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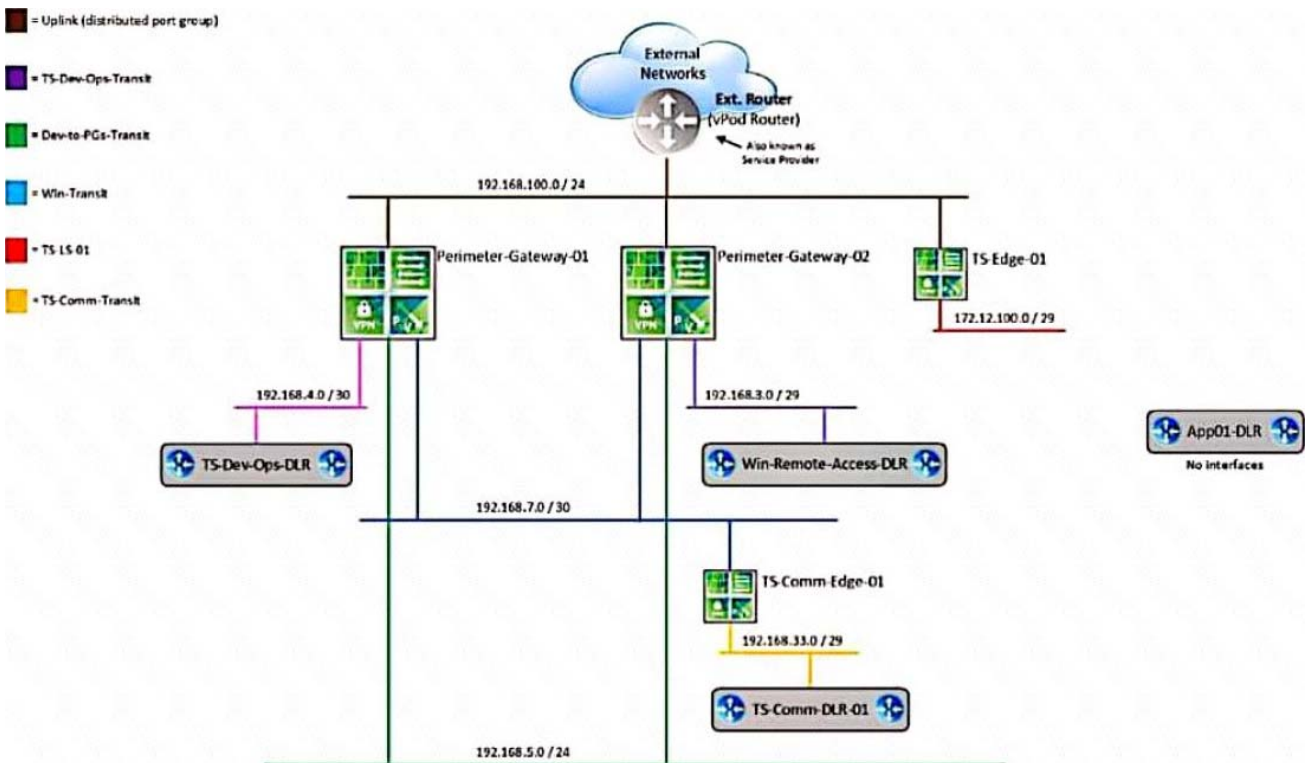


Exam : **3V0-643**

Title : VMware Certified Advanced
Professional 6 - Network
Virtualization Deployment
Exam

Version : DEMO

1. Topic 1, Main Questions



Questions HOL LAB Modules and Pages for practice

1

<http://docs.hol.vmware.com/hol-isim/HOL-2019/hol-1903-01-nsxinstall-p1.htm>

HOL-1903-01 Page 16 or you can directly Open a NSX manager in the lab and edit the existing settings

bOpen PSC and NSX manager in HOL-1903-01 and look for NTP Server

load cation

cExport existing vDS config and Import back the config for practice in

HOL-1903-01

dNo Lab Module available

2

<http://docs.hol.vmware.com/hol-isim/HOL-2019/hol-1903-01-nsxinstall-p2.htm>

and LAB - HOL 1903-01 Page 26-36

3LAB - HOL 1903-01 Module 2 - Page 37-38

4LAB - HOL 1903-01 Module 4 – Practice and understand whole module Bridging and other questions 7, 8, 9 and LAB - HOL-1925-02 Module 1

5LAB - HOL 1903-01 Module 4 - shows how to deploy NSX Edge, you can also deploy Distributed logical router DLR in the same way the lab.

6LAB - HOL 1903-01 Module 3 – Practice and understand the whole module, it will be use full for other question like 20 and 22

7LAB - HOL 1903-01 Module 4 – Practice and understand whole module Bridging and other questions 7, 8, 9

8LAB - HOL 1903-01 Module 4 – Practice and understand whole module Bridging and other questions 7, 8, 9

9LAB - HOL 1903-01 Module 4 – Practice and understand whole module Bridging and other questions 7,

8, 9

10LAB - HOL-1903-02 Module 1 and 2

11LAB - HOL-1903-02 Module 1 and 2

12LAB - HOL-1903-02 directly follow the steps in this document for practice

13LAB - HOL 1903-01 - open an NSX manager in LAB and directly follow the steps in this document.

14LAB - HOL 1903-01 - open postman in the lab and directly follow the steps in this document.

15LAB - HOL 1903-01 - directly follow the steps in this document for practice.

16LAB - HOL 1903-01 - directly follow the steps in this document for practice.

17LAB - HOL-1925-02 Module 1

18LAB - HOL-1925-02 Module 1

19 LAB - HOL-1925-02 - directly follow the steps in this document for practice.

20LAB - HOL 1903-01 Module 3 – Practice and understand the whole module.

21No Lab Module available

22LAB - HOL 1903-01 Module 3 – Practice and understand the whole module.

23LAB - HOL 1903-01 - open postman in the lab and directly follow the steps in this document.

(Exam Topic 1)

Two administrators (John and Chris) share admin responsibilities for an NSX deployment that is leveraging Centralized CLI as part of their management. Security requirements prohibit use of shared admin accounts in Site A.

Requirements:

NSX Manager: nsxmgr-01a.crop.local

New administrator accounts: "John" and "Chris"

Default password: VMware1!

 Create accounts for John and Chris.

 Use one of the newly created accounts to display all clusters enabled for the distributed firewall.

 Use Putty's "Copy All to Clipboard" feature to paste the command and output to a text file dfw-NEW.txt on the ControlCenter desktop.

NOTE:

Screenshot is shown on how to use Putty's Copy all to Clipboard feature.

HOL LAB for Practice:

See the explanation part for complete solution.

Answer:

SOLUTION:

13:(1) select vcenter - a. select datacenter A and click right mouse button select administrator. select user and groups click on + sign. select user tab enter user name john password VMware1!. click ok . do same for chris.

(2) select datacenter A. select manage tab. select permission. click + Sign. select Read Only from Assign Role. select All Privileges click on Add. select John and chris.checked Propagate to children and click on OK.

(3) go NsX Manager. select Nsx Manage-a. select manage select user from tab. click + sign. select identity user. check specify vcenter user. enter user name john@vsphere.local click next. select role Nsx Administrator. click finish. do same for chris. but use chris@vsphere.local and assign role of NsX administrator click finish.

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Enable

VMware1!

Conf t

User john password plaintext VMware1!

User chris password plaintext VMWare1!

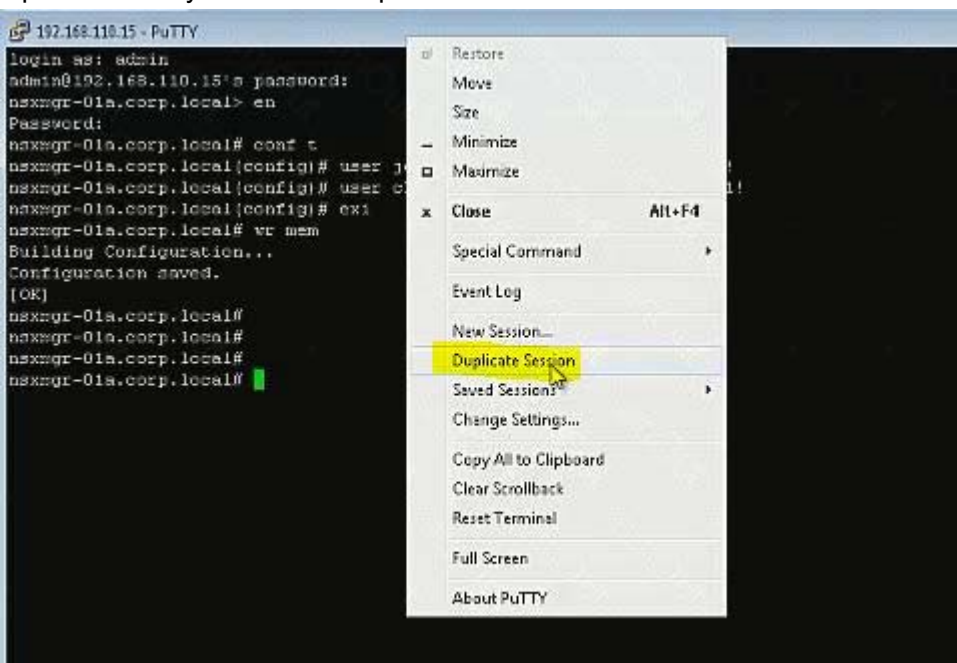
Exit

Write memory

```

192.168.110.15 - PuTTY
login as: admin
admin@192.168.110.15's password:
nsxmgr-01a.corp.local> en
Password:
nsxmgr-01a.corp.local# conf t
nsxmgr-01a.corp.local(config)# user john password plaintext VMware1!
nsxmgr-01a.corp.local(config)# user chris password plaintext VMWare1!
nsxmgr-01a.corp.local(config)# exi
nsxmgr-01a.corp.local# wr mem
Building Configuration...
Configuration saved.
[OK]
nsxmgr-01a.corp.local#
nsxmgr-01a.corp.local#
nsxmgr-01a.corp.local#
nsxmgr-01a.corp.local#
    
```

Open new Putty session or Duplicate Session:

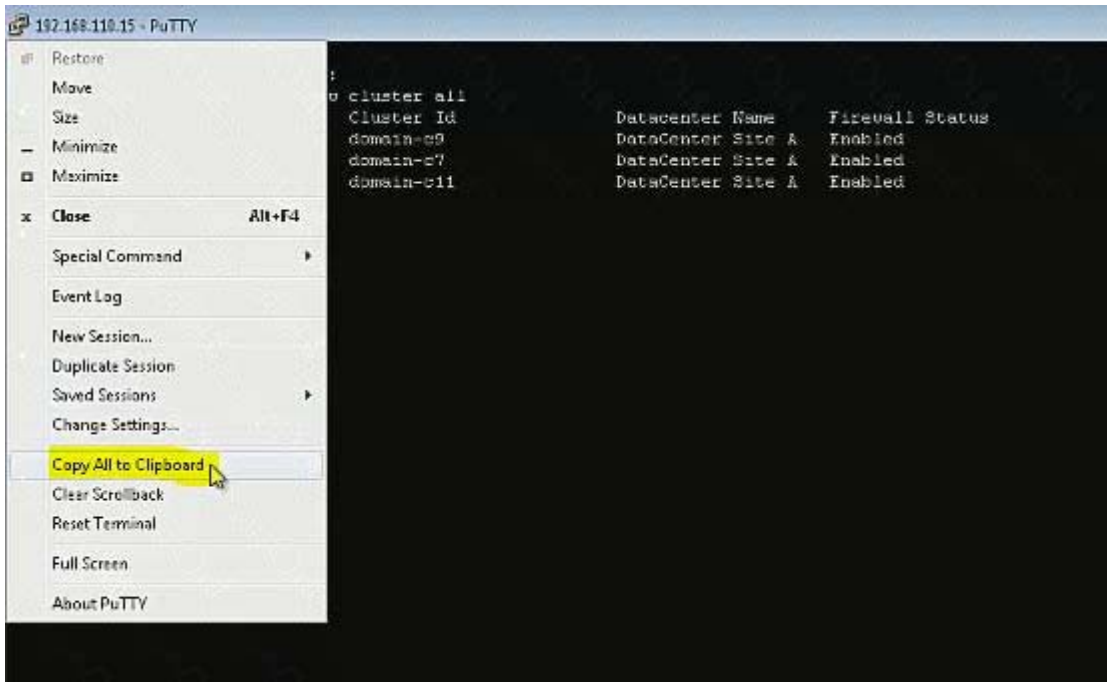


john

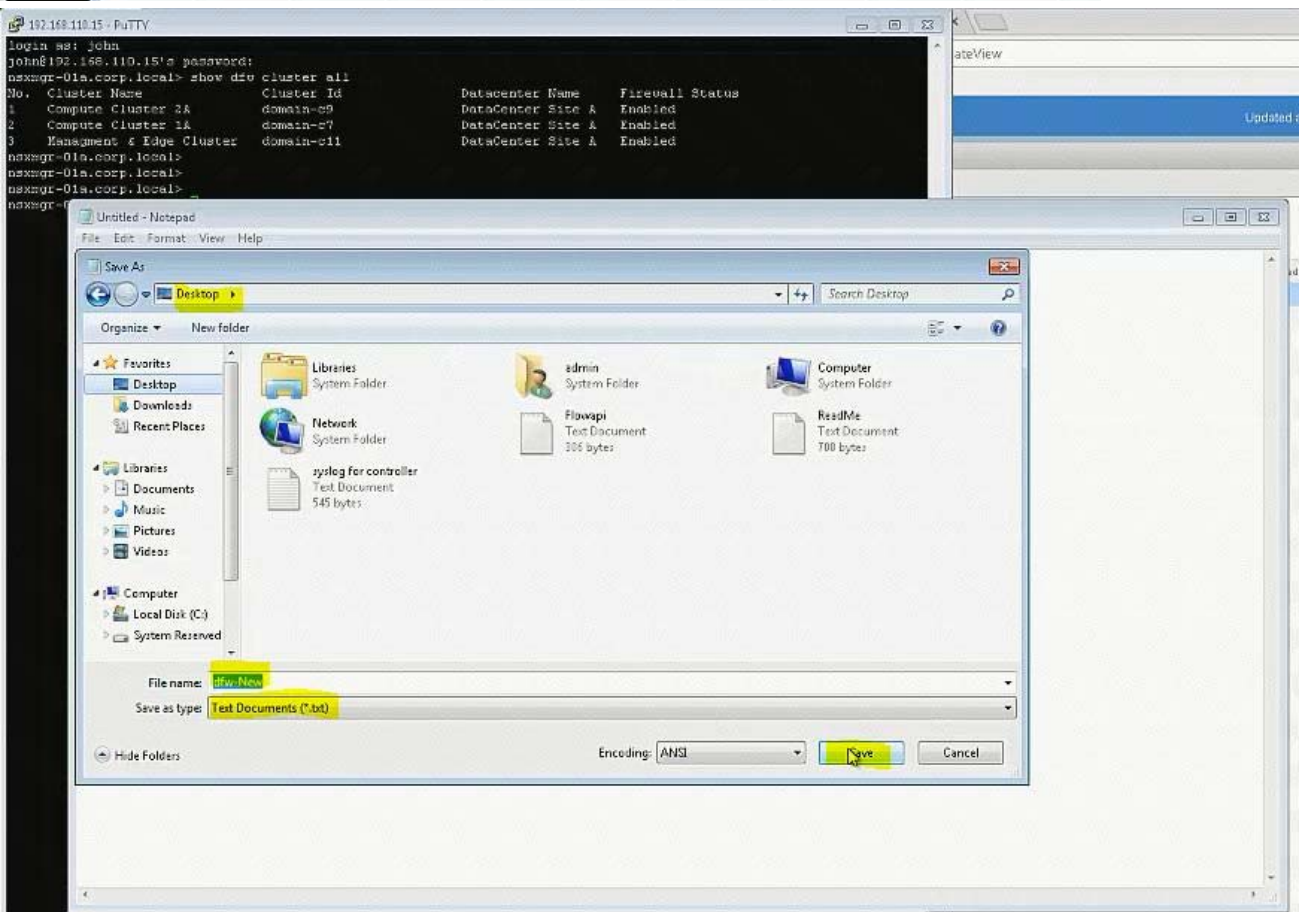
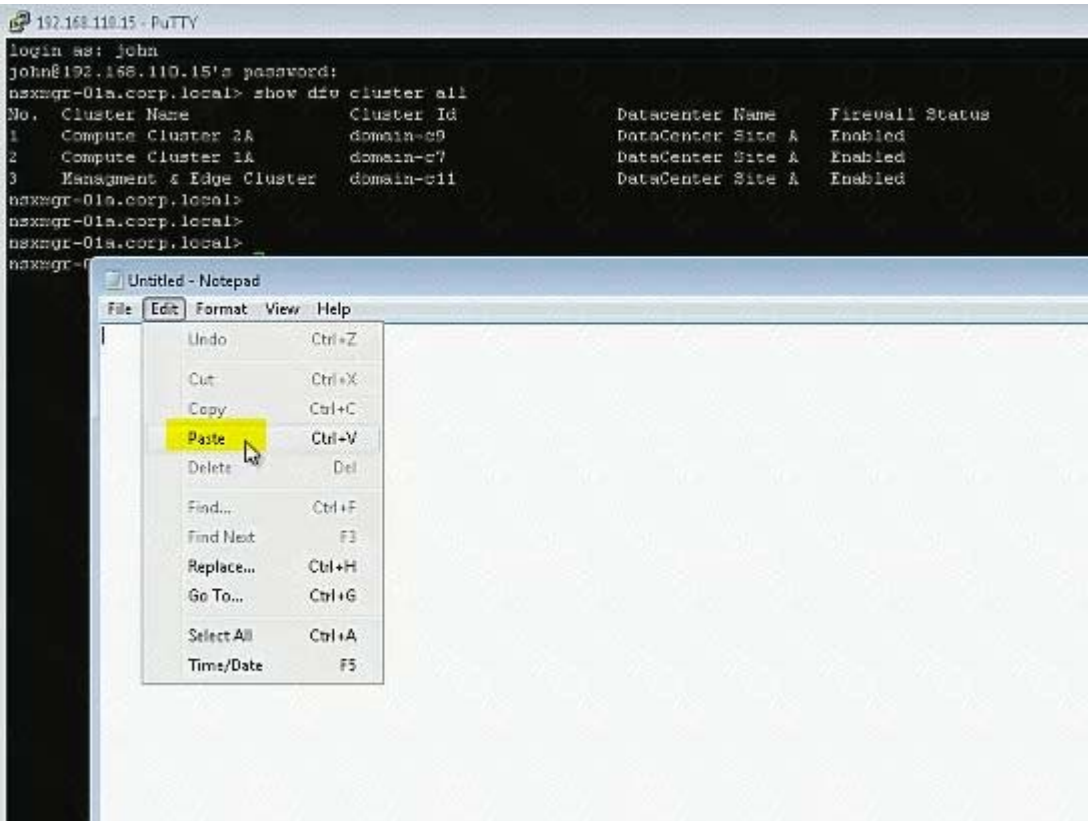
VMware1!

Show dfw cluster all

```
192.168.110.15 - PuTTY
login as: john
john@192.168.110.15's password:
nsxmgr-01a.corp.local> show dfc cluster all
No. Cluster Name Cluster Id Datacenter Name Firewall Status
1 Compute Cluster 2A domain-c9 DataCenter Site A Enabled
2 Compute Cluster 1A domain-c7 DataCenter Site A Enabled
3 Management & Edge Cluster domain-c11 DataCenter Site A Enabled
nsxmgr-01a.corp.local>
nsxmgr-01a.corp.local>
nsxmgr-01a.corp.local>
nsxmgr-01a.corp.local>
```



Ctrl+V don't work in exam.



```

192.168.110.15 - PuTTY
login as: john
john@192.168.110.15's password:
nsmgr-01a.corp.local> show dfw cluster all
No. Cluster Name Cluster Id Datacenter Name Firewall Status
1 Compute Cluster 2A domain-c9 DataCenter Site A Enabled
2 Compute Cluster 1A domain-c7 DataCenter Site A Enabled
3 Management & Edge Cluster domain-c11 DataCenter Site A Enabled
nsmgr-01a.corp.local>
nsmgr-01a.corp.local>
nsmgr-01a.corp.local>

dfw-New- Notepad
File Edit Format View Help
login as: john
john@192.168.110.15's password:
nsmgr-01a.corp.local> show dfw cluster all
No. Cluster Name Cluster Id Datacenter Name Firewall Status
1 Compute Cluster 2A domain-c9 DataCenter Site A Enabled
2 Compute Cluster 1A domain-c7 DataCenter Site A Enabled
3 Management & Edge Cluster domain-c11 DataCenter Site A Enabled
nsmgr-01a.corp.local>
nsmgr-01a.corp.local>
nsmgr-01a.corp.local>

```

2. (Exam Topic 1)

Management has approved an expansion of the virtual infrastructure. You have been tasked to prepare Cross vCenter configuration with the second vCenter Server. Another administrator has provided a pre-configured vDS configuration file located on the Control Center Server. All identifiers must be maintained.

Requirements:

vCenterB server: vcbsa-01b.corp.local

Credentials: administrator@vsphere.local / VMware1!

vCenterB VAMI Credentials: root / VMware1!

Cluster: Computer Cluster 1B

ESXI Hosts: esx-01b.corp.local, esx-02.corp.local

Platform service controller: psc-01a.corp.local(192.168.110.9)

NSX Manager: nsmgr-01b.corp.local (192.168.210.15)

Credentials: admin / VMware1!

Time Zone: US/Pacific

*Configure nsmgr-01b.corp.local for vCenterB and psc-01a.corp.local

*Ensure nsxmgr-01b.corp.local uses the same NTP server as psc-01a.corp.local with a US/Pacific TimeZone.

*Import the new vDS configuration vds-site-b-Compute-New.zip

All identifiers must be maintained.

*Assign the remaining two used vmnics for the ESXi hosts to the newly imported vDS.

NOTE:

Do not migrate VMkernels from the standard switches on the hosts.

HOL LAB for Practice:

a <http://docs.hol.vmware.com/hol-isim/HOL-2019/hol-1903-01-nsxinstall-p1.htm>

HOL-1903-01 Page 16 or you can directly Open a NSX manager in the lab and edit the existing settings

bOpen PSC and NSX manager in HOL-1903-01 and look for NTP Server load cation

cExport existing vDS config and Import back the config for practice in HOL-1903-01

dNo Lab Module available

See the explanation part for complete solution.

Answer:

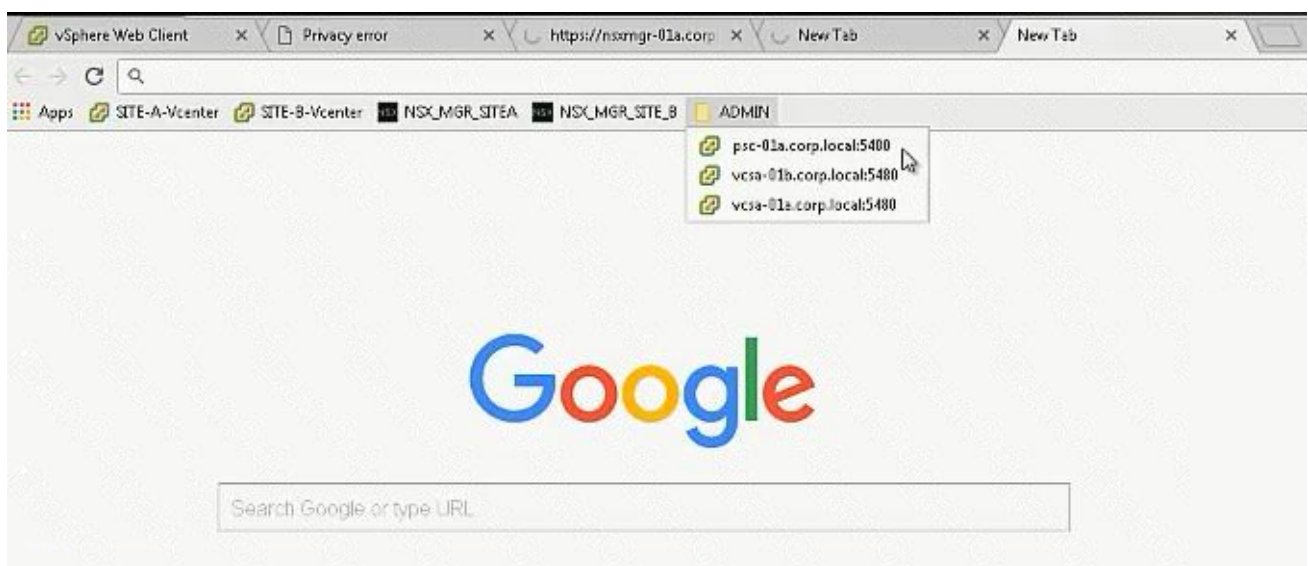
SOLUTION:

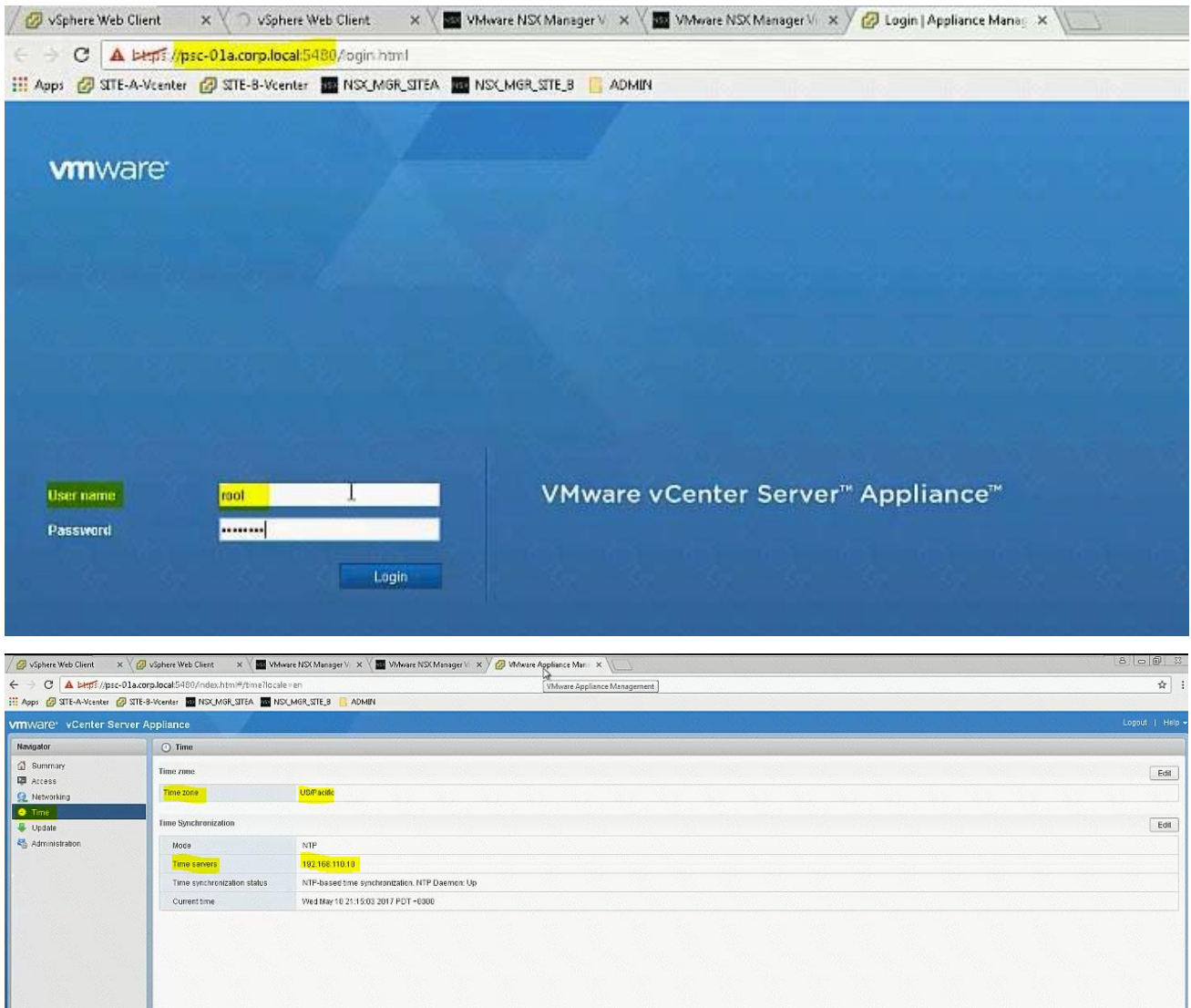
Step 1: Login to PSC using VAMI credentials and note down the time zone and server details and use the same in SiteB NSX Manager time settings.

Step 2: Update the time settings, complete lookup service configuration, associate SiteB NSX manager to SiteB vCenter. Check the status from SiteA vCenter Webclient -> Networking & Security -> Installation -> Management.

Step 3: Import the Distributed switch to Cluster B, add the hosts & assign the interfaces.

Login to <https://psc-01a.corp.local:5480/> to check the NTP server details and note it down. Use the VAMI credentials given to login. Need to click on Edit to see the server details in here as it is not showing up in the main page (In exam, it is showing in the main page itself).





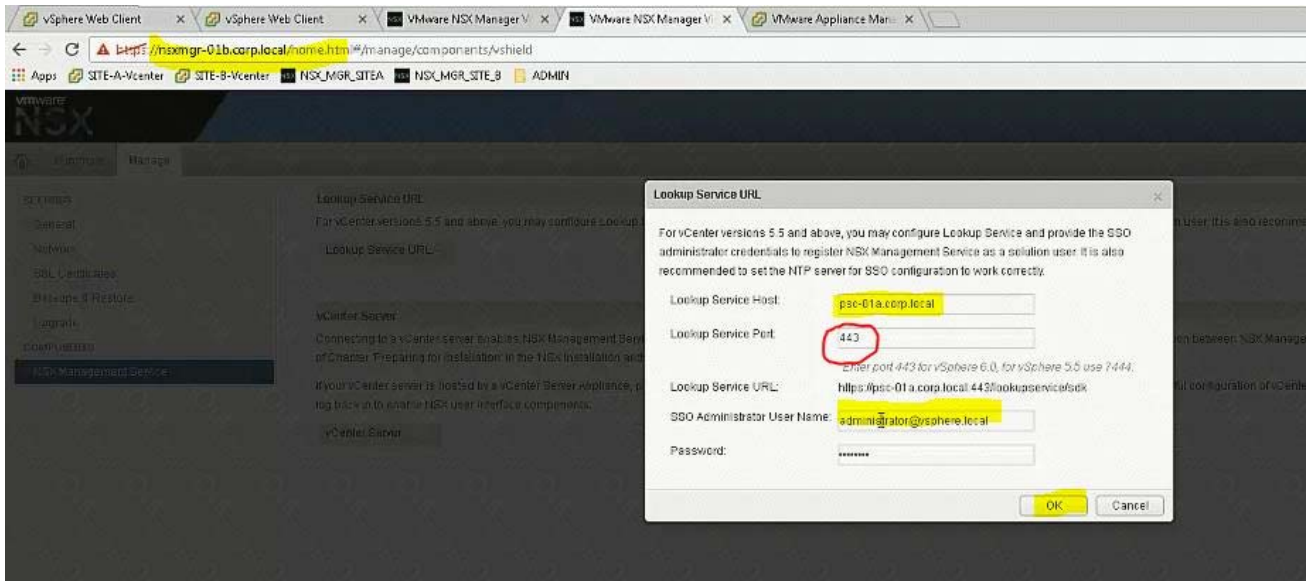
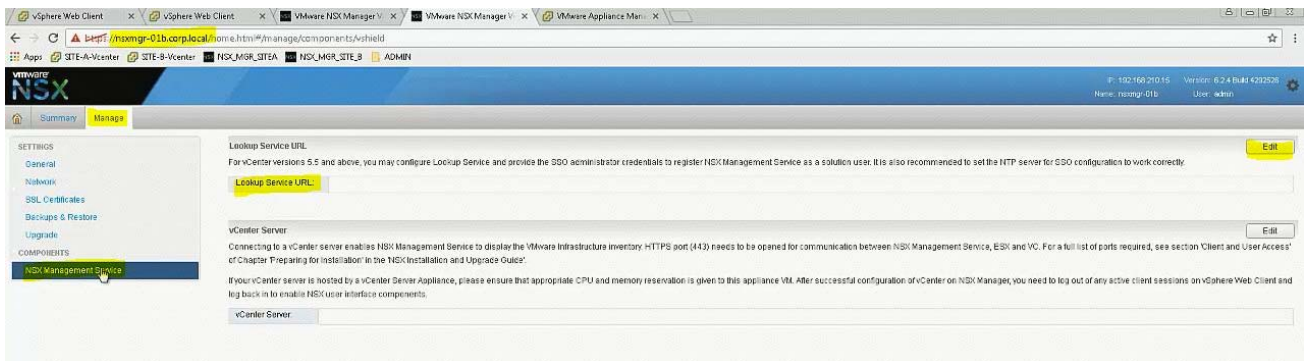
The image shows a sequence of three screenshots from a web browser. The first screenshot is the login page for the VMware NSX Manager Virtual Appliance. The browser address bar shows `https://nsxmgr-01b.corp.local/login.jspx?sessionId=F4FBF0172A022A3051F91F874D6D4915`. The login form has a "User name:" field with "admin" and a "Password:" field with masked characters. A "Login" button is below the fields. The VMware NSX logo is on the left, and the text "VMware NSX Manager Virtual Appliance" is on the right.

The second screenshot shows the "Time Settings" configuration dialog box. The dialog has a title bar "Time Settings" and a message: "Specify NTP server below. For SSO configuration to work correctly it is required that the time on this virtual appliance and NTP server should be in sync. It is recommended to use the same NTP server used by the SSO server." The "NTP Server:" field contains "192.168.110.10". The "Timezone:" dropdown is set to "USPacific". The "Date/Time:" field shows "MM/DD/YYYY HH:MM:SS". There are "OK" and "Cancel" buttons at the bottom.

The third screenshot shows the main configuration page of the VMware NSX Manager. A notification banner at the top says: "NTP server settings has been changed. NSX Management Service needs to be restarted for NTP server settings to take effect." The "Time Settings" section is expanded, showing the following configuration:

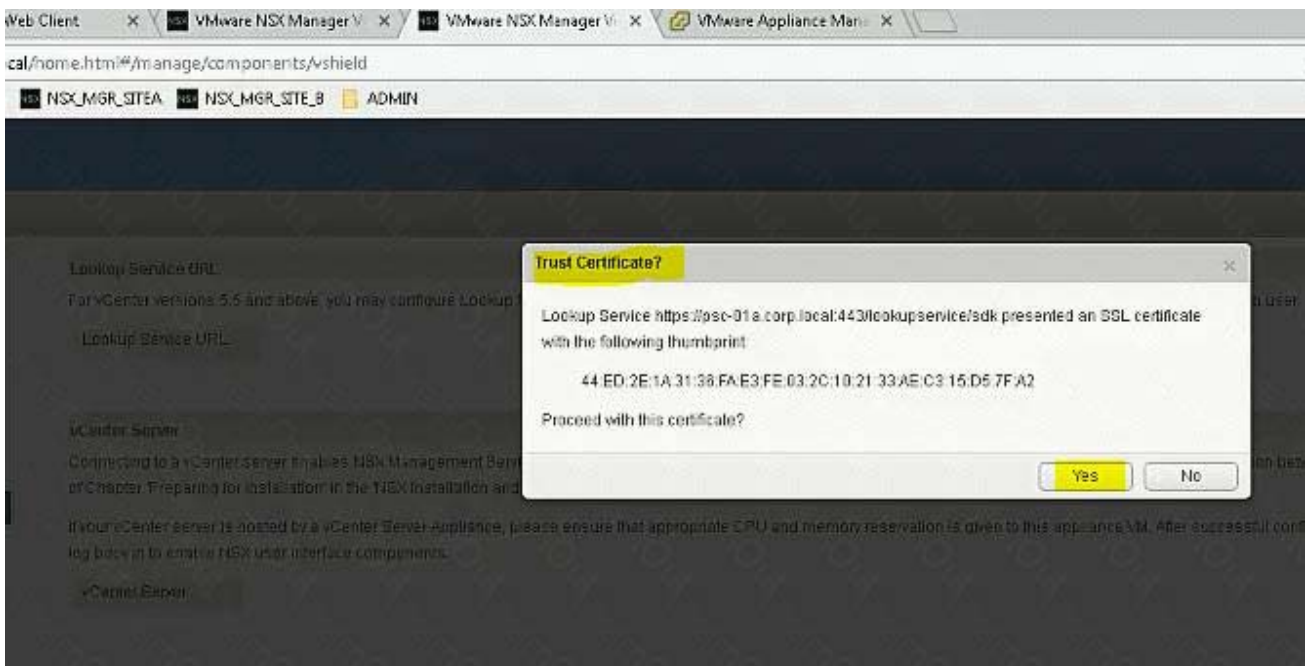
Field	Value
NTP Server	192.168.110.10
Timezone	USPacific
Date/Time	05/10/2017 21:19:57

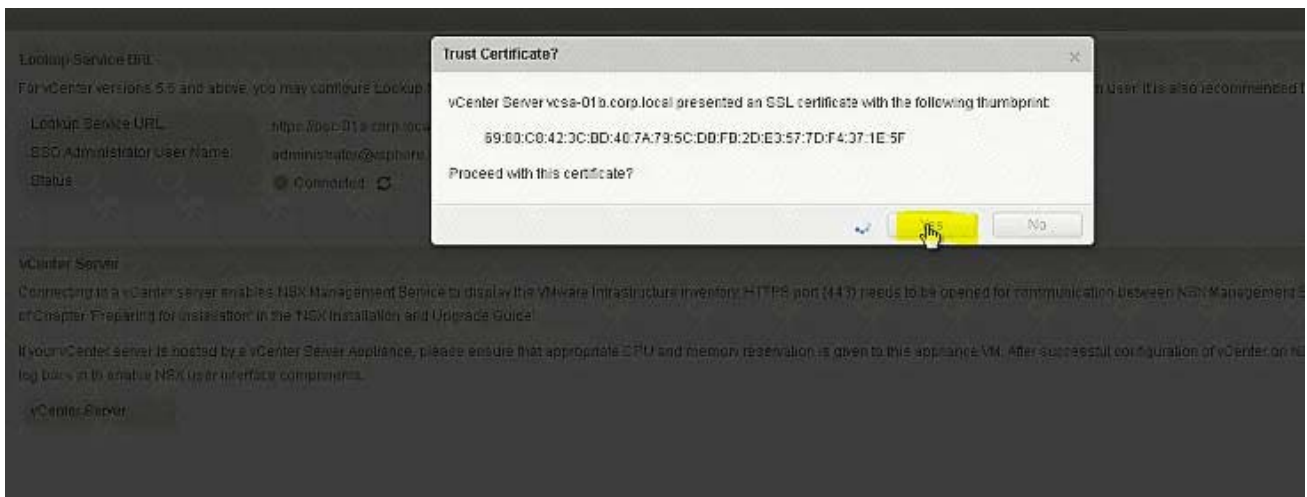
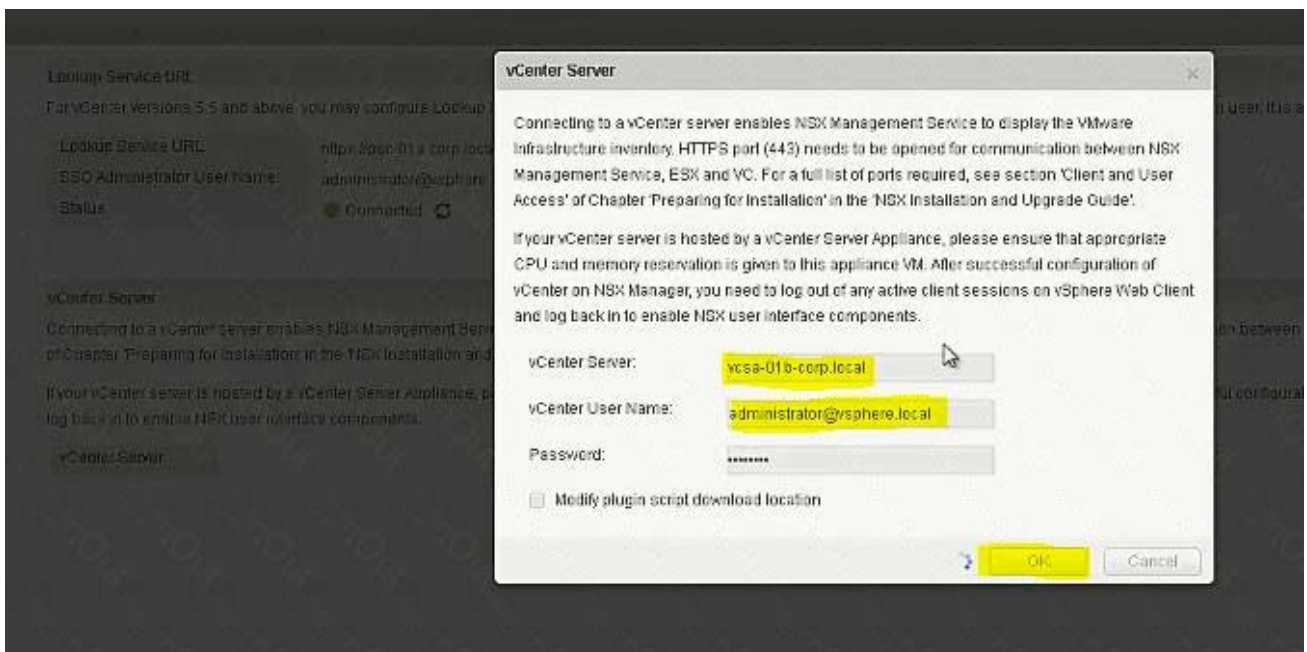
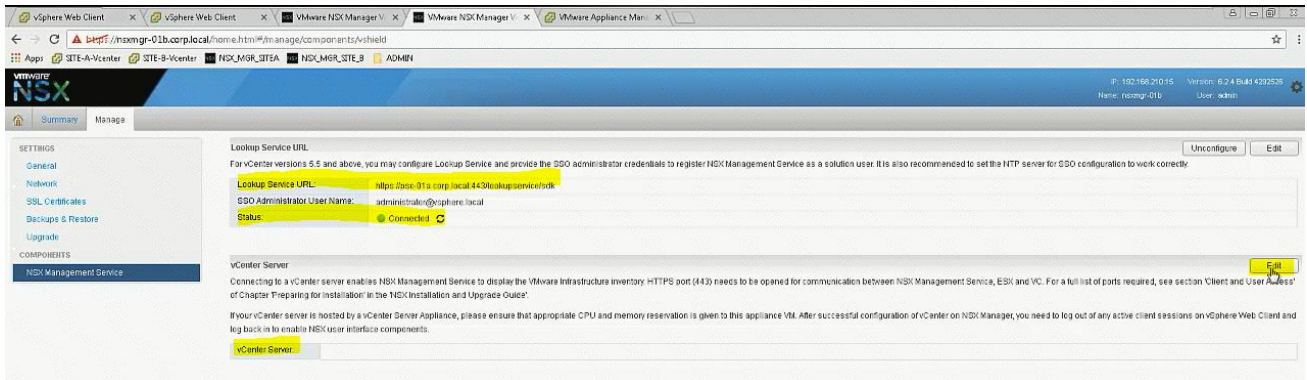
Below the Time Settings section, the "Syslog Server" section is visible, with fields for "Syslog Server", "Port", and "Protocol". The "Locale" section shows the current locale as "en-US".

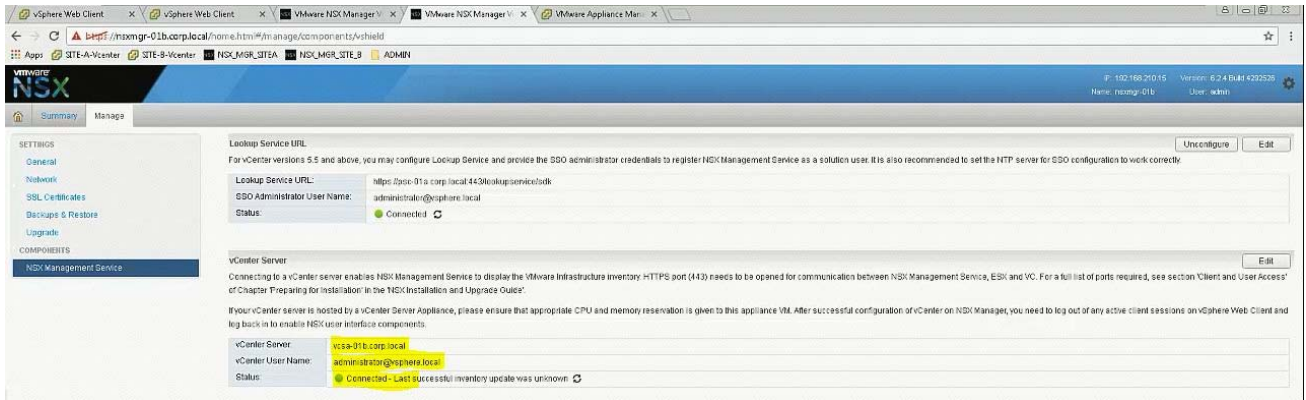


Important NOTE:

In exam change Lookup Service Port according to NSX Manager of Site A which is working one. It's 7444 in exam.

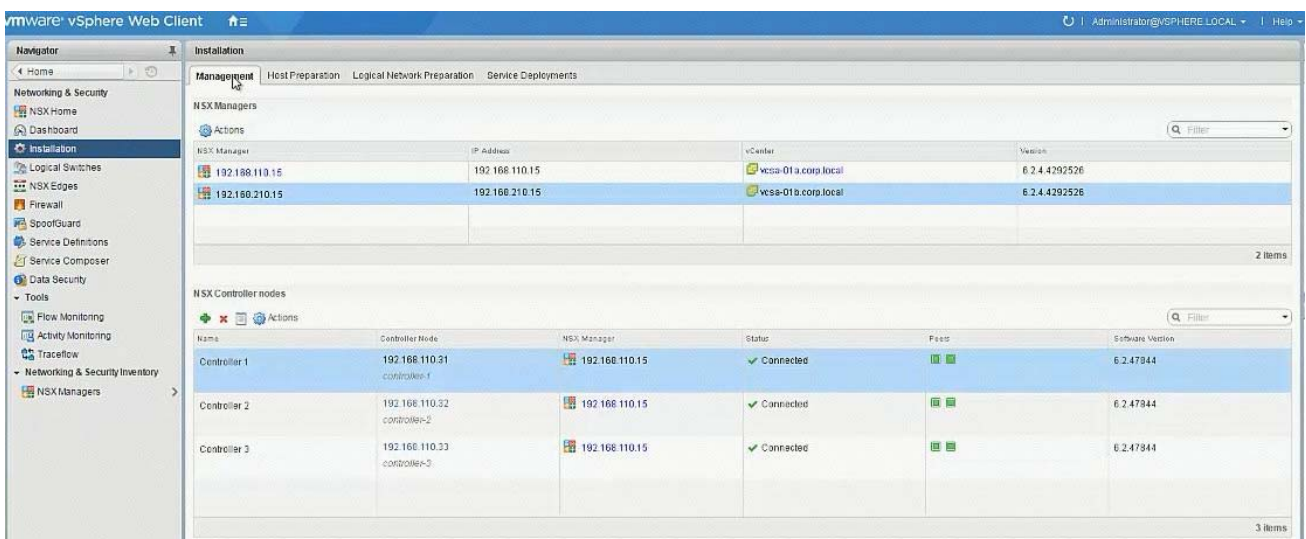


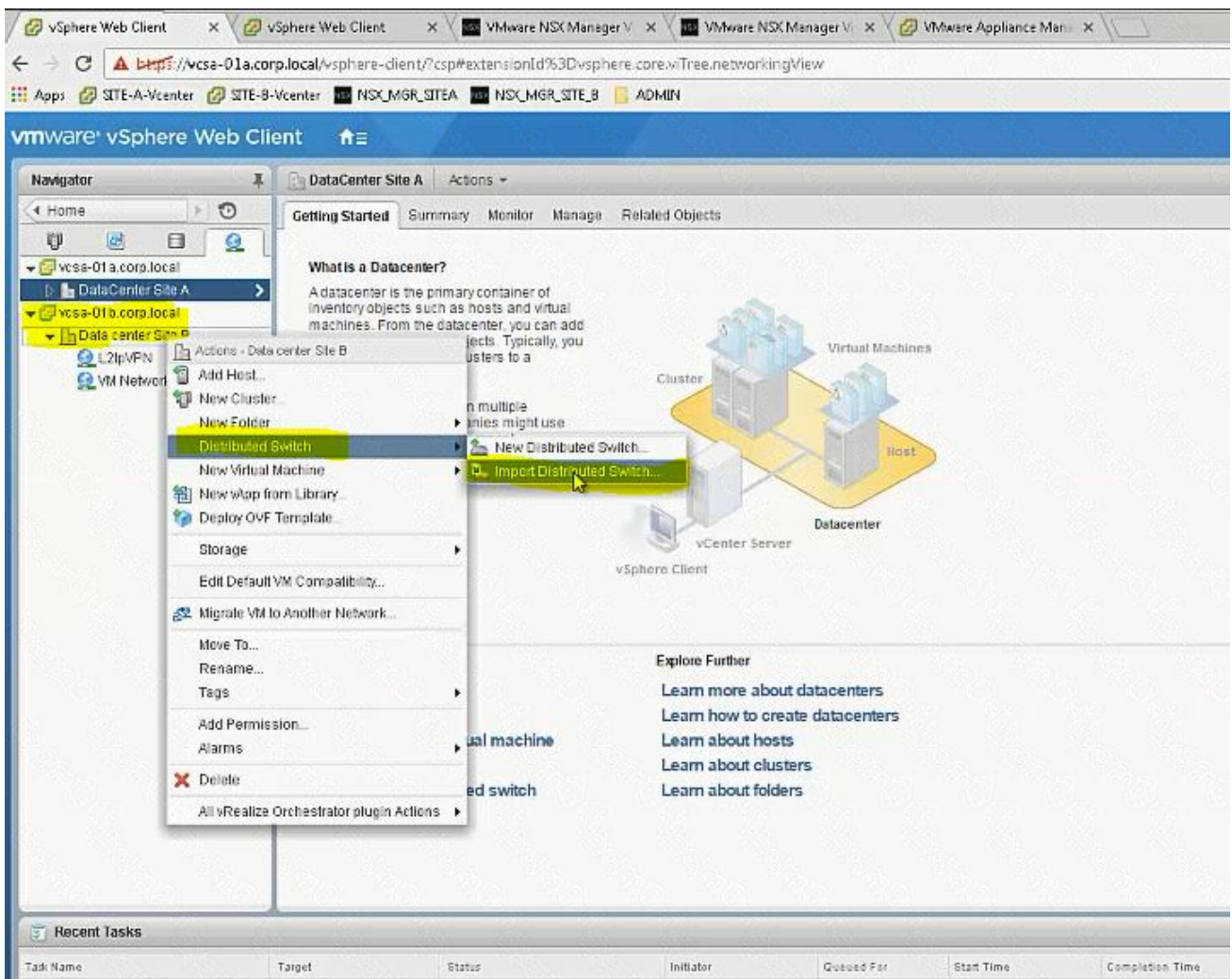
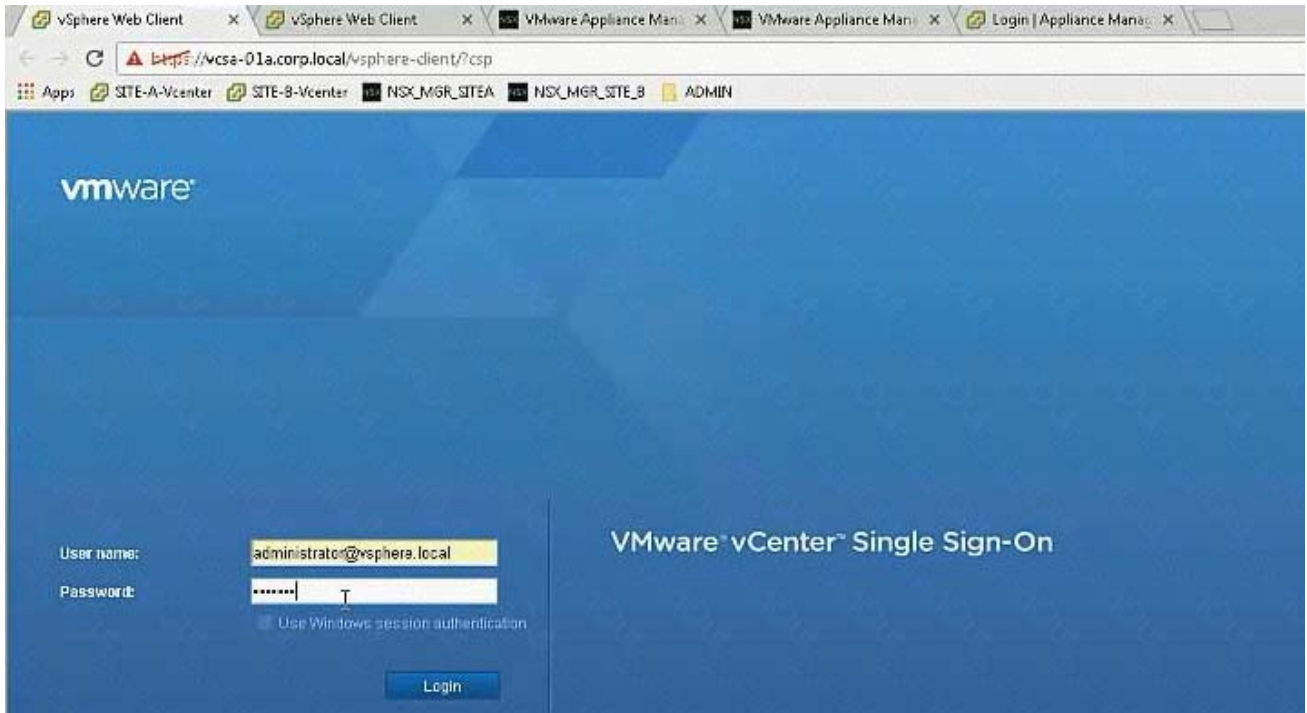


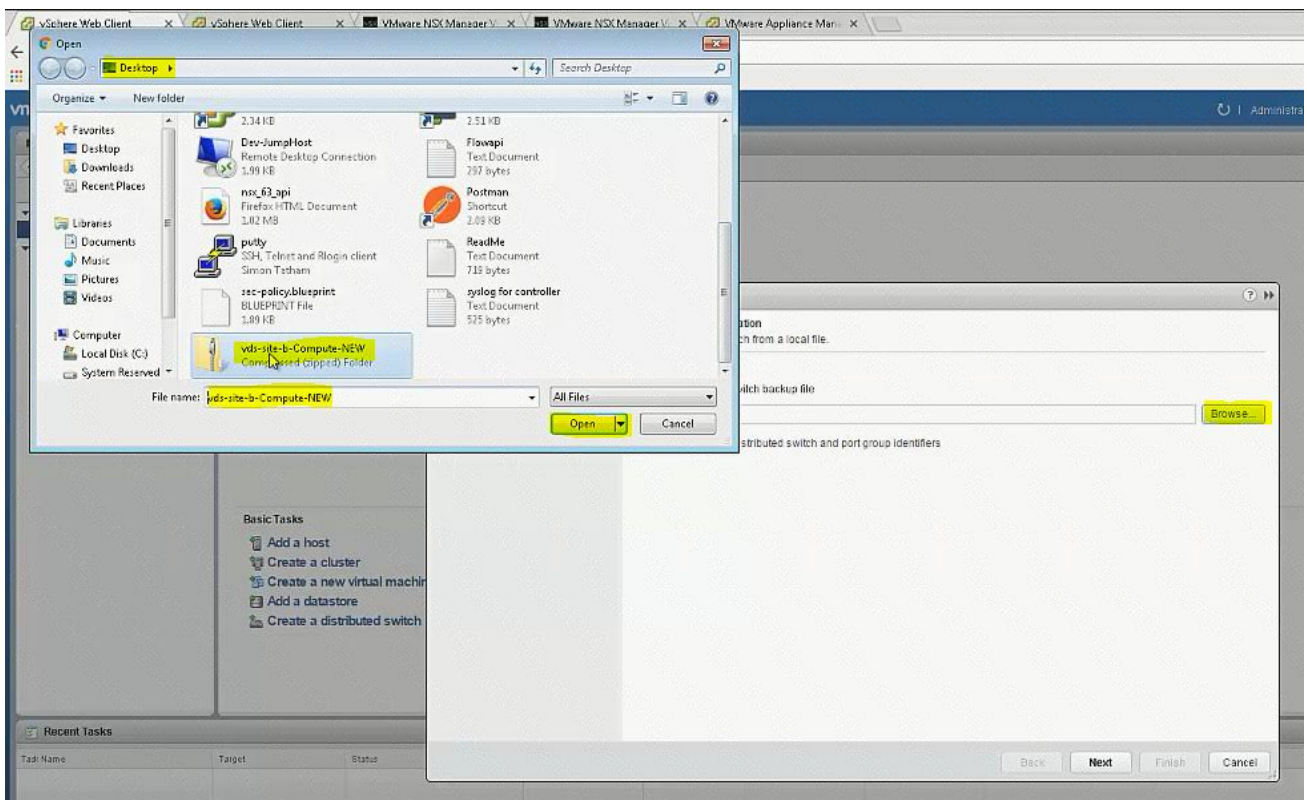
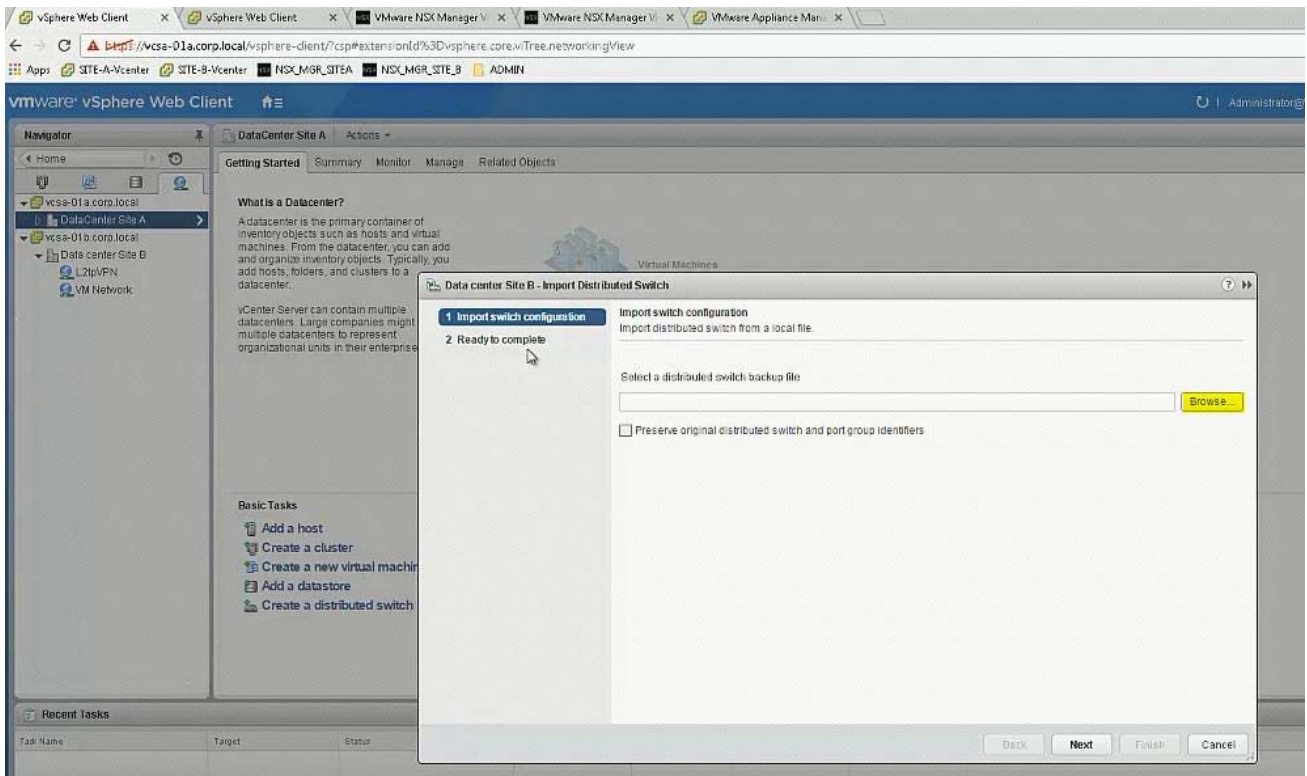


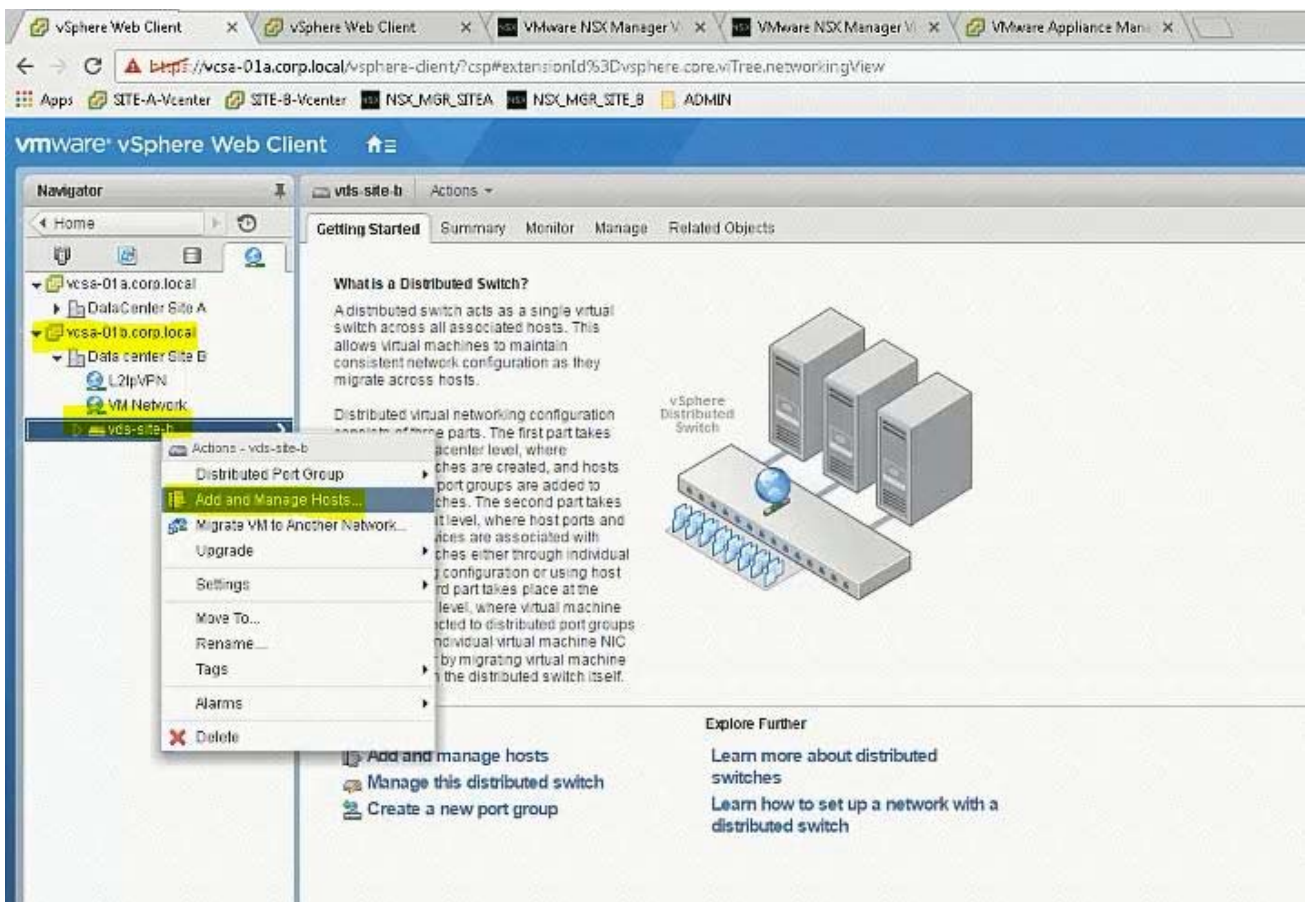
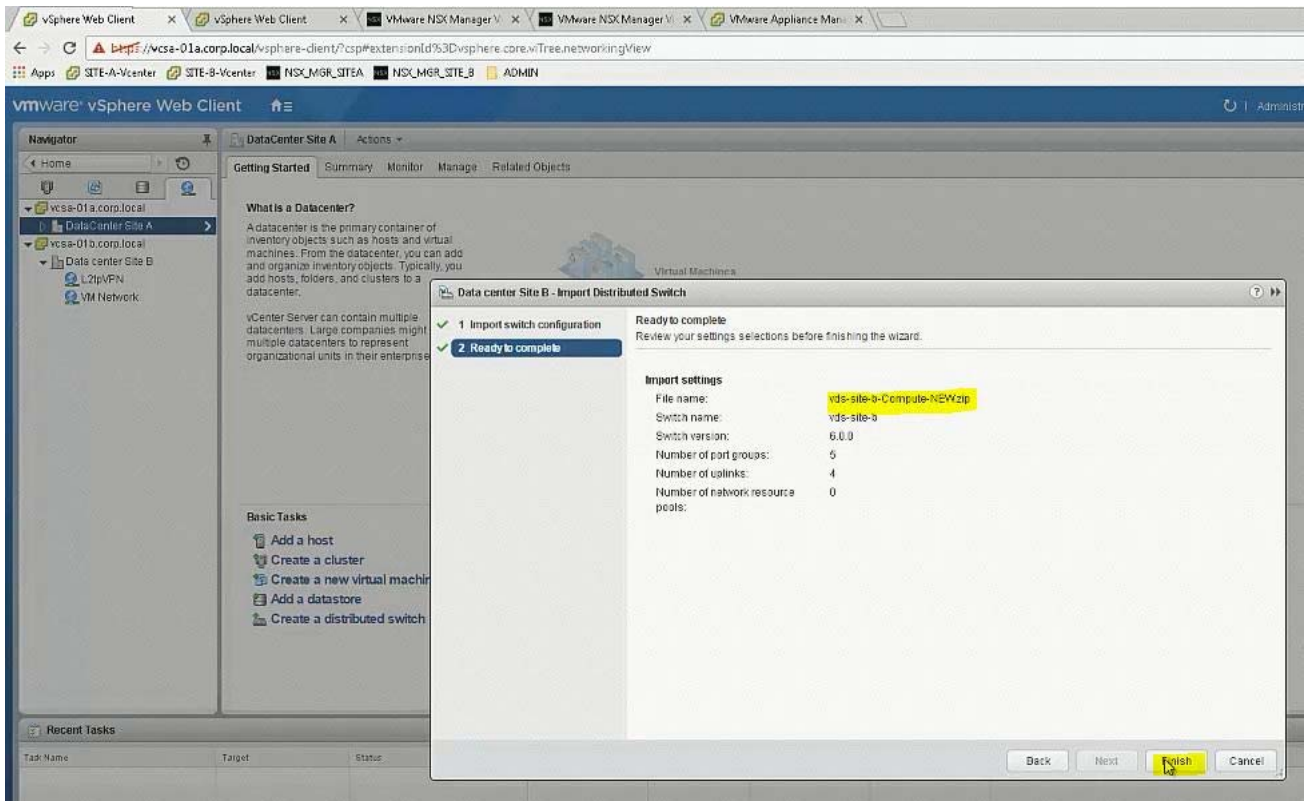
Click refresh if in case it shows as disconnected.

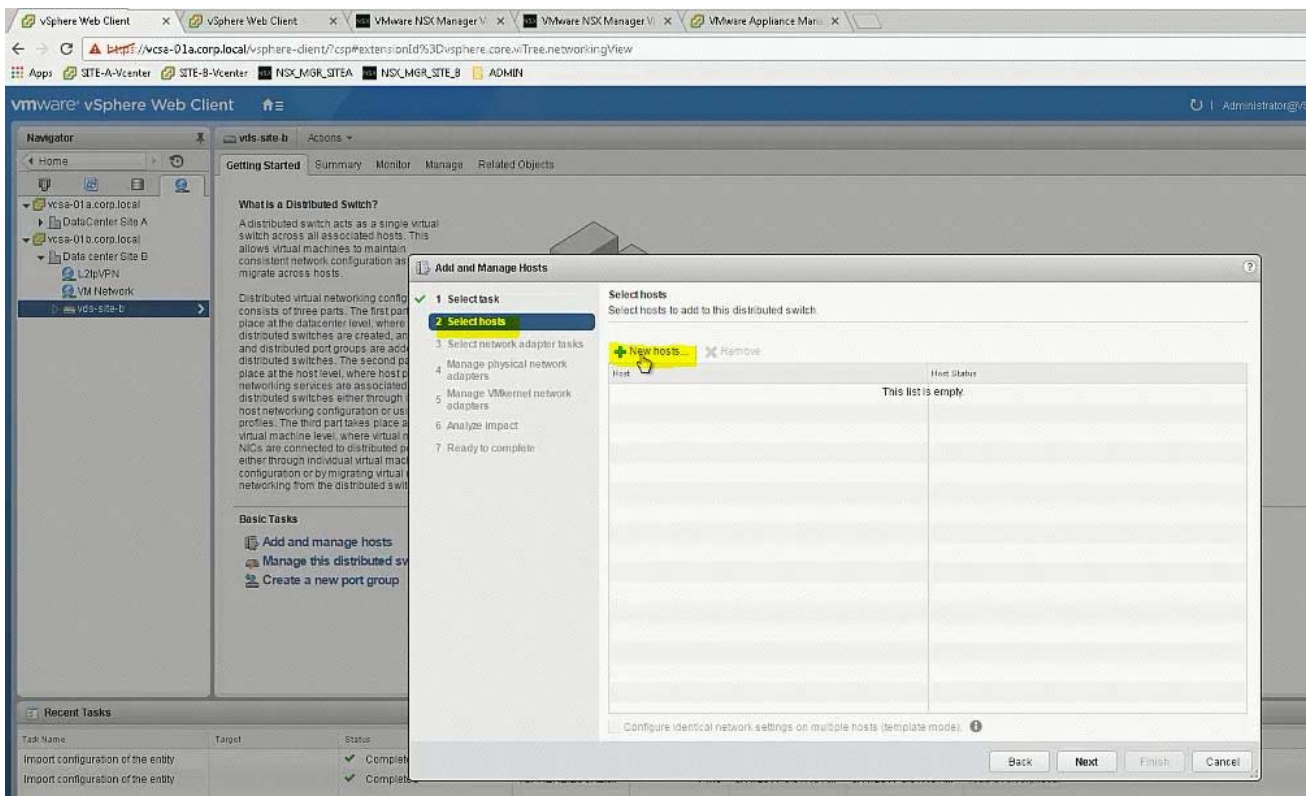
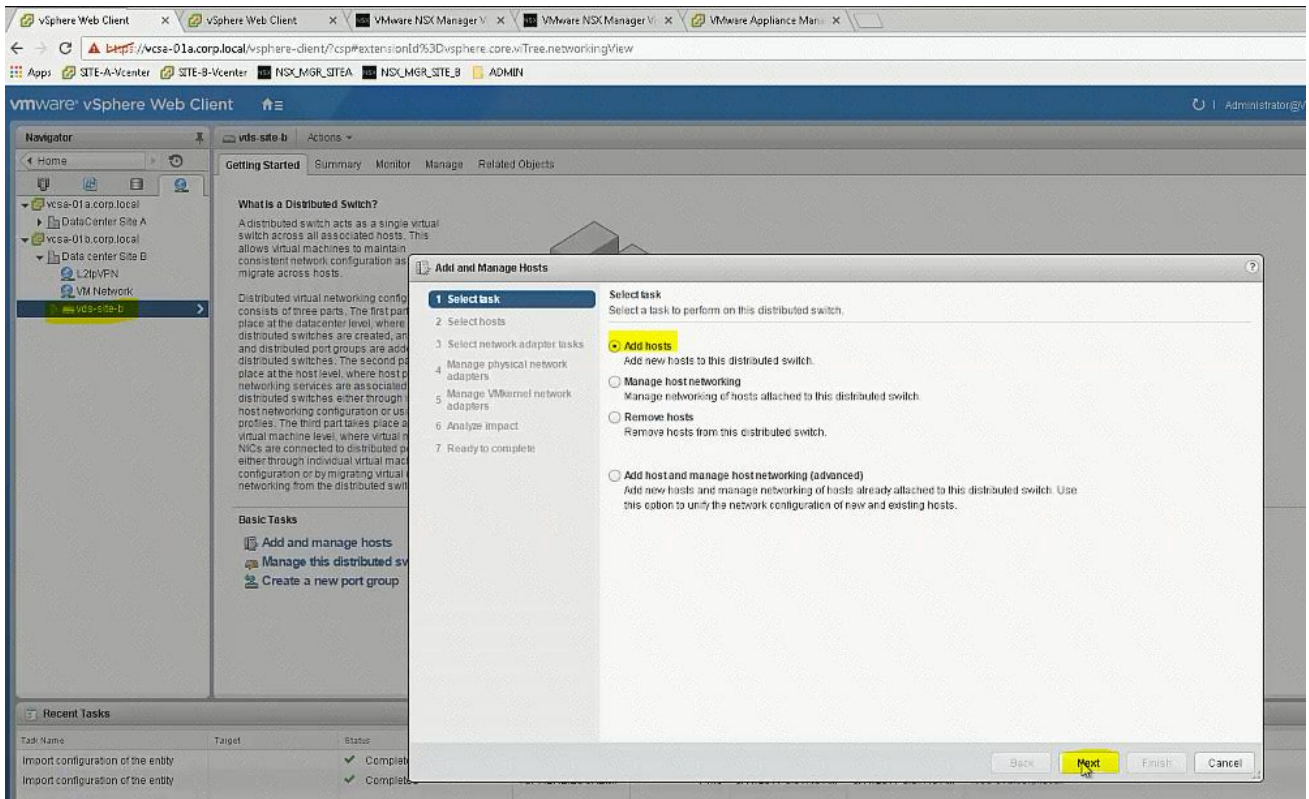
Login to SiteA vCenter using Web Client and confirm the status of both the NSX Managers: Installation -> Management.

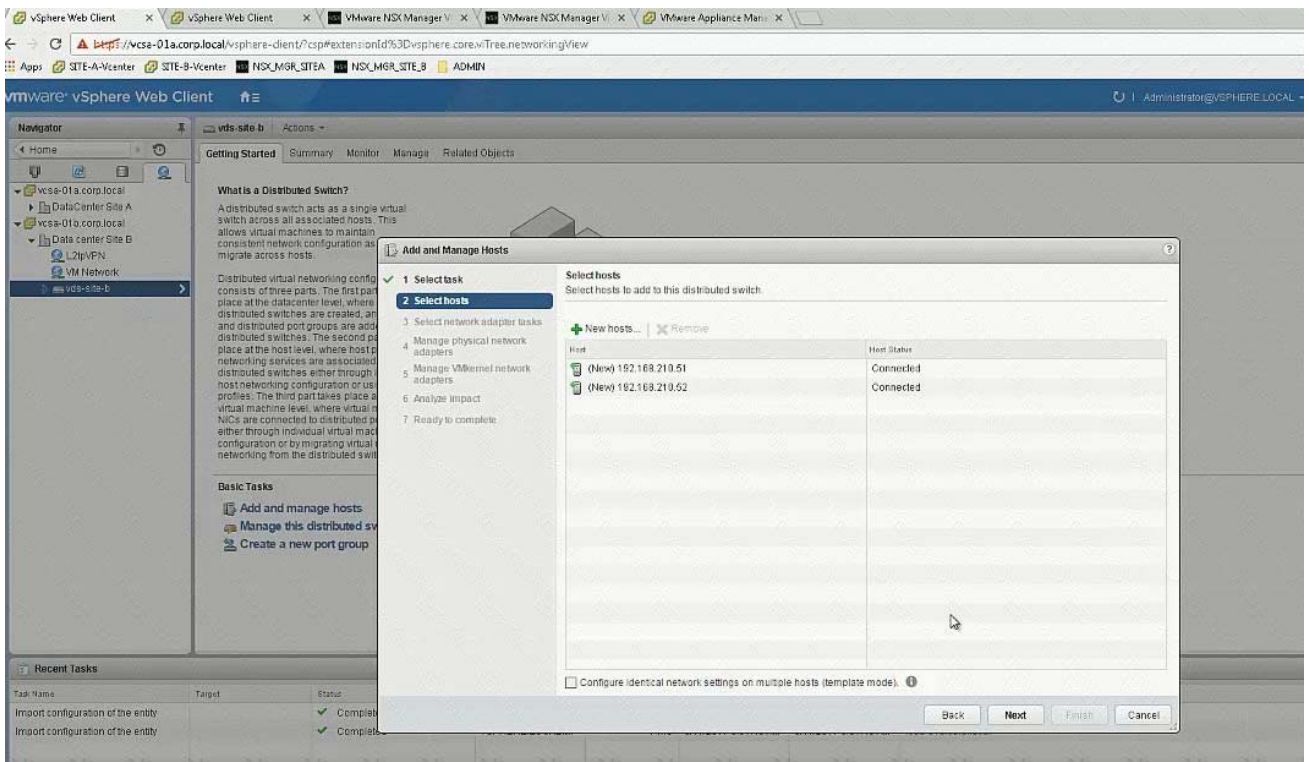
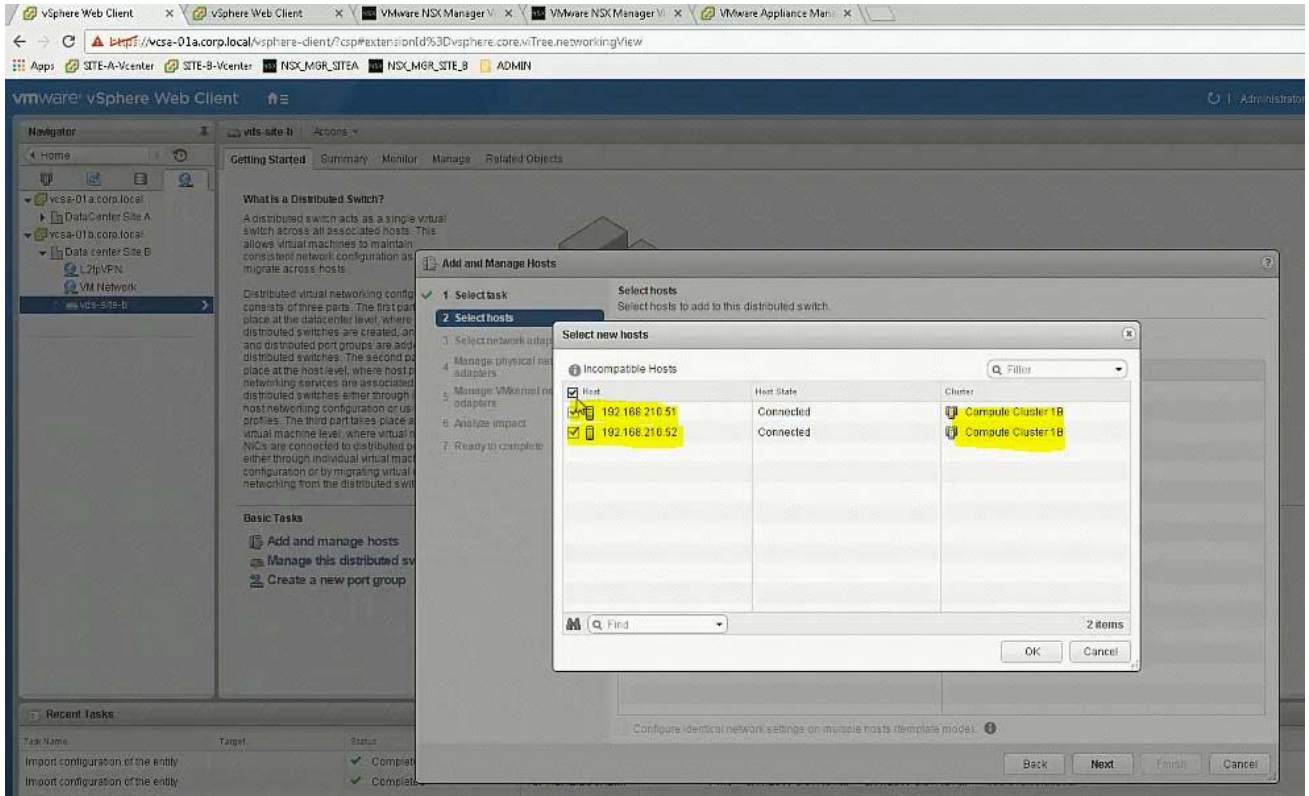


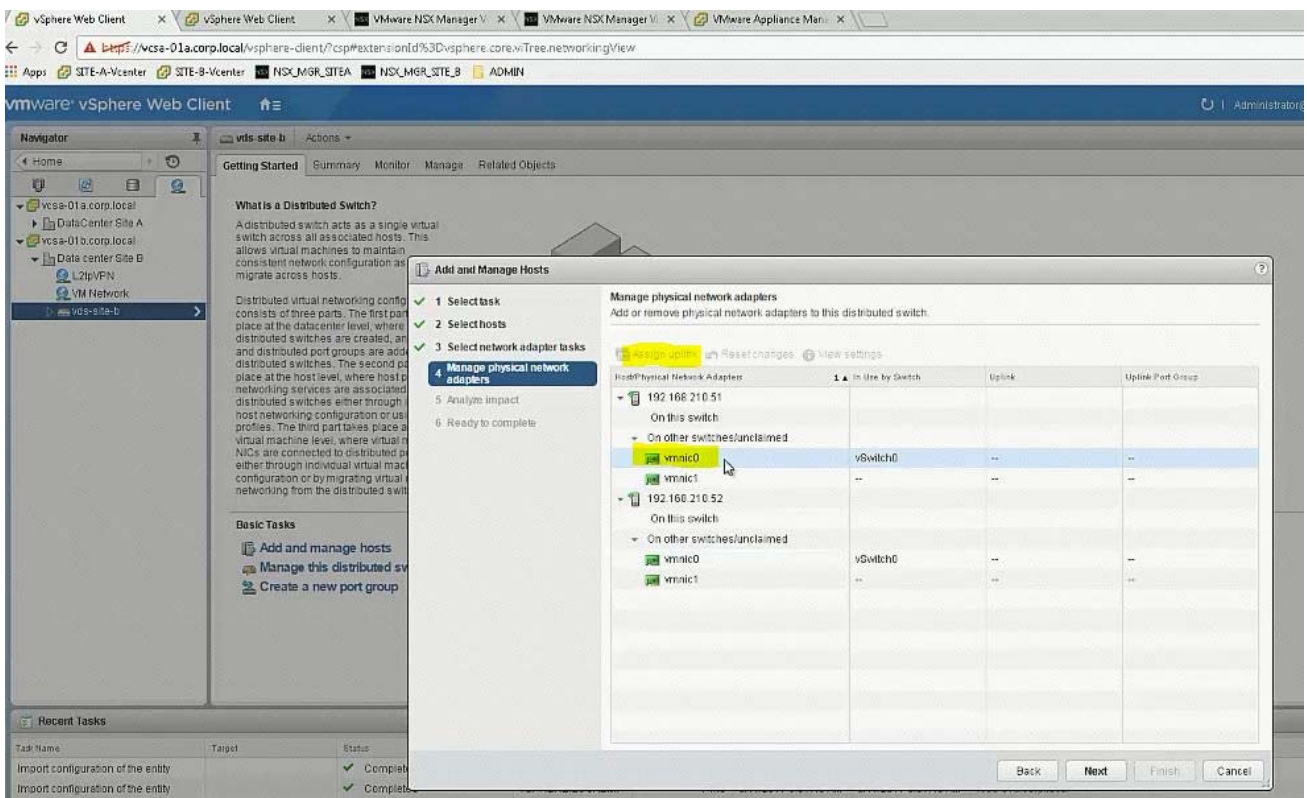
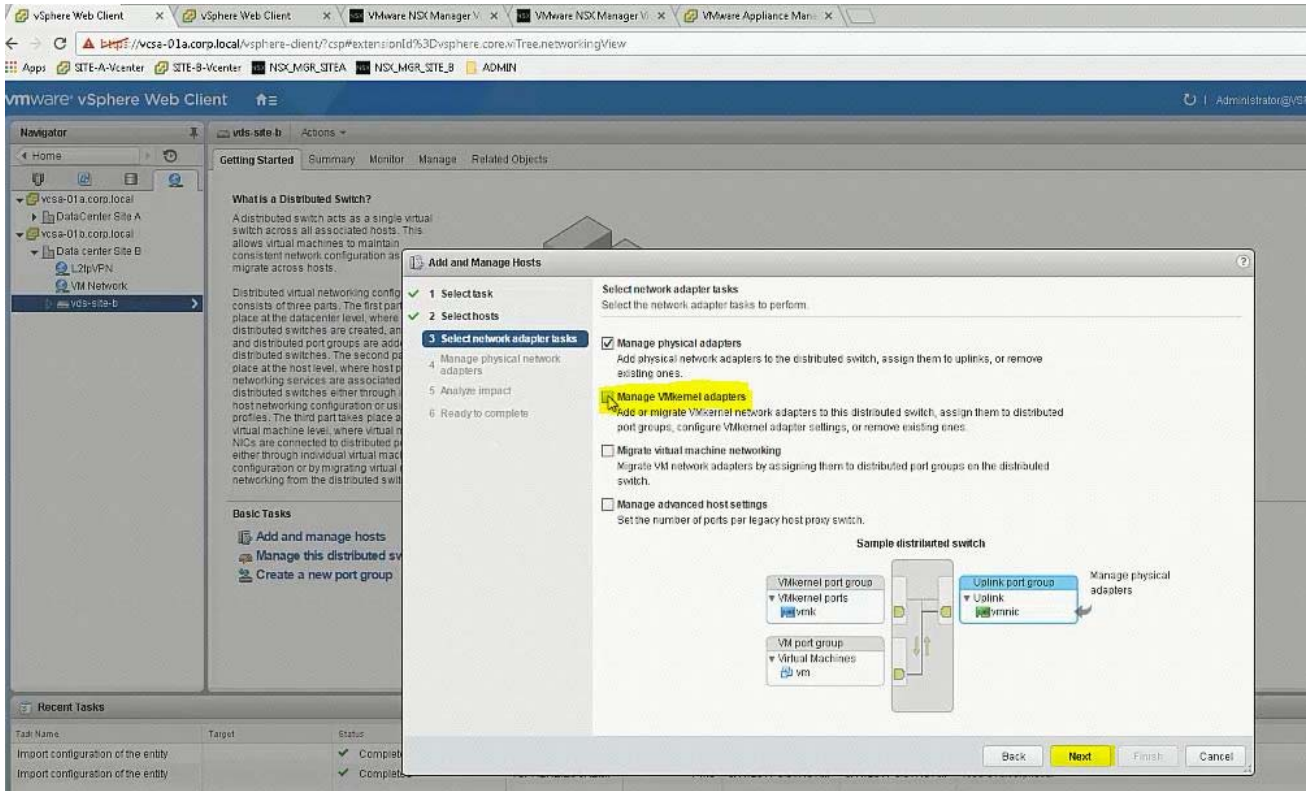


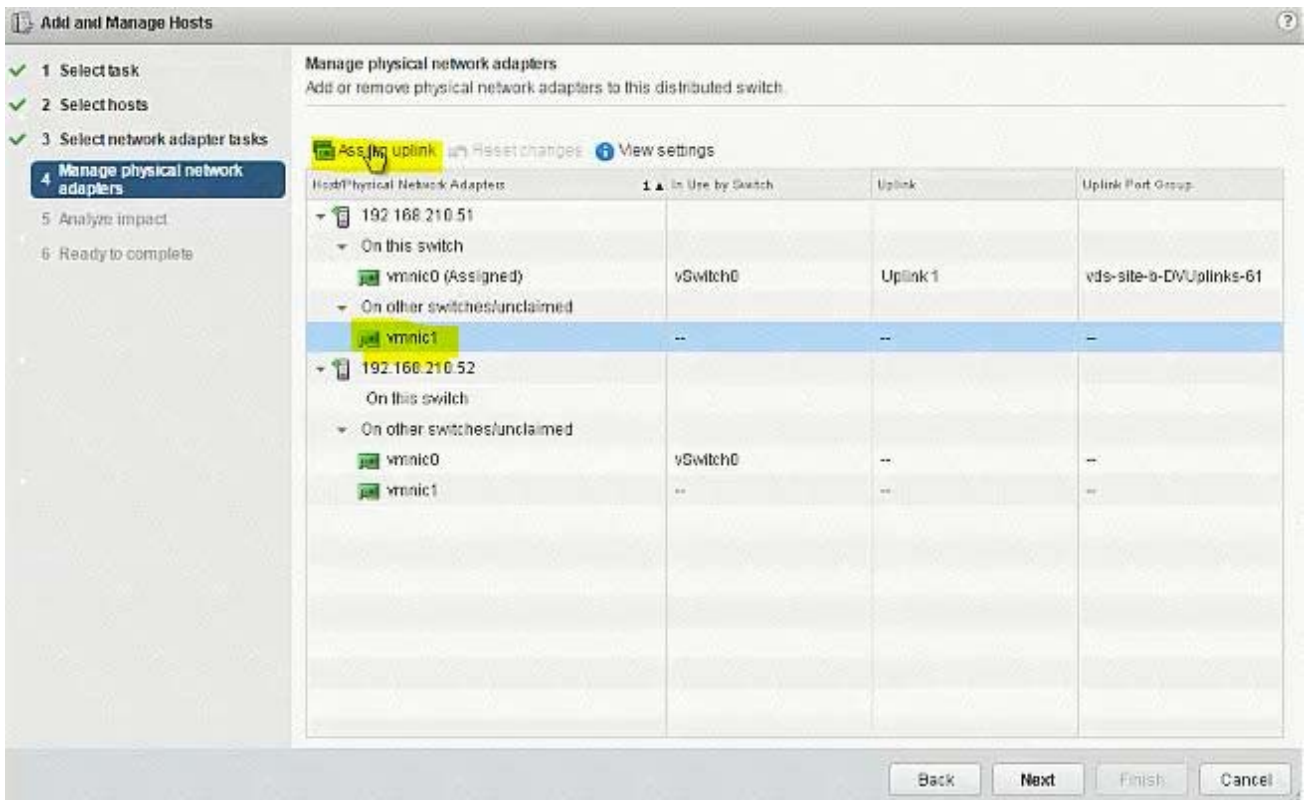
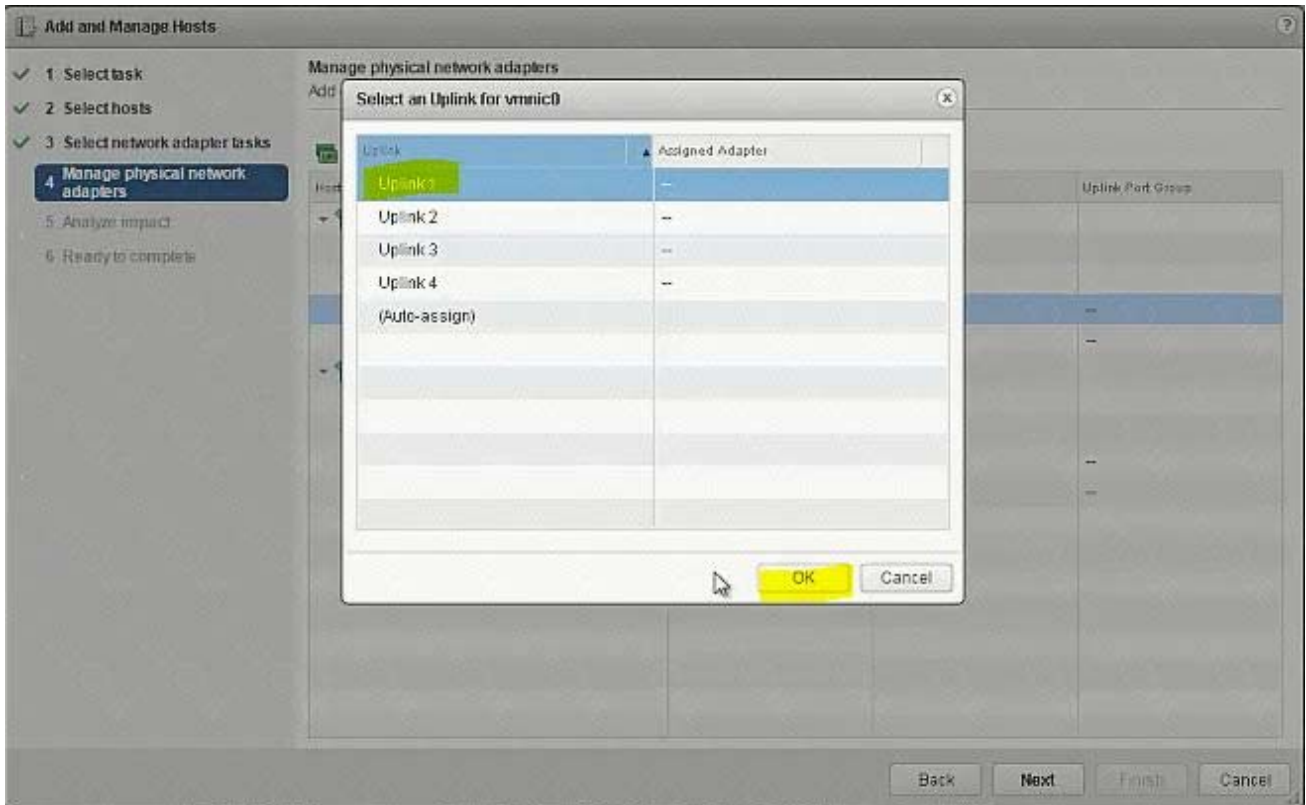


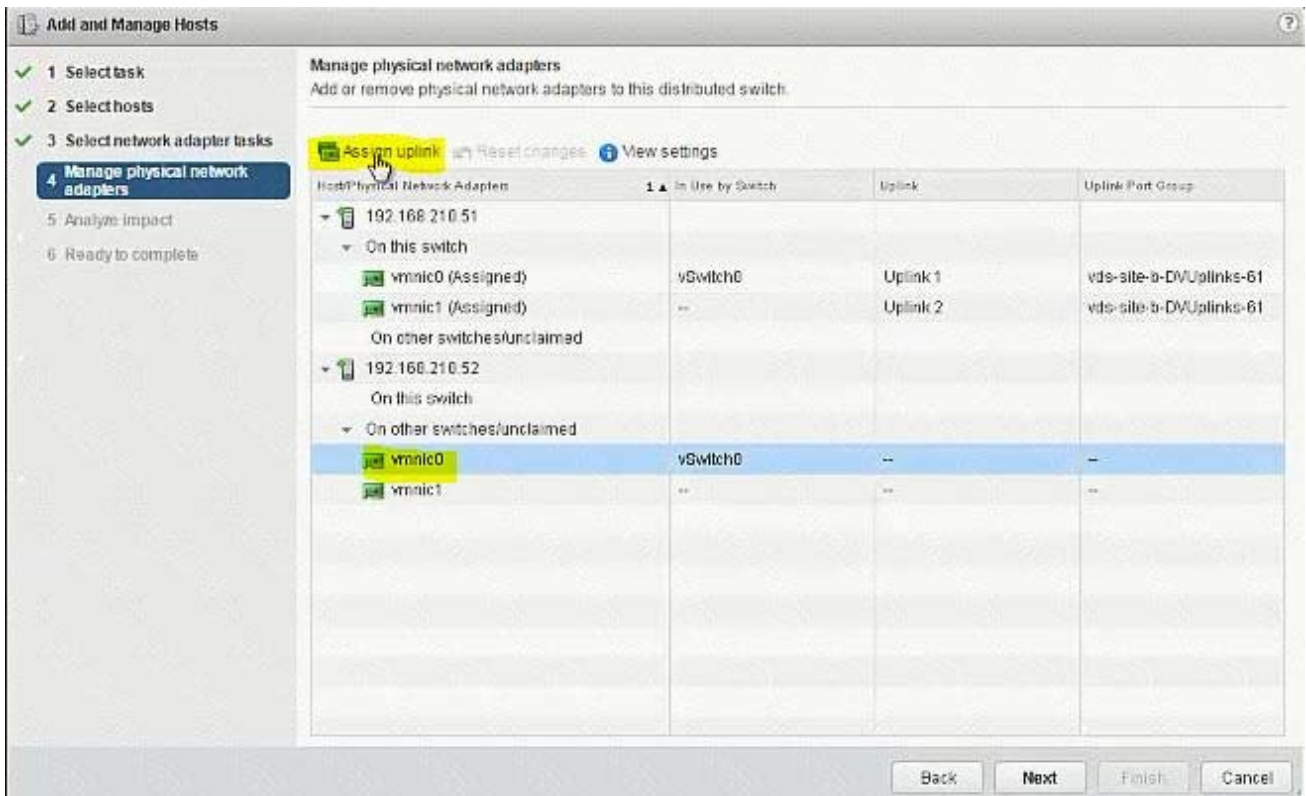
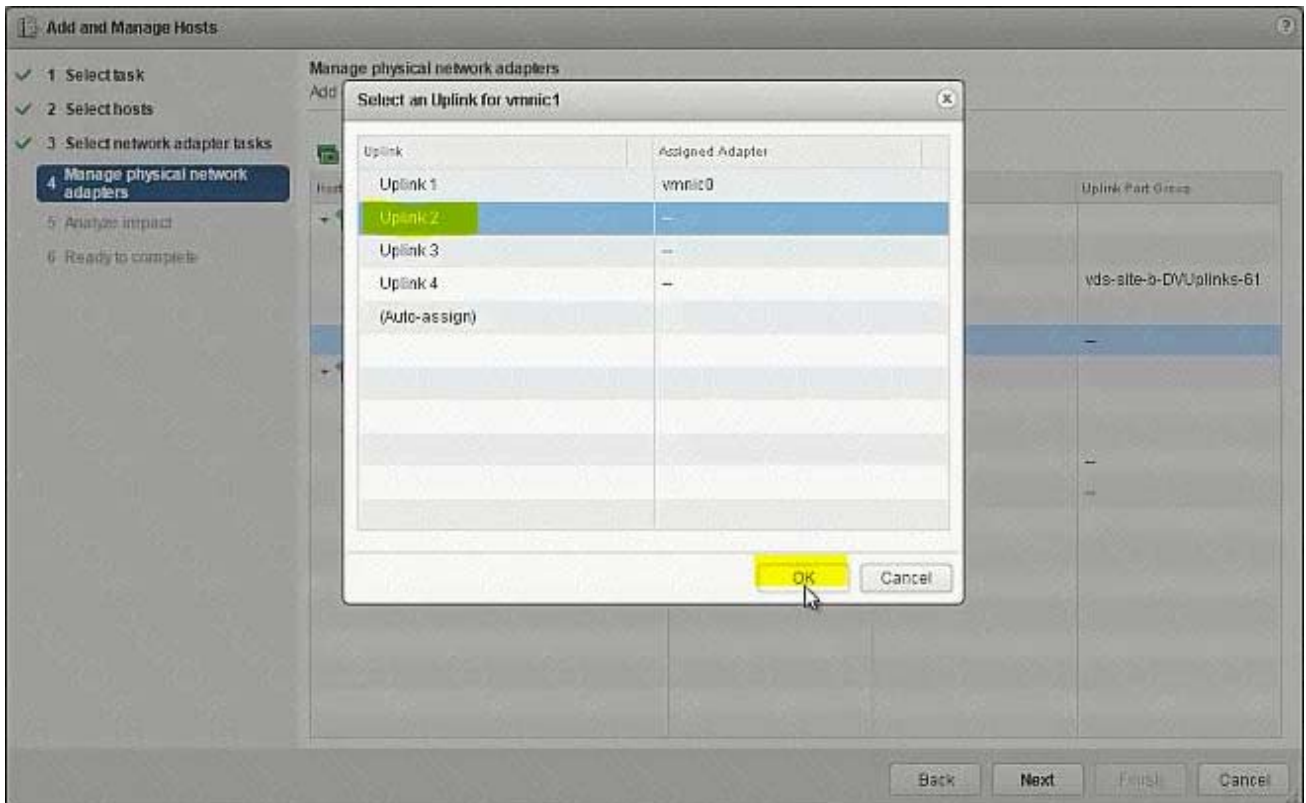


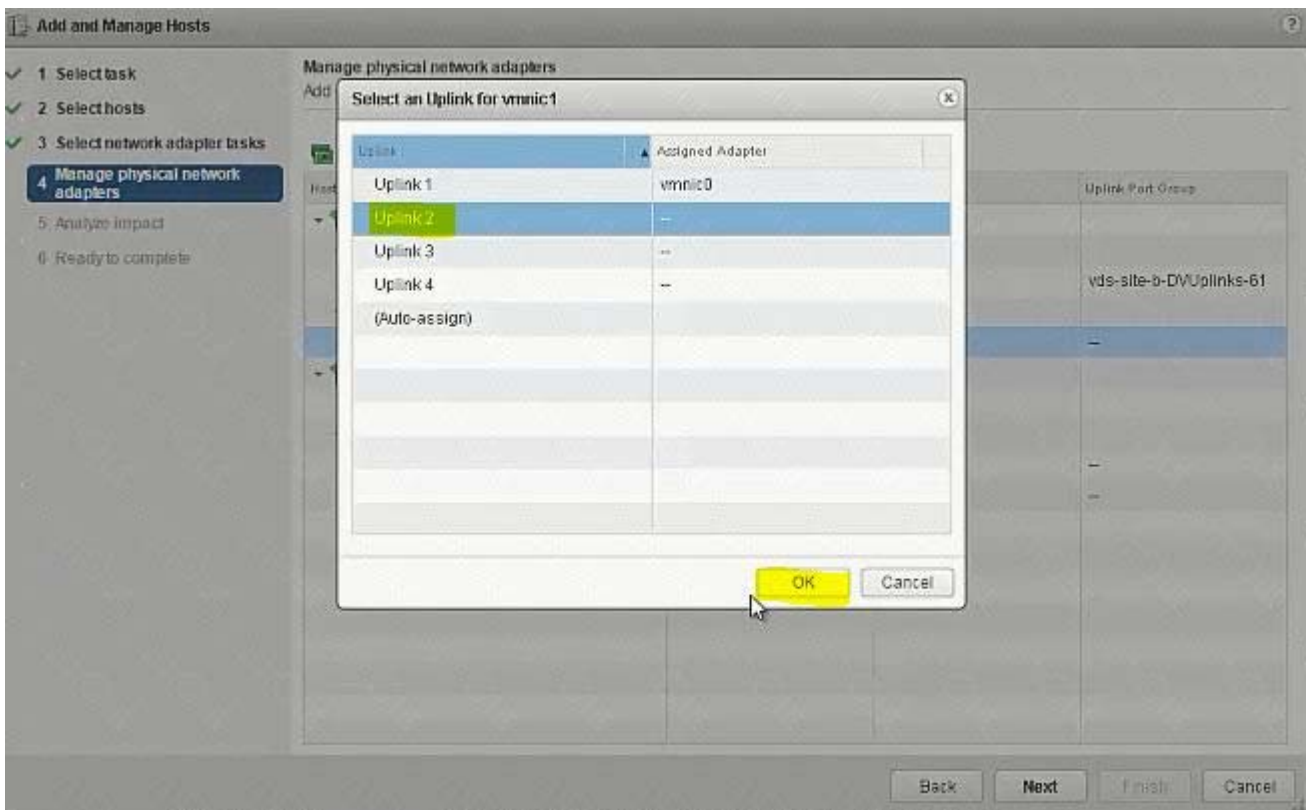
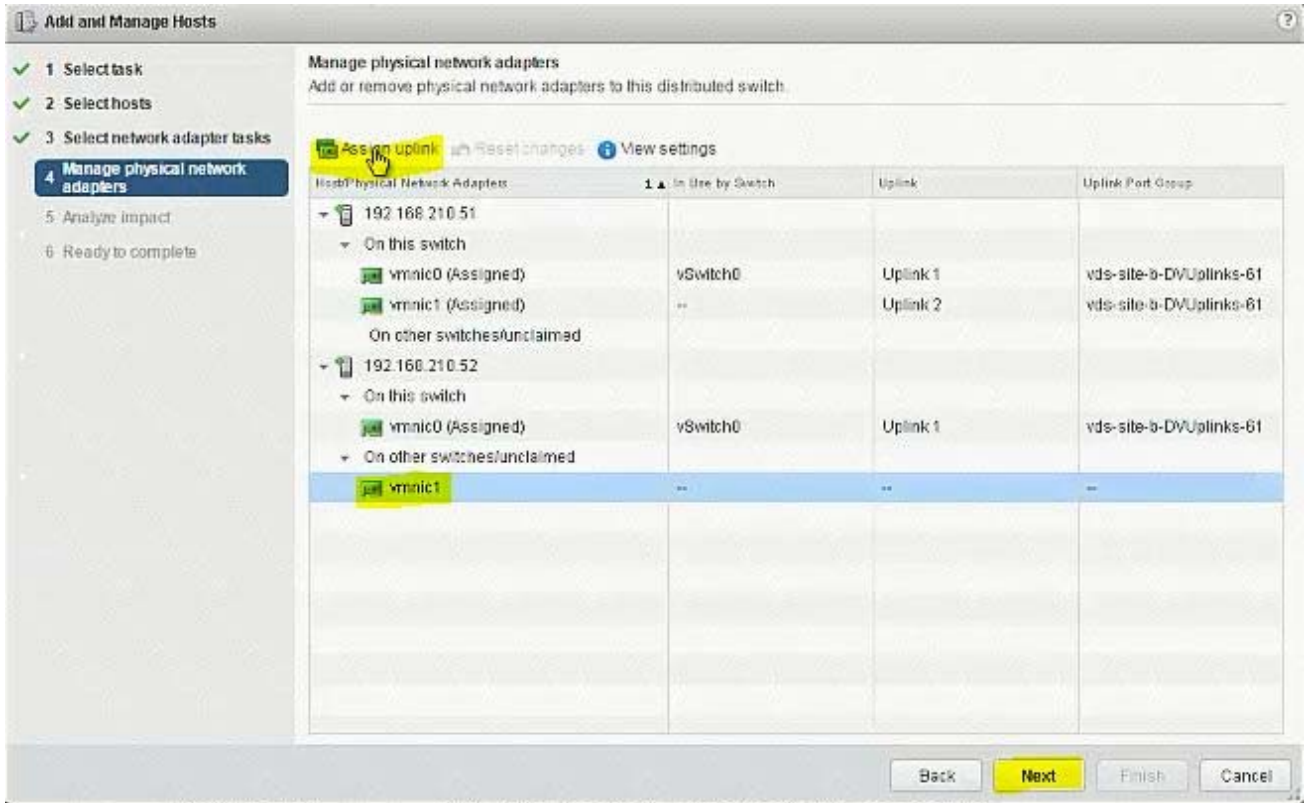












Add and Manage Hosts

- ✓ 1 Select task
- ✓ 2 Select hosts
- ✓ 3 Select network adapter tasks
- 4 Manage physical network adapters**
- 5 Analyze impact
- 6 Ready to complete

Manage physical network adapters
Add or remove physical network adapters to this distributed switch.

Assign uplink | Reset changes | View settings

Host/Physical Network Adapters	In Use by Switch	Uplink	Uplink Port Group
192.168.210.51			
On this switch			
vmnic0 (Assigned)	vSwitch0	Uplink 1	vds-site-b-DVUplinks-61
vmnic1 (Assigned)	--	Uplink 2	vds-site-b-DVUplinks-61
On other switches/unclaimed			
192.168.210.52			
On this switch			
vmnic0 (Assigned)	vSwitch0	Uplink 1	vds-site-b-DVUplinks-61
vmnic1 (Assigned)	--	Uplink 2	vds-site-b-DVUplinks-61
On other switches/unclaimed			

Back | **Next** | Finish | Cancel

Add and Manage Hosts

- ✓ 1 Select task
- ✓ 2 Select hosts
- ✓ 3 Select network adapter tasks
- ✓ 4 Manage physical network adapters
- 5 Analyze impact**
- 6 Ready to complete

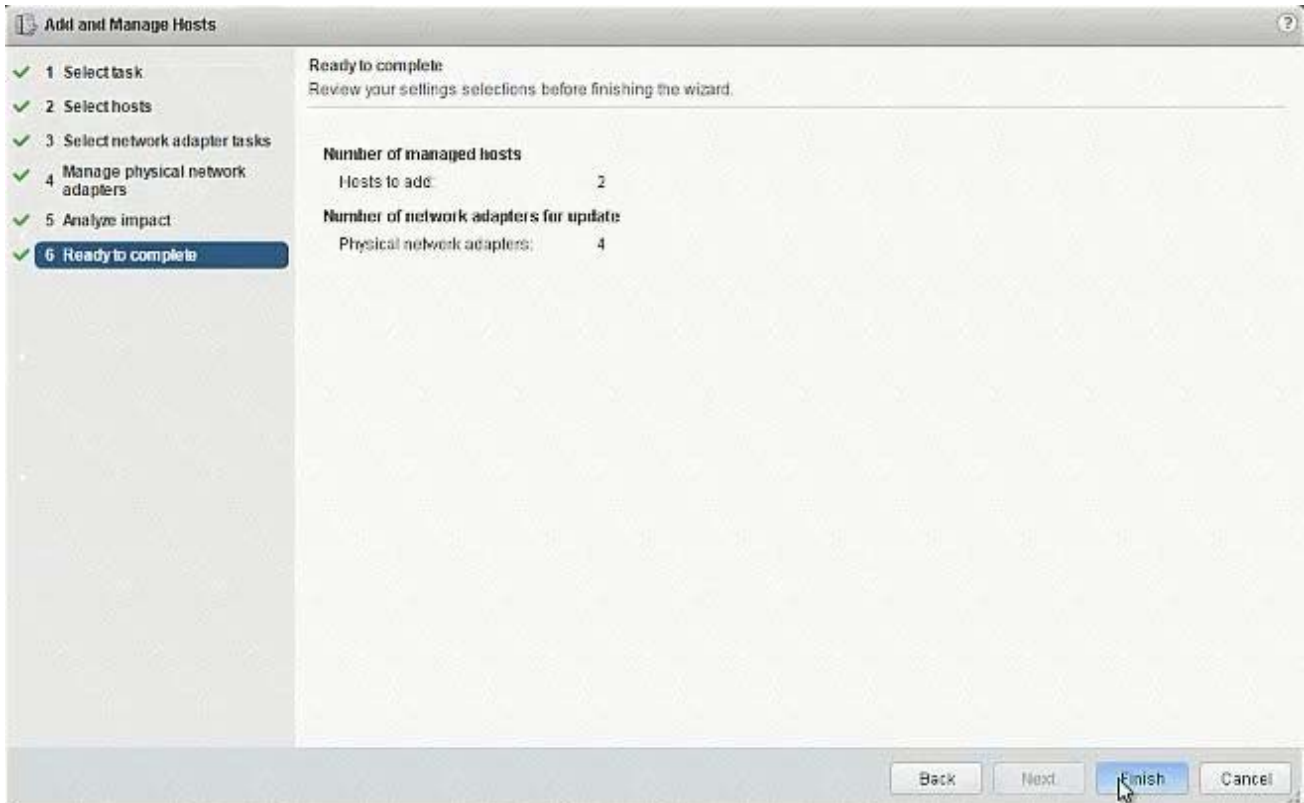
Analyze impact
Review the impact this configuration change might have on some network dependent services

Overall impact status: ✓ No impact

Host / Impact Analysis per Service	Status
192.168.210.51	
iSCSI	✓ No impact
192.168.210.52	
iSCSI	✓ No impact

No items selected

Back | **Next** | Finish | Cancel



3. (Exam Topic 1)

The security team has requested that administrator@corp.local have the ability to fully manage NSX Manager (192.168.210.15) for Site B.

Requirements:

vCenter: vcsa-01b.corp.local

Credentials: administrator@vsphere.local / VMware1!

Ensure administrator@corp.local has the ability to fully manage NSX Manager in SiteB.

NOTE:

You may have to log out of the web client and back in for 192.168.210.15 to show in web client.

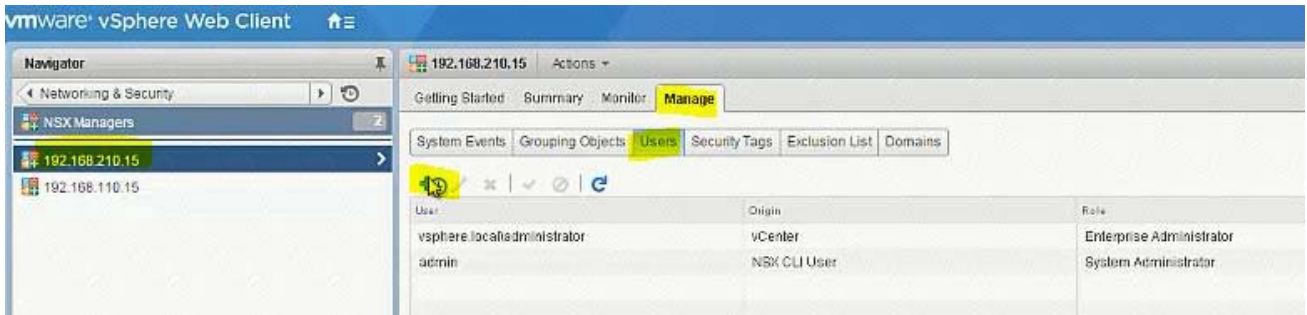
HOL LAB for Practice:

See the explanation part for complete solution.

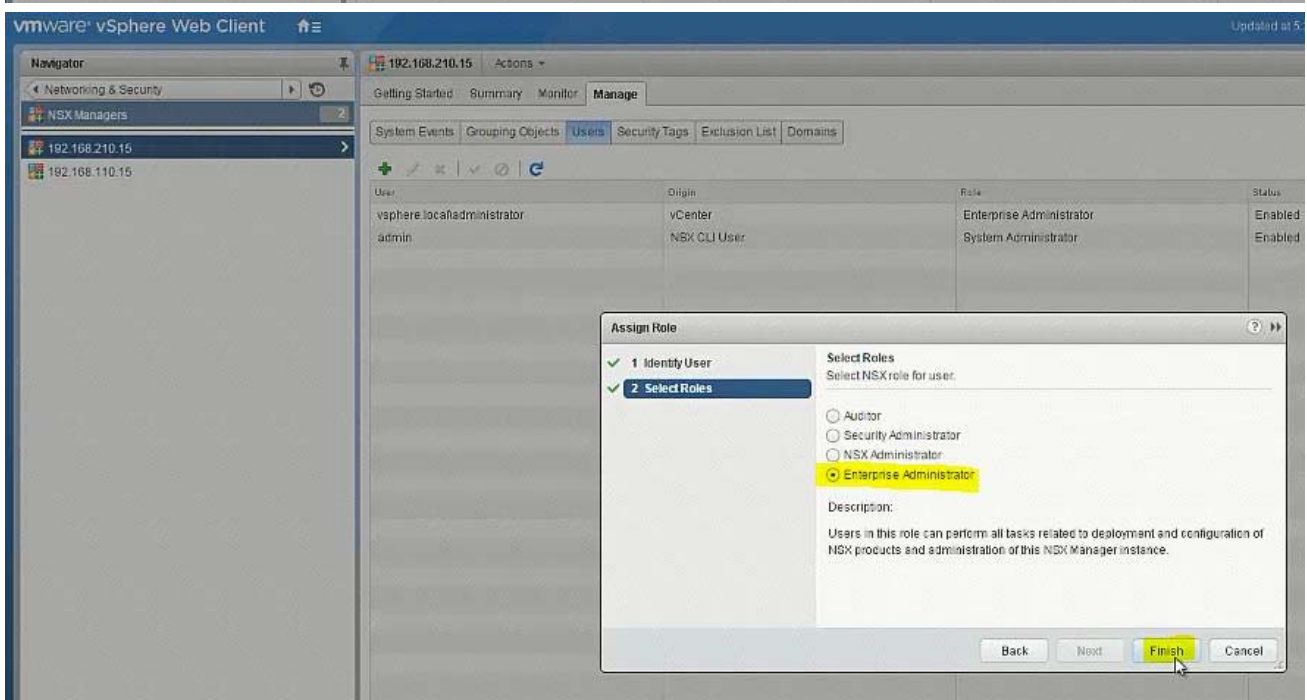
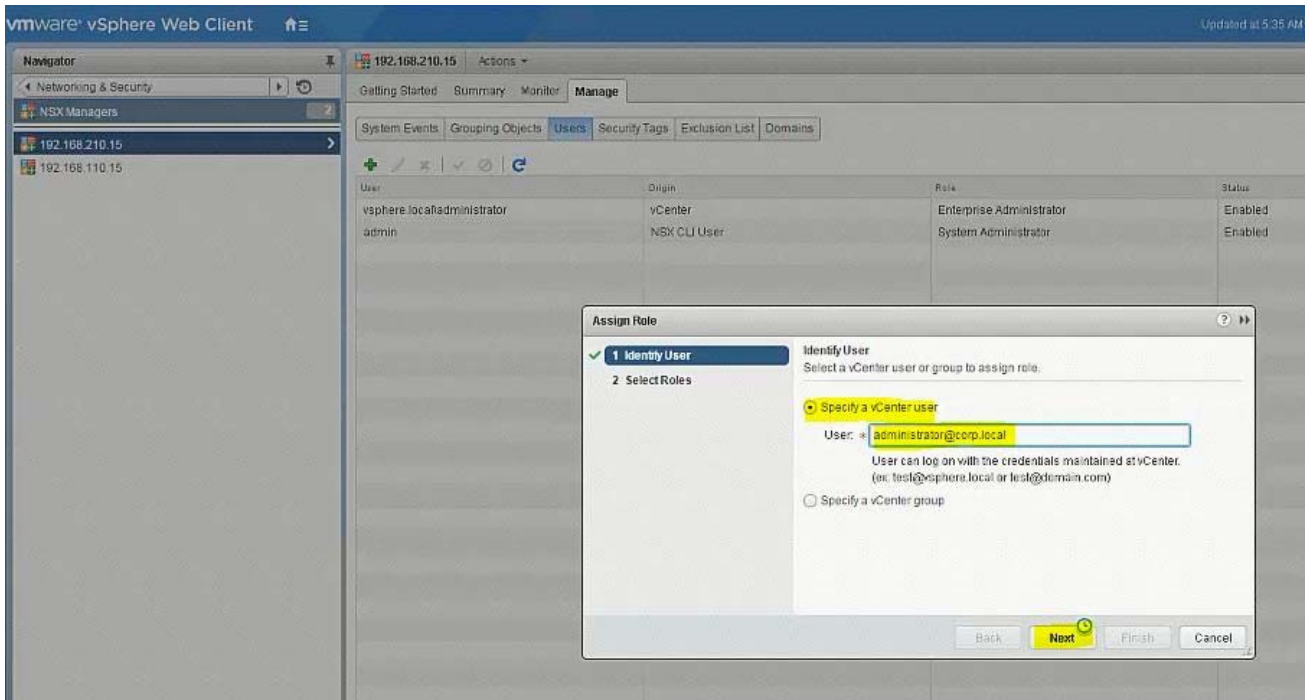
Answer:

SOLUTION:

NSX Manager in SiteB



administrator@corp.local



go to Nsx manager - b. select Manage Vcenter registration. check if lookup service

is configured if not configured it will the details.

lookup service ip = Nsx Manager - a IP Address

Lookup service port = 7444

Lookup service= https://192.168.110.15:7444/lookupservice/sdk

SSO administrator = administrator@vsphere.local

password = VMware1!

click on ok. click on yes.

NOTE: it will show u connected. if not connected. logout and login again

4. (Exam Topic 1)

Create a backup of only the vDS portgroup the NSX controllers utilize along with the NSX Firewall configuration. Also, the security team had identified a missing security policy that needs to be added.

Requirements:

vCenter: vcsa-01a.corp.local

Credentials: administrator@vsphere.local / VMware1!

Components to backup:

- vDS Portgroup that the controllers utilize.

- NSX Firewall configuration.

- Backup file name: vdsPortGroup-backup-NEW.zip, nsxfw-backup-NEW.xml

- Backup file location: Desktop of the ControlCenter.

Security Policy:

File to import: sec-policy-blueprint located on the desktop of the ControlCenter.

- Backup only the vDS portgroup that the NSX Controllers utilize.

- Backup the NSX Firewall configuration.

- Import the sec-policy.blueprint file

Ensure requirements are met.

HOL LAB for Practice:

See the explanation part for complete solution.

Answer:

SOLUTION:

select Network & Security. select service composer. select 192.168.110.15.

select security policy tab. click on + sign enter name sec-policy-blueprint.

click next 3 times. click finish. select sec-policy-blueprint. click right mouse

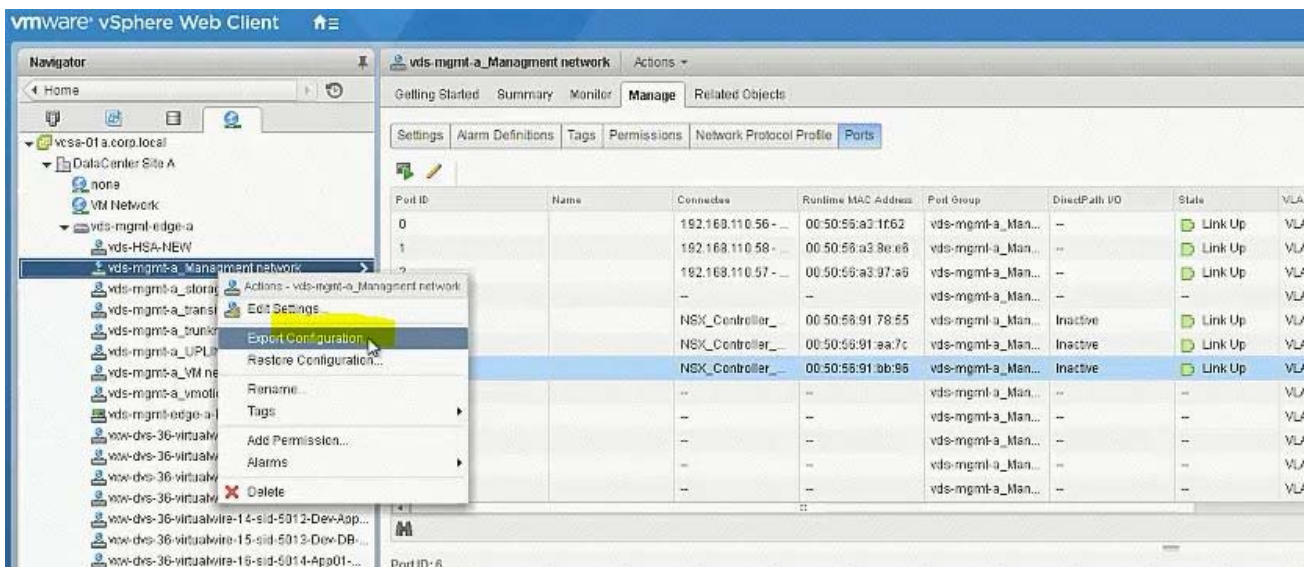
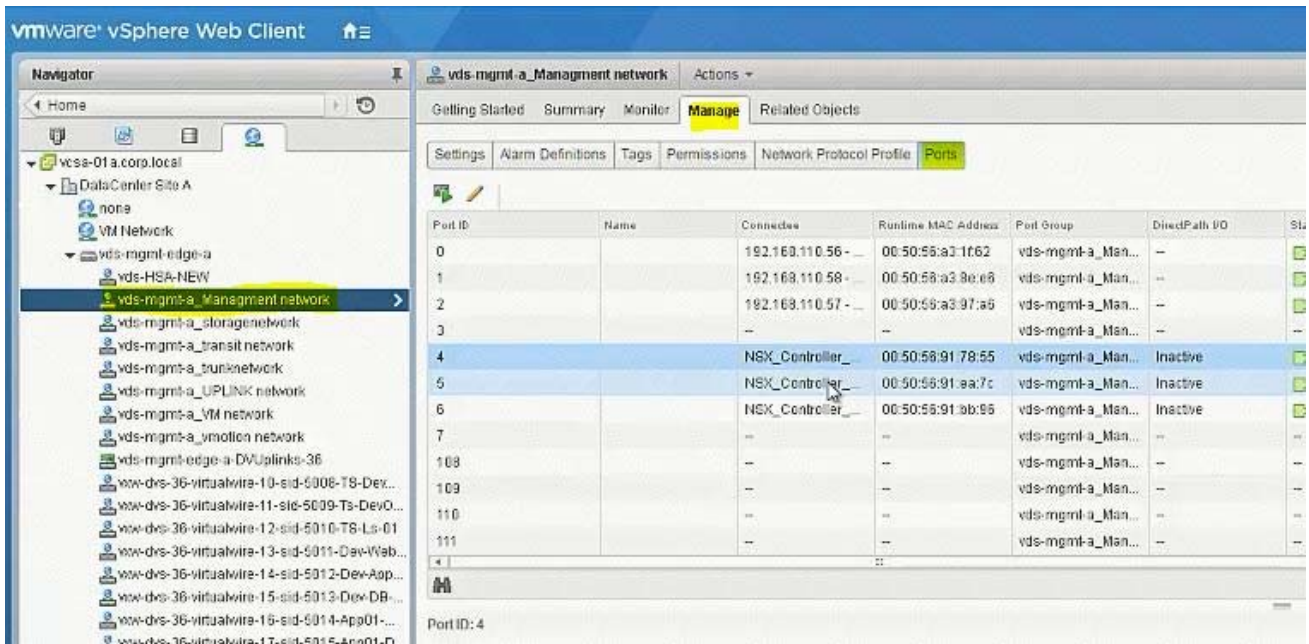
button select export configuration. enter name sec-policy-blueprint. click next

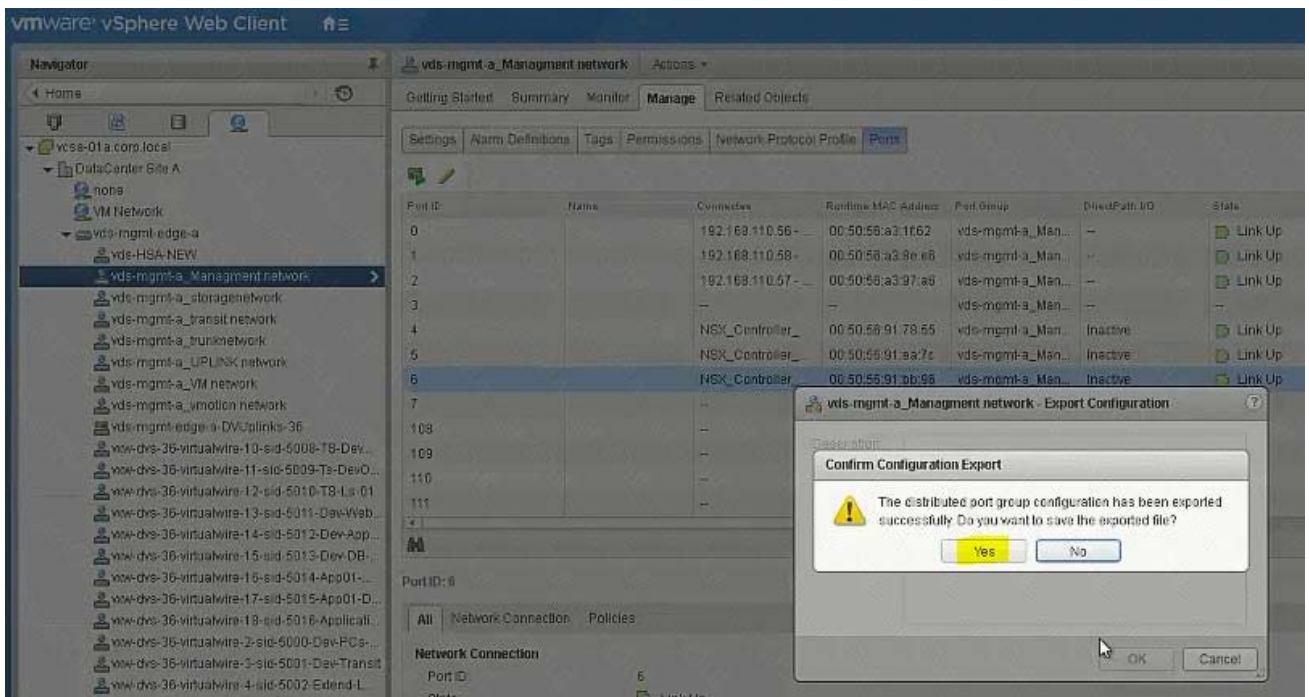
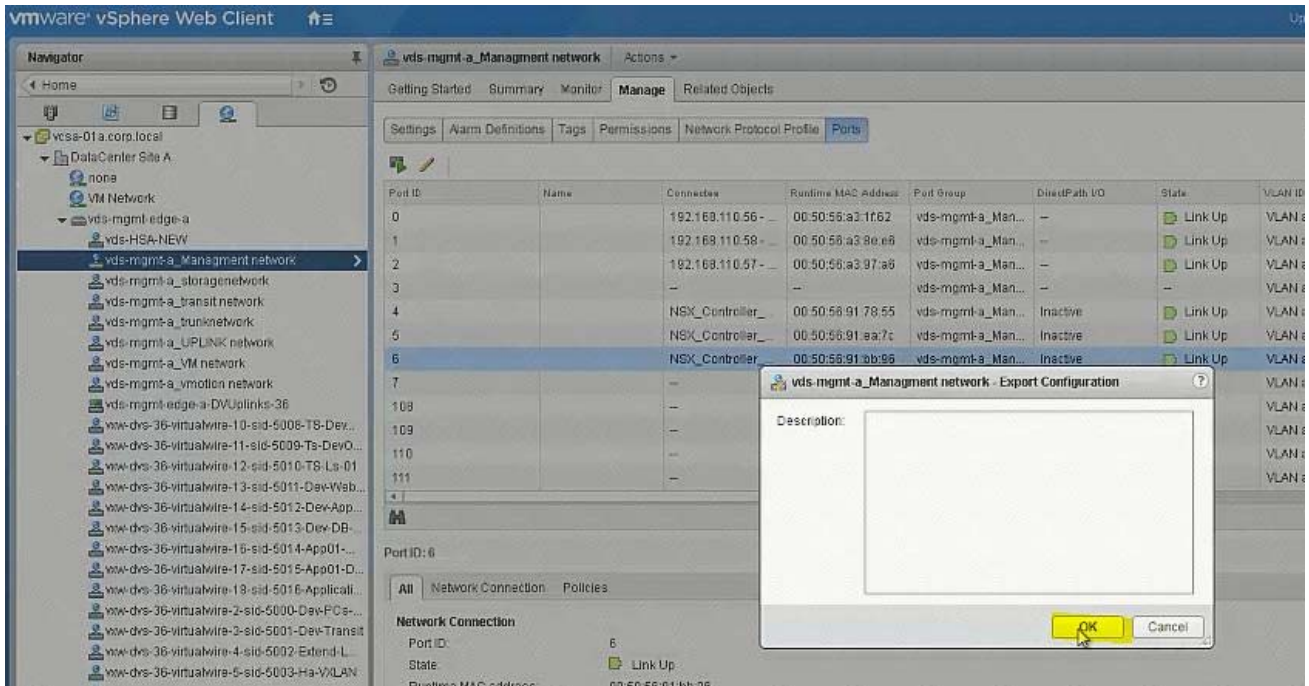
select sec-policy-blueprint. click next. click finish. select desktop location.

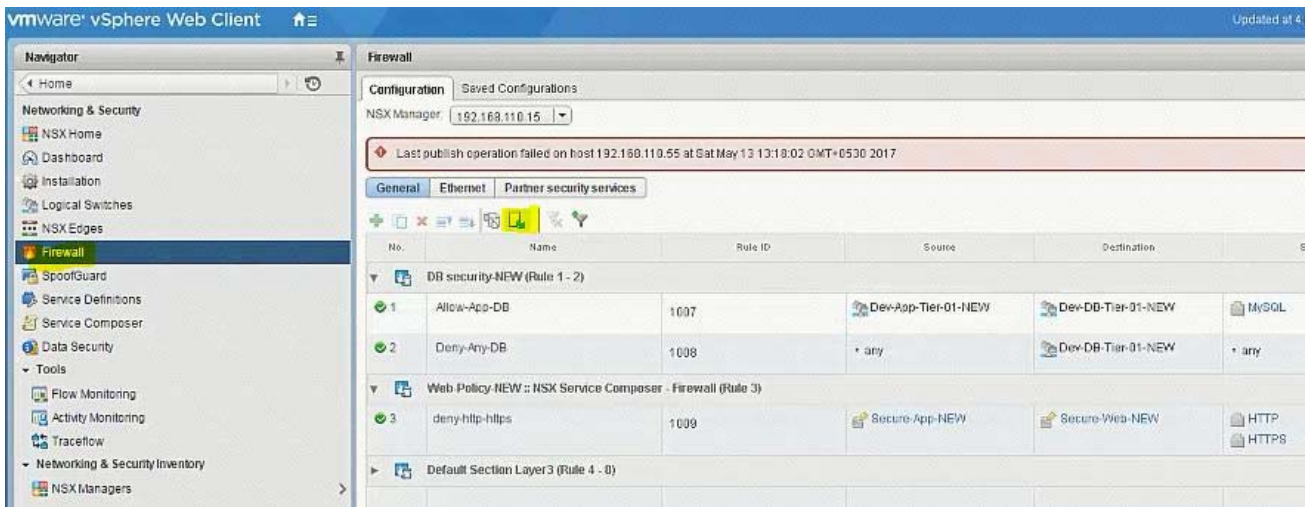
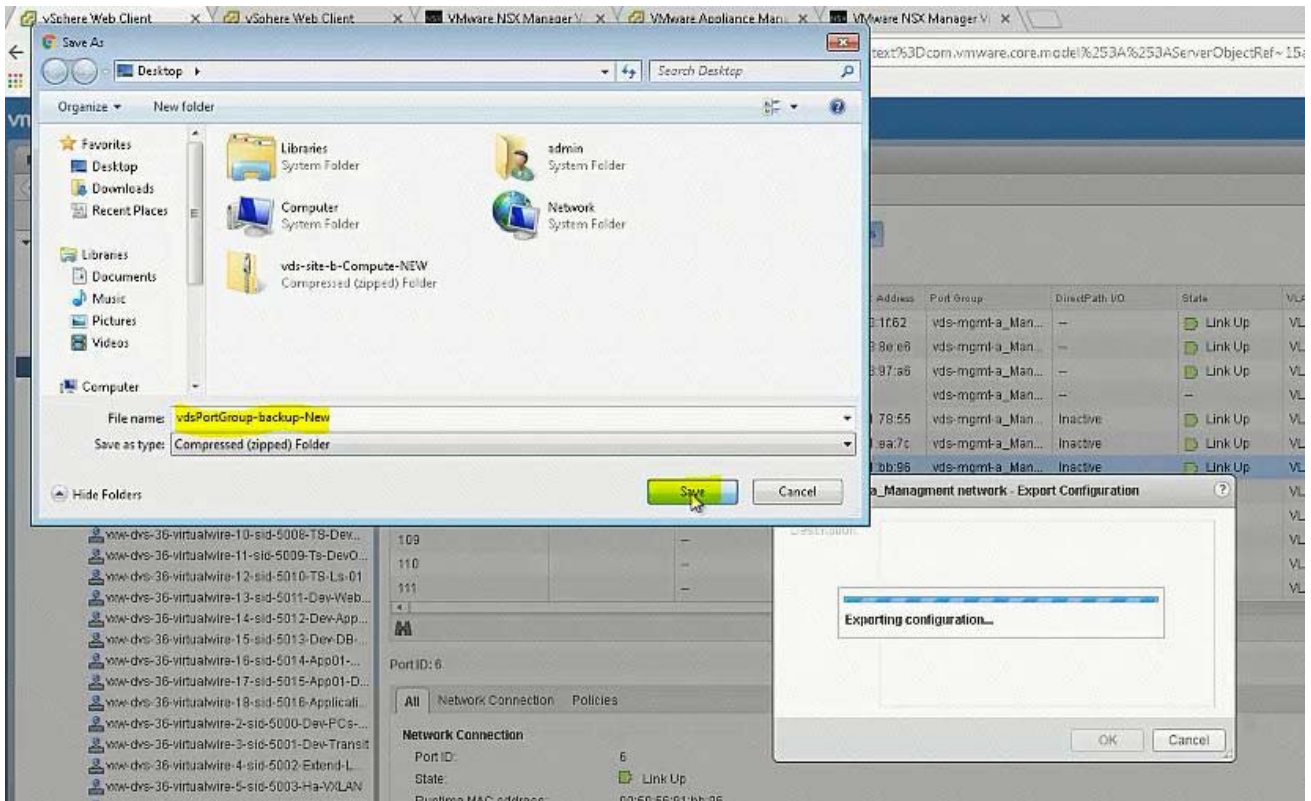
enter name sec-policy-blueprint. click save. select sec-policy-web and delete it.

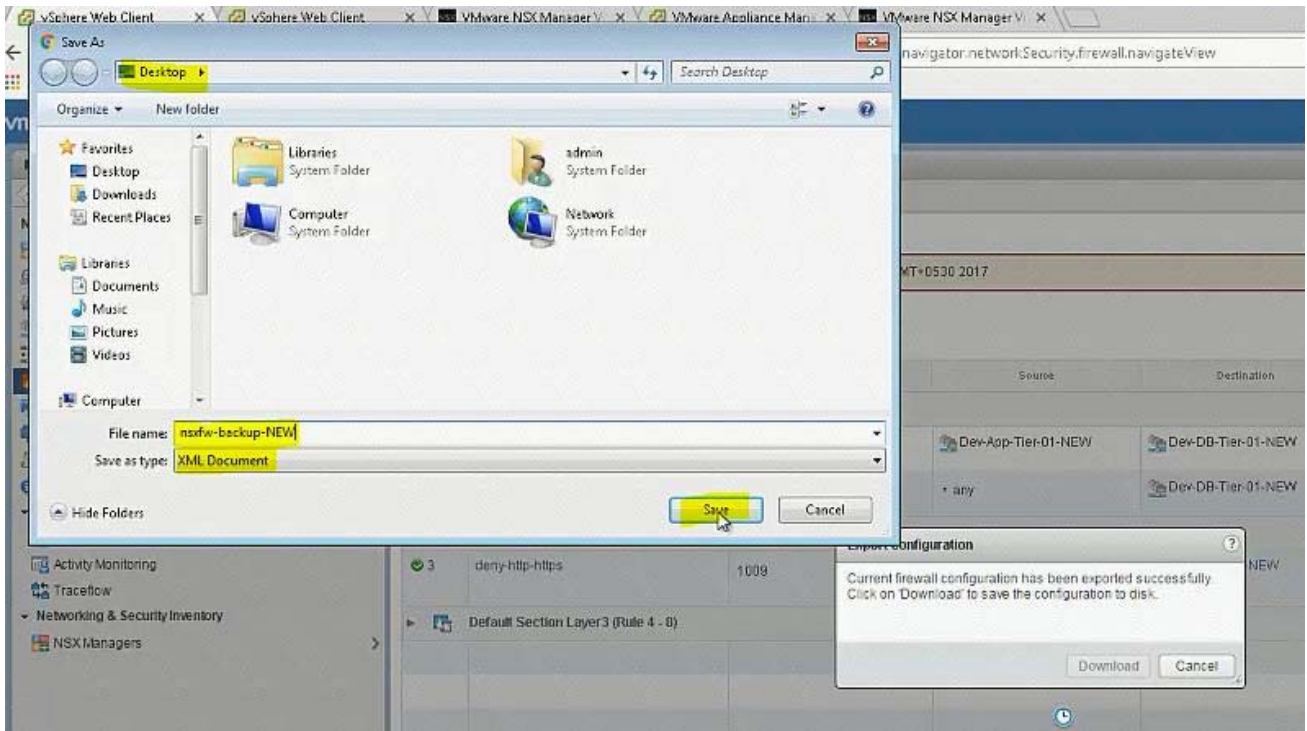
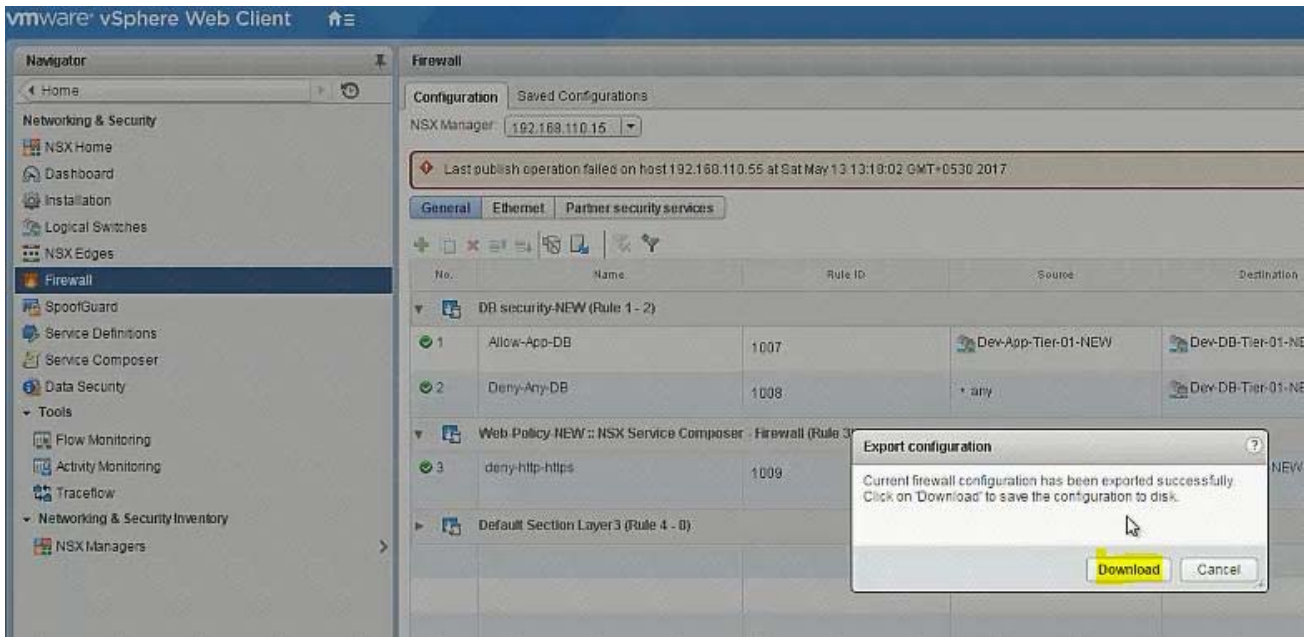
Verify NSX Controllers' vDS Portgroup

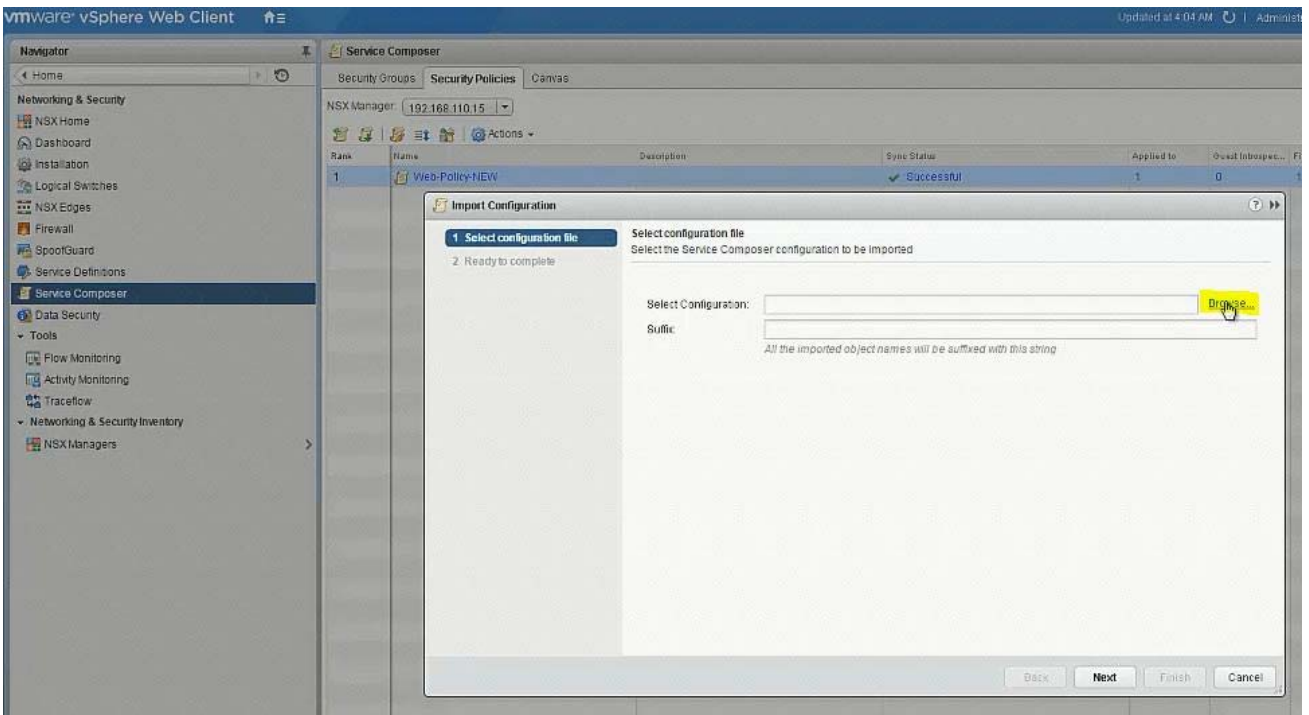
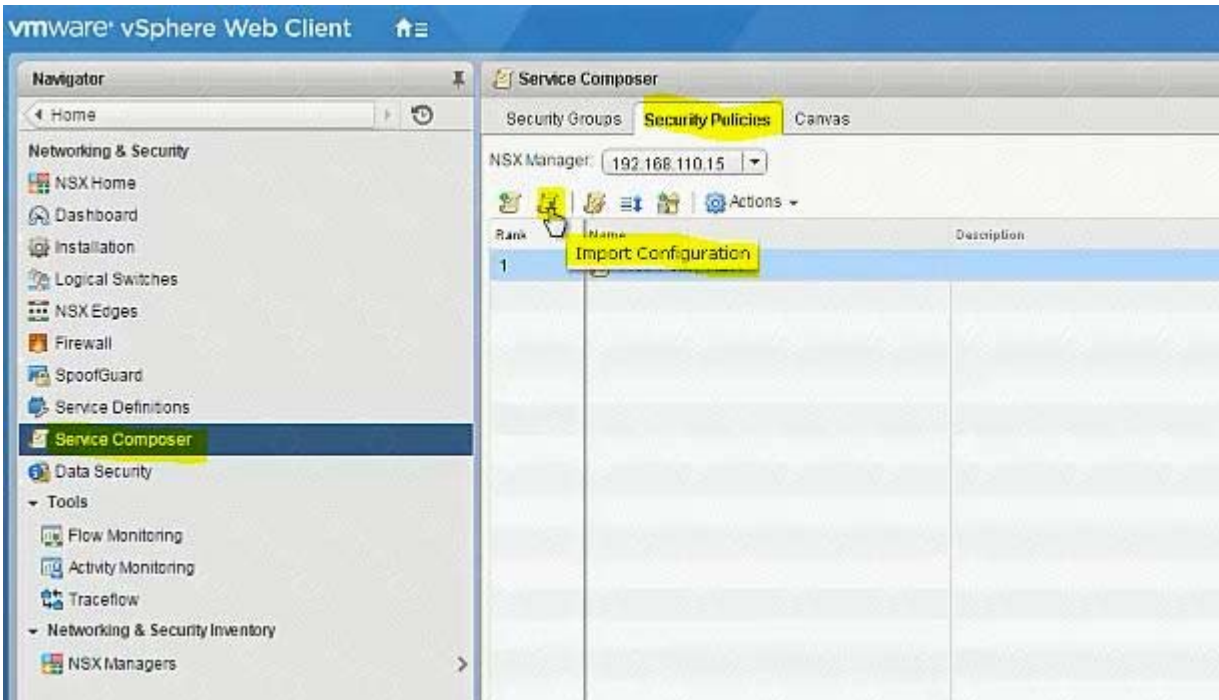
Vds-mgmt-a_Management network (under site A vcenter networking)

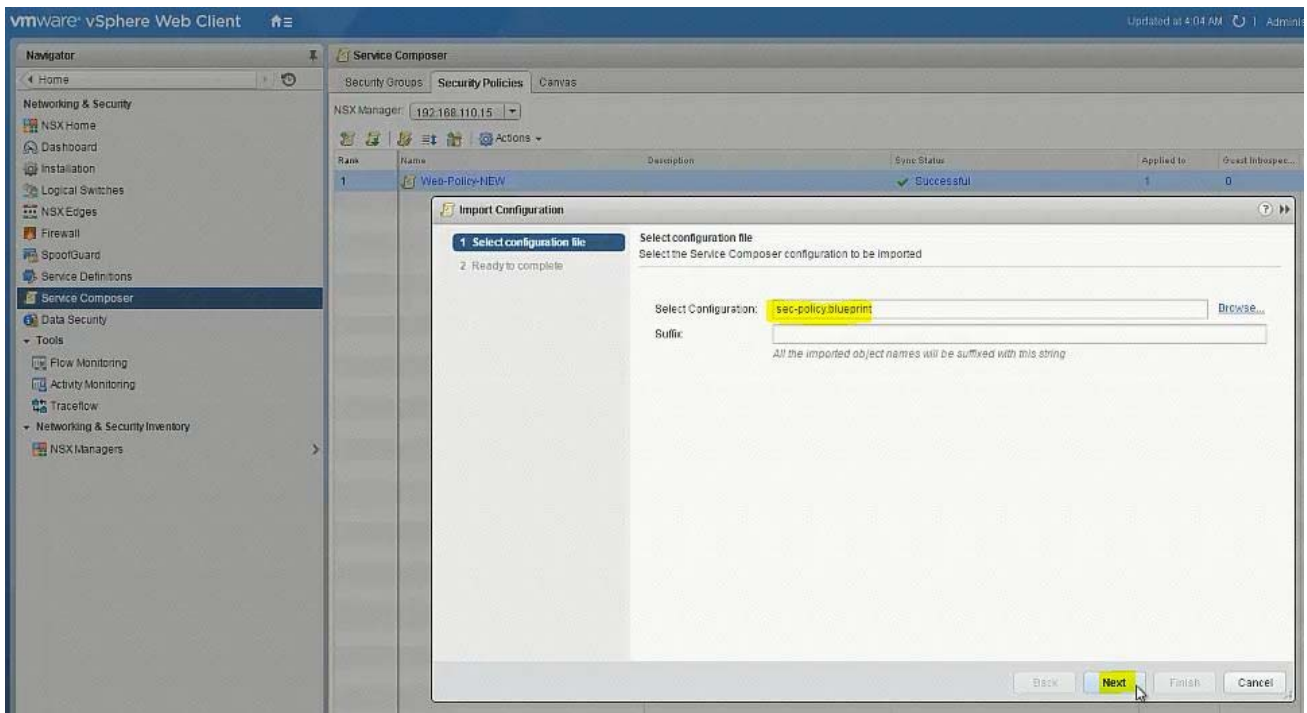
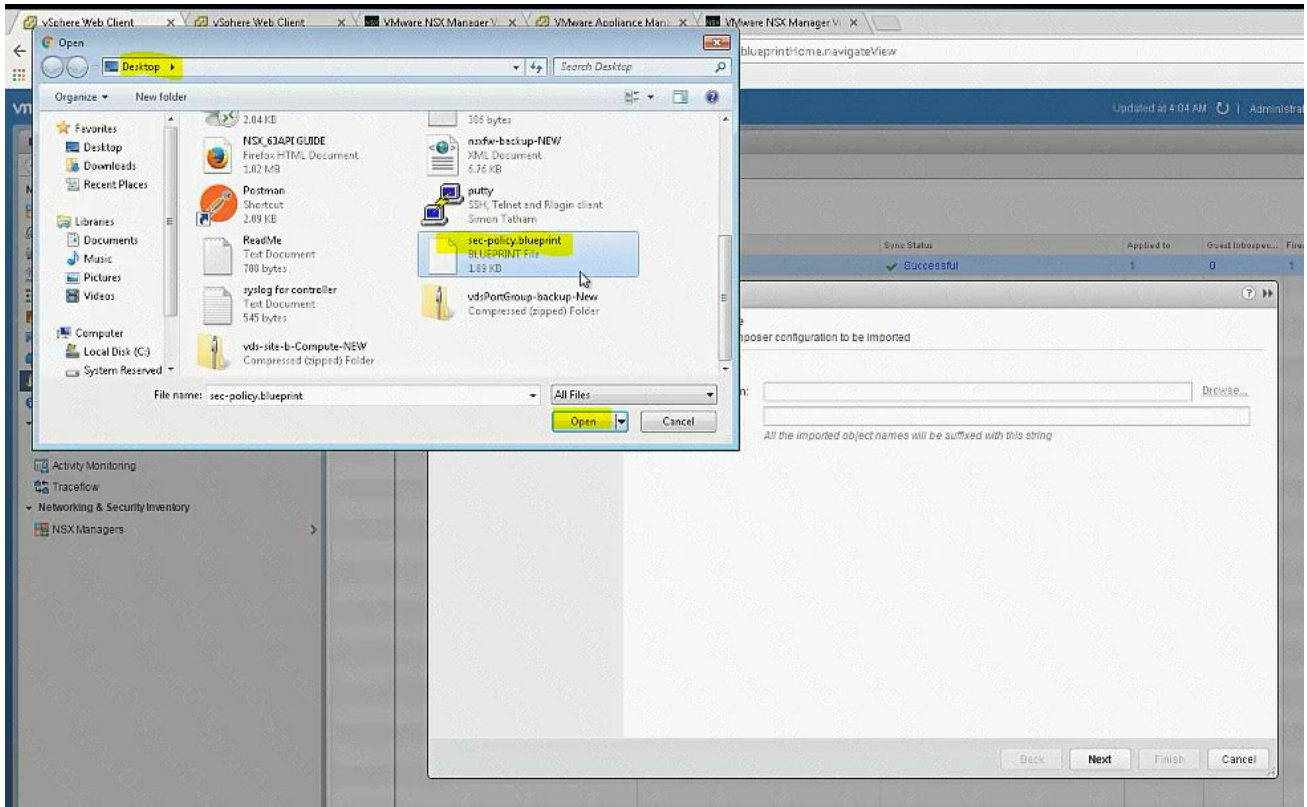


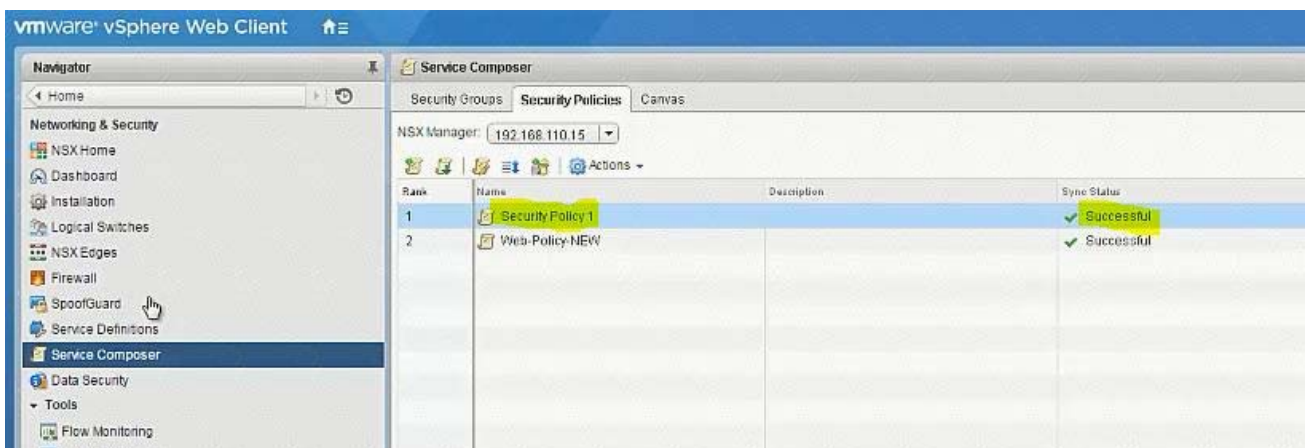
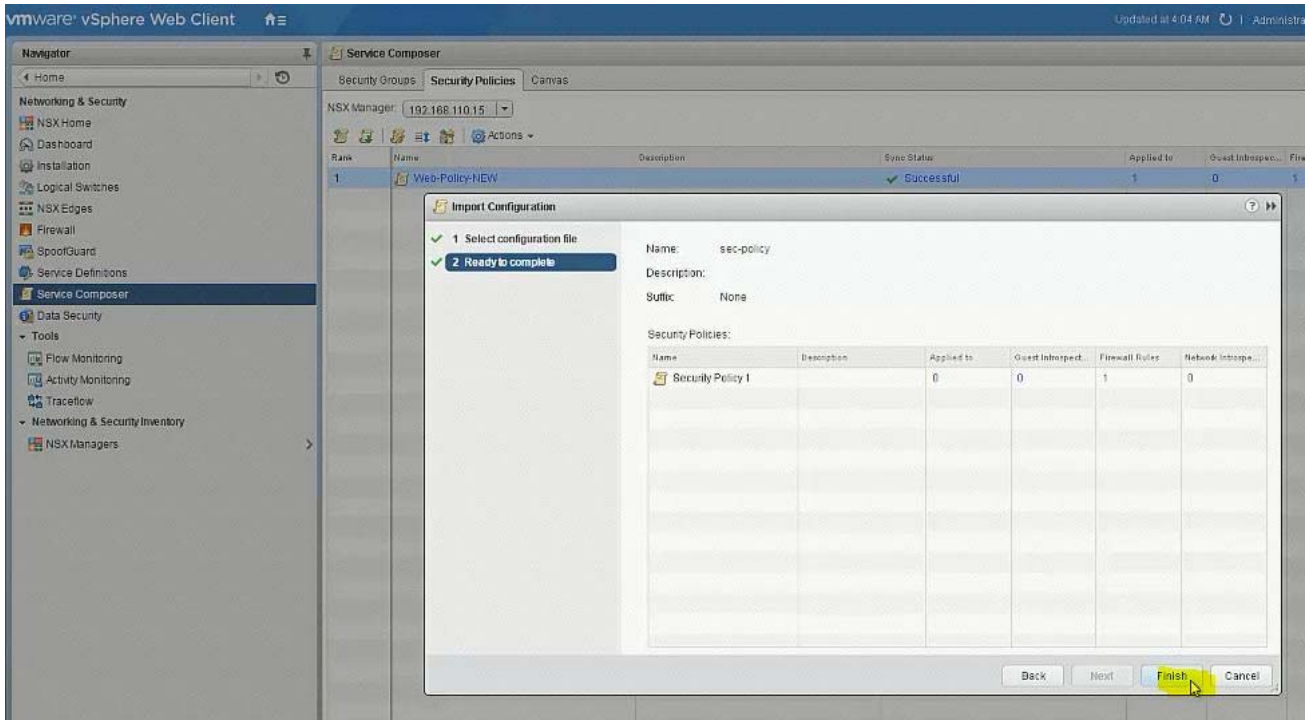












5. (Exam Topic 1)

Routing through TS-Edge-01 is not working. The service provider (SP) has confirmed their configuration is correct.

Requirements:

vCenter: vcsa01a.corp.local

Credential: administrator@vsphere.local / VMware1!

Edge: TS-Edge-01

Credential: admin / VMware1!VMware1!

Problem Edge: TS-Edge01

Local IP Address: 192.168.100.202

SP provided configuration:

Area ID: 10

Type: Normal

Authentication: None

Ensure the OSPF session is established.

Ensure all learned OSPF routes appear.

Copy OSPF routing table information and output to file on ControlCenter Desktop named TS-Edge-01_OSPF.txt

NOTE:

Do not use static route or configure Default Gateway on any Edge.

HOL LAB for Practice:

See the explanation part for complete solution.

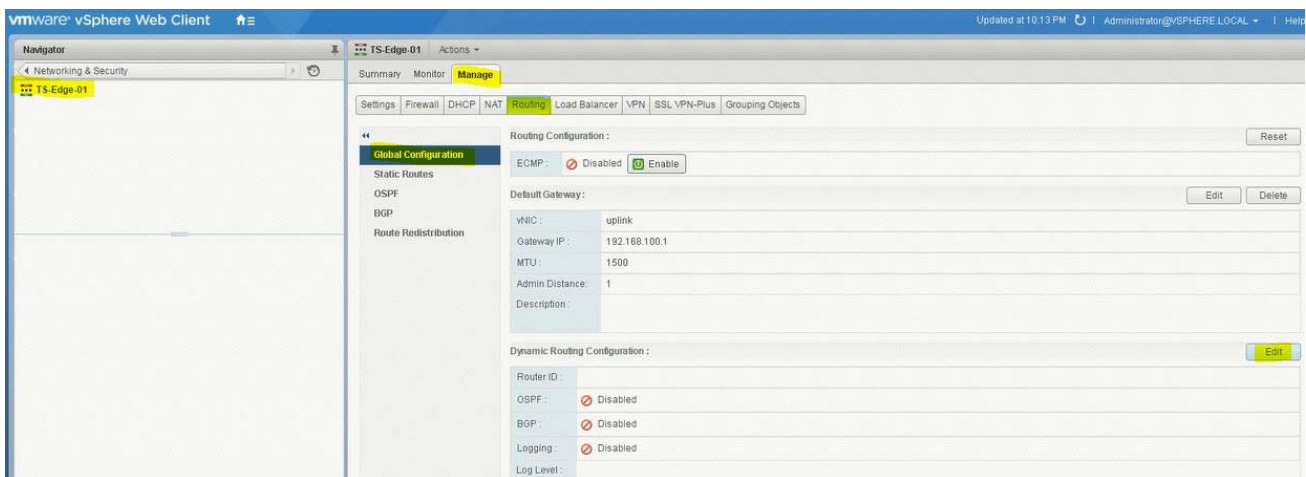
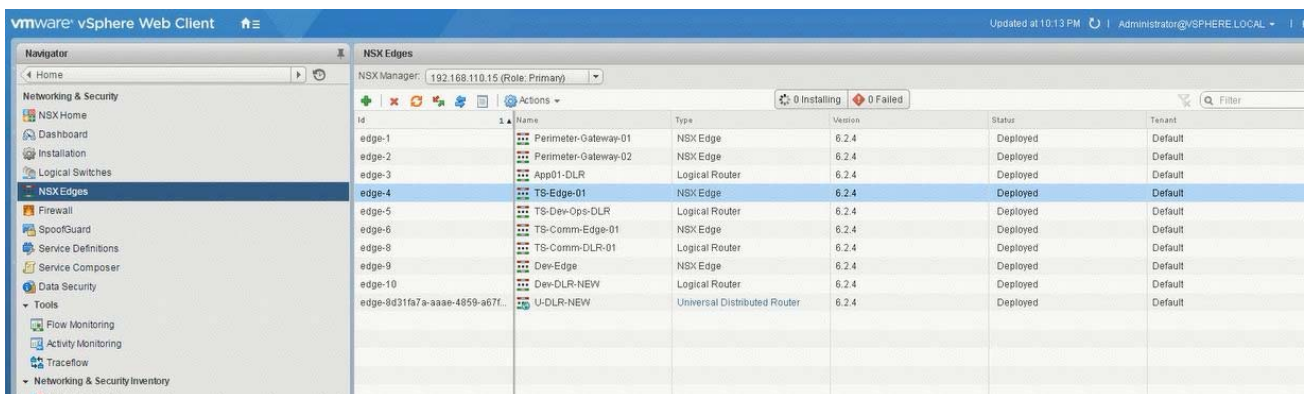
Answer:

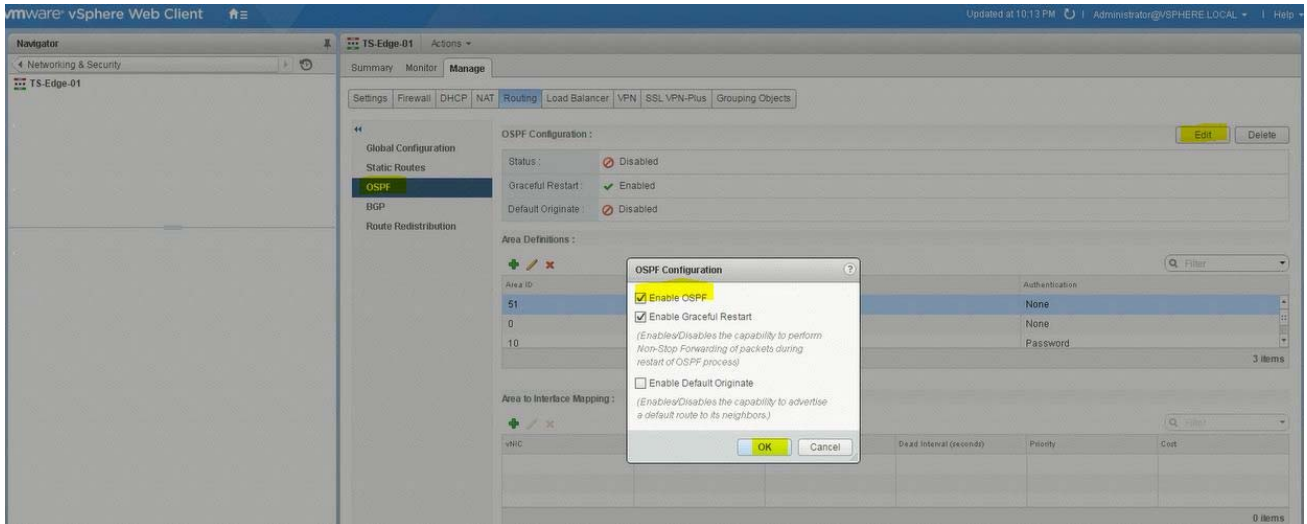
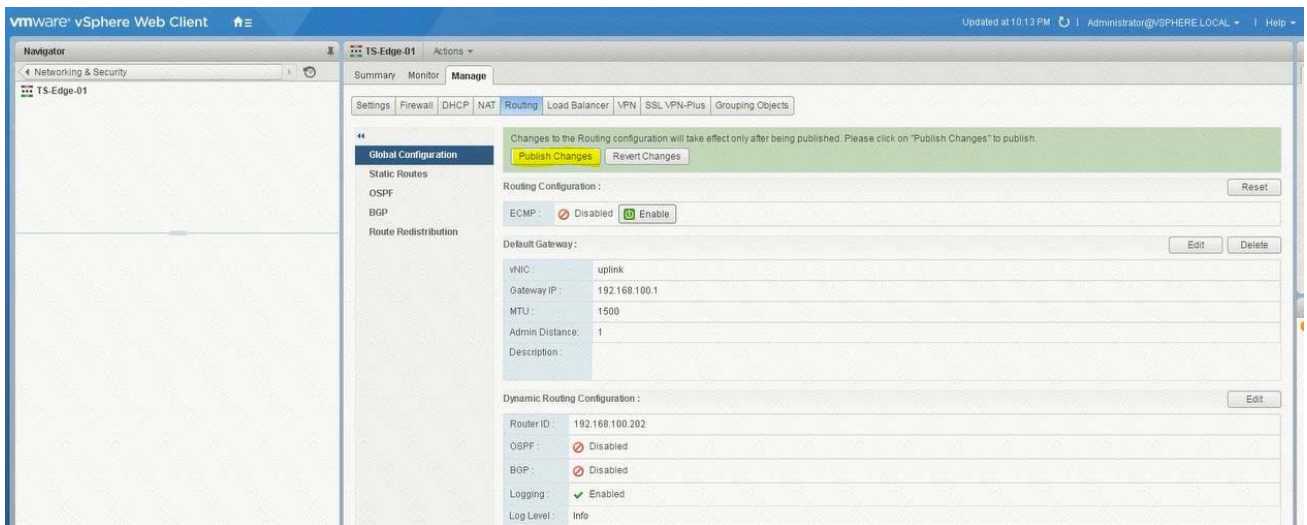
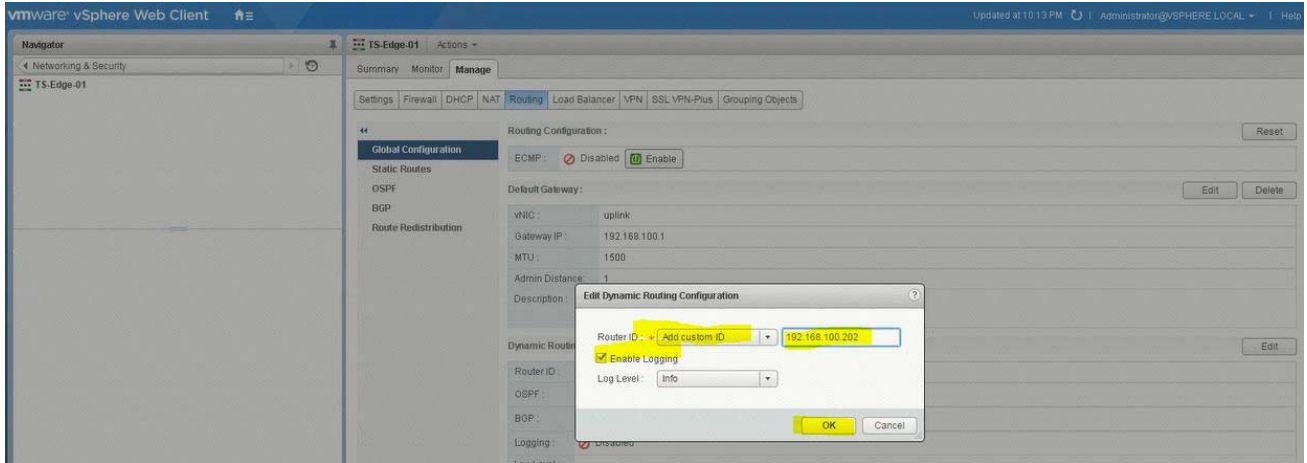
SOLUTION:

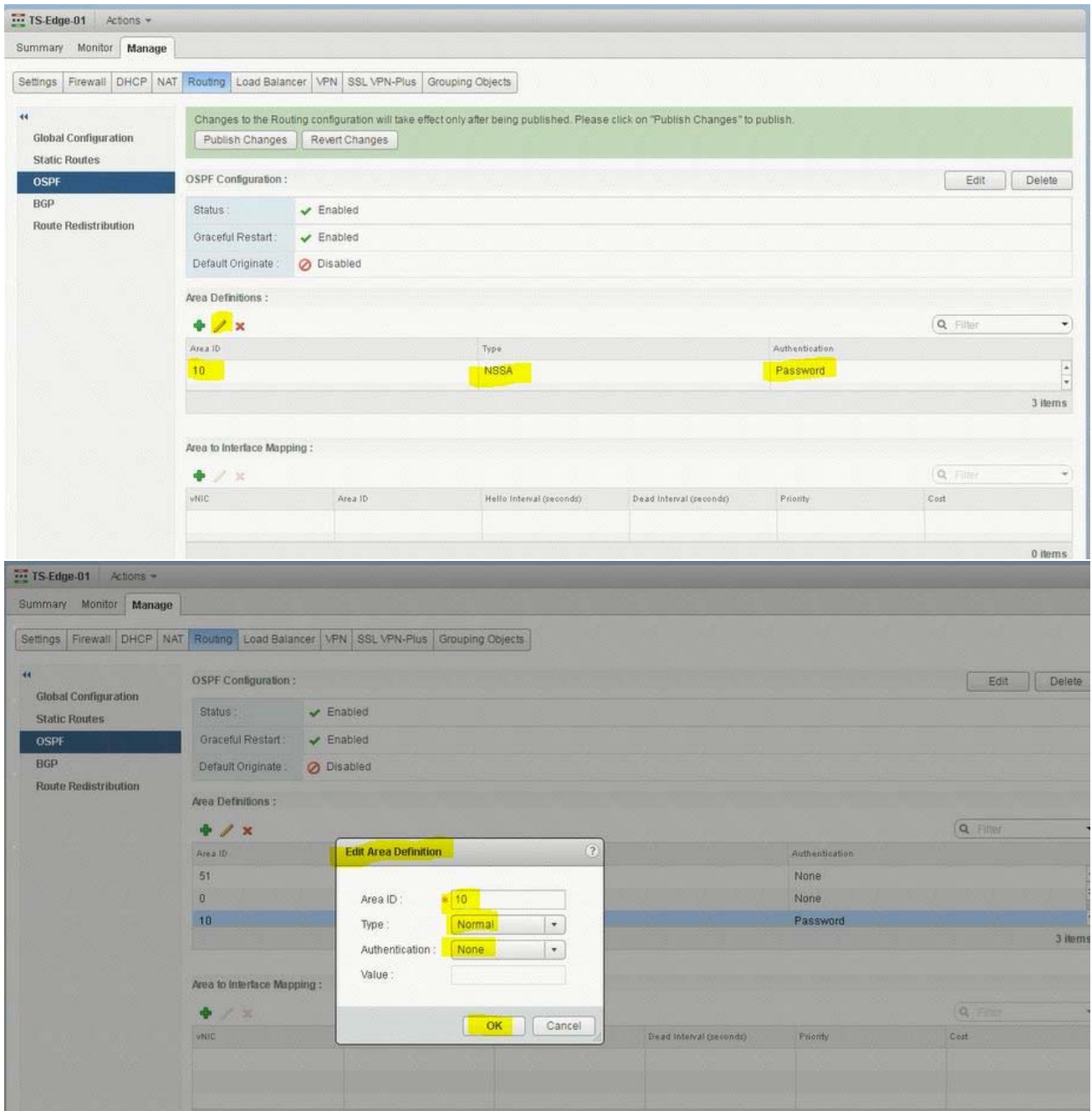
(1) select Home. select Network & Security. select Nsx Edge. select Nsx Manager-a.

select TS-EDGE-01. select manage tab and select settings.

select interface. check ip address and mask of the vnic.







TS-Edge-01 Actions ▾

Summary Monitor **Manage**

Settings Firewall DHCP NAT **Routing** Load Balancer VPN SSL VPN-Plus Grouping Objects

Global Configuration
Static Routes
OSPF
BGP
Route Redistribution

Changes to the Routing configuration will take effect only after being published. Please click on "Publish Changes" to publish!

Publish Changes Revert Changes

OSPF Configuration: Edit

Status: Enabled
Graceful Restart: Enabled
Default Originate: Disabled

Area Definitions:

Area ID	Type	Authentication
51	NSSA	None

Area to Interface Mapping:

vNIC	Area ID	Hello Interval (seconds)	Dead Interval (seconds)	Priority	Cost
------	---------	--------------------------	-------------------------	----------	------

TS-Edge-01 Actions ▾

Summary Monitor **Manage**

Settings Firewall DHCP NAT **Routing** Load Balancer VPN SSL VPN-Plus Grouping Objects

Global Configuration
Static Routes
OSPF
BGP
Route Redistribution

OSPF Configuration: Edit Delete

Status: Enabled
Graceful Restart: Enabled
Default Originate: Disabled

Area Definitions:

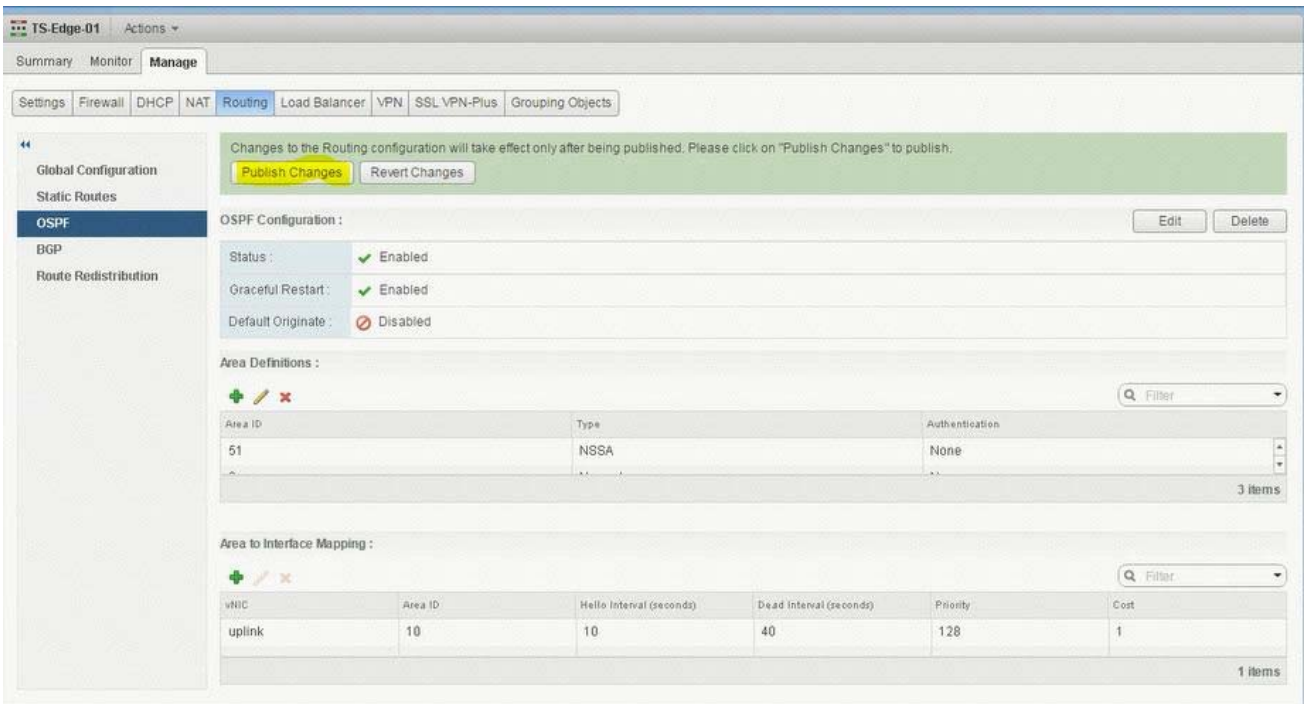
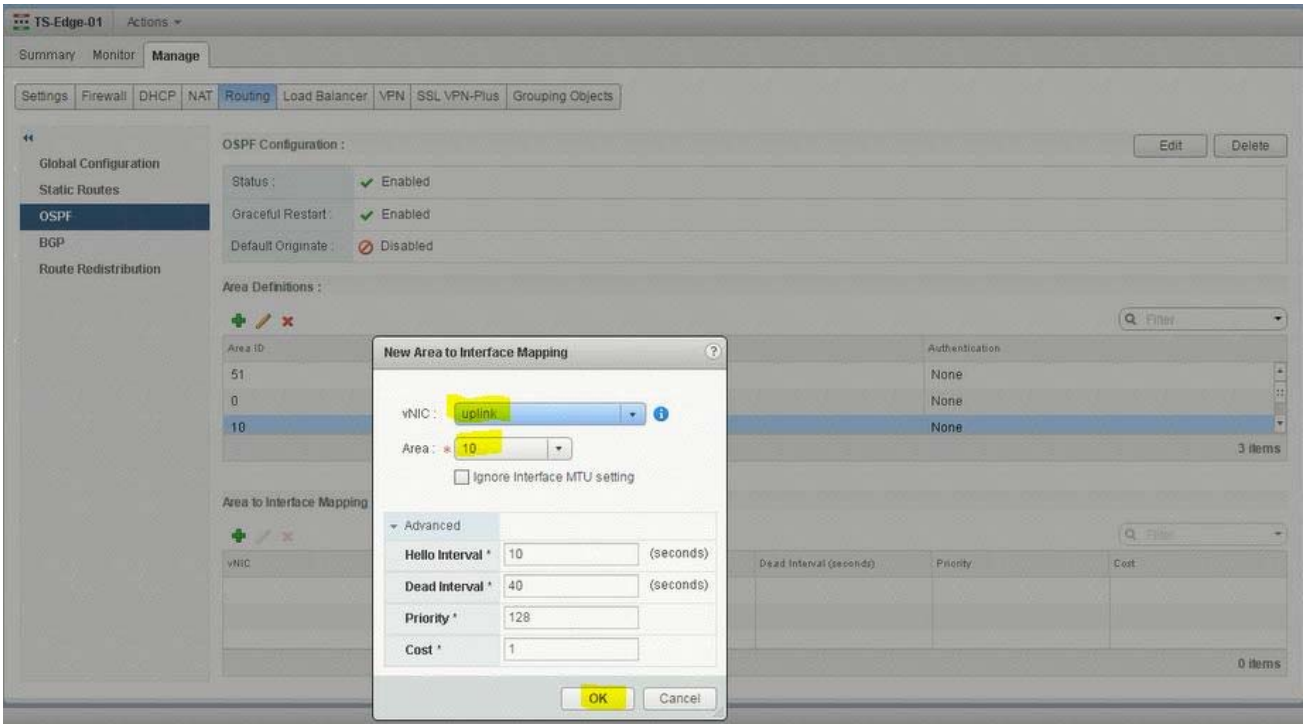
Area ID	Type	Authentication
51	NSSA	None
0	Normal	None
10	Normal	None

3 items

Area to Interface Mapping:

vNIC	Area ID	Hello Interval (seconds)	Dead Interval (seconds)	Priority	Cost
------	---------	--------------------------	-------------------------	----------	------

0 items



open putty. enter ip address 192.168.100.202.

enter command show ip route ospf. copy the output and save in a text file name TS-Edge-01.txt.

```

192.168.100.2 - PuTTY
From 192.168.100.1: icmp_seq=4 Redirect Network(New nexthop: 192.168.100.6)
From 192.168.100.6 icmp_seq=4 Time to live exceeded
From 192.168.100.1: icmp_seq=5 Redirect Network(New nexthop: 192.168.100.6)
From 192.168.100.6 icmp_seq=5 Time to live exceeded
^C
NSX-edge-4-0>
--- 192.168.33.8 ping statistics ---
5 packets transmitted, 0 received, +5 errors, 100% packet loss, time 4007ms

NSX-edge-4-0>
NSX-edge-4-0>
NSX-edge-4-0>
NSX-edge-4-0> show ip route ospf

Codes: O - OSPF derived, i - IS-IS derived, B - BGP derived,
C - connected, S - static, L1 - IS-IS level-1, L2 - IS-IS level-2,
IA - OSPF inter area, E1 - OSPF external type 1, E2 - OSPF external type 2,
N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2

O E2 172.16.0.0/16 [110/0] via 192.168.100.6
O E2 192.168.5.0/24 [110/0] via 192.168.100.6
O E2 192.168.6.4/30 [110/0] via 192.168.100.6
NSX-edge-4-0>
  
```

Copy and save OSPF route table in notepad.

```

192.168.100.2 - PuTTY
NSX-edge-4-0>
NSX-edge-4-0>
NSX-edge-4-0>
NSX-edge-4-0>
NSX-edge-4-0>
NSX-edge-4-0>
NSX-edge-4-0>
NSX-edge-4-0>
NSX-edge-4-0>
NSX-edge-4-0>
NSX-edge-4-0>
NSX-edge-4-0>
NSX-edge-4-0>
NSX-edge-4-0>
NSX-edge-4-0>
NSX-edge-4-0>
NSX-edge-4-0>
NSX-edge-4-0>
NSX-edge-4-0> show ip route ospf

Codes: O - OSPF derived, i - IS-IS derived, B - BGP derived,
C - connected, S - static, L1 - IS-IS level-1, L2 - IS-IS level-2,
IA - OSPF inter area, E1 - OSPF external type 1, E2 - OSPF external type 2,
N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2

O E2 172.16.0.0/16 [110/0] via 192.168.100.6
O E2 192.168.5.0/24 [110/0] via 192.168.100.6
O E2 192.168.6.4/30 [110/0] via 192.168.100.6
NSX-edge-4-0>
  
```