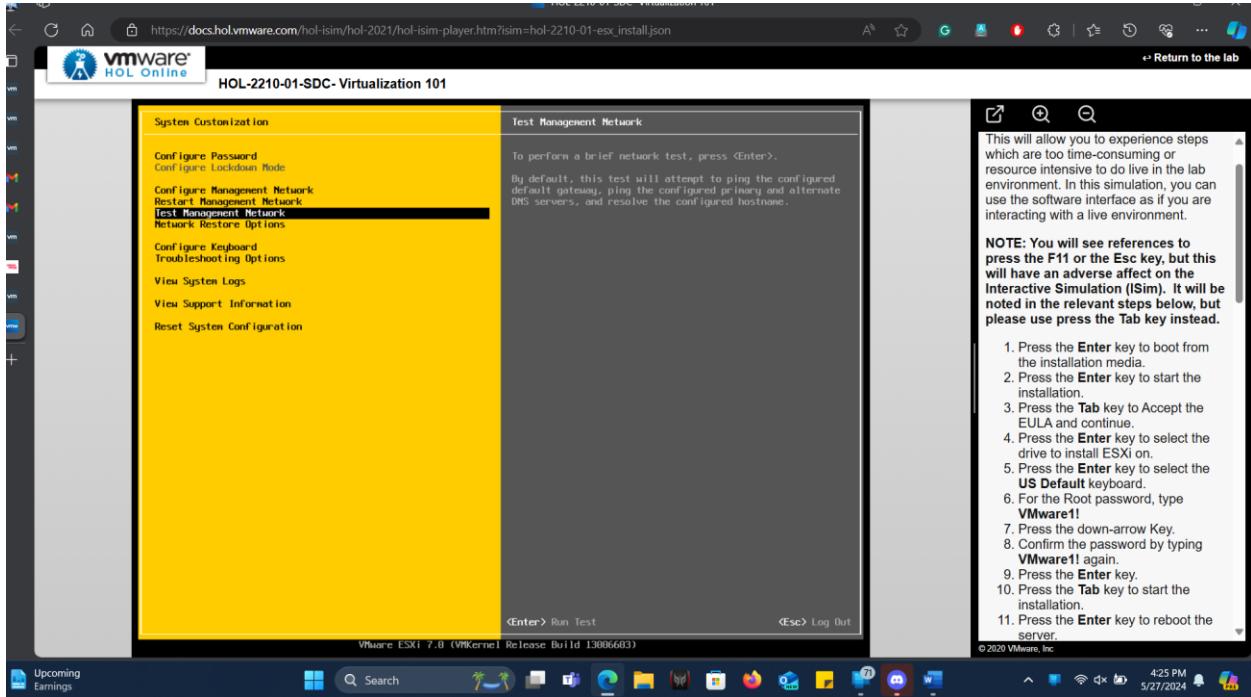


38. Press the **Y** key to apply the changes and restart the management network.

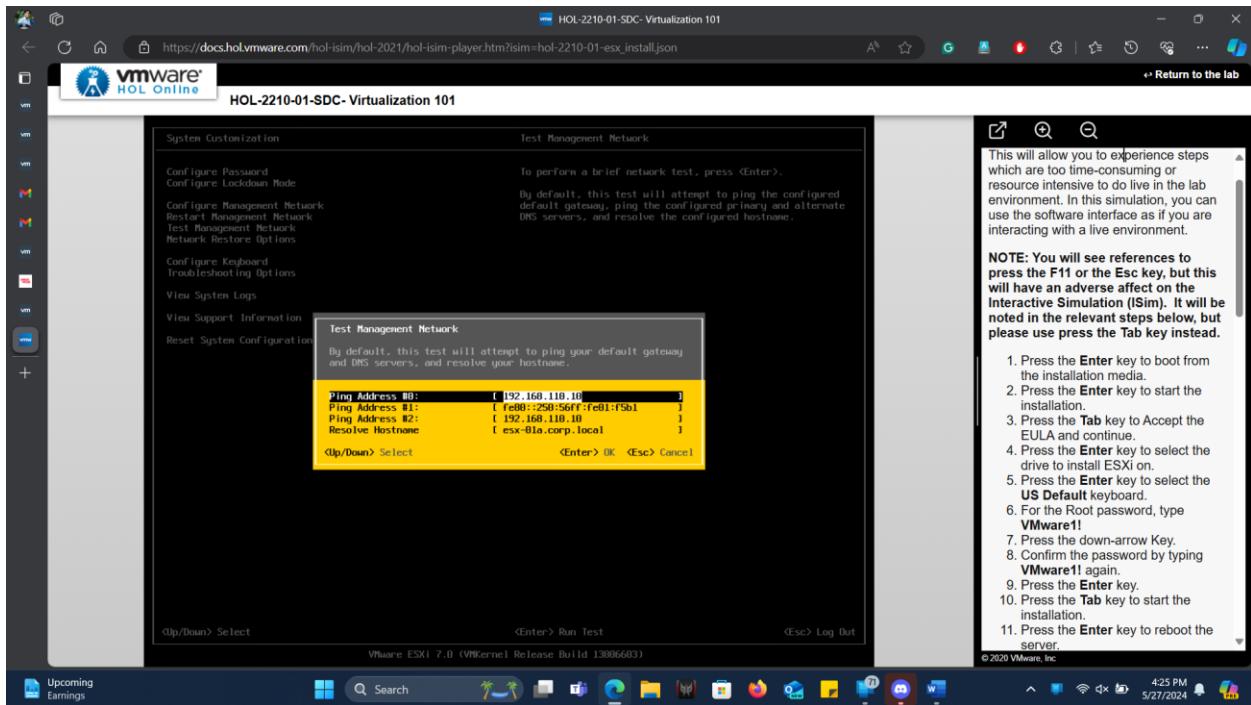


39. Use the down-arrow key to highlight **Test Management Network**.

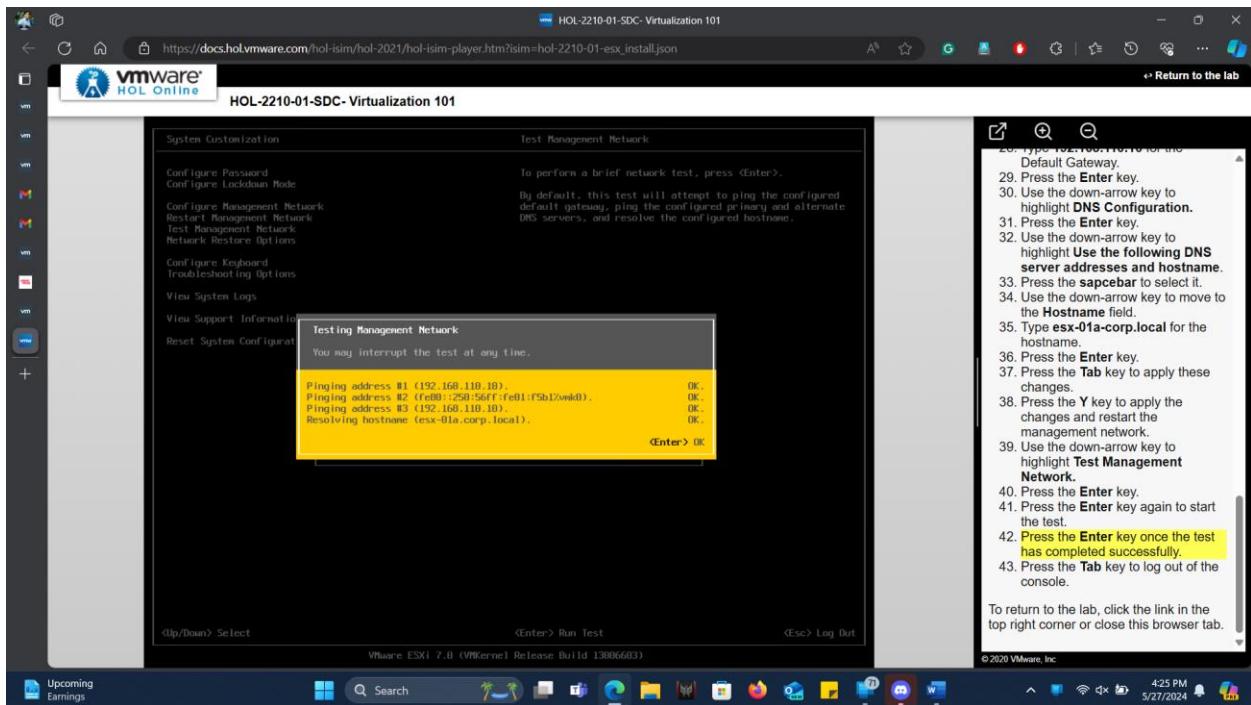
40. Press the **Enter** key.



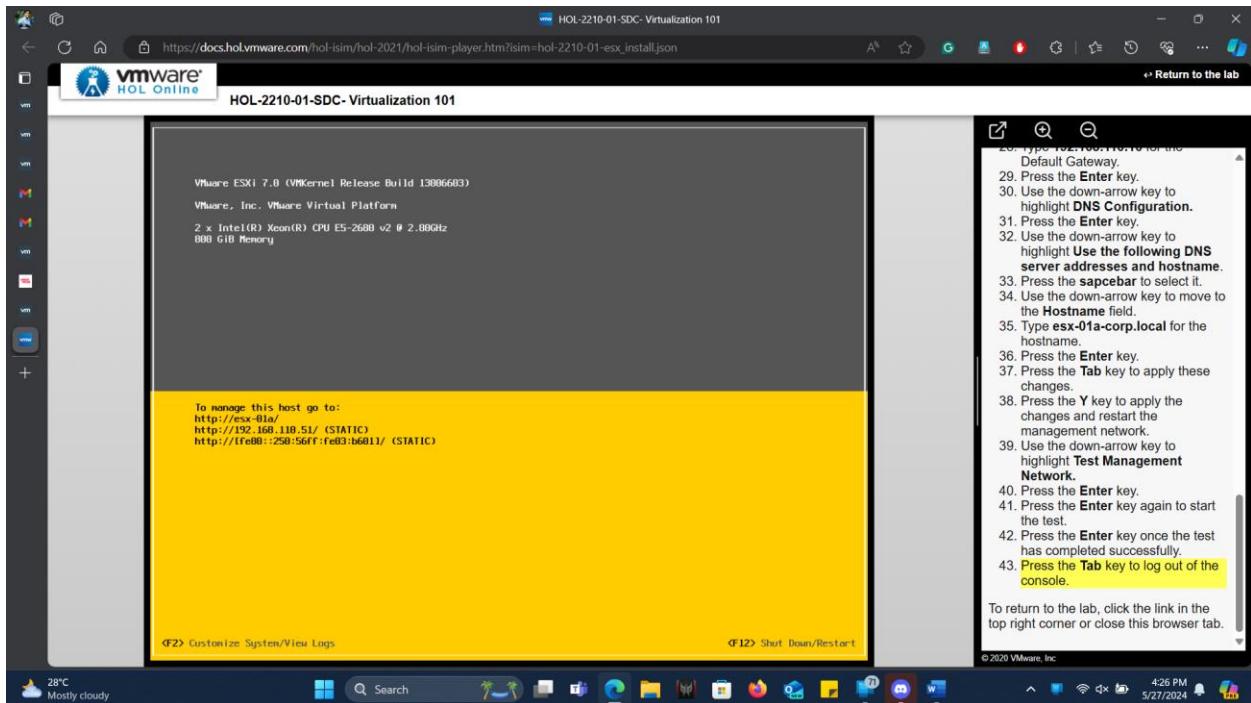
41. Press the **Enter** key again to start the test.



42. Press the **Enter** key once the test has completed successfully.



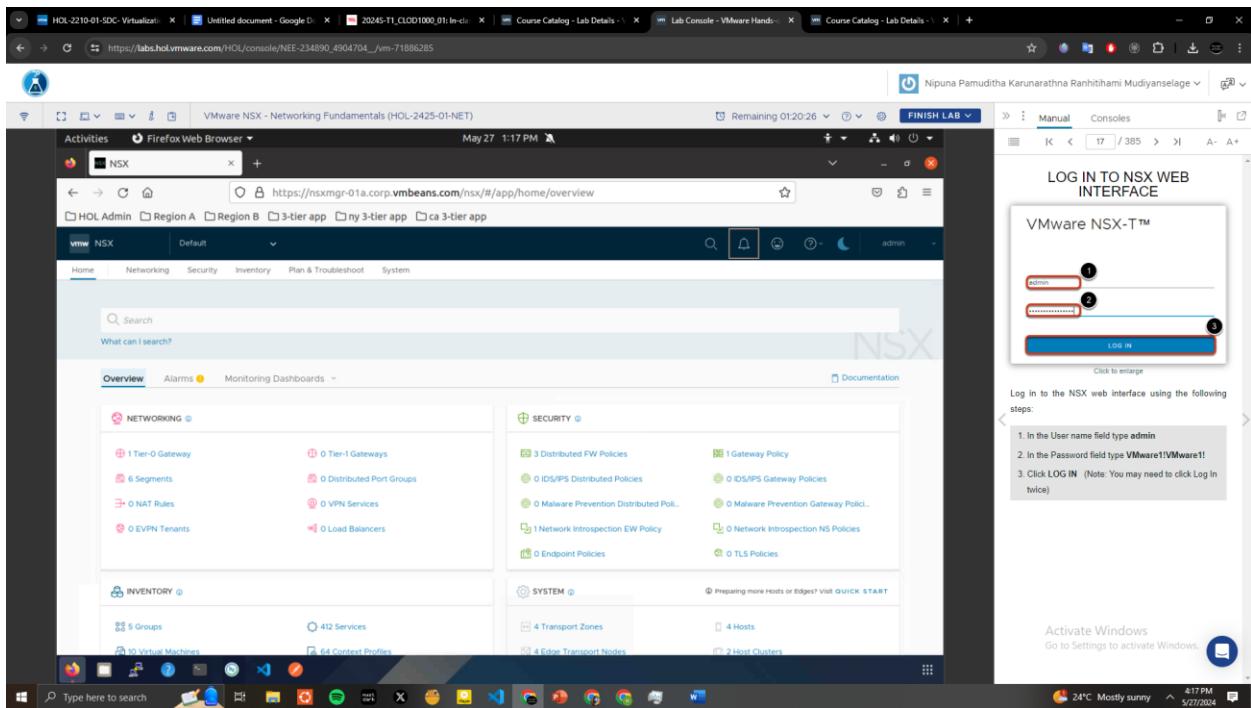
43. Press the **Tab** key to log out of the console.



# NSX-T Networking Fundamentals (HOL-2225-01-NET)

## Module 1

Log in to the NSX web interface using the following steps:



- Dark mode

VMware NSX - Networking Fundamentals (HOL-2425-01-NET) Remaining 01:18:42 FINISH LAB

Activities Firefox Web Browser May 27 1:19 PM

NSX https://nsxmgr-01a.corp.vmbeans.com/nsx#/app/home/overview

HOL Admin Region A Region B 3-tier app my 3-tier app ca 3-tier app

vmw NSX Default Home Networking Security Inventory Plan & Troubleshoot System

Search NSX

What can I search?

Overview Alarms Monitoring Dashboards Documentation

**NETWORKING**

- 1 Tier-0 Gateway
- 6 Segments
- 0 NAT Rules
- 0 EVPN Tenants
- 0 Tier-1 Gateways
- 0 Distributed Port Groups
- 0 VPN Services
- 0 Load Balancers

**SECURITY**

- 3 Distributed FW Policies
- 0 IDS/IPS Distributed Policies
- 0 Malware Prevention Distributed Policies
- 1 Network Introspection EW Policy
- 0 Endpoint Policies
- 1 Gateway Policy
- 0 IDS/IPS Gateway Policies
- 0 Malware Prevention Gateway Policies
- 0 Network Introspection NS Policies
- 0 TLS Policies

**INVENTORY**

- 5 Groups
- 10 Virtual Machines
- 412 Services
- 64 Context Profiles

**SYSTEM**

- 4 Transport Zones
- 4 Edge Transport Nodes
- 4 Hosts
- 2 Host Clusters

Type here to search

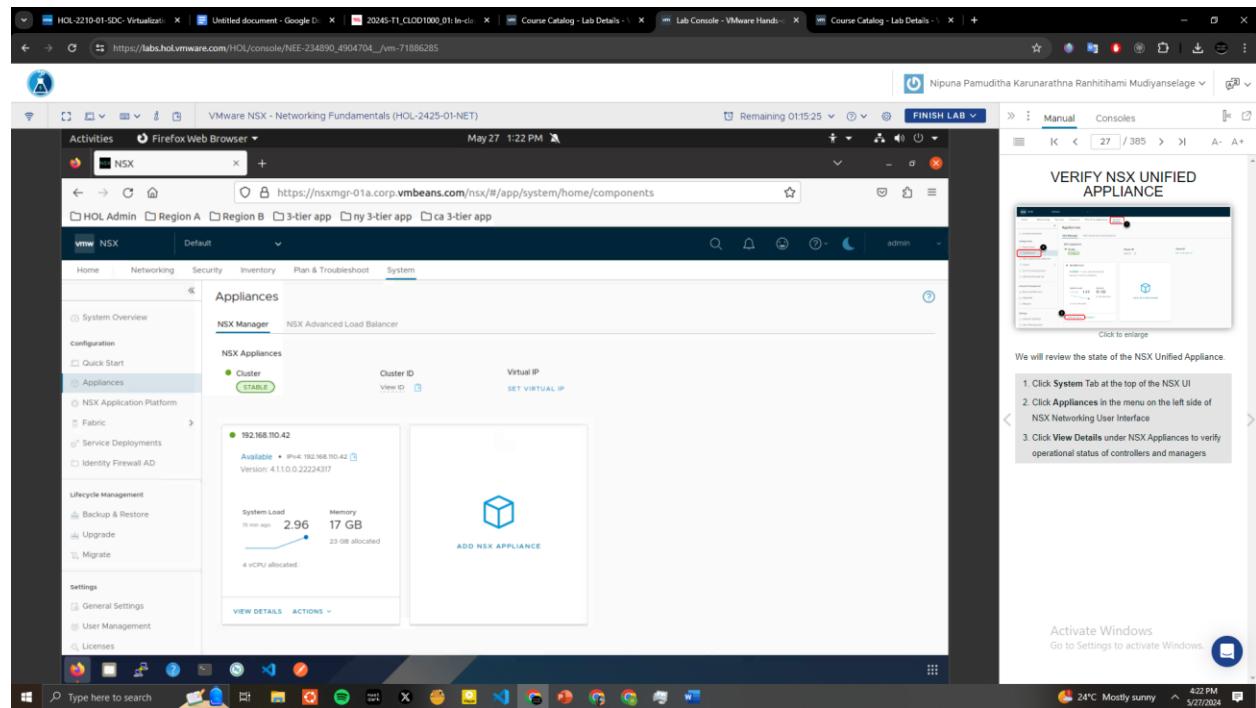
The screenshot shows the VMware NSX interface running in a Firefox browser window. The URL is https://nsxmgr-01a.corp.vmbeans.com/nsx#/app/home/overview. The interface has a dark theme with various sections: Networking (1 Tier-0 Gateway, 6 Segments, 0 NAT Rules, 0 EVPN Tenants), Security (3 Distributed FW Policies, 0 IDS/IPS Distributed Policies, 0 Malware Prevention Distributed Policies, 1 Network Introspection EW Policy, 0 Endpoint Policies, 1 Gateway Policy, 0 IDS/IPS Gateway Policies, 0 Malware Prevention Gateway Policies, 0 Network Introspection NS Policies, 0 TLS Policies), Inventory (5 Groups, 10 Virtual Machines, 412 Services, 64 Context Profiles), and System (4 Transport Zones, 4 Edge Transport Nodes, 4 Hosts, 2 Host Clusters). At the bottom, there's a taskbar with icons for various applications like File Explorer, Task View, and Edge.

## Module 2

- Lab 2

Click System Tab at the top of the NSX UI

Click Appliances in the menu on the left side of NSX Networking User Interface



Click View Details under NSX Appliances to verify operational status of controllers and managers

The screenshot shows the VMware NSX Networking Fundamentals interface. On the left, there's a navigation sidebar with options like Configuration, Appliances, NSX Application Platform, Lifecycle Management, and Settings. The main area displays system overview metrics such as System Load (4.68), Memory (17 GB), Storage (31 GB), and Uptime (0 days). Below these are detailed sections for Activity Summary, Operational Status, and Appliance Details. The Operational Status table includes rows for CLUSTER\_BOOT\_MANAGER, DATASTORE, CONTROLLER, MANAGER, HTTPS, MONITORING, OPS\_REPORTING, CM-INVENTORY, MESSAGING-MANAGER, SITE\_MANAGER, CORFU\_NONCONFIG, and REPO\_SYNC. All entries show an 'UP' status. The Appliance Details section shows Version 4.11.0.0.22224317, Deployment Type Manual, Transport Nodes 6, and a UUID. A callout box titled 'VERIFY NSX UNIFIED APPLIANCE' provides instructions: 1. Click System Tab at the top of the NSX UI, 2. Click Appliances in the menu on the left side of NSX Networking User Interface, 3. Click View Details under NSX Appliances to verify operational status of controllers and managers.

Verify that both controller and manager operational status is UP

This screenshot is similar to the one above but with specific items highlighted. The 'CONTROLLER' and 'MANAGER' entries in the Operational Status table are highlighted with yellow boxes. A callout box titled 'VERIFY APPLIANCE OPERATIONAL STATUS' contains the following steps: 1. Verify that both controller and manager operational status is UP, and 2. Close the Details window.

- Hosts tab

**CONCEPTS THAT MAKE UP THE NSX FABRIC (1)**

Fabric

- Hosts ←
- Nodes
- Profiles ←
- Transport Zones
- Compute Managers
- Settings

Click to enlarge

**Hosts Tab:** Where transport nodes (TN) are configured. TNs are hosts that have been prepared with the NSX software components, and permit the virtual machines running on those hosts access to NSX services. This includes overlay layer 2 networking (called Segments), distributed routing, and distributed firewall. TNs run the local control plane daemons and forwarding engines that provide the NSX data plane.

**Profiles Tab:** a transport node (TN) includes at least one virtual switch, responsible for forwarding traffic between logical and physical ports on the device. It is common for multiple transport nodes to share the exact same NSX virtual switch configuration. NSX defines an object called an uplink profile that acts as a template for the configuration of a virtual switch. Settings include teaming policies, active/standby uplinks, transport VLAN ID, and MTU settings.

- Profiles

**CONCEPTS THAT MAKE UP THE NSX FABRIC (1)**

Fabric

- Hosts ←
- Nodes
- Profiles ←
- Transport Zones
- Compute Managers
- Settings

Click to enlarge

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- Transport tab

- Expanded tabs

https://labs.holvmware.com/HOL/console/NET-234890\_4904704\_vm-71886285

Nipuna Pamuditha Karunarathna Ranhitihami Mudiyanselage

Remaining 01:05:27

FINISH LAB

Activities Firefox Web Browser May 27 1:32 PM

https://nsxmgr-01a.corp.vmbeans.com/nsx/#/app/system/home/nodes?p=dmlldz1mYWJyaW... 67%

HOL Admin Region A Region B 3-tier app my 3-tier app ca 3-tier app

VMware NSX Default

System Overview Configuration Quick Start Appliances NSX Application Platform Fabric Hosts Nodes Profiles Transport Zones Compute Managers Settings Service Deployments Identity Firewall AD Lifecycle Management Backup & Restore Upgrade Migrate General Settings

Edge Transport Nodes Edge Clusters Container Clusters

+ ADD EDGE NODE EDIT DELETE ACTIONS

ID	Deployment Type	Management IP	Host	Configuration State	NDX Version	N-VDS	Tunnels	TEP IP Addresses	Edge Cluster	Logical Routers	Node Status	Alarms	
edge-node-01	Virtual Mac...	192.168.10.31	esx-03a.cor...	Success	4.11.0.0.222243...	1	10	192.168.130.45.1...	EdgeCluster-01a	0	Up	2	
edge-node-02a	esx08..45e0	Virtual Mac...	192.168.10.32	esx-04a.cor...	Success	4.11.0.0.222243...	1	2	192.168.130.47.1...	EdgeCluster-01a	0	Up	2
edge-node-03a	393a..03d1	Virtual Mac...	192.168.10.33	esx-03a.cor...	Success	4.11.0.0.222243...	1	Not Available	192.168.130.49.1...	EdgeCluster-01a	0	Up	2
edge-node-04a	5d14..27e3	Virtual Mac...	192.168.10.34	esx-04a.cor...	Success	4.11.0.0.222243...	1	Not Available	192.168.130.51.1...	EdgeCluster-01a	0	Up	2

COLLUMNS REFRESH Last Updated: a few seconds ago

BACK 4/21 1:32 PM 1 - 4 of 4 Transport Nodes

Click to enlarge

**VERIFY EDGE TRANSPORT NODES**

1. On the left side of the NSX user interface, click Nodes.

2. Click Edge Transport Nodes.

3. You can see that there are 4 edge nodes.

4. Verify that the node status for these nodes are all Up.

Edge Transport Node

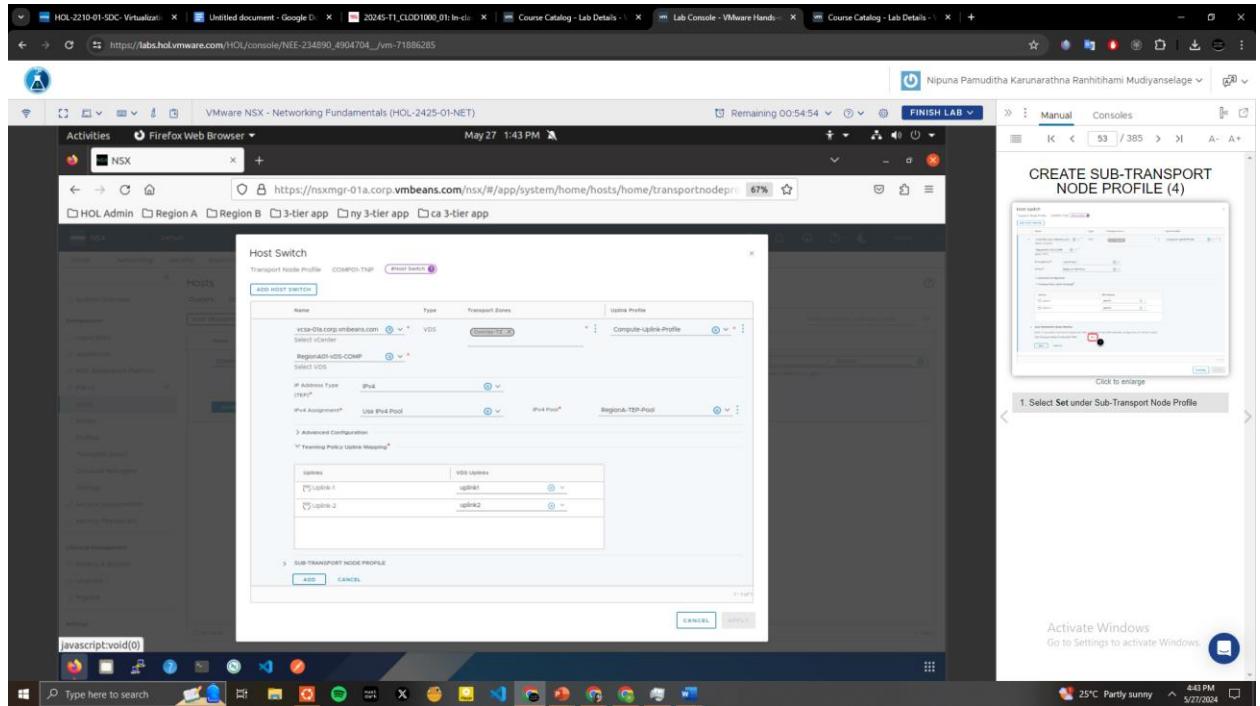
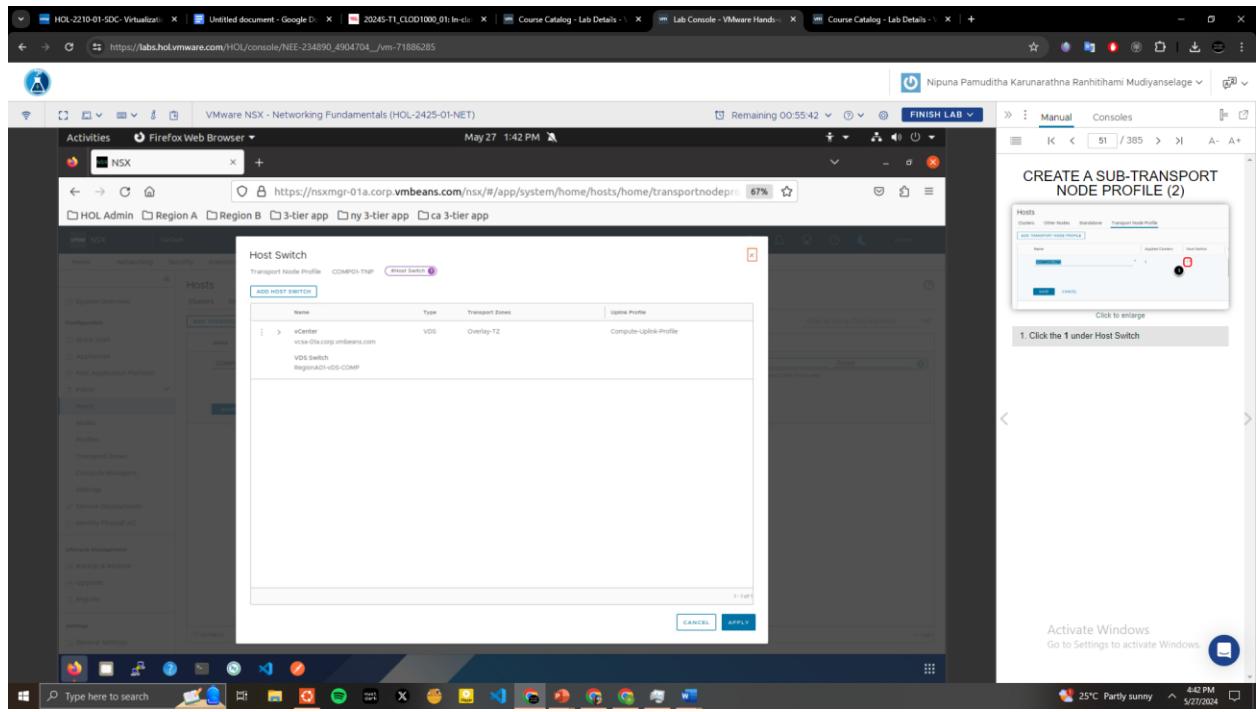
VMware NSX Edge nodes are service appliances dedicated to running centralized network services that cannot be distributed to the hypervisors. They can be instantiated as a bare metal appliance or in virtual machine form factor. They are grouped in one or several clusters, representing a pool of capacity.

It is important to remember that an Edge Node does not represent a service itself but just a pool of capacity that one or more services can consume.

For example, those services could be providing connectivity to networks that are external to NSX, could provide centralized services such as NAT, DHCP.

4:32 PM 24°C Mostly sunny 5/27/2024

## CREATE A SUB-TRANSPORT NODE PROFILE (1)



VMware NSX - Networking Fundamentals (HOL-2425-01-NET) May 27 1:48 PM FINISH LAB

Sub-Transport Node Profile

Name: COMPO1-SUB-TNP VDS: Select Uplink Profile: None

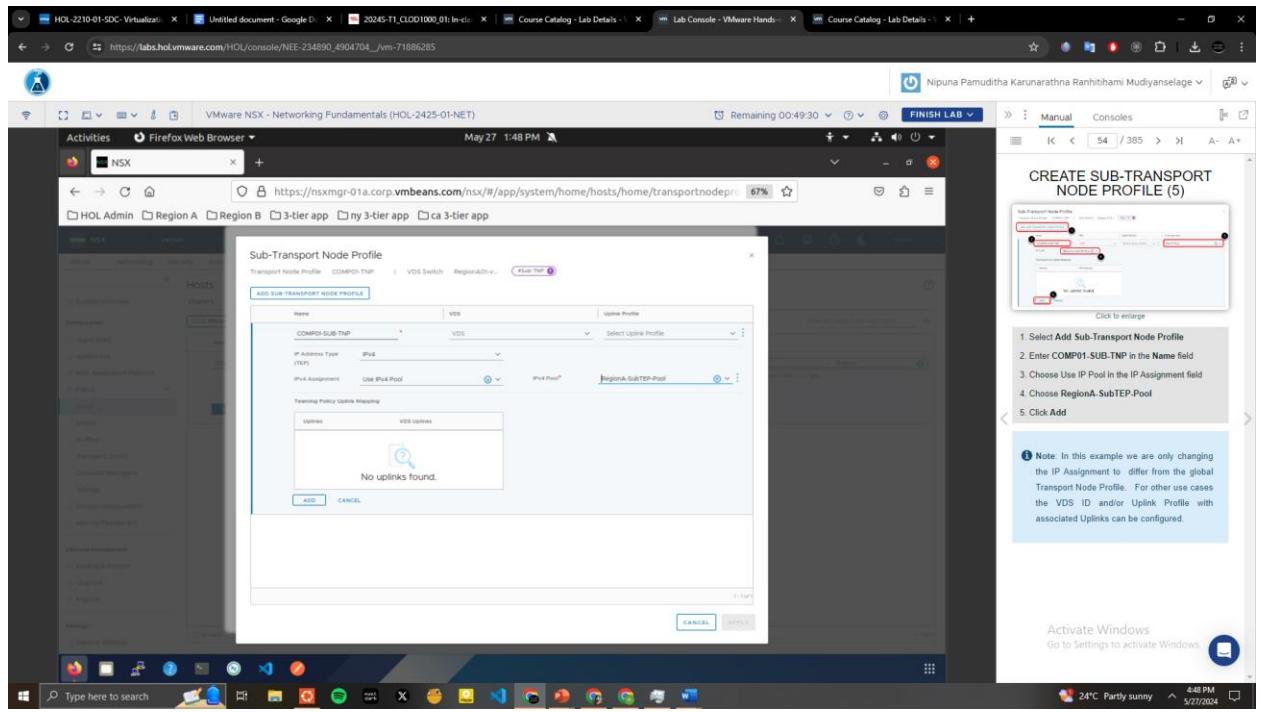
IP Address Type: IPv4 IPv4 Assignment: Use IPk Pool: RegionA-SubTNP-Pool

Teaming Policy Uplink Mapping: No uplinks found.

CREATE SUB-TRANSPORT NODE PROFILE (5)

1. Select Add Sub-Transport Node Profile  
2. Enter COMPO1-SUB-TNP in the Name field  
3. Choose Use IPk Pool in the IP Assignment field  
4. Choose RegionA-SubTNP-Pool  
5. Click Add

Note: In this example we are only changing the IP Assignment to differ from the global Transport Node Profile. For other use cases the VDS ID and/or Uplink Profile with associated Uplinks can be configured.



VMware NSX - Networking Fundamentals (HOL-2425-01-NET) May 27 1:50 PM FINISH LAB

Sub-Transport Node Profile

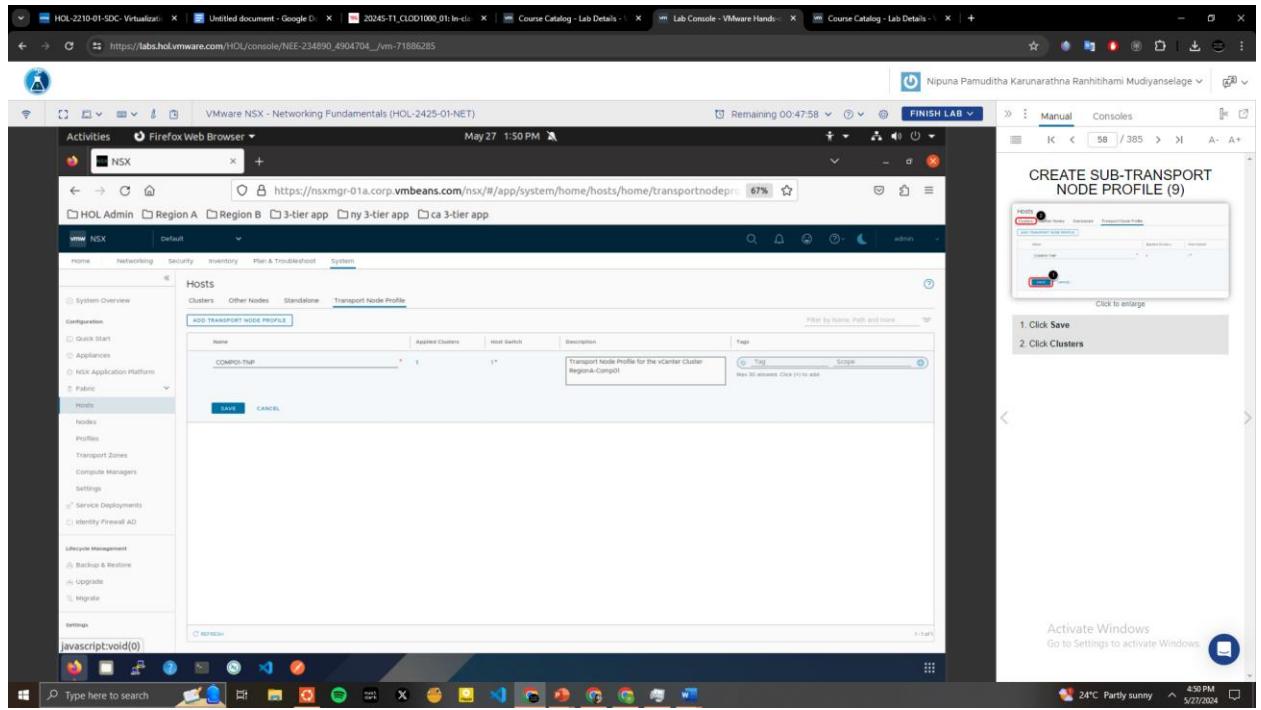
Name: COMPO1-SUB-TNP VDS: Select Uplink Profile: None

IP Address Type: IPv4 IPv4 Assignment: Use IPk Pool: RegionA-SubTNP-Pool

Teaming Policy Uplink Mapping: No uplinks found.

CREATE SUB-TRANSPORT NODE PROFILE (9)

1. Click Save  
2. Click Clusters



The screenshot shows a Firefox browser window titled "VMware NSX - Networking Fundamentals (HOL-2425-01-NET)". The URL is <https://nsxmgr-01a.corp.vmbeans.com/nsx/#app/system/home/hosts/home/transportnodeprofile>. The page displays a table for "Transport Node Profile" with one entry: "CORPORATE". A modal dialog at the top right says "TRANSPORTNODEPROFILE CREATED SUCCESSFULLY". On the right, a sidebar titled "CREATE SUB-TRANSPORT NODE PROFILE (9)" shows a step-by-step guide: "1. Click Save" and "2. Click Clusters". The status bar at the bottom indicates "Remaining 00:46:59".

## CREATE SUB-CLUSTER (1)

The screenshot shows a Firefox browser window titled "VMware NSX - Networking Fundamentals (HOL-2425-01-NET)". The URL is <https://nsxmgr-01a.corp.vmbeans.com/nsx/#app/system/home/hosts/clusters/nodes>. A modal dialog titled "Set Host Nodes" is open, listing two host nodes: "esxi-03a.corp.vmbeans.com" and "esxi-04a.corp.vmbeans.com". Both nodes have their checkboxes selected. A red box highlights the "APPLY" button. On the right, a sidebar titled "CREATE SUB-CLUSTER (3)" shows a step-by-step guide: "1. Select esxi-01a.corp.vmbeans.com (use checkbox)" and "2. Select Apply". The status bar at the bottom indicates "Remaining 00:41:56".

VMware NSX - Networking Fundamentals (HOL-2425-01-NET)

May 27 1:56 PM

Remaining 00:41:53

FINISH LAB

Nipuna Pamuditha Karunaratne Ranhitihami Mudiyanselage

CREATE SUB-CLUSTER (4)

Sub-Cluster

Cluster: RegionA01

Add Sub-Cluster

Sub-Cluster Name: COMP01-SUB-CLUSTER

Nodes: None

Click to enlarge

1. Click Save  
2. Click Close

Activate Windows

Go to Settings to activate Windows.

24°C Partly sunny 4:56 PM 5/27/2024

VMware NSX - Networking Fundamentals (HOL-2425-01-NET)

May 27 2:02 PM

Remaining 00:35:49

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Nipuna Pamuditha Karunaratne Ranhitihami Mudiyanselage

ASSIGN SUB-TNP TO SUB-CLUSTER (2)

NSX Installation

Apply selected Node profile to the Selected Cluster and Sub-cluster. NSX will be installed with the deployment configuration defined in Transport Node profile.

Transport Node profile: COMP01-TNP

Sub-Cluster Nodes: None

Sub-Cluster Nodes: Other Nodes

RegionA01-VDS-COMP

Click to enlarge

DO NOT SAVE CONFIGURATION This is only an exercise to walkthrough how a Sub-Cluster is defined

1. Click the Arrow to expand COMP01-SUB-CLUSTER  
2. Select COMP01-SUB-TNP from the dropdown  
3. Click CANCEL \*\* DO NOT SAVE \*\*

Activate Windows

Go to Settings to activate Windows.

24°C Partly sunny 5:02 PM 5/27/2024

VMware NSX - Networking Fundamentals (HOL-2425-01-NET) May 27 2:05 PM FINISH LAB

Edge Transport Nodes

**Edit Edge Transport Node - edgenode-01a**

- Name\*: **edgenode-01a**
- Description: **[blank]**
- Transport Zone\*: **Overlay-TZ / VLAN-TZ** (dropdown menu)
  - Overlay-TZ
  - VLAN-TZ
- Uplink Profile\*: **Edge-Uplink-Profil**
- IP Address Type (TCP/IPv\*) **IPv4**
- IPv4 Assignment **Use IP Pool**
- IPv4 Pool\* **RegionA-TEP-Pool**
- Teaming Policy Uplink Mapping

  - Uplinks: **DPOK Fastpath Interfaces**
  - PT.Uplink-1: **Edge-Trunk-A (Distributed Virtual Port)**
  - PT.Uplink-2: **Edge-Trunk-B (Distributed Virtual Port)**

CANCEL SAVE

VERIFY EDGE TRANSPORT NODE CONFIGURATION

**Edit Edge Transport Node - edgenode-01a**

- Name\*: **edgenode-01a**
- Description: **[blank]**
- Transport Zone\*: **Overlay-TZ / VLAN-TZ** (dropdown menu)
  - Overlay-TZ
  - VLAN-TZ
- Uplink Profile\*: **Edge-Uplink-Profil**
- IP Address Type (TCP/IPv\*) **IPv4**
- IPv4 Assignment **Use IP Pool**
- IPv4 Pool\* **RegionA-TEP-Pool**
- Teaming Policy Uplink Mapping

  - Uplinks: **DPOK Fastpath Interfaces**
  - PT.Uplink-1: **Edge-Trunk-A (Distributed Virtual Port)**
  - PT.Uplink-2: **Edge-Trunk-B (Distributed Virtual Port)**

CANCEL SAVE

Click to enlarge

Observe the following details in the Edit Edge Transport Node dialog:

- Name: **edgenode-01a**
- Description: **[blank]**
- Transport Zones (Selected): **Overlay-TZ, VLAN-TZ**

One transport zone will be used for route peering with the physical network (VLAN-TZ), while the other transport zone will be used for overlay network services (Overlay-TZ). Go to settings to activate Windows.

24°C Partly sunny 5:05 PM 27/05/2024

VMware NSX - Networking Fundamentals (HOL-2425-01-NET) May 27 2:06 PM FINISH LAB

Edge Transport Nodes

**Edit Edge Transport Node - edgenode-01a**

- Name\*: **edgenode-01a**
- Description: **[blank]**
- Transport Zone\*: **Overlay-TZ / VLAN-TZ** (dropdown menu)
  - Overlay-TZ
  - VLAN-TZ
- Uplink Profile\*: **Edge-Uplink-Profil**
- IP Address Type (TCP/IPv\*) **IPv4**
- IPv4 Assignment **Use IP Pool**
- IPv4 Pool\* **RegionA-TEP-Pool**
- Teaming Policy Uplink Mapping

  - Uplinks: **DPOK Fastpath Interfaces**
  - PT.Uplink-1: **Edge-Trunk-A (Distributed Virtual Port)**
  - PT.Uplink-2: **Edge-Trunk-B (Distributed Virtual Port)**

CANCEL SAVE

VERIFY EDGE TRANSPORT NODE CONFIGURATION

**Edit Edge Transport Node - edgenode-01a**

- Name\*: **edgenode-01a**
- Description: **[blank]**
- Transport Zone\*: **Overlay-TZ / VLAN-TZ** (dropdown menu)
  - Overlay-TZ
  - VLAN-TZ
- Uplink Profile\*: **Edge-Uplink-Profil**
- IP Address Type (TCP/IPv\*) **IPv4**
- IPv4 Assignment **Use IP Pool**
- IPv4 Pool\* **RegionA-TEP-Pool**
- Teaming Policy Uplink Mapping

  - Uplinks: **DPOK Fastpath Interfaces**
  - PT.Uplink-1: **Edge-Trunk-A (Distributed Virtual Port)**
  - PT.Uplink-2: **Edge-Trunk-B (Distributed Virtual Port)**

CANCEL SAVE

Click to enlarge

1. Scroll down to view the NSX host switch configuration

2. Observe the following details:

- Uplink Profile: **Edge-Uplink-Profil**
- IP Assignment: **Use IP Pool**
- IP Pool: **RegionA-TEP-Pool**

3. Teaming Policy Uplink Mapping : Uplink-1 - Edge-Trunk A / Uplink-2 - Edge-Trunk B

When a TEP (Tunnel Endpoint) is provisioned on the Overlay-TZ transport zone, it will assign an IP address from the RegionA-TEP-Pool range of IP addresses.

4. Click CANCEL to return to the list of Edges

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Remaining 00:30:59

FINISH LAB

VERIFY EDGE CLUSTER CONFIGURATION

Edit Edge Cluster - EdgeCluster-01a

Name\*: EdgeCluster-01a

Description:

Edge Cluster Profile: nss-default-edge-high-availability-profile

Transport Nodes

Member Type: Edge Node

Available (0) Selected (2)

edgenode-02a edgenode-02b

CANCEL SAVE

Click to enlarge

Observe the following details in the Edit Edge Cluster dialog:

1. Observe the Following
  - Name: EdgeCluster-01a
  - Edge Cluster Profile: nss-default-edge-high-availability-profile
2. Transport Nodes (Selected): edgenode-02a, edgenode-02b
3. Click CANCEL to return to the list of Edge Clusters

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## CREATE A SECOND EDGE CLUSTER

Nipuna Pamuditha Karunarathna Ranhitthami Mudiyanselage

Remaining 00:29:46

FINISH LAB

CONTINUE CREATION OF SECOND EDGE CLUSTER

Add Edge Cluster

Name\*: EdgeCluster-02a

Description:

Edge Cluster Profile: nss-default-edge-high-availability-profile

Transport Nodes

Member Type: Edge Node

Available (2) Selected (0)

edgenode-03a edgenode-04a

CANCEL ADD

Click to enlarge

1. Input the following parameters

- Name: EdgeCluster-02a
- Edge Cluster Profile:  
nss-default-edge-high-availability-profile

2. Select the checkbox beside Available transport nodes

3. Click the arrow to move the edgenode-03a and edgenode-04a nodes to the Selected column on the right. Private Windows

4. Click Add to complete the edge cluster creation

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