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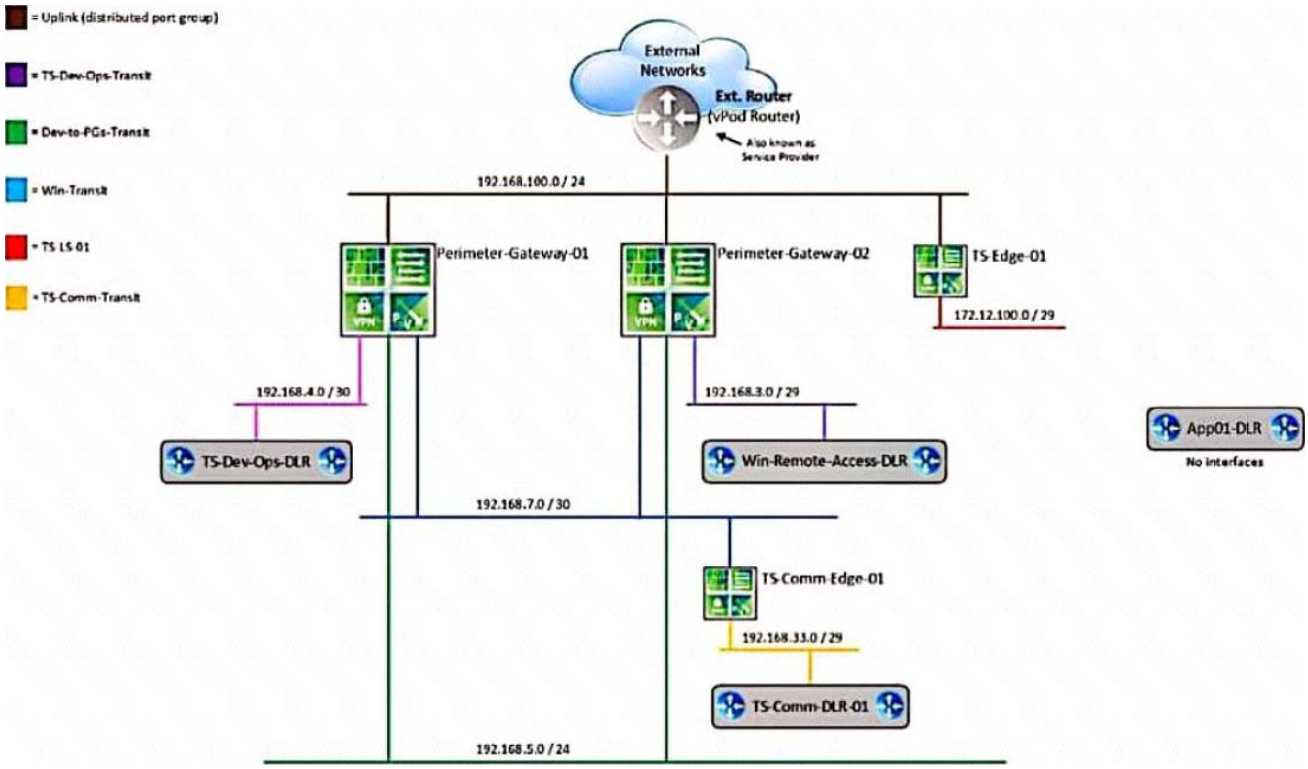
Exam : **3V0-643**

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

loand 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 vccenter - 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 childern 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!

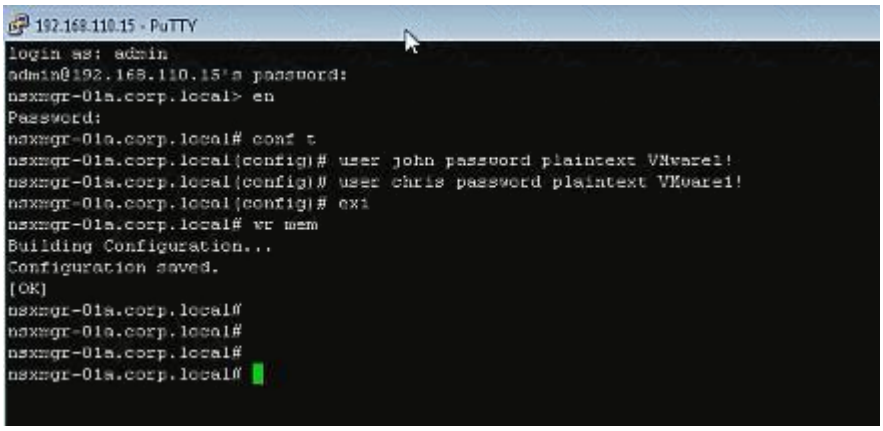
Conf t

User john password plaintext VMware1!

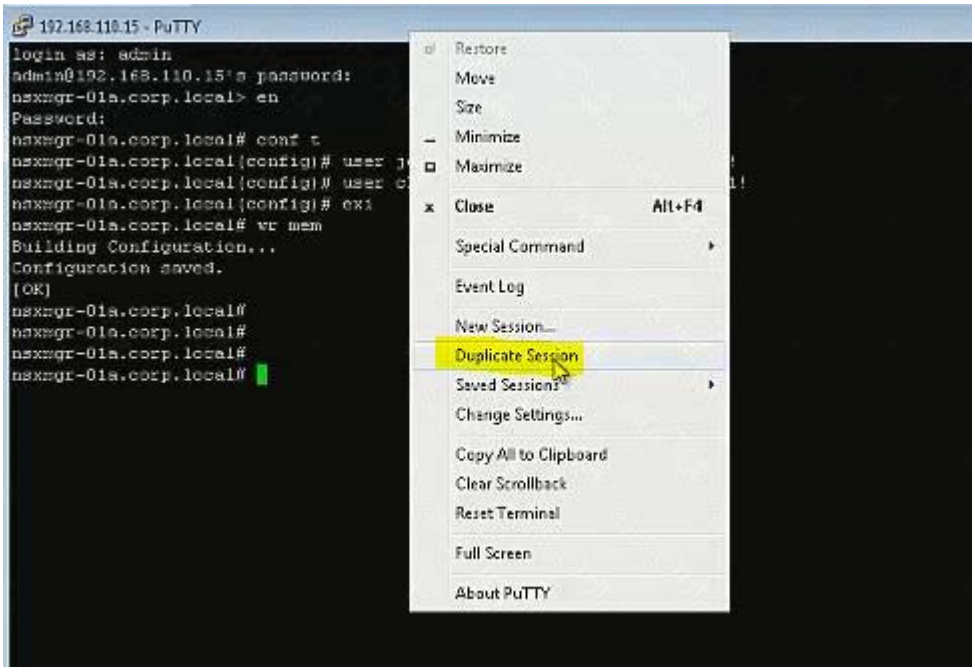
User chris password plaintext VMWare1!

Exit

Write memory



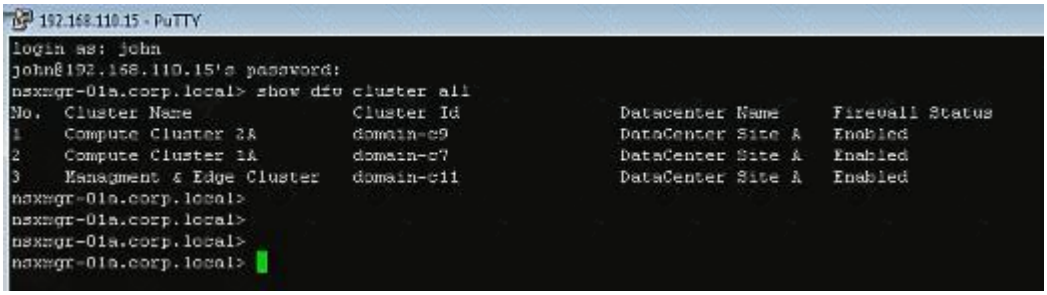
Open new Putty session or Duplicate Session:

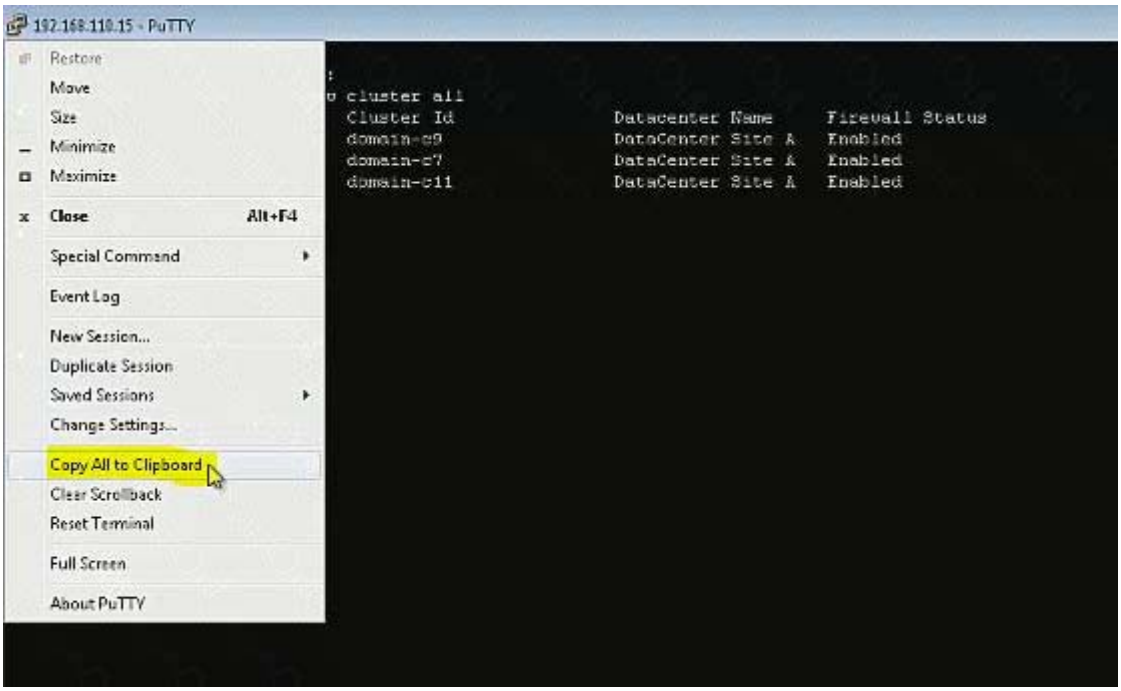


john

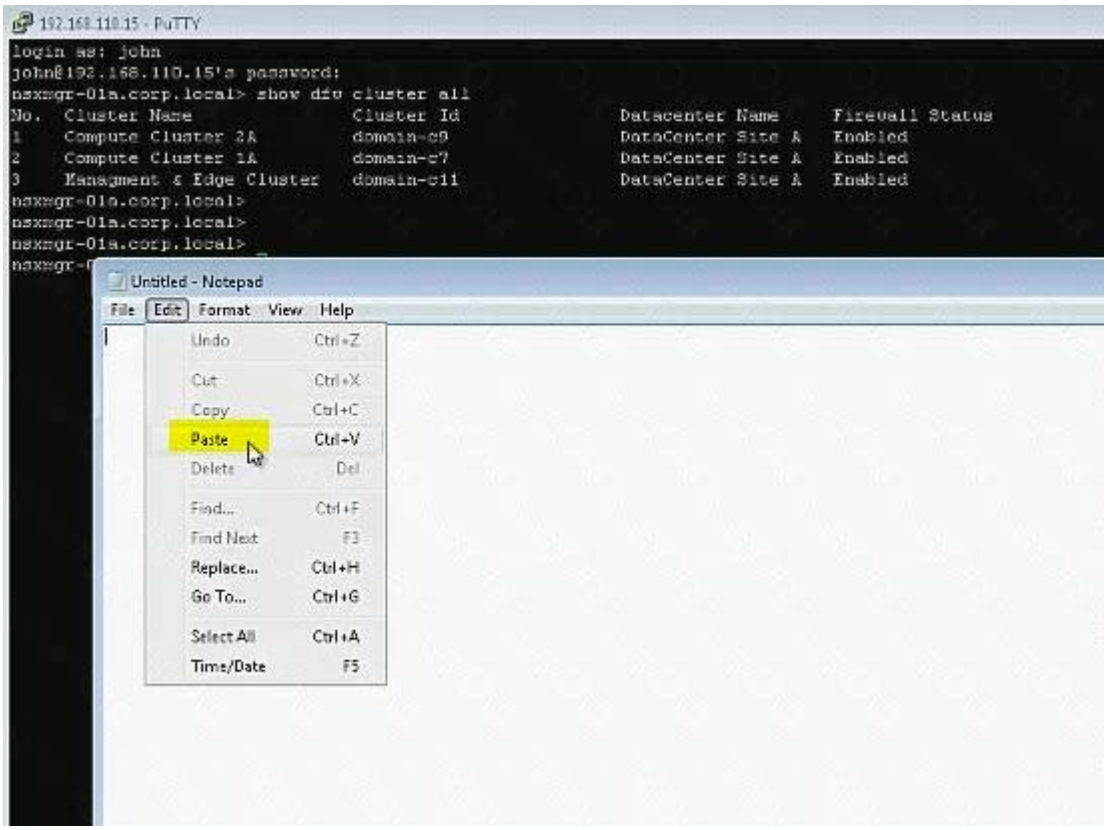
VMware1!

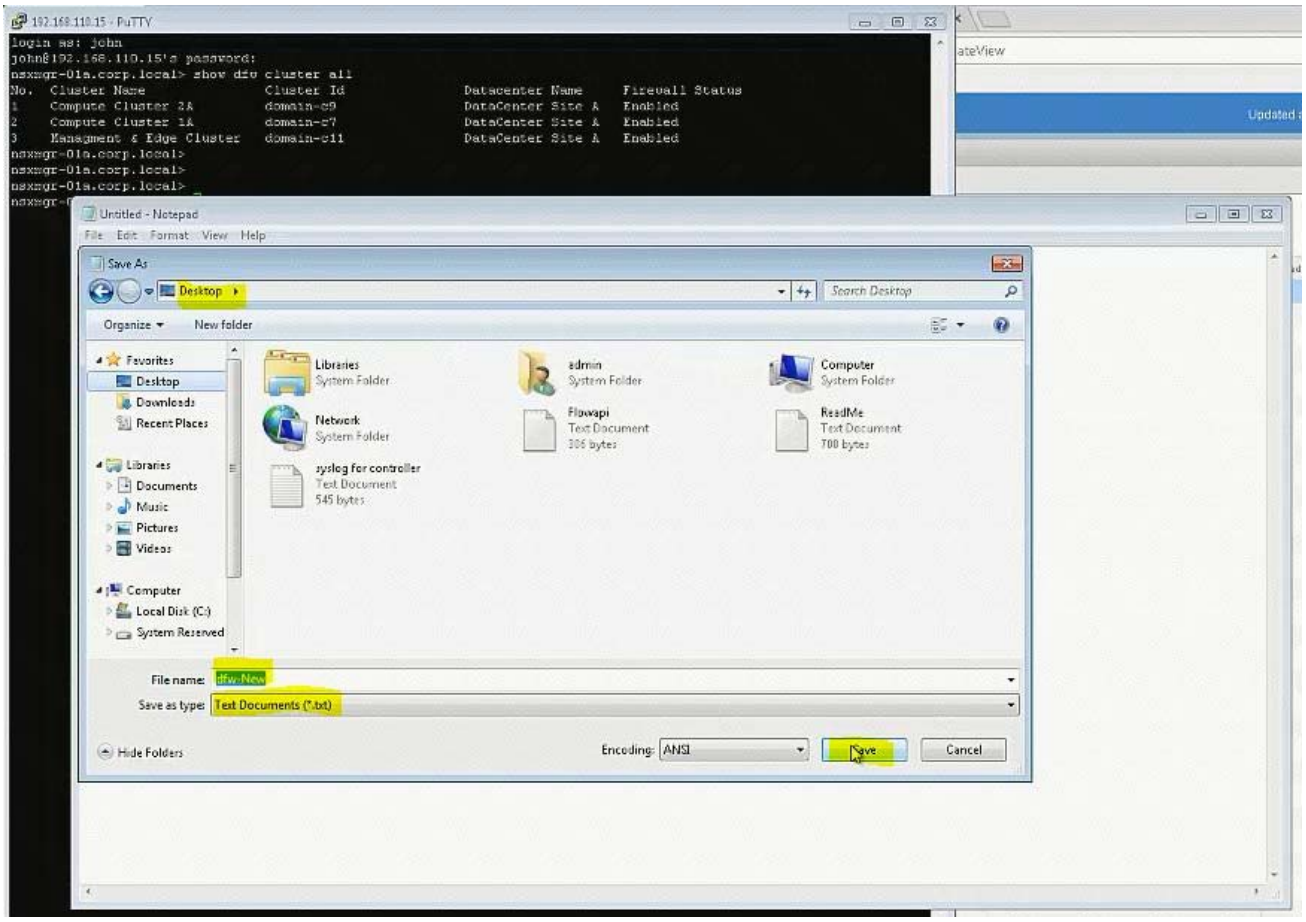
Show dfw cluster all

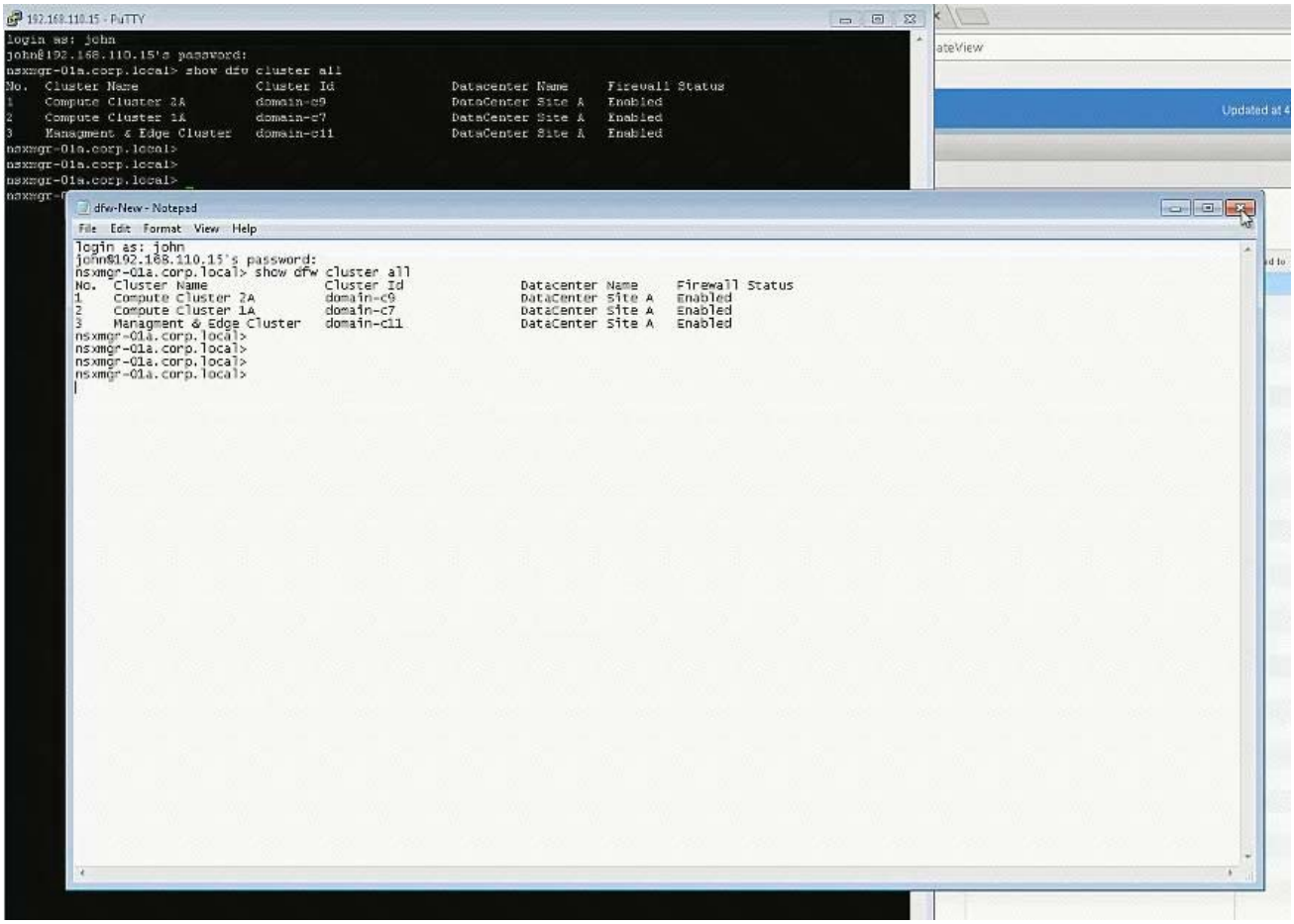




Ctrl+V don’t work in exam.


192.168.110.15 - PuTTY
login as: john
john@192.168.110.15's password:
nsxmgr-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 Managment & Edge Cluster domain-c11 DataCenter Site A Enabled
nsxmgr-01a.corp.local>
nsxmgr-01a.corp.local>
nsxmgr-01a.corp.local>
Untitled - Notepad
File Edit Format View Help
Undo Ctrl+Z
Cut Ctrl+X
Copy Ctrl+C
Paste Ctrl+V
Delete Del
Find... Ctrl+F
Find Next F3
Replace... Ctrl+H
Go To... Ctrl+G
Select All Ctrl+A
Time/Date F5


Untitled - Notepad
Save As
Desktop
Search Desktop
Organize
New folder
Favorites
Desktop
Downloads
Recent Places
Libraries
Documents
Music
Pictures
Videos
Computer
Local Disk (C:)
System Reserved
Libraries System Folder
admin System Folder
Computer System Folder
Network System Folder
Flowapi Text Document 306 bytes
ReadMe Text Document 708 bytes
syslog for controller Text Document 545 bytes
File name: dfw-New
Save as type: Text Documents (*.txt)
Encoding: ANSI
Save
Cancel
Hide Folders



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.

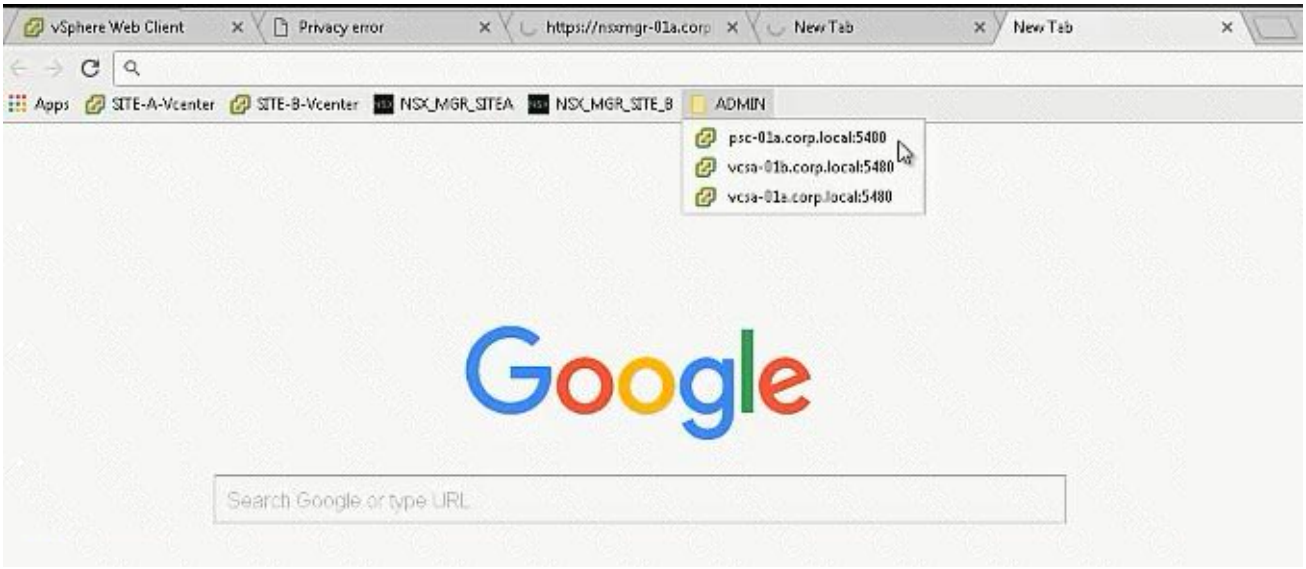
Requirements:
vCenterB server: vcsa-01b.corp.local
Credentials: administrator@vsphere.local / VMware1!
vCenterB VAMI Credentials: root / VMware1!
Cluster: Computer Cluster 1B
ESXI Hosts: esx-01b.corp.local, esx-02.corp.local
Platform service controller: psc-01a.corp.local(192.168.110.9)
NSX Manager: 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

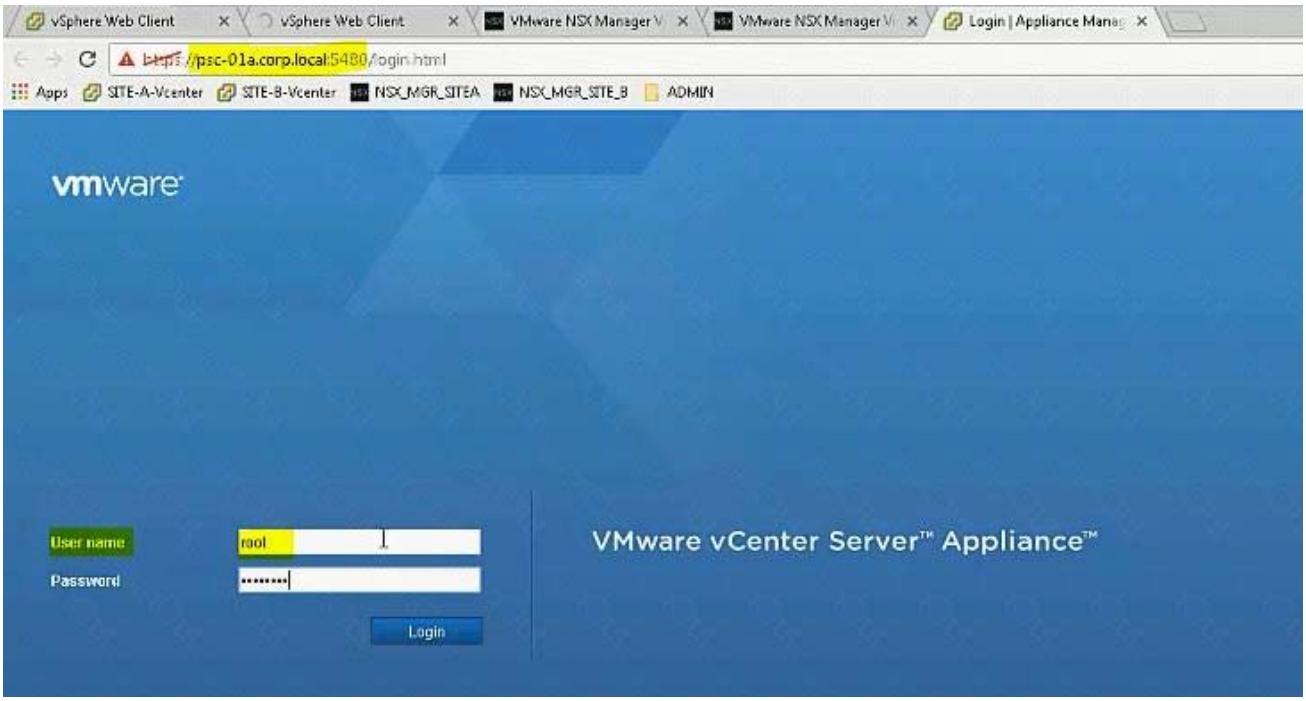
All identifiers must be maintained.
*Assign the remaining two used vmnics for the ESXi hosts to the newly imported vDS.

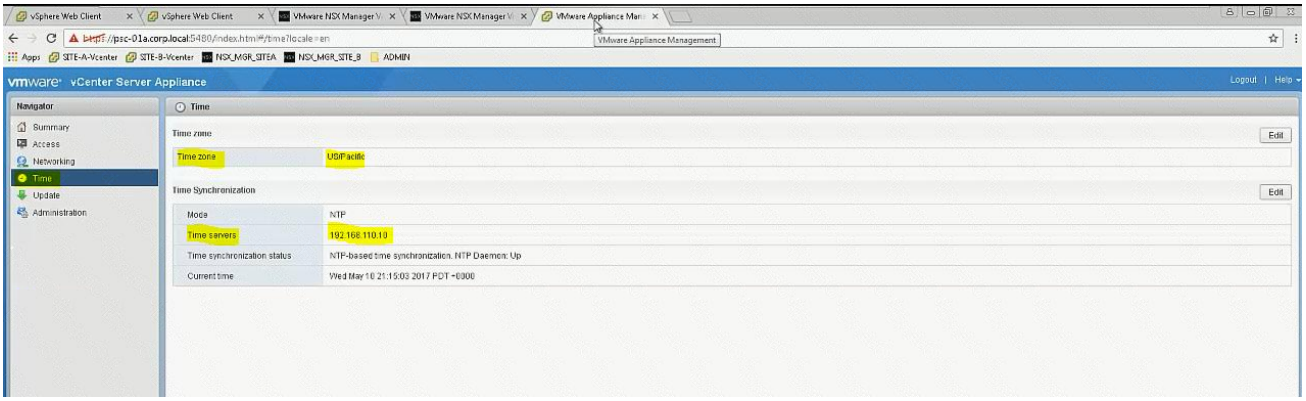
NOTE:
Do not migrate VMkernels from the standard switches on the hosts.
HOL LAB for Practice:
a http://docs.hol.vmware.com/hol-isim/HOL-2019/hol-1903-01-nsxinstall-p1.htm
HOL-1903-01 Page 16 or you can directly Open a NSX manager in
the lab and edit the existing settings
bOpen PSC and NSX manager in HOL-1903-01 and look for NTP Server
loand 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.

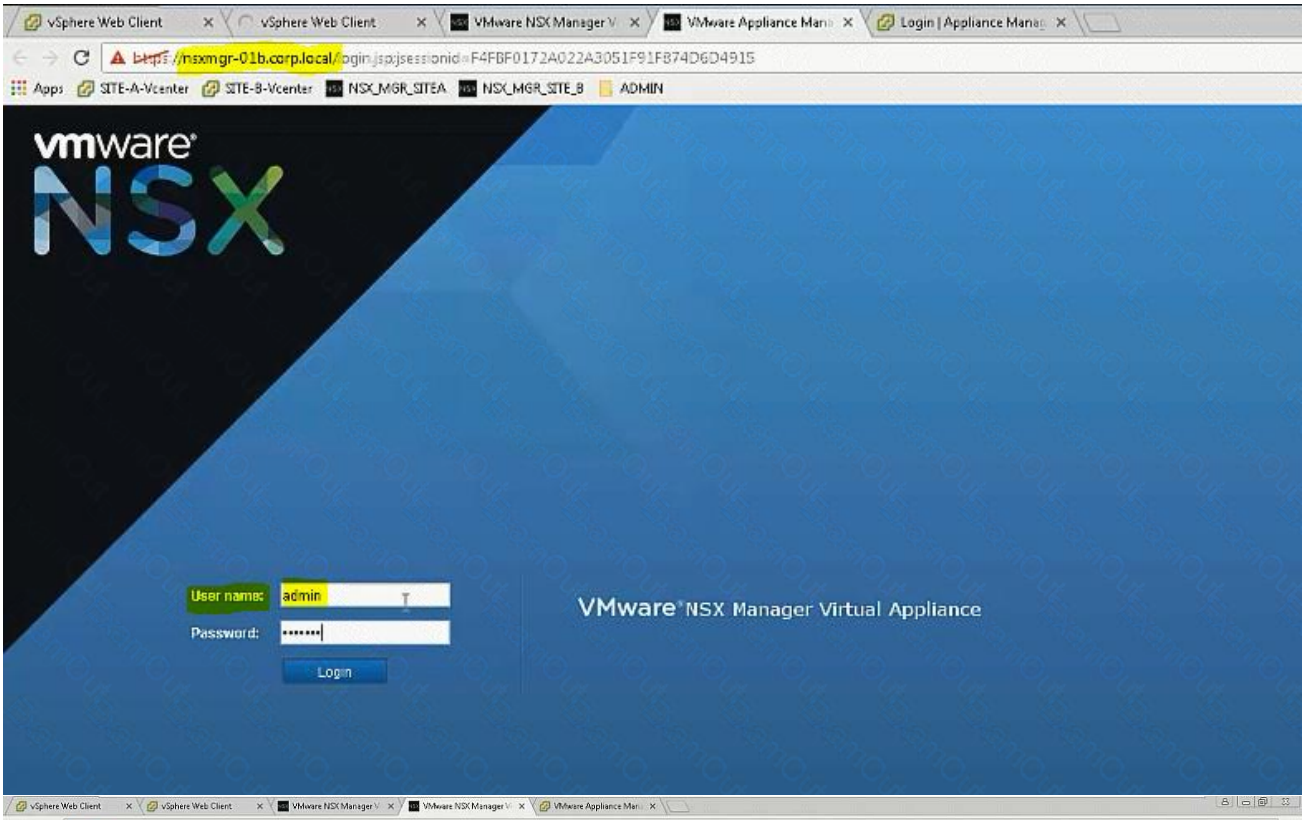
Answer:

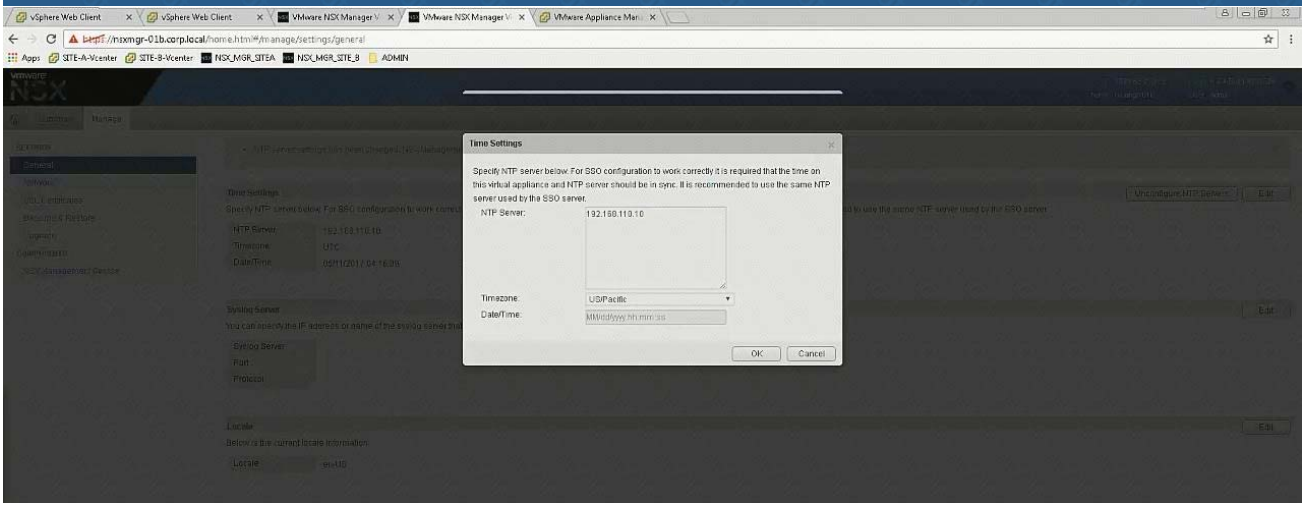
SOLUTION:
Step 1: Login to PSC using VAMI credentials and note down the time zone and server details and use the same in SiteB NSX Manager time settings.
Step 2: Update the time settings, complete lookup service configuration, associate SiteB NSX manager to SiteB vCenter. Check the status from SiteA 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).

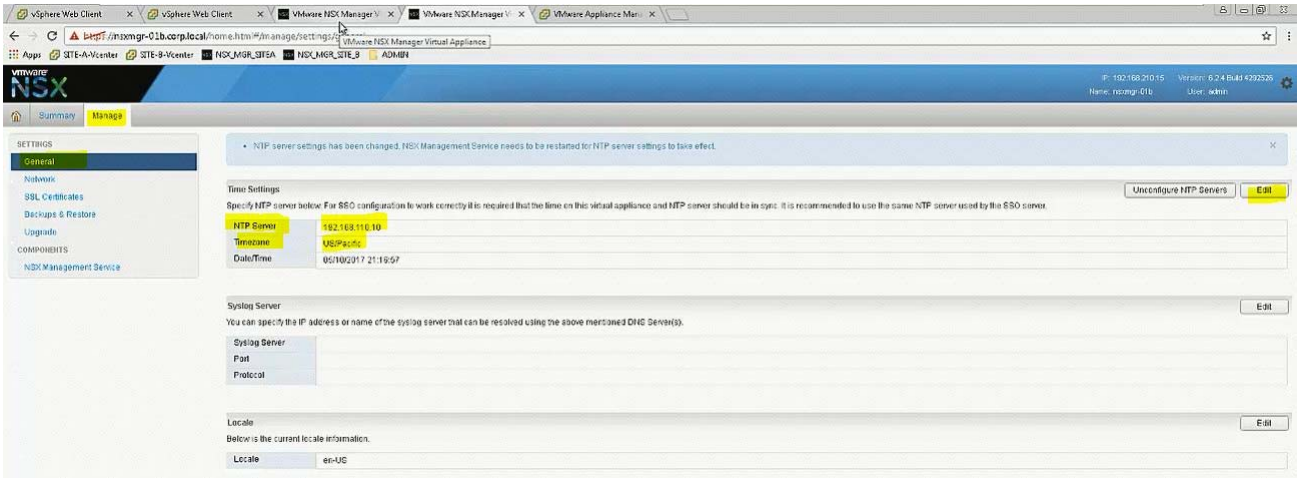


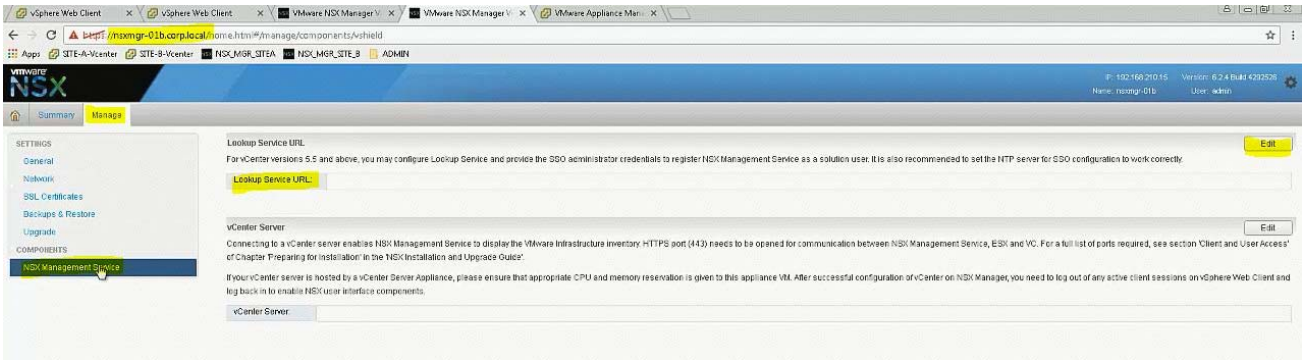

vSphere Web Client
vSphere Web Client
VMware NSX Manager
VMware NSX Manager
Login | Appliance Mana
https://psc-01a.corp.local:5480/login.html
Apps
SITE-A-Vcenter
SITE-B-Vcenter
NSX_MGR_SITEA
NSX_MGR_SITE_B
ADMIN
vmware
User name
root
Password
Login
VMware vCenter Server™ Appliance™

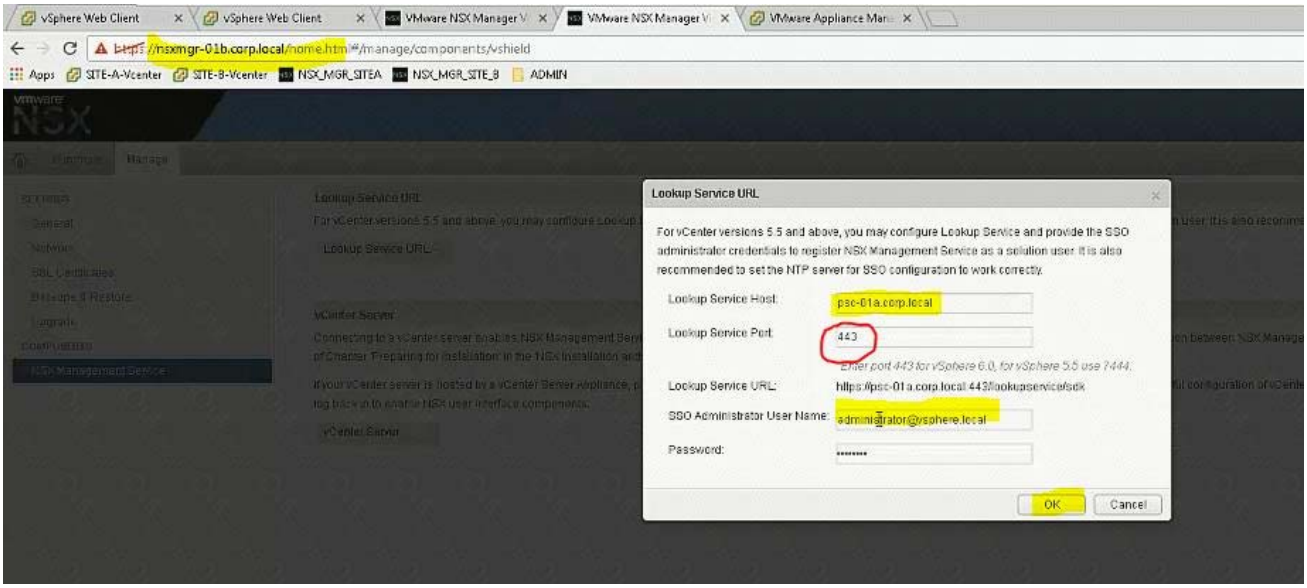

vSphere Web Client
vSphere Web Client
VMware NSX Manager
VMware NSX Manager
VMware Appliance Mar
https://psc-01a.corp.local:5480/index.html#/time?locale=en
VMware Appliance Management
Apps
SITE-A-Vcenter
SITE-B-Vcenter
NSX_MGR_SITEA
NSX_MGR_SITE_B
ADMIN
vmware vCenter Server Appliance
Logout | Help
Navigator
Summary
Access
Networking
Time
Update
Administration
Time
Time zone
Edit
Time zone
US/Pacific
Time Synchronization
Edit
Mode
NTP
Time servers
192.168.110.10
Time synchronization status
NTP-based time synchronization, NTP Daemon: Up
Current time
Wed May 10 21:15:03 2017 PDT -0300


vSphere Web Client
vSphere Web Client
VMware NSX Manager V
VMware Appliance Mana
Login | Appliance Manag
https://nsxmgr-01b.corp.local/login.jsp;jsessionid=F4FBF0172A022A3051F91F874D6D4915
Apps
SITE-A-Vcenter
SITE-B-Vcenter
NSX_MGR_SITEA
NSX_MGR_SITE_B
ADMIN
vmware
NSX
User name:
admin
Password:
Login
VMware NSX Manager Virtual Appliance


Time Settings
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.
NTP Server:
192.168.110.10
Timezone:
US/Pacific
Date/Time:
OK
Cancel


Summary
Manage
SETTINGS
General
Network
SSL Certificates
Backups & Restore
Upgrade
COMPONENTS
NSX Management Service
NTP server settings has been changed. NSX Management Service needs to be restarted for NTP server settings to take effect.
Time Settings
Unconfigure NTP Servers
Edit
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.
NTP Server
192.168.110.10
Timezone
US/Pacific
Date/Time
05/10/2017 21:19:57
Syslog Server
You can specify the IP address or name of the syslog server that can be resolved using the above mentioned DNS Server(s).
Syslog Server
Port
Protocol
Locale
Below is the current locale information.
Locale
en-US

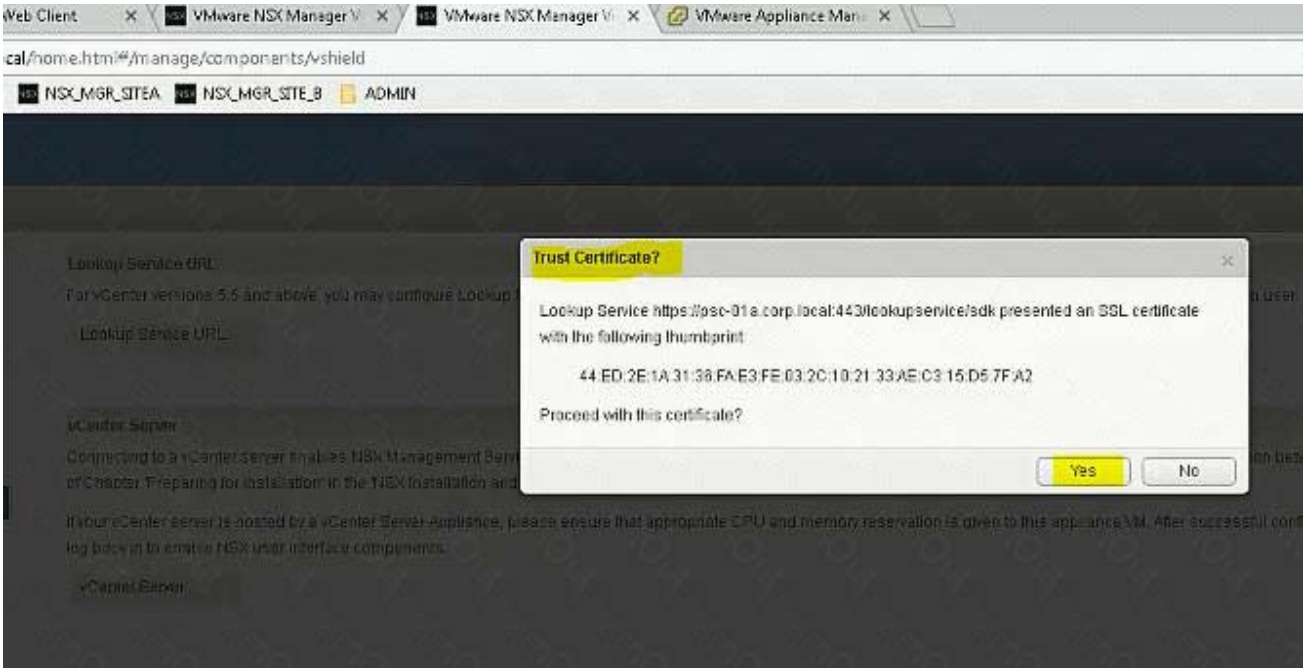


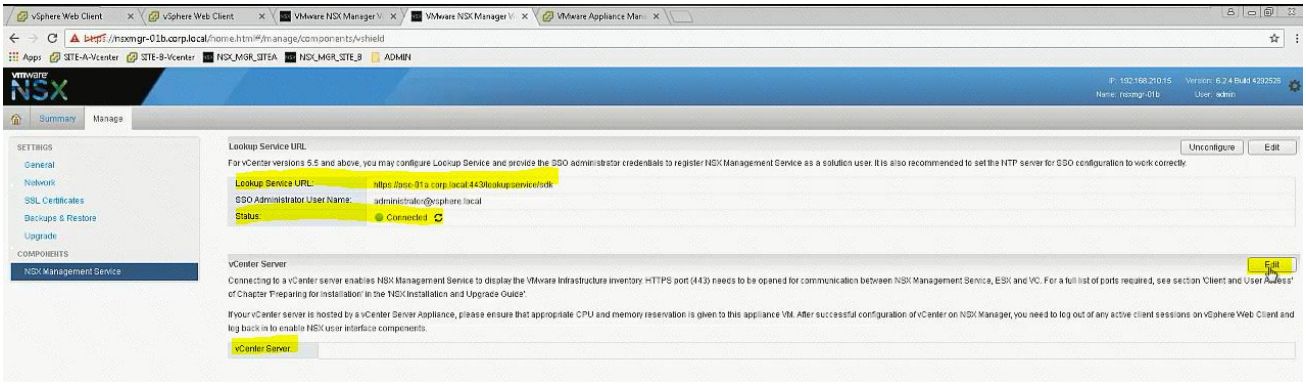


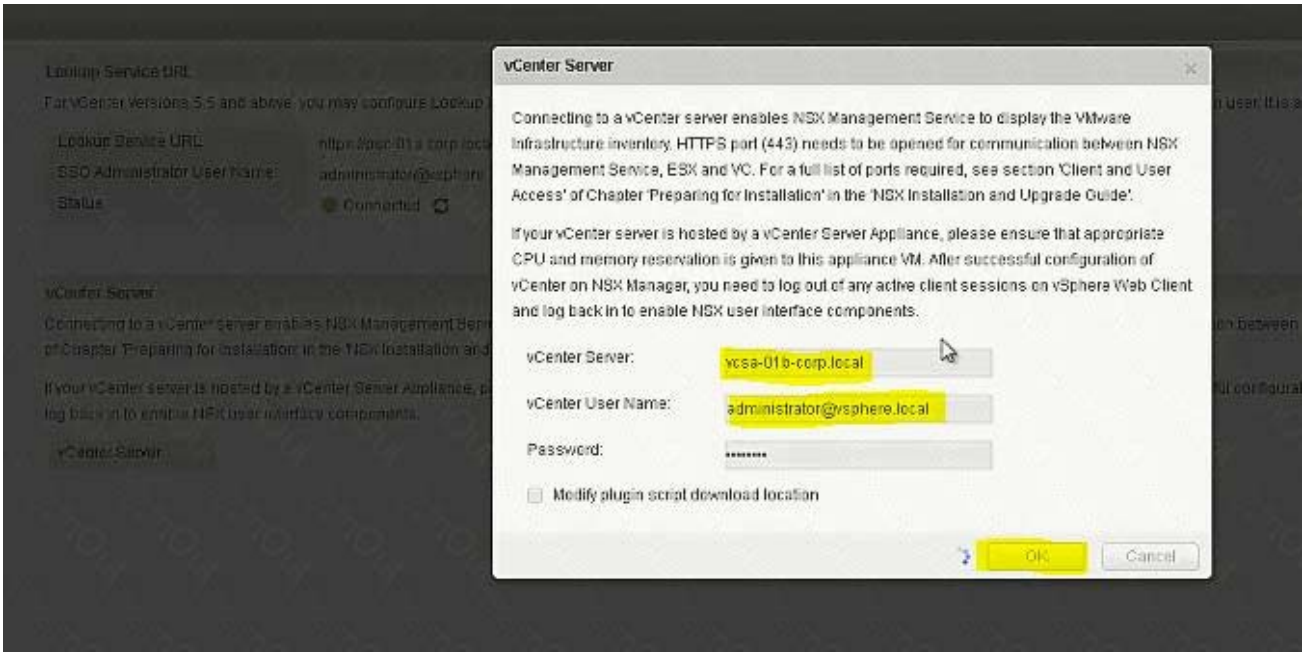
Important NOTE:

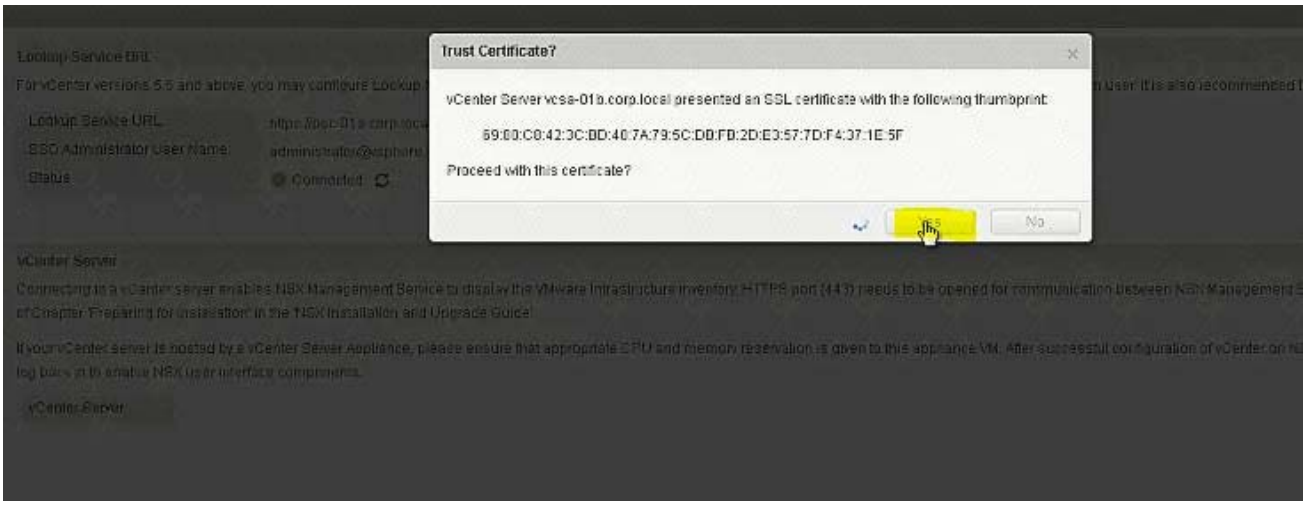
In exam change Lookup Service Port according to NSX Manager of Site A which is working one.

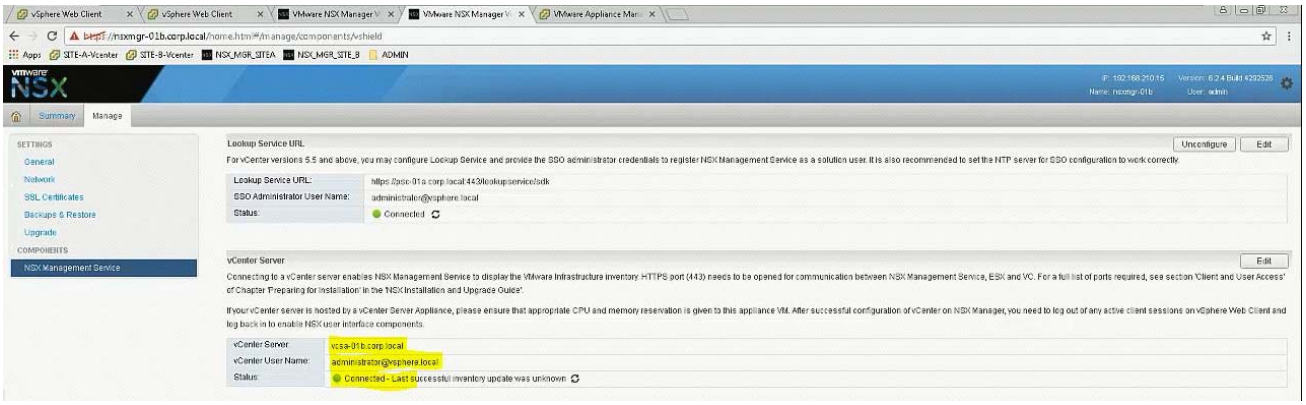
It's 7444 in exam.




vSphere Web Client
VMware NSX Manager
VMware Appliance Manager
https://nsxmgr-01b.corp.local/home.html#/manage/components/vshield
NSX
Summary
Manage
SETTINGS
General
Network
SSL Certificates
Backups & Restore
Upgrade
COMPONENTS
NSX Management Service
Lookup Service URL
Unconfigure
Edit
For vCenter versions 5.5 and above, you may configure Lookup Service and provide the SSO administrator credentials to register NSX Management Service as a solution user. It is also recommended to set the NTP server for SSO configuration to work correctly.
Lookup Service URL:
https://vcsa-01a.corp.local:443/lookupservice/sdk
SSO Administrator User Name:
administrator@vsphere.local
Status:
Connected
vCenter Server
Edit
Connecting to a vCenter server enables NSX Management Service to display the VMware Infrastructure inventory. HTTPS port (443) needs to be opened for communication between NSX Management Service, ESX and VC. For a full list of ports required, see section 'Client and User Access' of Chapter 'Preparing for Installation' in the 'NSX Installation and Upgrade Guide'.
If your vCenter server is hosted by a vCenter Server Appliance, please ensure that appropriate CPU and memory reservation is given to this appliance VM. After successful configuration of vCenter on NSX Manager, you need to log out of any active client sessions on vSphere Web Client and log back in to enable NSX user interface components.
vCenter Server:

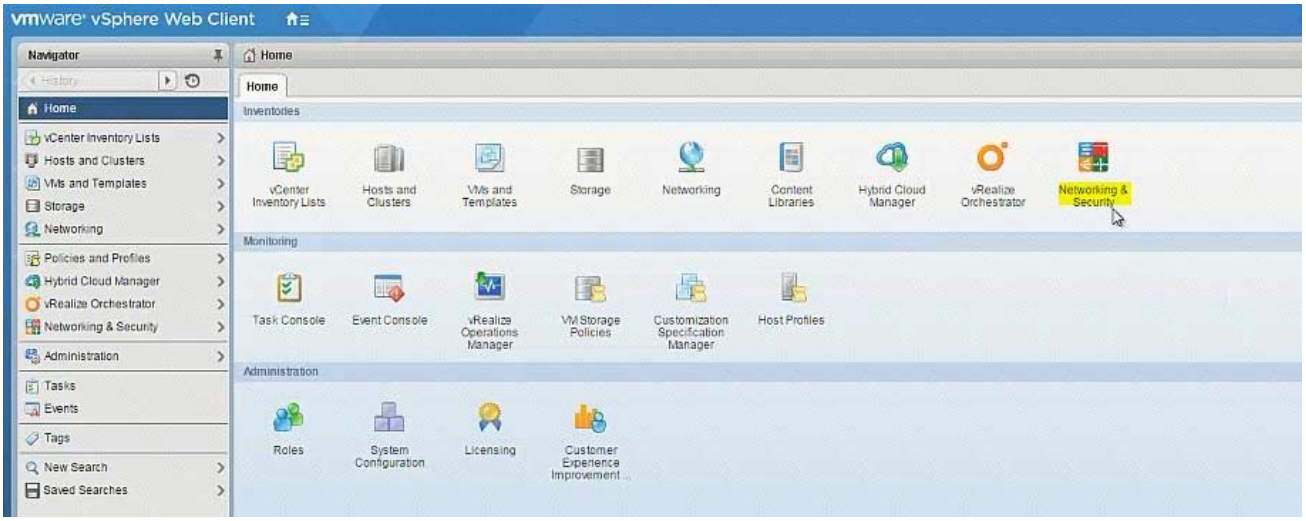

vCenter Server
Connecting to a vCenter server enables NSX Management Service to display the VMware Infrastructure inventory. HTTPS port (443) needs to be opened for communication between NSX Management Service, ESX and VC. For a full list of ports required, see section 'Client and User Access' of Chapter 'Preparing for Installation' in the 'NSX Installation and Upgrade Guide'.
If your vCenter server is hosted by a vCenter Server Appliance, please ensure that appropriate CPU and memory reservation is given to this appliance VM. After successful configuration of vCenter on NSX Manager, you need to log out of any active client sessions on vSphere Web Client and log back in to enable NSX user interface components.
vCenter Server:
vcsa-01b.corp.local
vCenter User Name:
administrator@vsphere.local
Password:
Modify plugin script download location
OK
Cancel

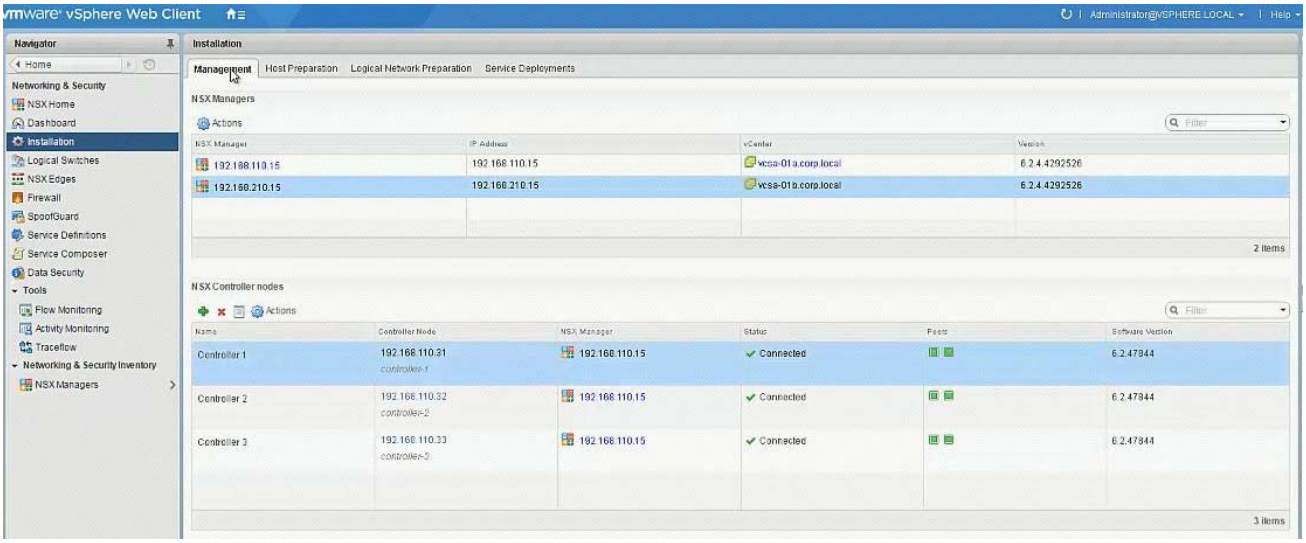

Trust Certificate?
vCenter Server vcsa-01b.corp.local presented an SSL certificate with the following thumbprint:
69:60:C0:42:3C:BD:40:7A:79:5C:D0:FD:2D:E3:57:7D:F4:37:1E:5F
Proceed with this certificate?
Yes
No

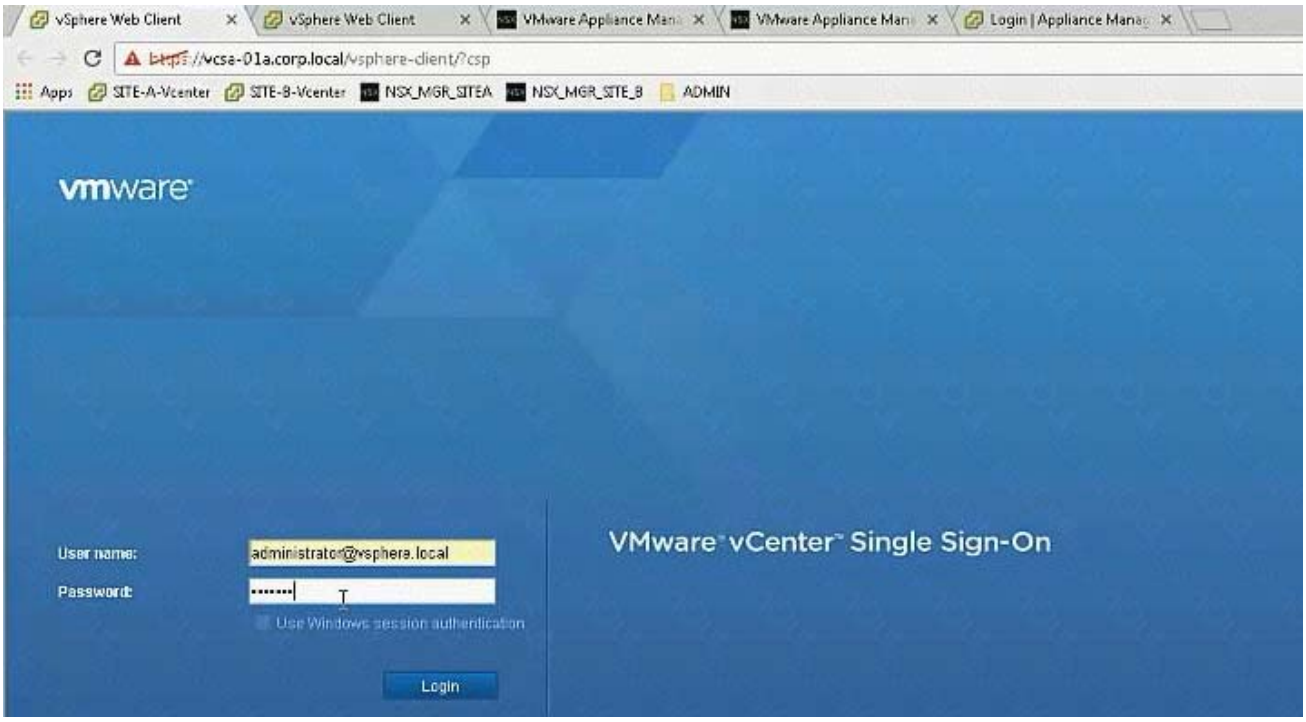


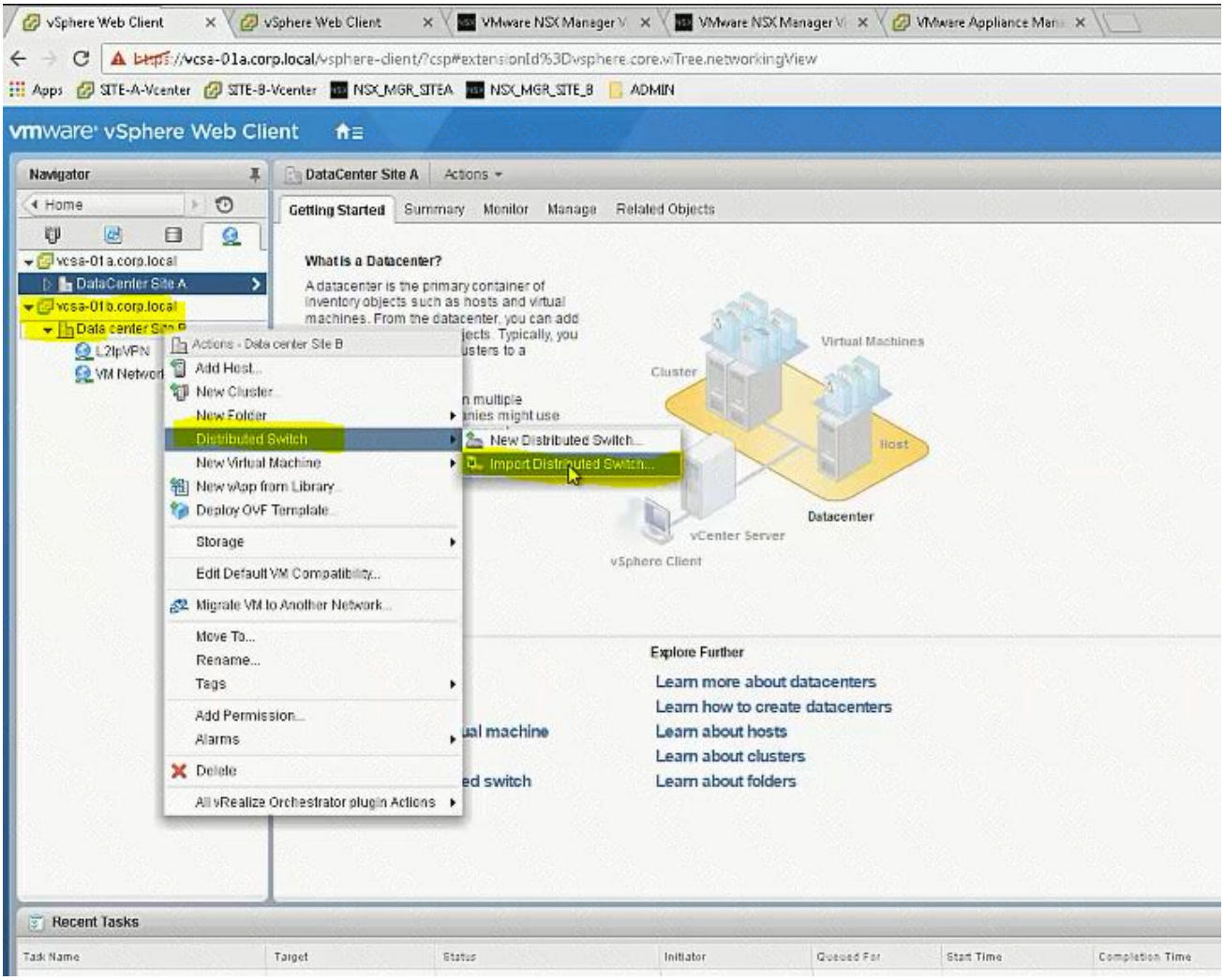
Click refresh if in case it shows as disconnected.

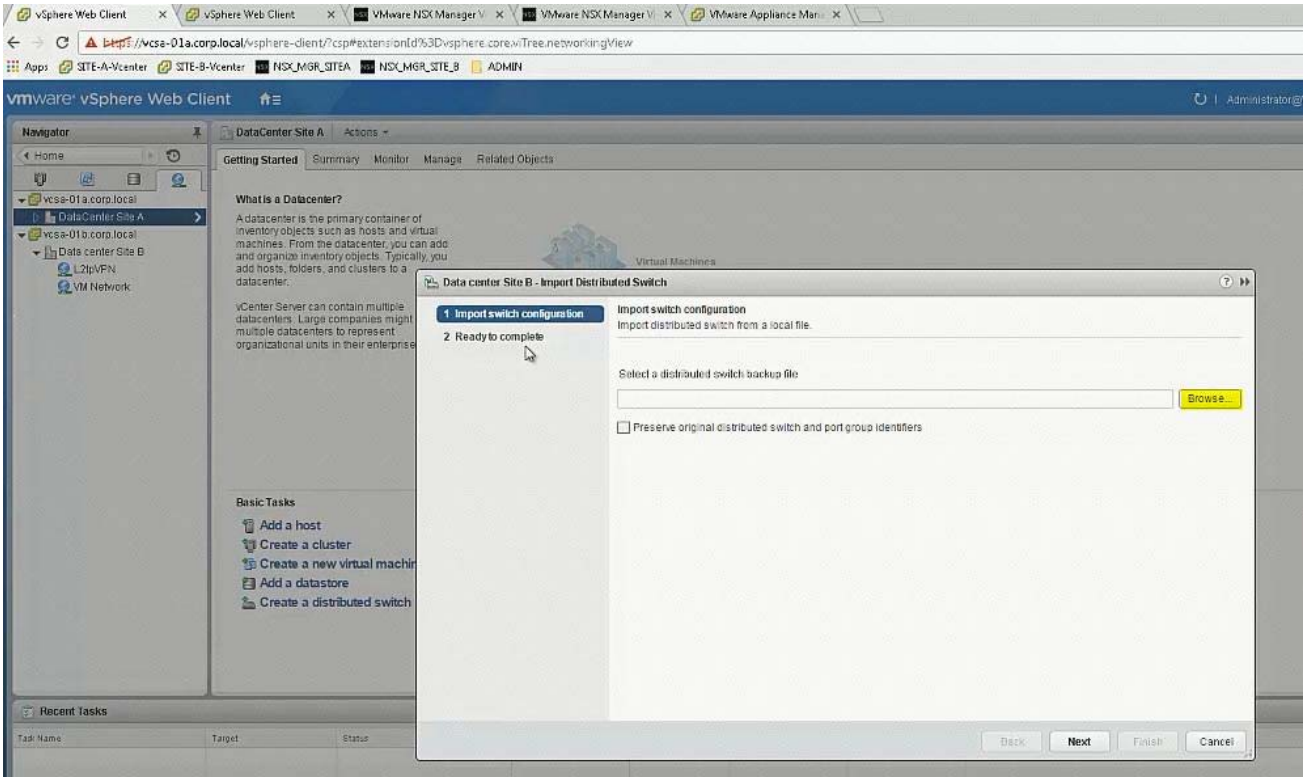
Login to SiteA vCenter using Web Client and confirm the status of both the NSX Managers: Installation -> Management.

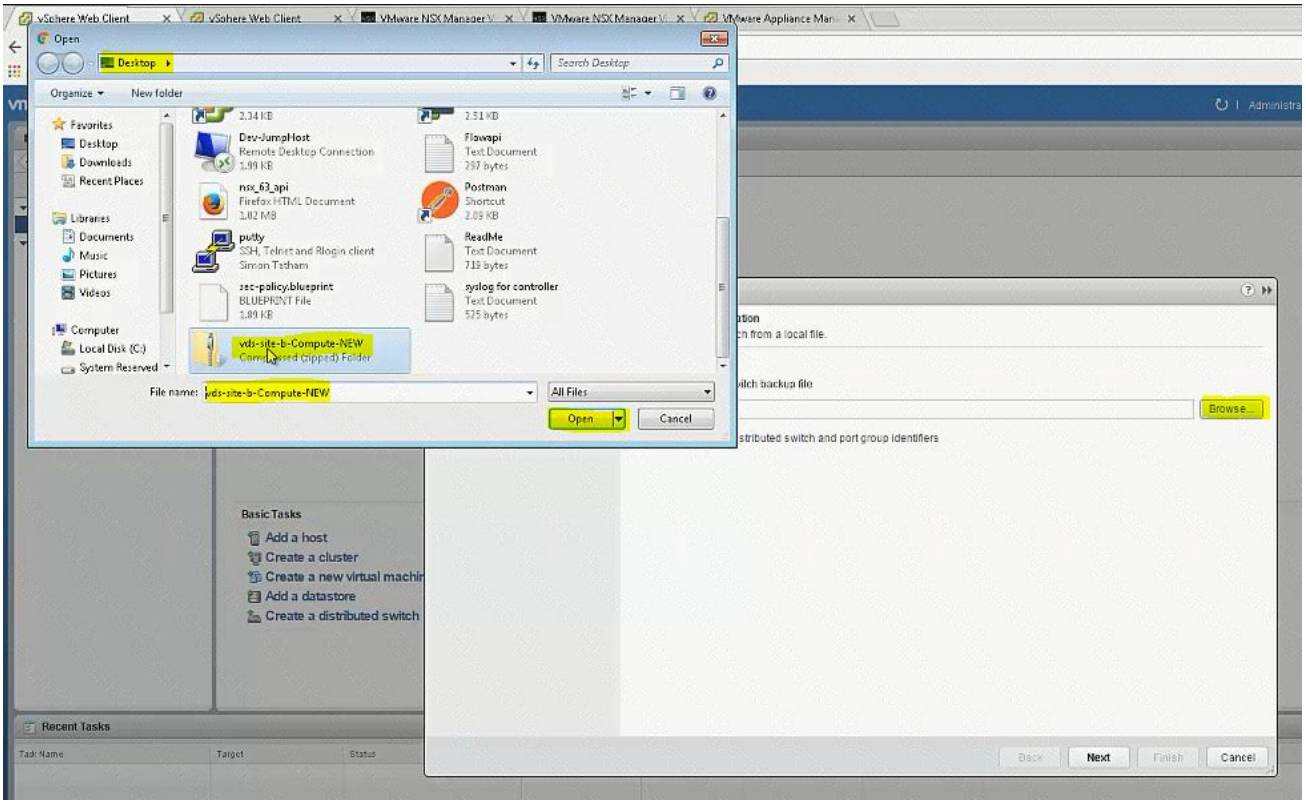


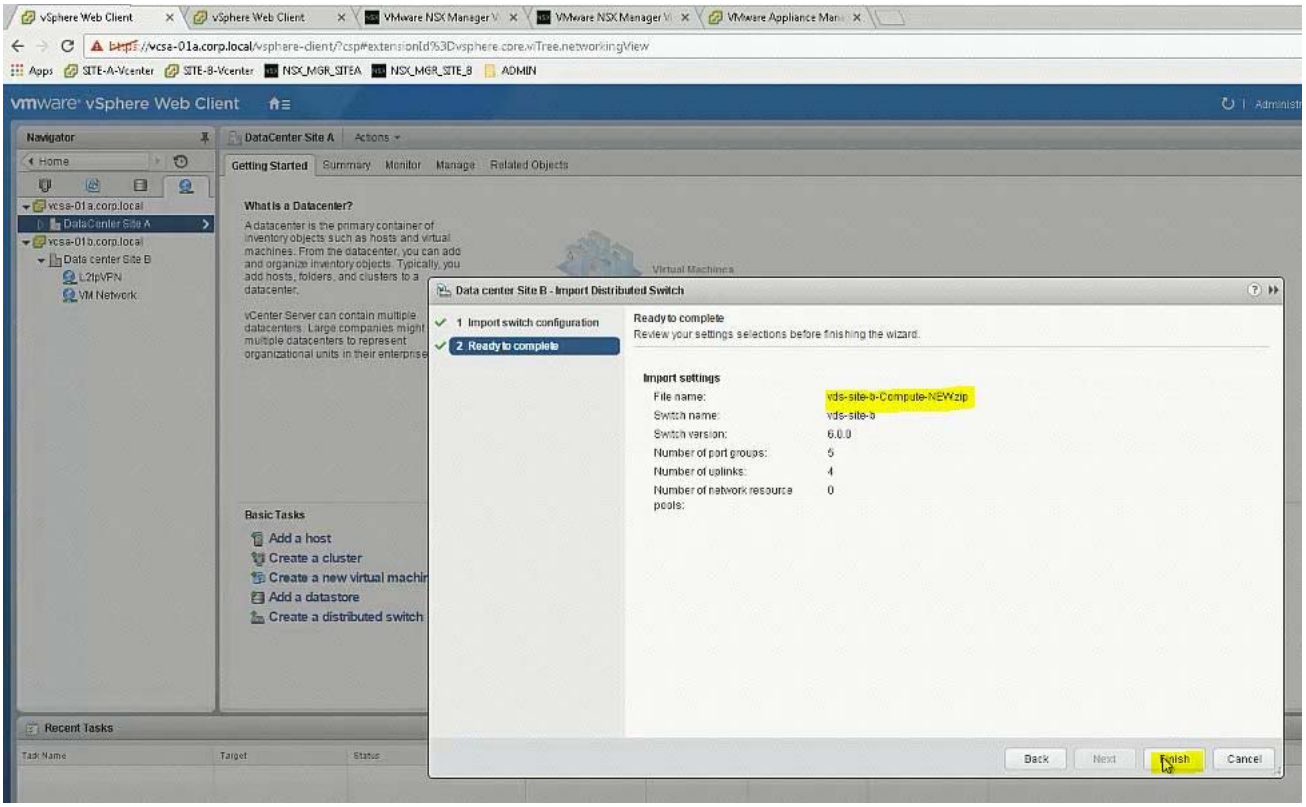


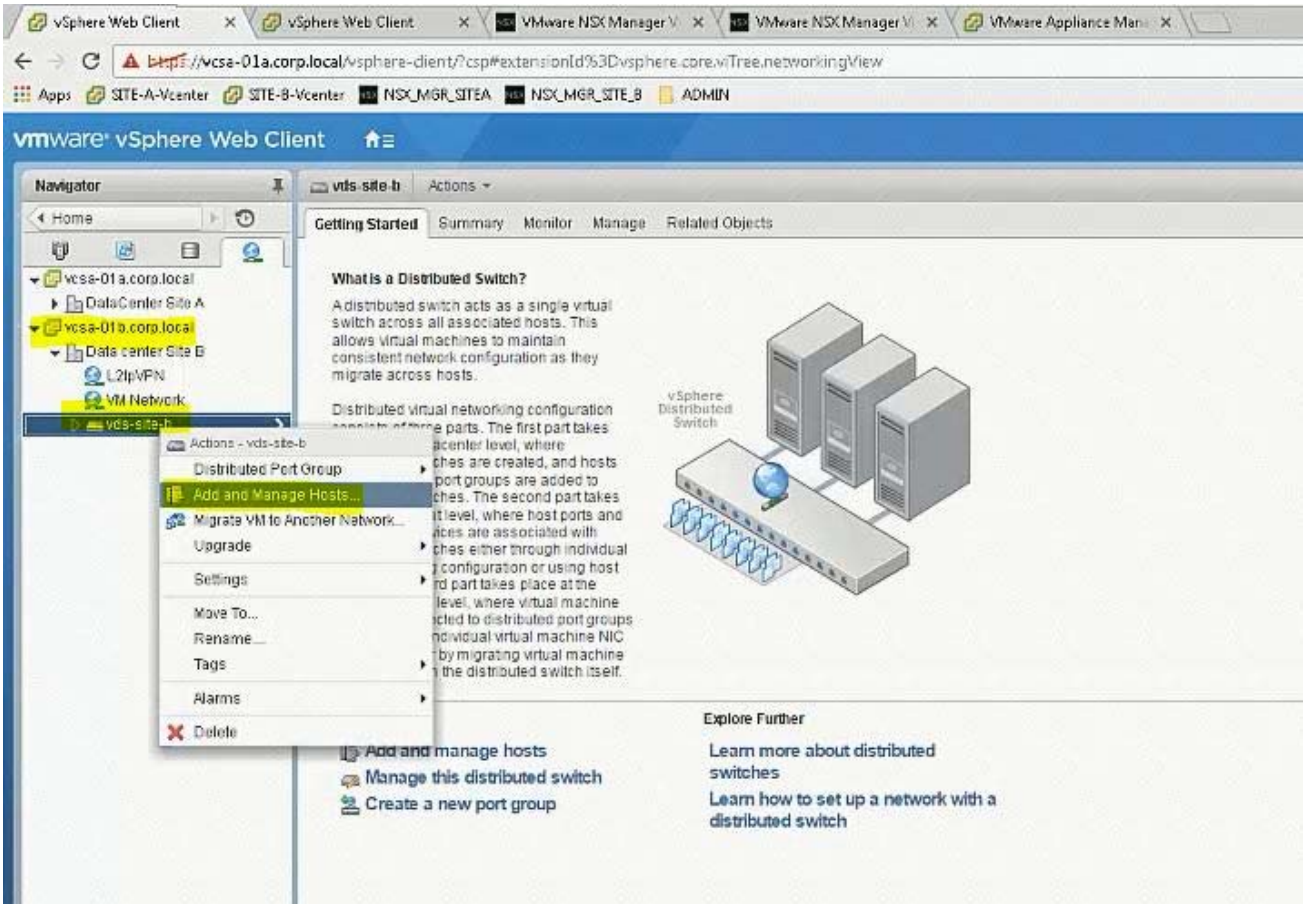

vSphere Web Client
https://vcsa-01a.corp.local/vsphere-client/?csp
Apps
SITE-A-Vcenter
SITE-B-Vcenter
NSX_MGR_SITEA
NSX_MGR_SITE_B
ADMIN
vmware
User name:
administrator@vsphere.local
Password:
Use Windows session authentication
Login
VMware vCenter Single Sign-On


vSphere Web Client
https://vcsa-01a.corp.local/vsphere-client/?csp#extensionId%3Dvsphere.core.viTree.networkingView
vmware vSphere Web Client
Navigator
Home
vcsa-01a.corp.local
DataCenter Site A
vcsa-01b.corp.local
Data center Site B
L2IpVPN
VM Network
DataCenter Site A
Actions
Getting Started
Summary
Monitor
Manage
Related Objects
What is a Datacenter?
A datacenter is the primary container of inventory objects such as hosts and virtual machines. From the datacenter, you can add
Actions - Data center Site B
Add Host...
New Cluster...
New Folder
Distributed Switch
New Virtual Machine
New vApp from Library...
Deploy OVF Template...
Storage
Edit Default VM Compatibility...
Migrate VM to Another Network...
Move To...
Rename...
Tags
Add Permission...
Alarms
Delete
All vRealize Orchestrator plugin Actions
New Distributed Switch...
Import Distributed Switch...
Cluster
Virtual Machines
Host
Datacenter
vCenter Server
vSphere Client
Explore Further
Learn more about datacenters
Learn how to create datacenters
Learn about hosts
Learn about clusters
Learn about folders
Recent Tasks
Task Name
Target
Status
Initiator
Queued For
Start Time
Completion Time


vSphere Web Client
vmware vSphere Web Client
Navigator
DataCenter Site A
Actions
Getting Started
Summary
Monitor
Manage
Related Objects
What is a Datacenter?
Data center Site B - Import Distributed Switch
1 Import switch configuration
2 Ready to complete
Import switch configuration
Import distributed switch from a local file.
Select a distributed switch backup file
Browse...
Preserve original distributed switch and port group identifiers
Basic Tasks
Add a host
Create a cluster
Create a new virtual machir
Add a datastore
Create a distributed switch
Recent Tasks
Back
Next
Finish
Cancel


Open
Desktop
Search Desktop
Organize
New folder
Favorites
Desktop
Downloads
Recent Places
Libraries
Documents
Music
Pictures
Videos
Computer
Local Disk (C:)
System Reserved
Dev-JumpHost
Remote Desktop Connection
1.99 KB
nsx_63_api
Firefox HTML Document
1.02 MB
putty
SSH, Telnet and Rlogin client
Simon Tatham
sec-policy.blueprint
BLUEPRINT File
1.89 KB
vds-site-b-Compute-NEW
Flowapi
Text Document
297 bytes
Postman
Shortcut
2.09 KB
ReadMe
Text Document
719 bytes
syslog for controller
Text Document
525 bytes
File name: vds-site-b-Compute-NEW
All Files
Open
Cancel
Basic Tasks
Add a host
Create a cluster
Create a new virtual machir
Add a datastore
Create a distributed switch
Recent Tasks
Browse...
Next
Finish
Cancel


vSphere Web Client
vSphere Web Client
VMware NSX Manager
VMware NSX Manager
VMware Appliance Mana
https://vcsa-01a.corp.local/vsphere-client/?csp#extensionId%3Dvsphere.core.viTree.networkingView
Apps
SITE-A-Vcenter
SITE-B-Vcenter
NSX_MGR_SITEA
NSX_MGR_SITE_B
ADMIN
vmware vSphere Web Client
Navigator
Home
vcsa-01a.corp.local
DataCenter Site A
vcsa-01b.corp.local
Data center Site B
L2IpVPN
VM Network
DataCenter Site A
Actions
Getting Started
Summary
Monitor
Manage
Related Objects
What is a Datacenter?
A datacenter is the primary container of inventory objects such as hosts and virtual machines. From the datacenter, you can add and organize inventory objects. Typically, you add hosts, folders, and clusters to a datacenter.
vCenter Server can contain multiple datacenters. Large companies might multiple datacenters to represent organizational units in their enterprise
Virtual Machines
Basic Tasks
Add a host
Create a cluster
Create a new virtual machir
Add a datastore
Create a distributed switch
Recent Tasks
Task Name
Target
Status
Data center Site B - Import Distributed Switch
1 Import switch configuration
2 Ready to complete
Ready to complete
Review your settings selections before finishing the wizard.
Import settings
File name:
vds-site-b-Compute-NEW.zip
Switch name:
vds-site-b
Switch version:
6.0.0
Number of port groups:
5
Number of uplinks:
4
Number of network resource pools:
0
Back
Next
Finish
Cancel


vSphere Web Client
vSphere Web Client
VMware NSX Manager
VMware NSX Manager
VMware Appliance Mana
https://vcsa-01a.corp.local/vsphere-client/?csp#extensionId%3Dvsphere.core.viTree.networkingView
Apps
SITE-A-Vcenter
SITE-B-Vcenter
NSX_MGR_SITEA
NSX_MGR_SITE_B
ADMIN
vmware vSphere Web Client
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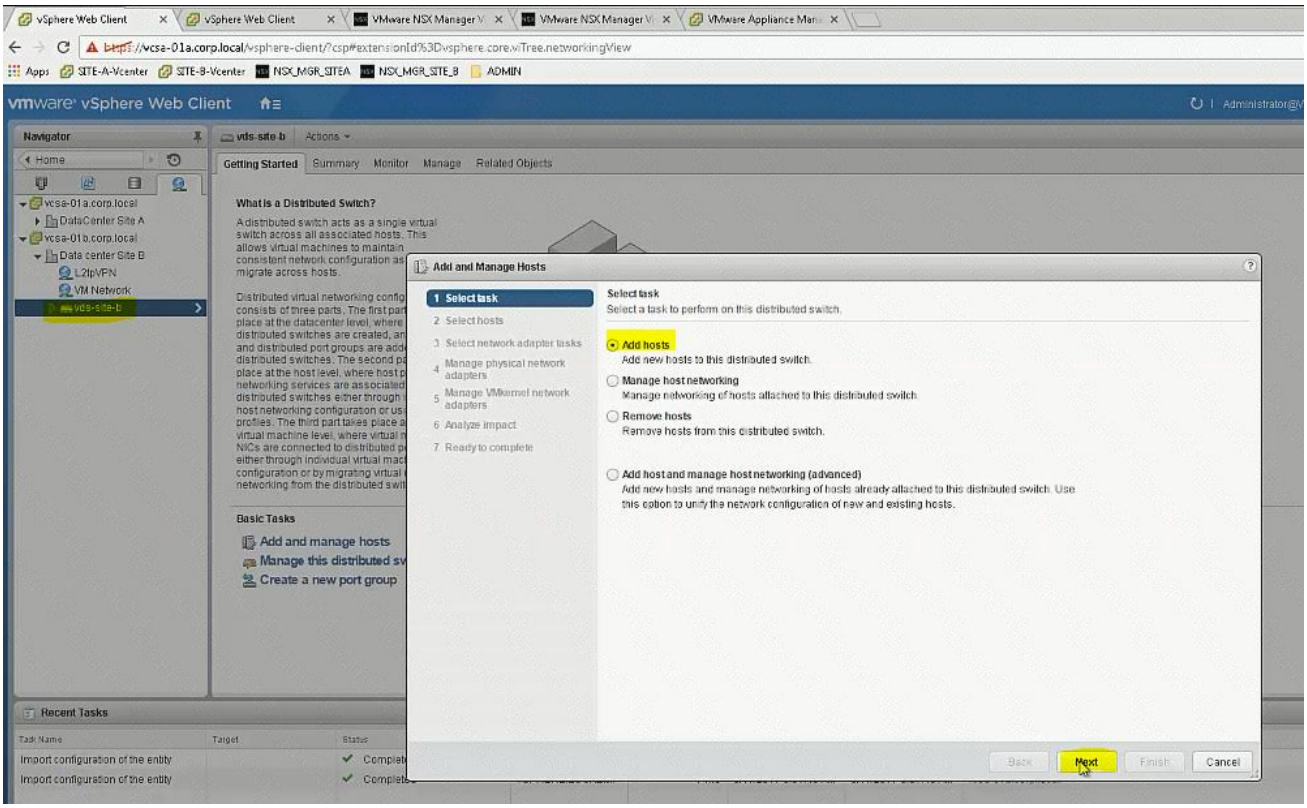
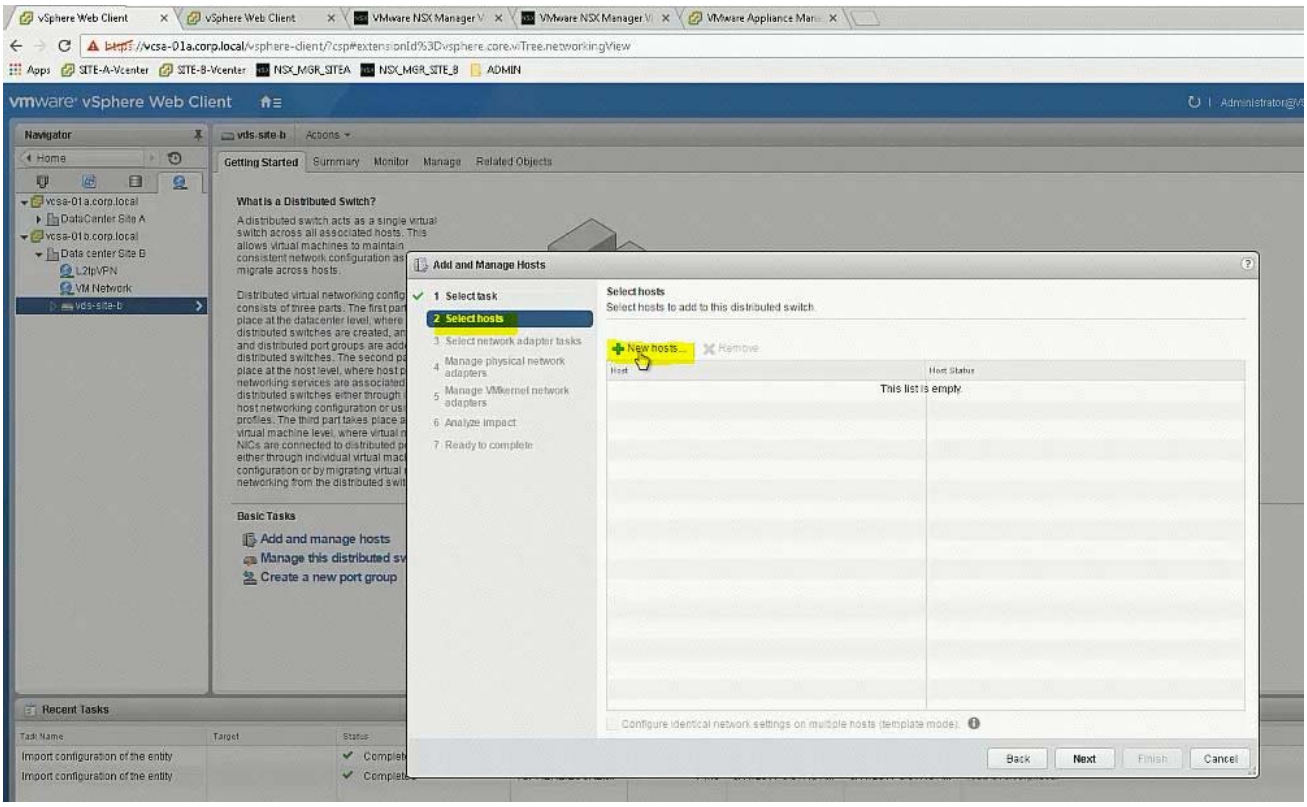
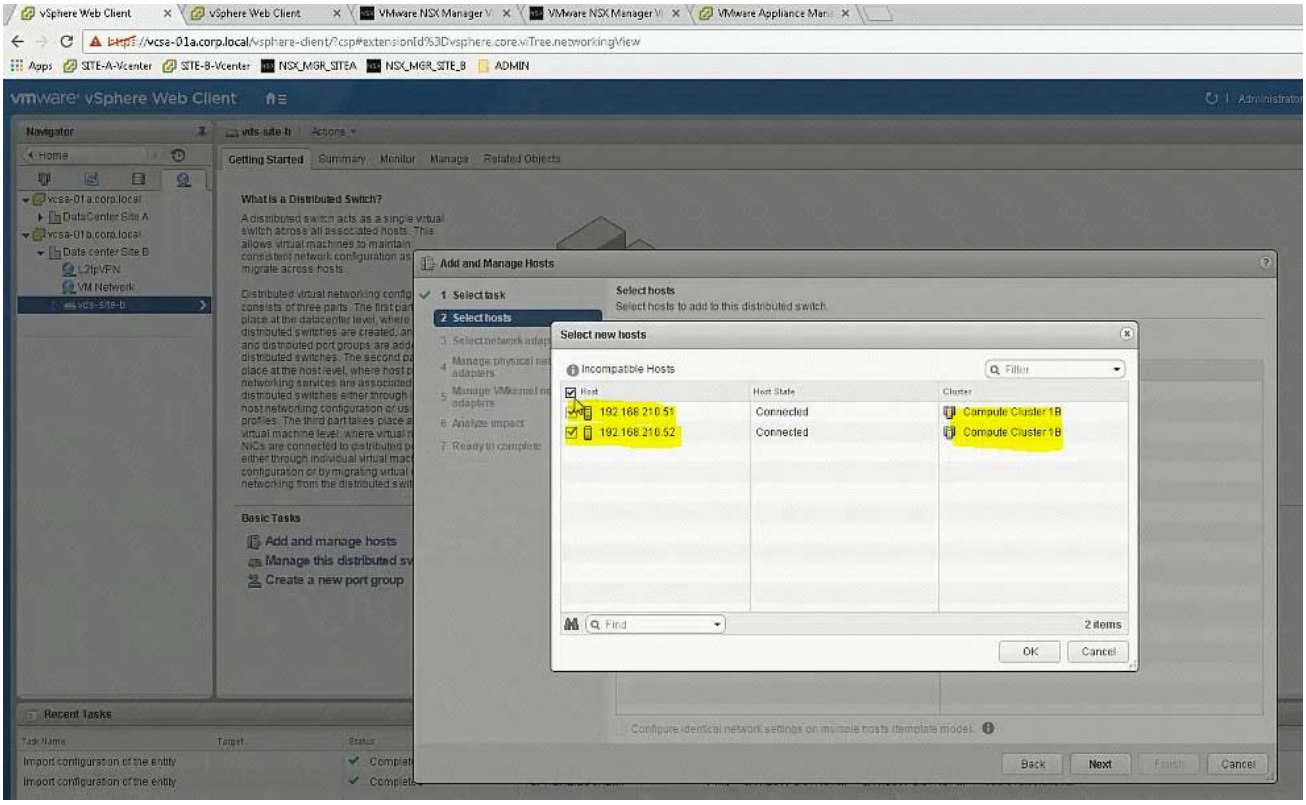
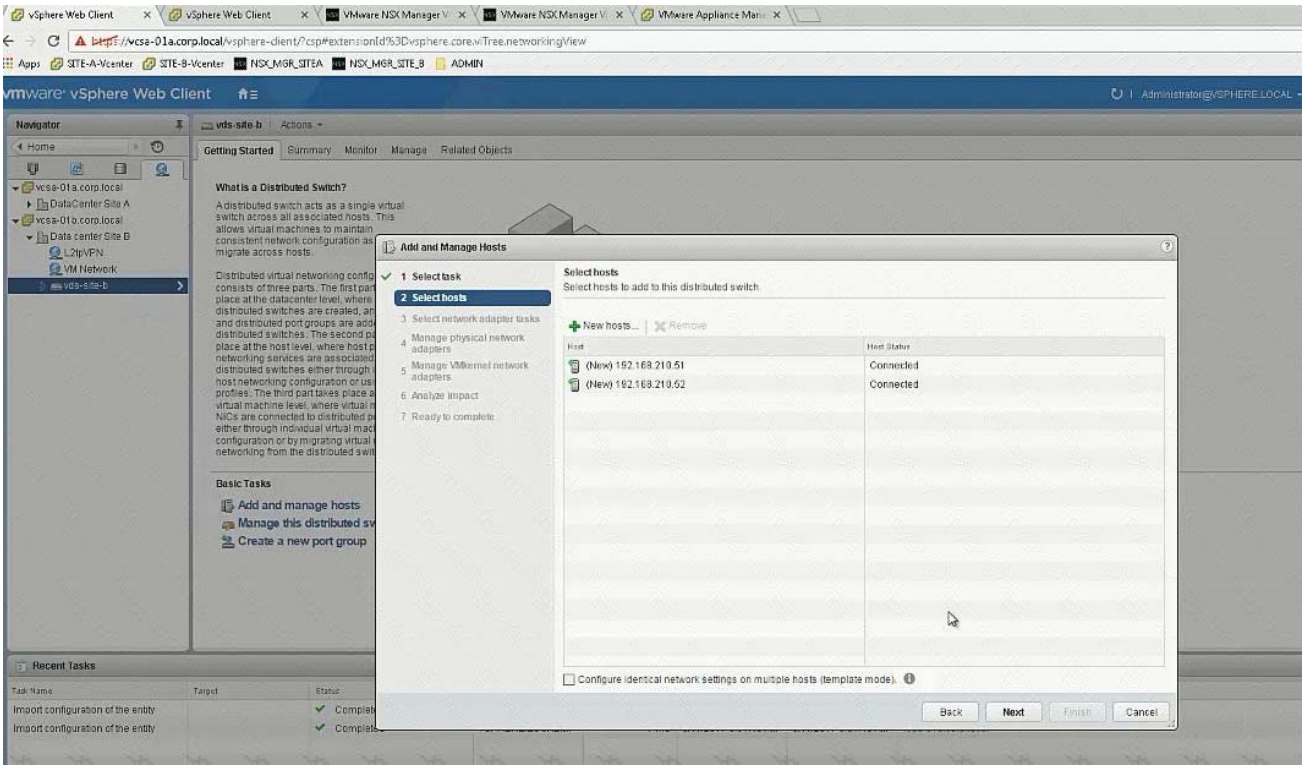
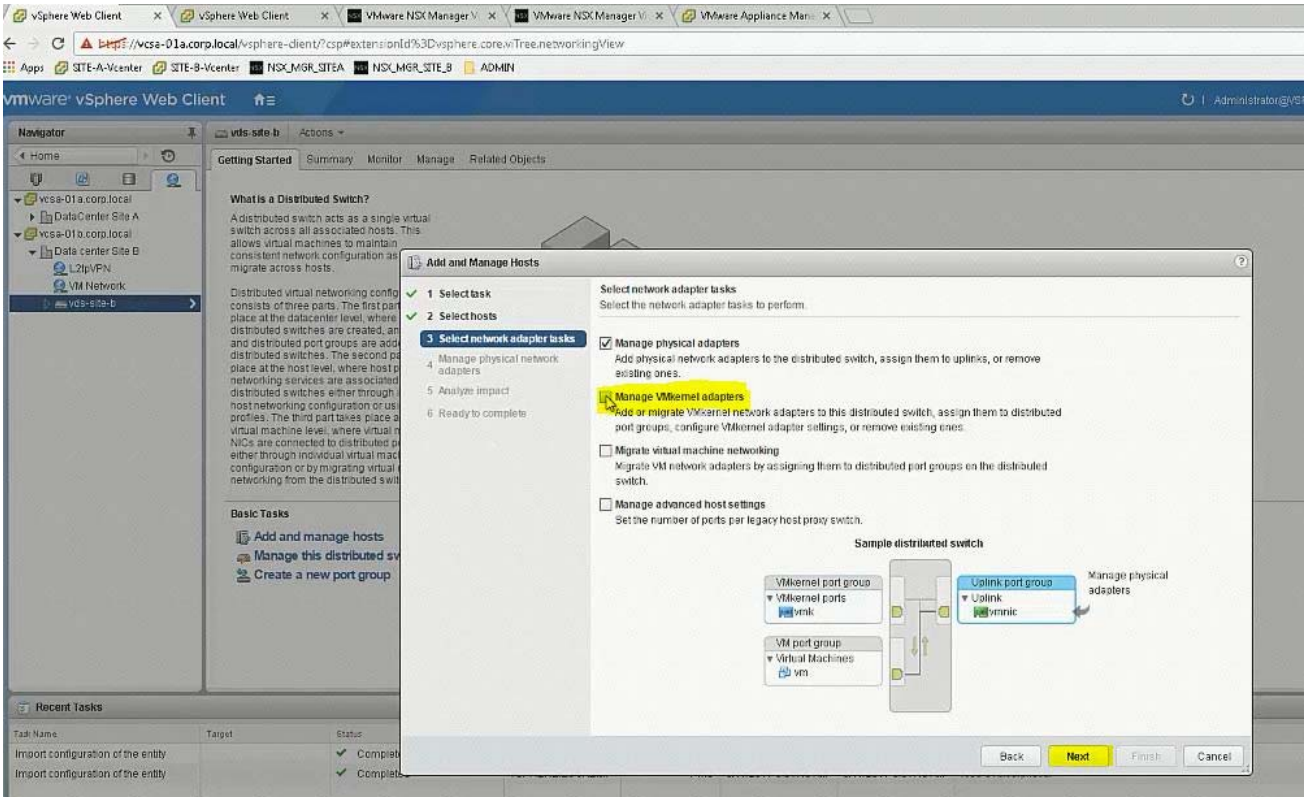
Home
vcsa-01a.corp.local
DataCenter Site A
vcsa-01b.corp.local
Data center Site B
L2IpVPN
VM Network
vds-site-b
vds-site-b
Actions
Getting Started
Summary
Monitor
Manage
Related Objects
What is a Distributed Switch?
A distributed switch acts as a single virtual switch across all associated hosts. This allows virtual machines to maintain consistent network configuration as they migrate across hosts.
Distributed virtual networking configuration
vSphere Distributed Switch
Actions - vds-site-b
Distributed Port Group
Add and Manage Hosts...
Migrate VM to Another Network...
Upgrade
Settings
Move To...
Rename...
Tags
Alarms
Delete
Add and manage hosts
Manage this distributed switch
Create a new port group
Explore Further
Learn more about distributed switches
Learn how to set up a network with a distributed switch

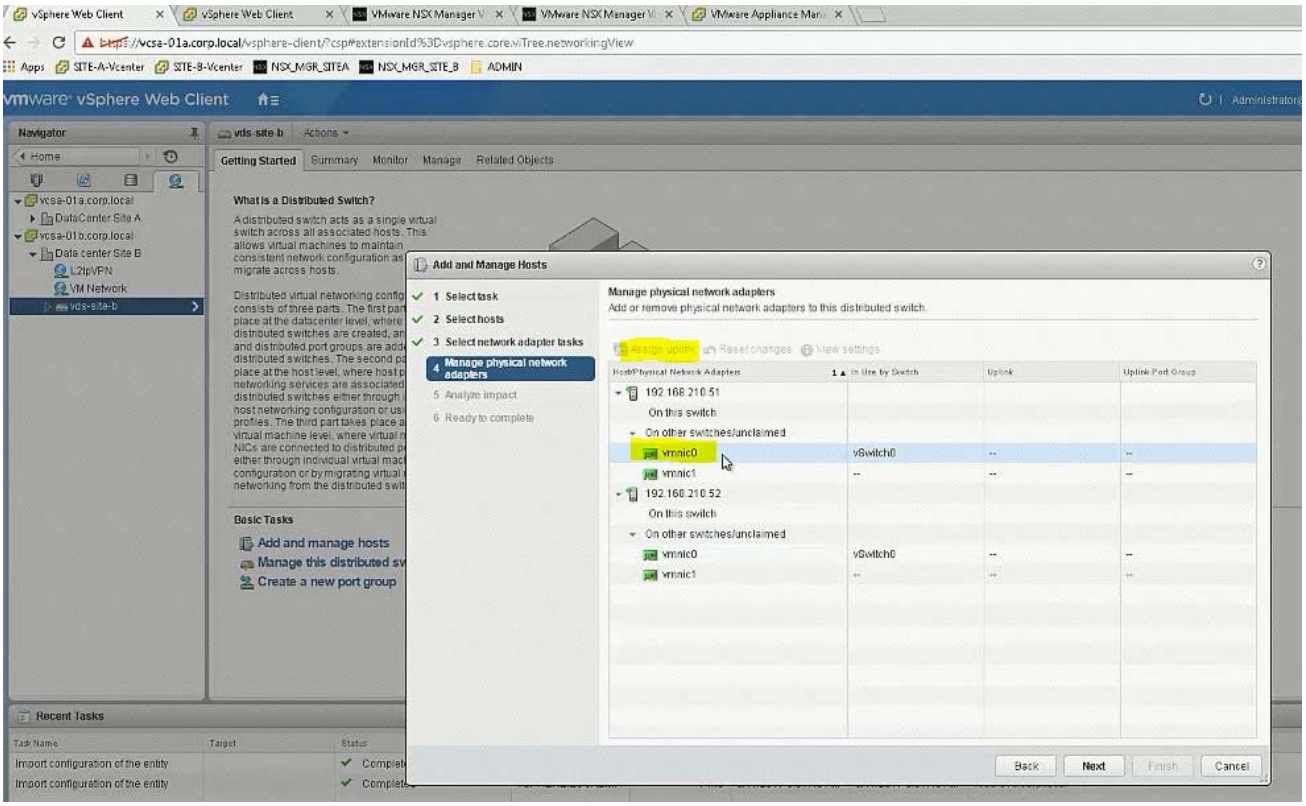

vSphere Web Client
https://vcsa-01a.corp.local/vsphere-client/?csp#extensionId%3Dvsphere.core.viTree.networkingView
vmware vSphere Web Client
Navigator
vds-site-b
Actions
Getting Started
Summary
Monitor
Manage
Related Objects
What is a Distributed Switch?
Basic Tasks
Add and manage hosts
Create a new port group
Recent Tasks
Add and Manage Hosts
1 Select task
2 Select hosts
3 Select network adapter tasks
4 Manage physical network adapters
5 Manage VMkernel network adapters
6 Analyze impact
7 Ready to complete
Select task
Select a task to perform on this distributed switch.
Add hosts
Add new hosts to this distributed switch.
Manage host networking
Manage networking of hosts attached to this distributed switch.
Remove hosts
Remove hosts from this distributed switch.
Add host and manage host networking (advanced)
Add new hosts and manage networking of hosts already attached to this distributed switch. Use this option to unify the network configuration of new and existing hosts.
Back
Next
Finish
Cancel

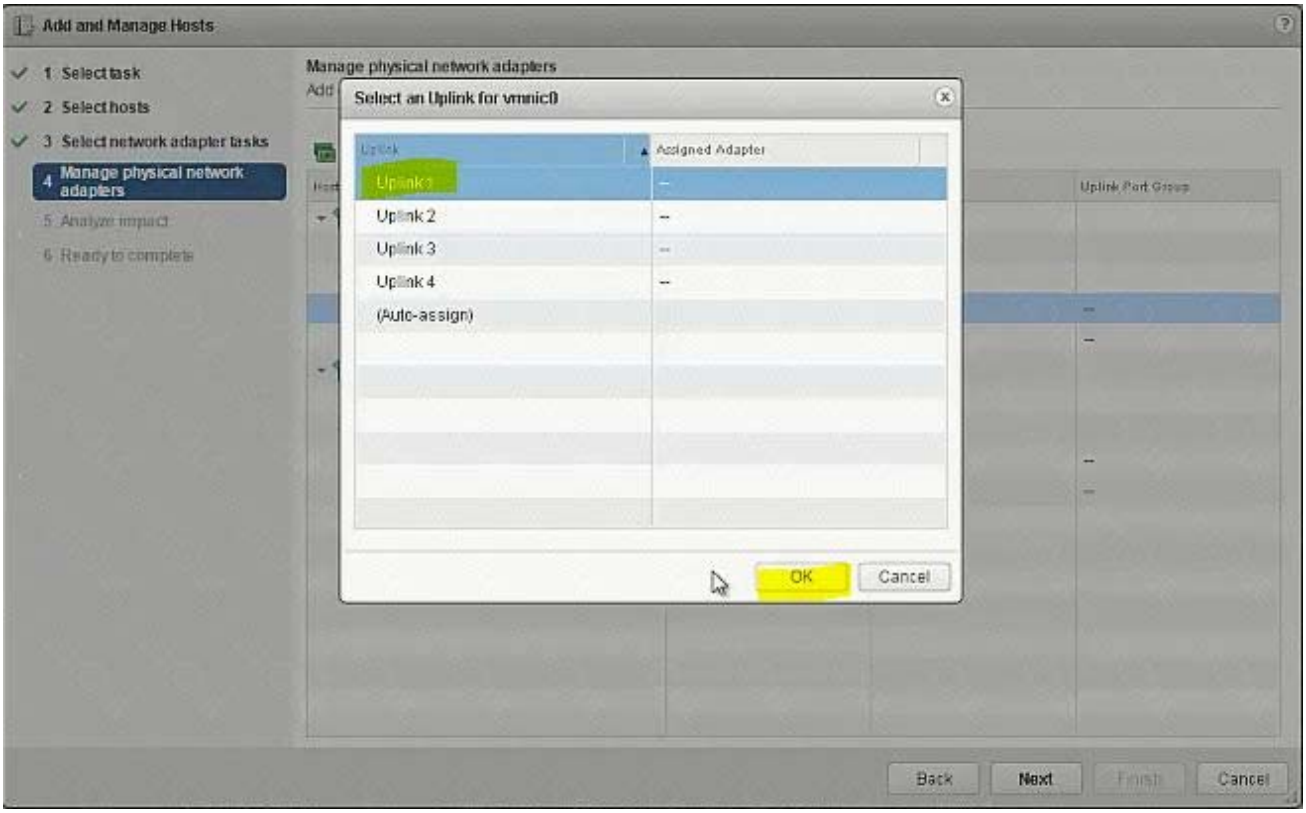

vSphere Web Client
https://vcsa-01a.corp.local/vsphere-client/?csp#extensionId%3Dvsphere.core.viTree.networkingView
vmware vSphere Web Client
Navigator
vds-site-b
Actions
Getting Started
Summary
Monitor
Manage
Related Objects
What is a Distributed Switch?
Basic Tasks
Add and manage hosts
Create a new port group
Recent Tasks
Add and Manage Hosts
1 Select task
2 Select hosts
3 Select network adapter tasks
4 Manage physical network adapters
5 Manage VMkernel network adapters
6 Analyze impact
7 Ready to complete
Select hosts
Select hosts to add to this distributed switch.
New hosts...
Remove
Host
Host Status
This list is empty
Configure identical network settings on multiple hosts (template mode).
Back
Next
Finish
Cancel

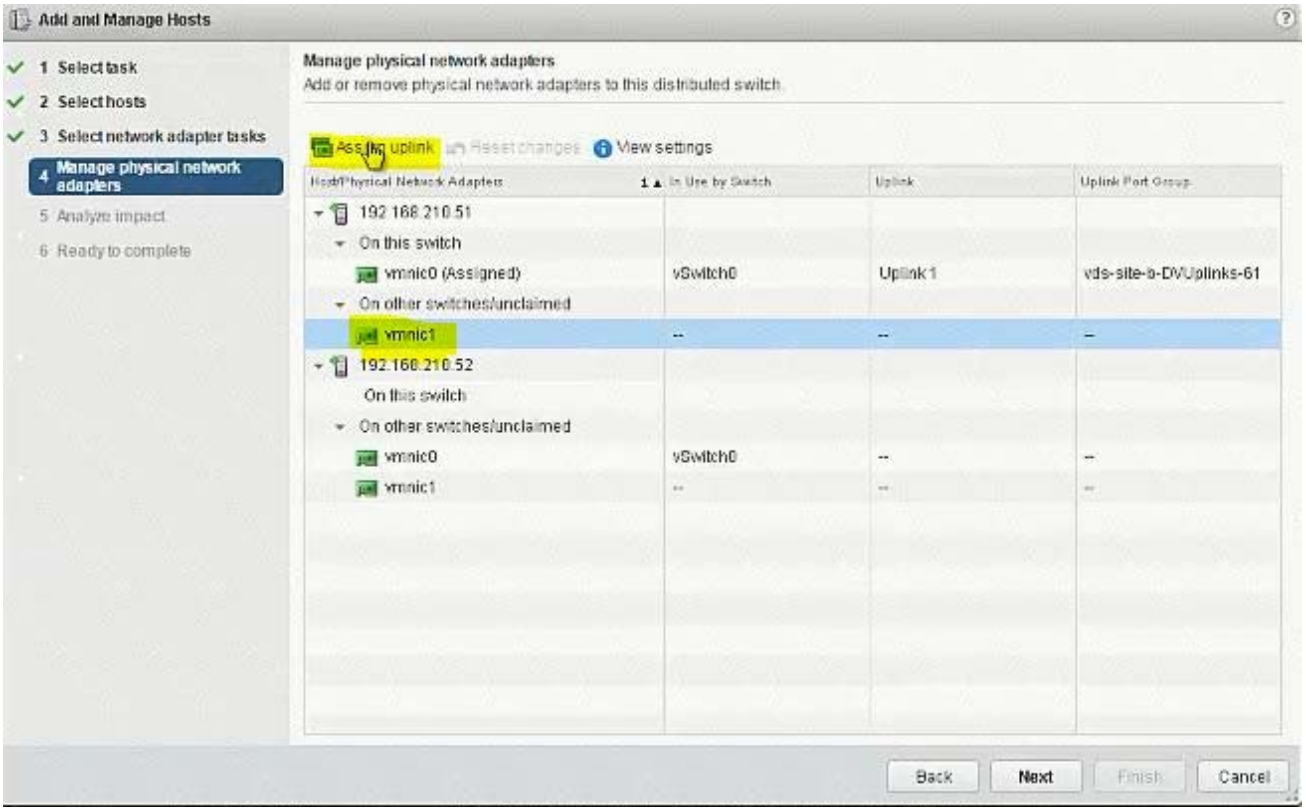

vSphere Web Client
vmware vSphere Web Client
Add and Manage Hosts
1 Select task
2 Select hosts
Select hosts
Select hosts to add to this distributed switch.
Select new hosts
Incompatible Hosts
Host
Host State
Cluster
192.168.210.51
Connected
Compute Cluster 1B
192.168.210.52
Connected
Compute Cluster 1B
2 items
OK
Cancel
Back
Next
Finish
Cancel
Basic Tasks
Add and manage hosts
Create a new port group
Recent Tasks

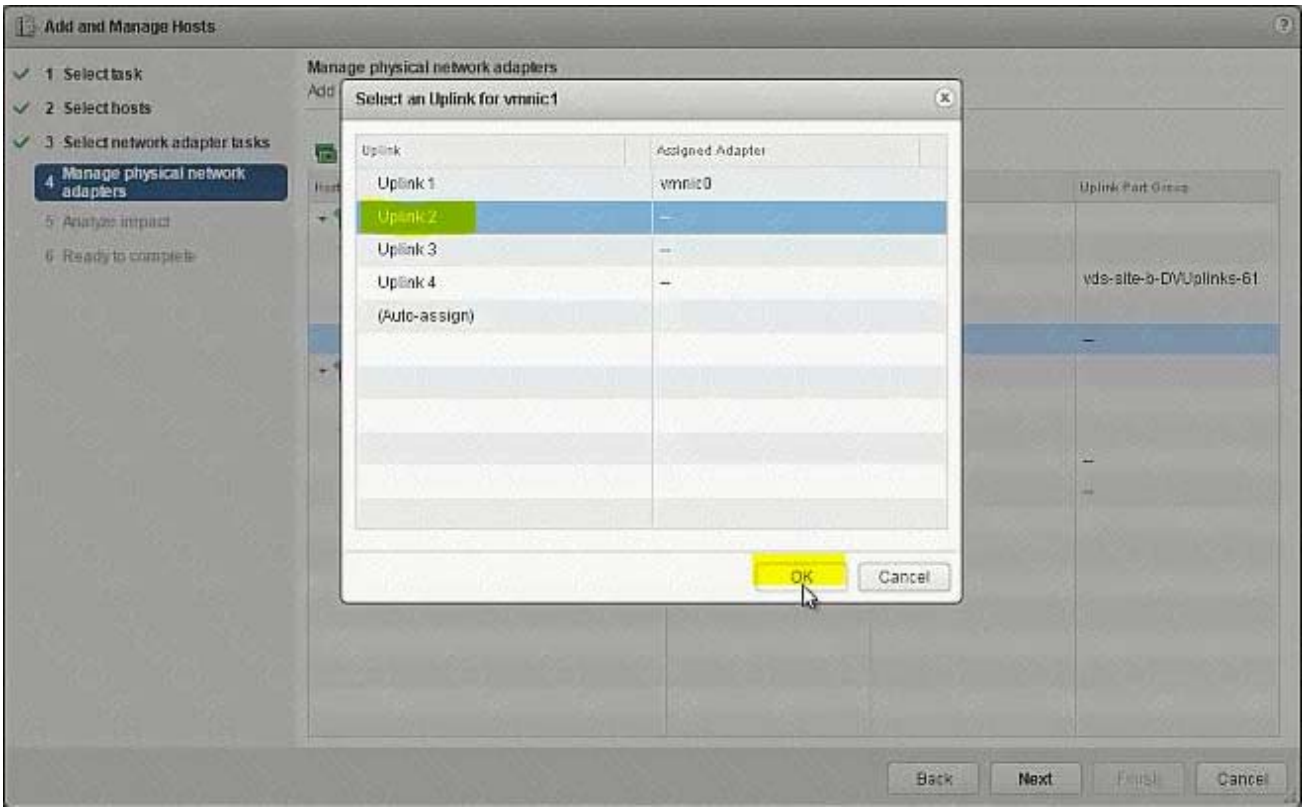

vSphere Web Client
vmware vSphere Web Client
Add and Manage Hosts
1 Select task
2 Select hosts
Select hosts
Select hosts to add to this distributed switch.
New hosts...
Remove
Host
Host Status
(New) 192.168.210.51
Connected
(New) 192.168.210.52
Connected
Configure identical network settings on multiple hosts (template mode).
Back
Next
Finish
Cancel
Basic Tasks
Add and manage hosts
Create a new port group
Recent Tasks

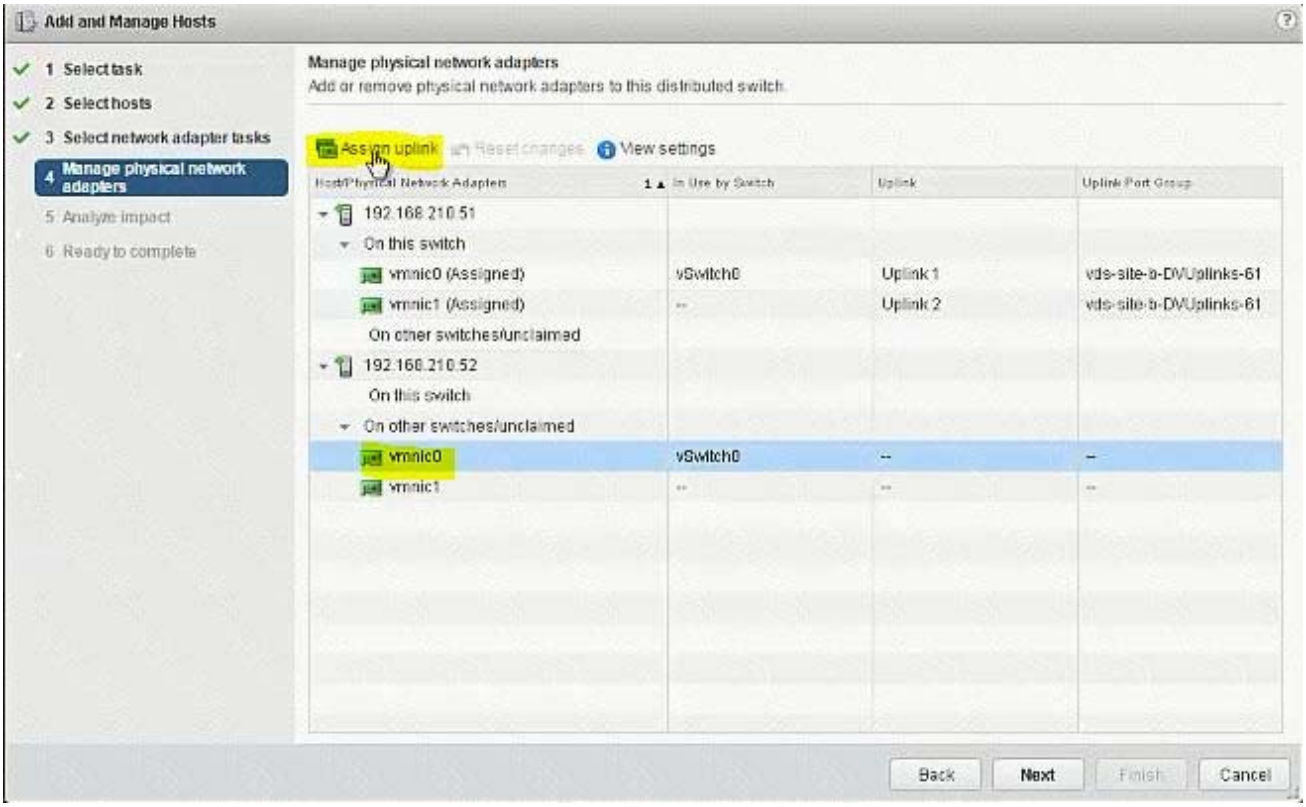

vSphere Web Client
vmware vSphere Web Client
Navigator
vds-site-b
Getting Started
Summary
Monitor
Manage
Related Objects
What is a Distributed Switch?
Basic Tasks
Add and manage hosts
Manage this distributed sv
Create a new port group
Recent Tasks
Add and Manage Hosts
1 Select task
2 Select hosts
3 Select network adapter tasks
4 Manage physical network adapters
5 Analyze impact
6 Ready to complete
Select network adapter tasks
Select the network adapter tasks to perform.
Manage physical adapters
Add physical network adapters to the distributed switch, assign them to uplinks, or remove existing ones.
Manage VMkernel adapters
Add or migrate VMkernel network adapters to this distributed switch, assign them to distributed port groups, configure VMkernel adapter settings, or remove existing ones.
Migrate virtual machine networking
Migrate VM network adapters by assigning them to distributed port groups on the distributed switch.
Manage advanced host settings
Set the number of ports per legacy host proxy switch.
Sample distributed switch
VMkernel port group
VMkernel ports
vmk
VM port group
Virtual Machines
vm
Uplink port group
Uplink
vmnic
Manage physical adapters
Back
Next
Finish
Cancel

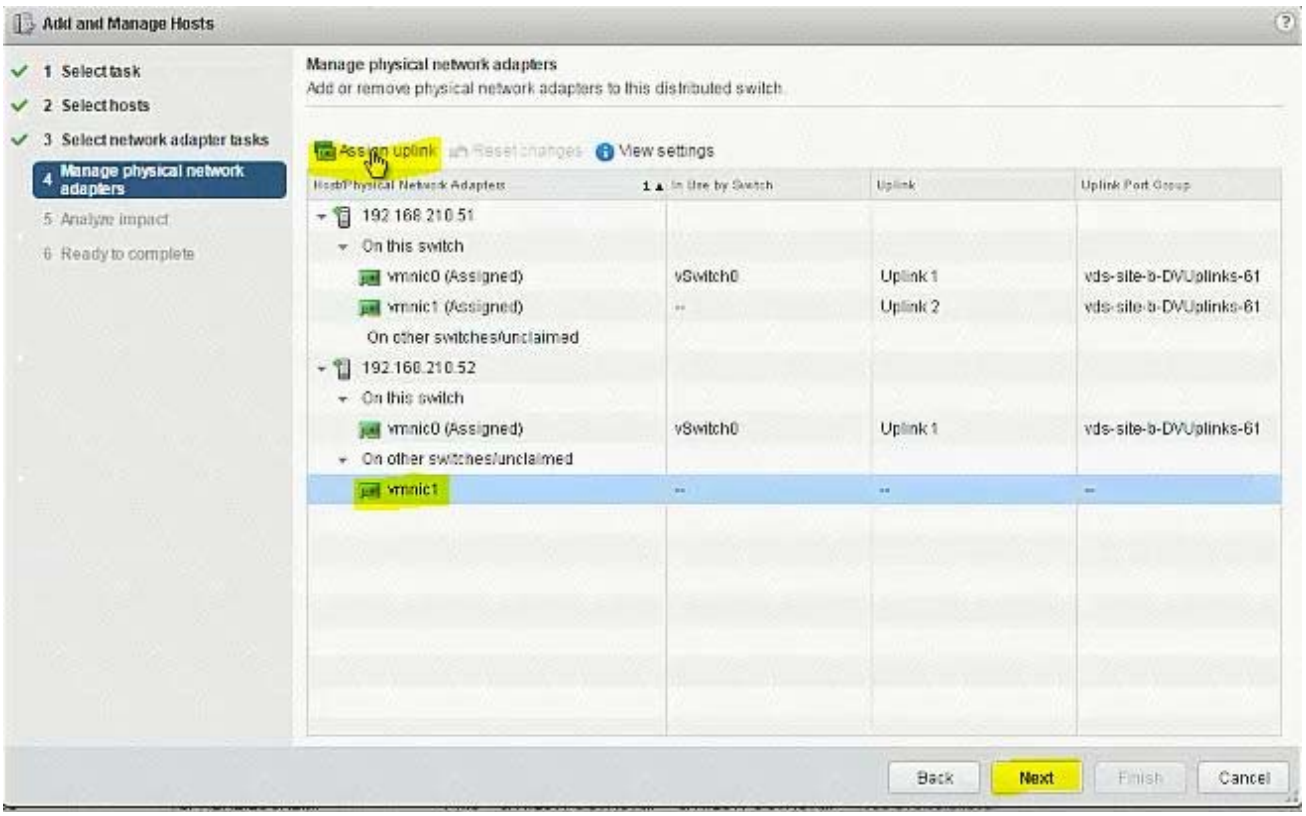

vSphere Web Client
vmware vSphere Web Client
Navigator
vds-site-b
Getting Started
Summary
Monitor
Manage
Related Objects
What is a Distributed Switch?
Basic Tasks
Add and manage hosts
Manage this distributed sv
Create a new port group
Recent Tasks
Add and Manage Hosts
1 Select task
2 Select hosts
3 Select 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
On other switches/unclaimed
vmnic0
vSwitch0
vmnic1
192.168.210.52
On this switch
On other switches/unclaimed
vmnic0
vSwitch0
vmnic1
Back
Next
Finish
Cancel

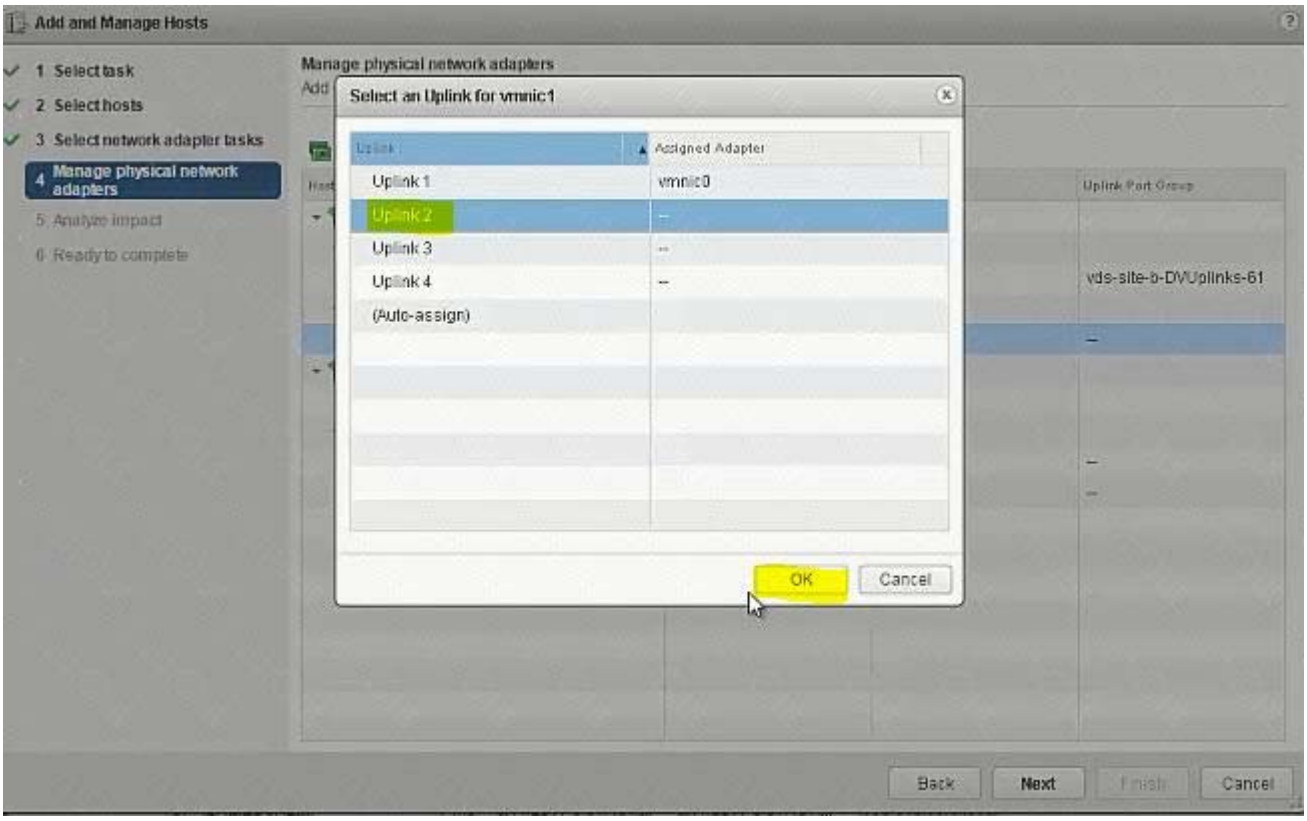

Add and Manage Hosts
1 Select task
2 Select hosts
3 Select network adapter tasks
4 Manage physical network adapters
5 Analyze impact
6 Ready to complete
Manage physical network adapters
Select an Uplink for vmnic0
Uplink
Assigned Adapter
Uplink 1
Uplink 2
Uplink 3
Uplink 4
(Auto-assign)
OK
Cancel
Back
Next
Finish
Cancel

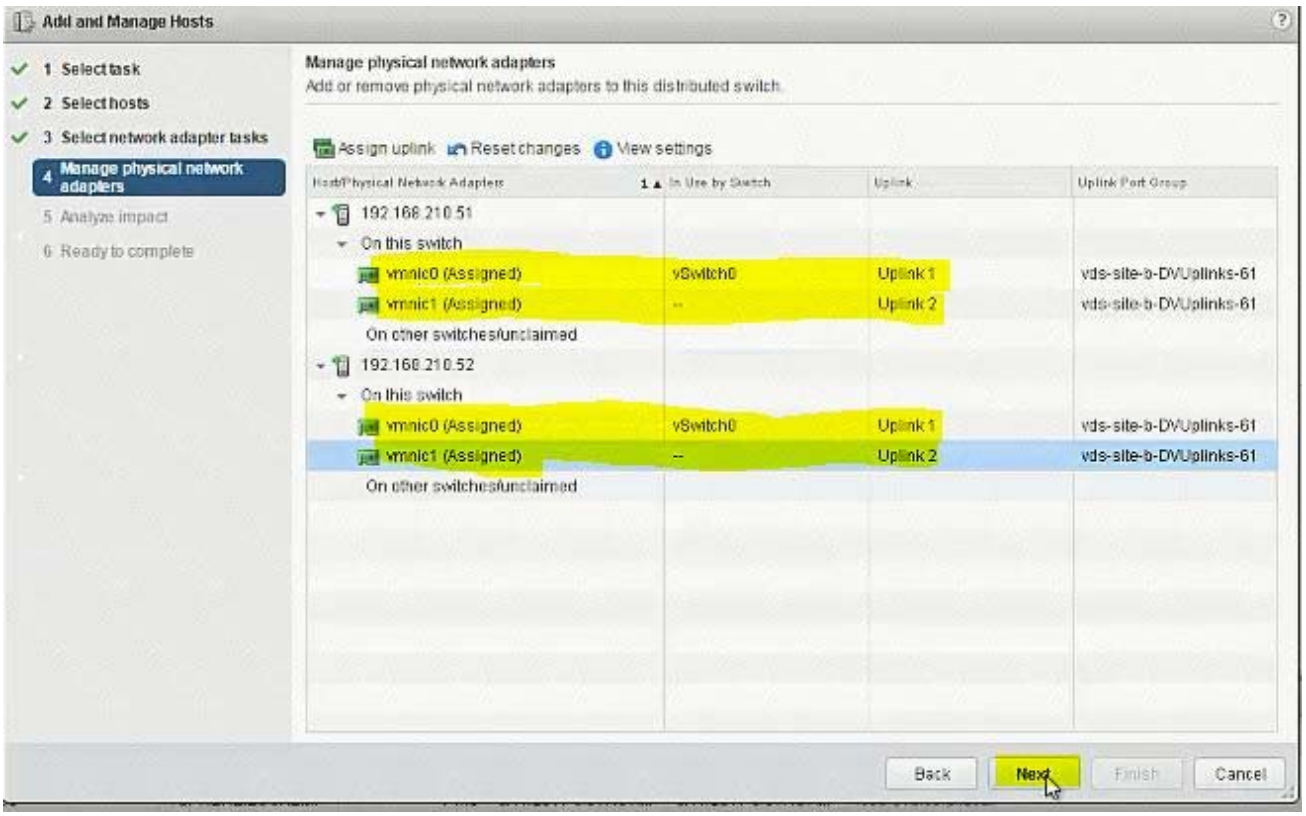

Add and Manage Hosts
1 Select task
2 Select hosts
3 Select network adapter tasks
4 Manage physical network adapters
5 Analyze impact
6 Ready to complete
Manage physical network adapters
Add or remove physical network adapters to this distributed switch
Assign uplink
Reset changes
View settings
Host/Physical Network Adapters
In Use by Switch
Uplink
Uplink Port Group
192.168.210.51
On this switch
vmnic0 (Assigned)
vSwitch0
Uplink 1
vds-site-a-DVUplinks-61
On other switches/unclaimed
vmnic1
192.168.210.52
On this switch
On other switches/unclaimed
vmnic0
vSwitch0
vmnic1
Back
Next
Finish
Cancel

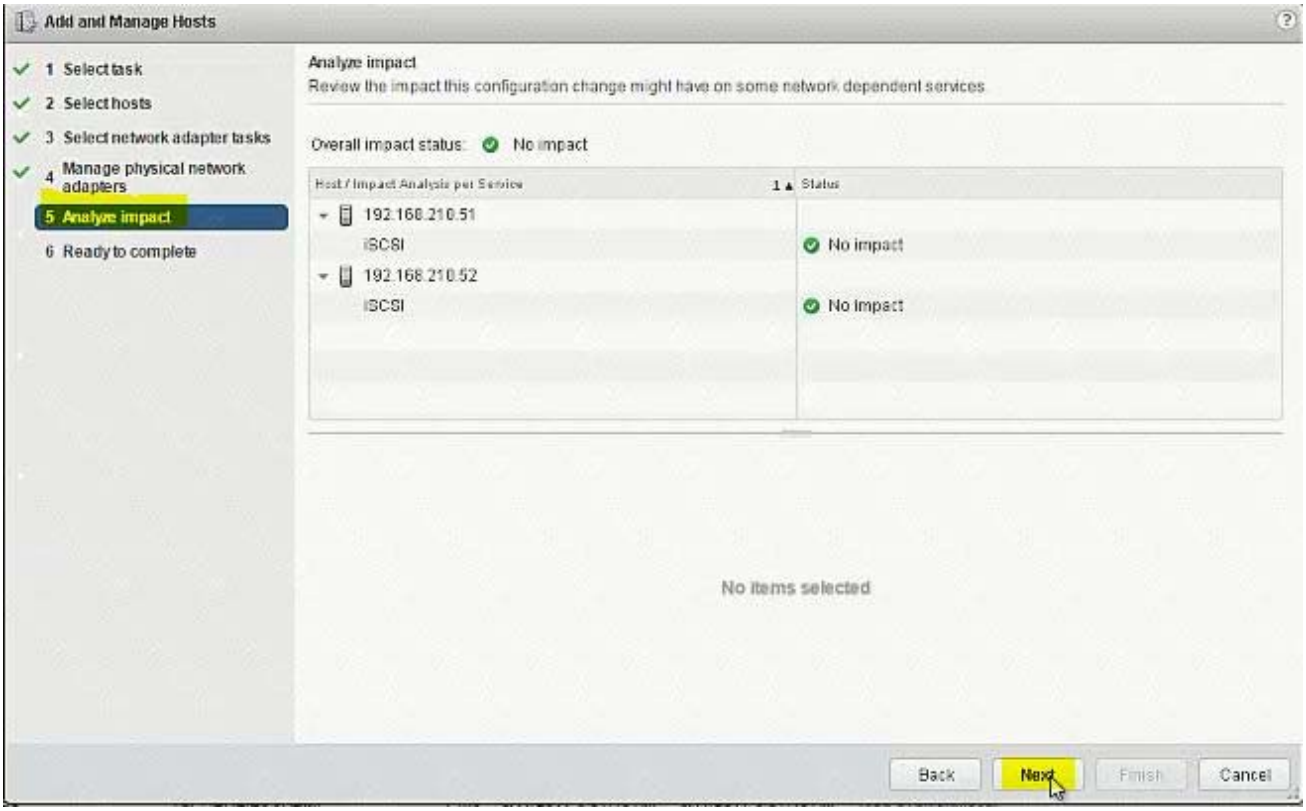

Add and Manage Hosts
1 Select task
2 Select hosts
3 Select network adapter tasks
4 Manage physical network adapters
5 Analyze impact
6 Ready to complete
Manage physical network adapters
Select an Uplink for vmnic1
Uplink
Assigned Adapter
Uplink 1
vmnic0
Uplink 2
Uplink 3
Uplink 4
(Auto-assign)
OK
Cancel
Uplink Port Group
vds-site-a-DVUplinks-61
Back
Next
Finish
Cancel

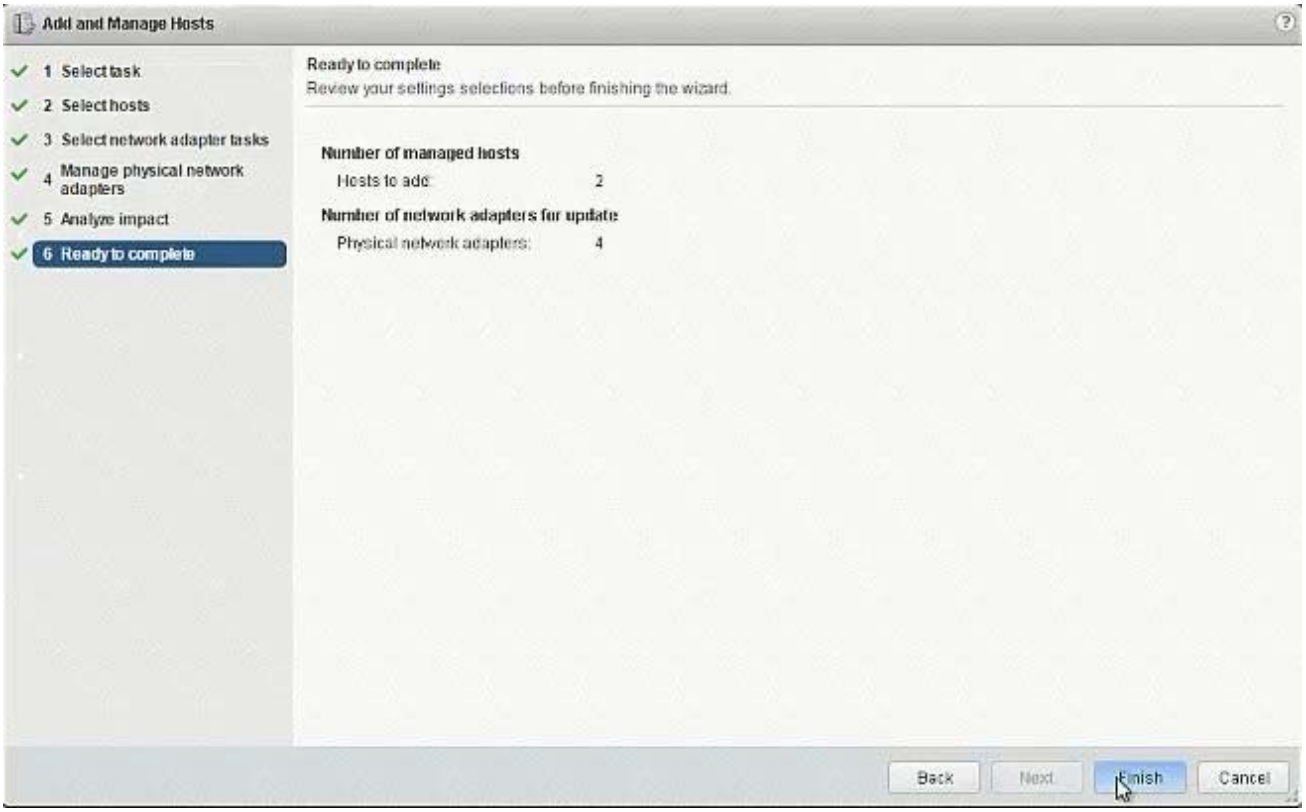

Add and Manage Hosts
1 Select task
2 Select hosts
3 Select network adapter tasks
4 Manage physical network adapters
5 Analyze impact
6 Ready to complete
Manage physical network adapters
Add or remove physical network adapters to this distributed switch
Assign uplink
Reset changes
View settings
Host/Physical Network Adapters
In Use by Switch
Uplink
Uplink Port Group
192.168.210.51
On this switch
vmnic0 (Assigned)
vSwitch0
Uplink 1
vds-site-a-DVUplinks-61
vmnic1 (Assigned)
Uplink 2
vds-site-a-DVUplinks-61
On other switches/unclaimed
192.168.210.52
On this switch
On other switches/unclaimed
vmnic0
vSwitch0
vmnic1
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
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
On other switches/unclaimed
vmnic1
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
Manage physical network adapters
Select an Uplink for vmnic1
Uplink
Assigned Adapter
Uplink 1
vmnic0
Uplink 2
Uplink 3
Uplink 4
(Auto-assign)
OK
Cancel
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
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



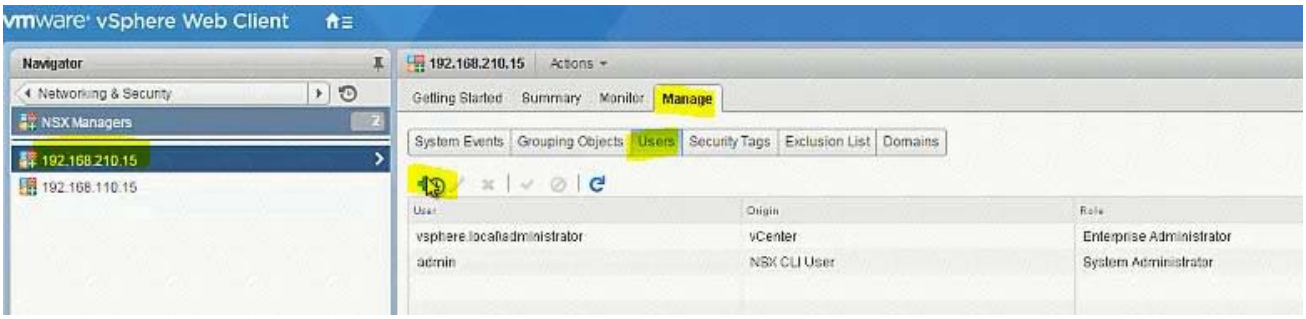
3. (Exam Topic 1)
The security team has requested that administrator@corp.local have the ability to fully manage NSX Manager (192.168.210.15) for Site B.

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.

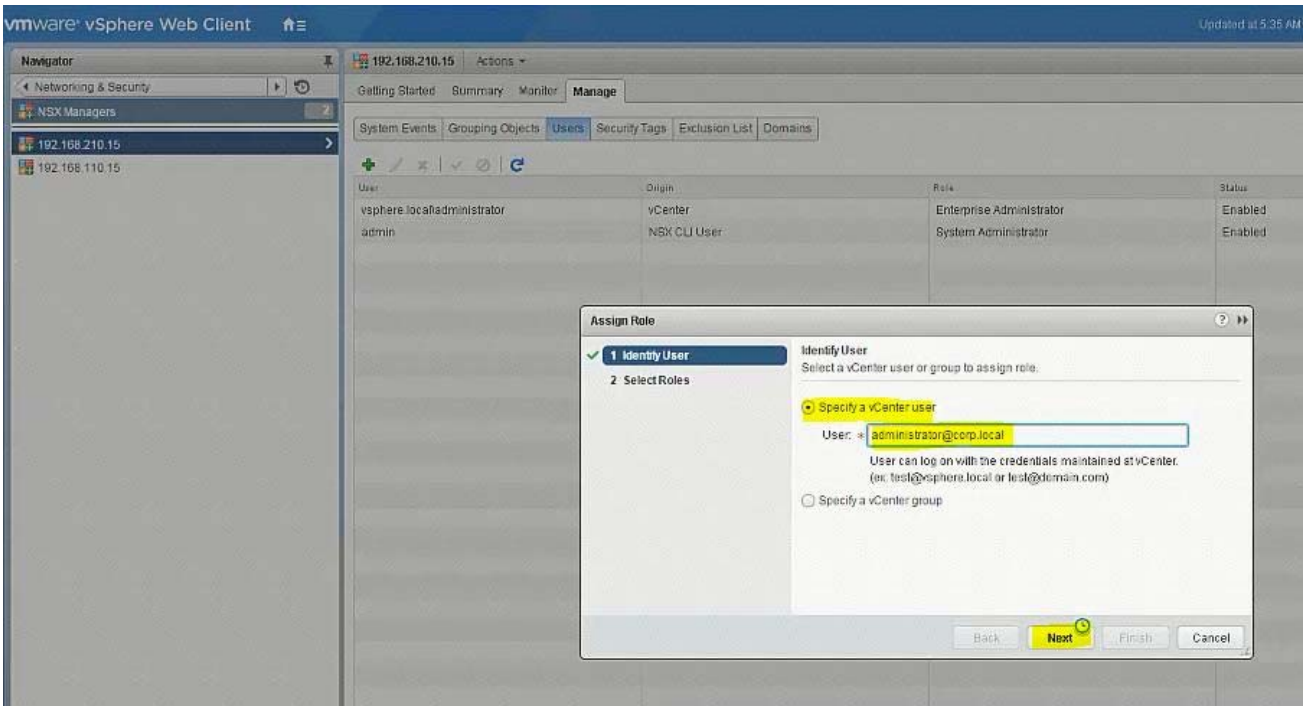
NOTE:
You may have to log out of the web client and back in for 192.168.210.15 to show in web client.
HOL LAB for Practice:
See the explanation part for complete solution.

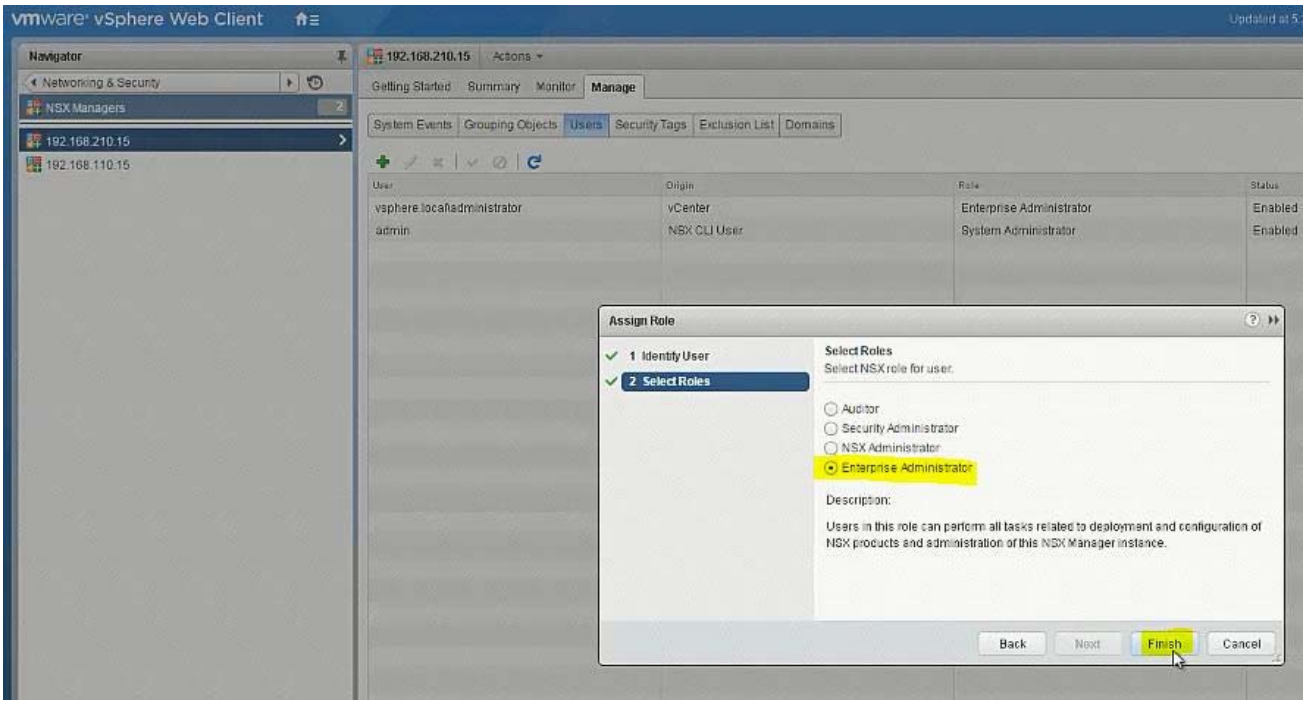
Answer:

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.

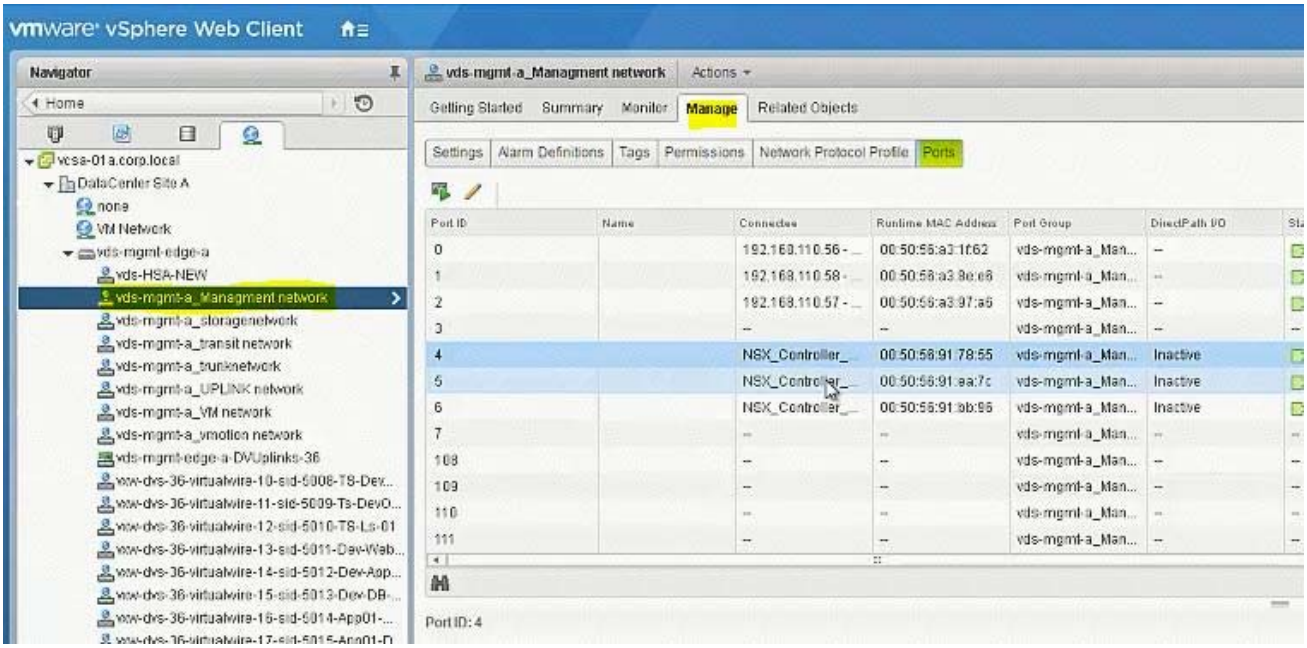
Requirements:
vCenter: vcsa-01a.corp.local
Credentials: administrator@vsphere.local / VMware1!

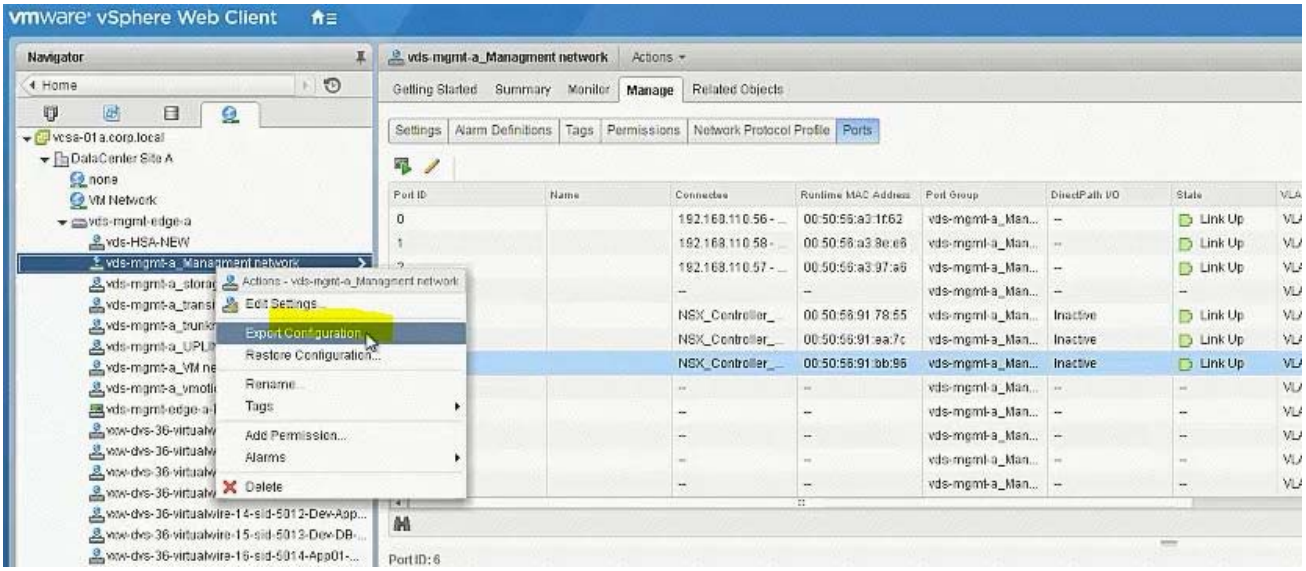
Components to backup:
vDS Portgroup that the controllers utilize.
NSX Firewall configuration.
Backup file name: vdsPortGroup-backup-NEW.zip, nsxfw-backup-NEW.xml
Backup file location: Desktop of the ControlCenter.

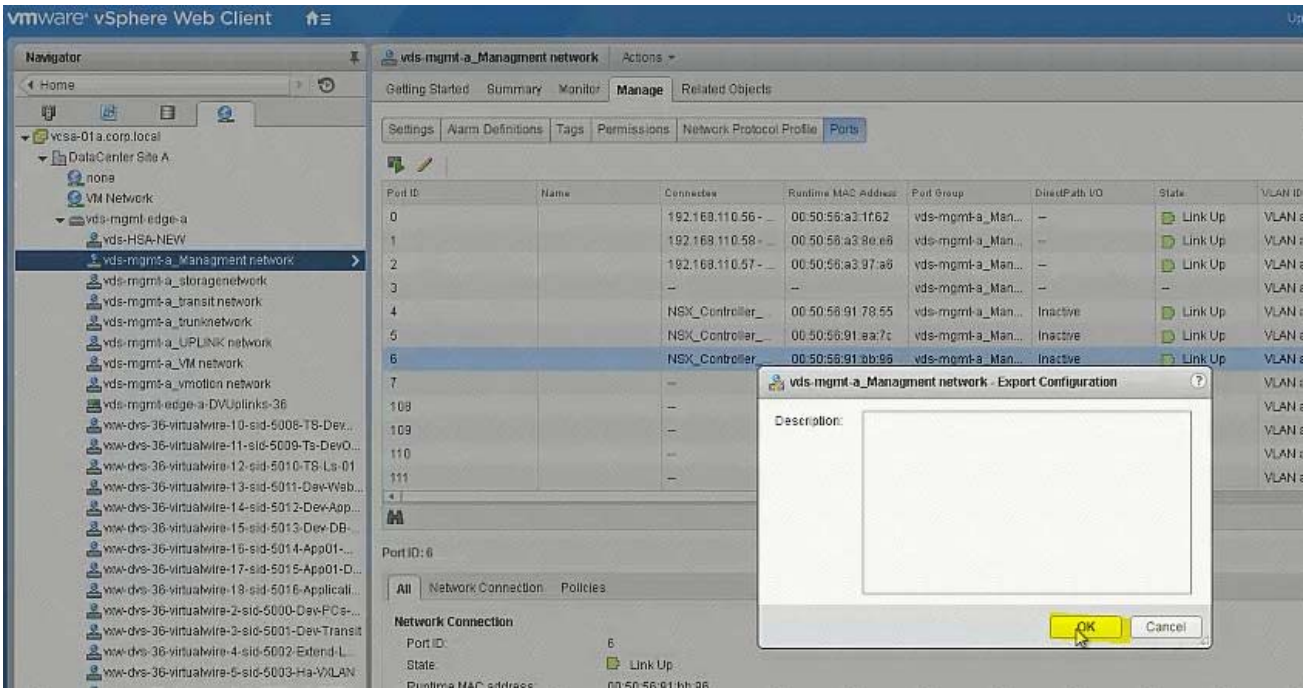
Security Policy:
File to import: sec-policy-blueprint located on the desktop of the ControlCenter.
Backup only the vDS portgroup that the NSX Controllers utilize.
Backup the NSX Firewall configuration.
Import the sec-policy.blueprint file
Ensure requirements are met.
HOL LAB for Practice:
See the explanation part for complete solution.

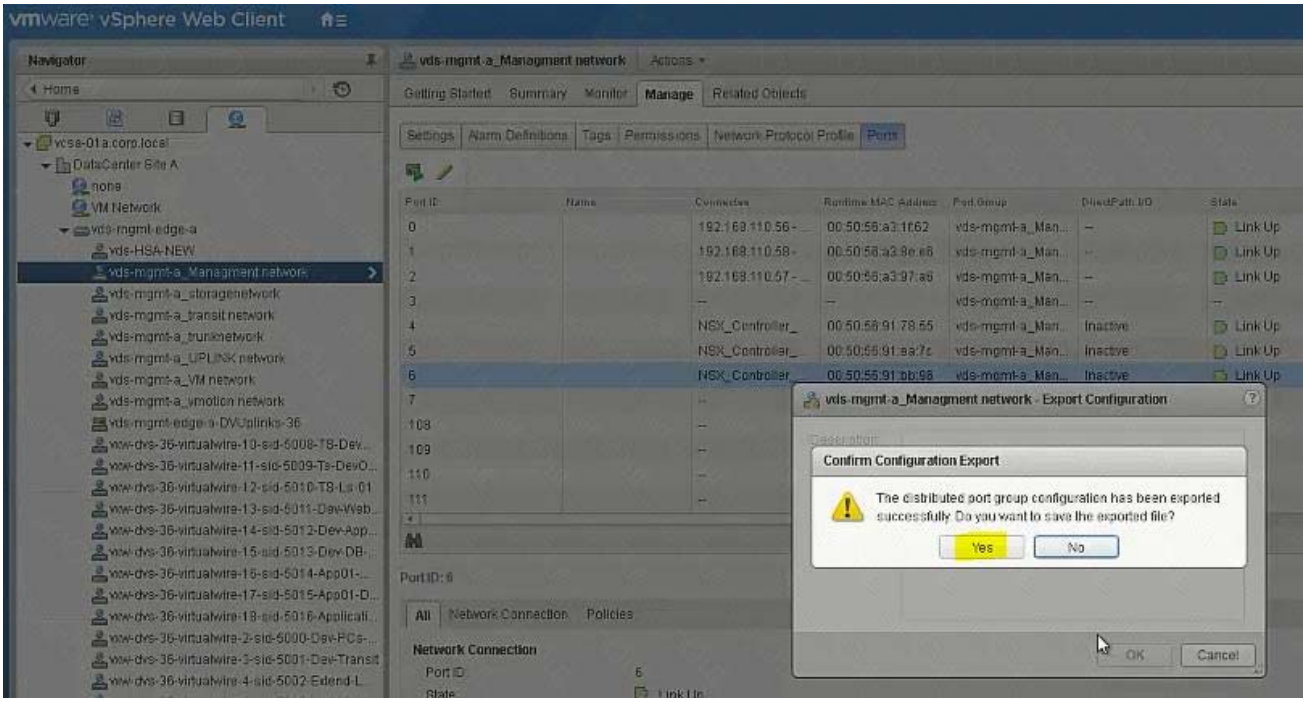
Answer:

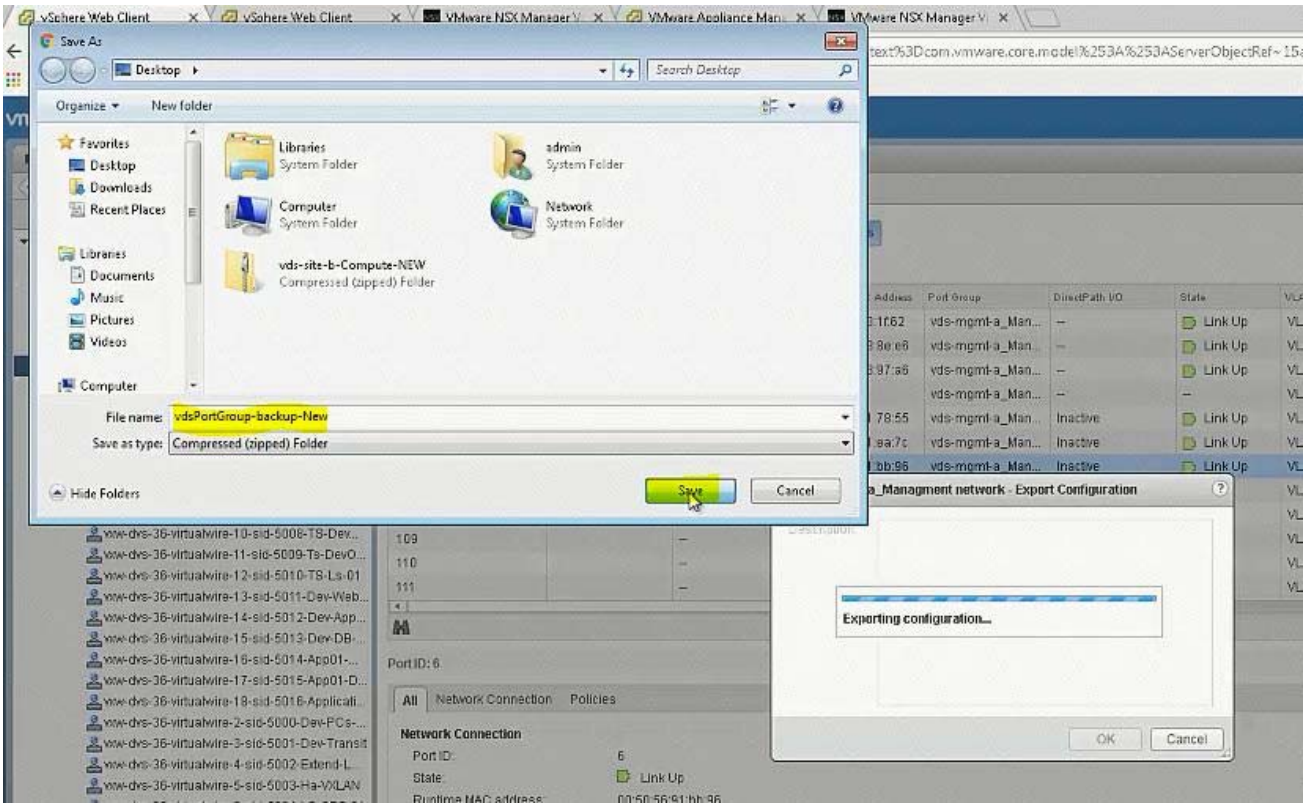
SOLUTION:
select Network & Security. select service composer. select 192.168.110.15.
select security policy tab. click on + sign enter name sec-policy-blueprint.
click next 3 times. click finish. select sec-policy-blueprint. click right mouse
button select export configuration. enter name sec-policy-blueprint. 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)

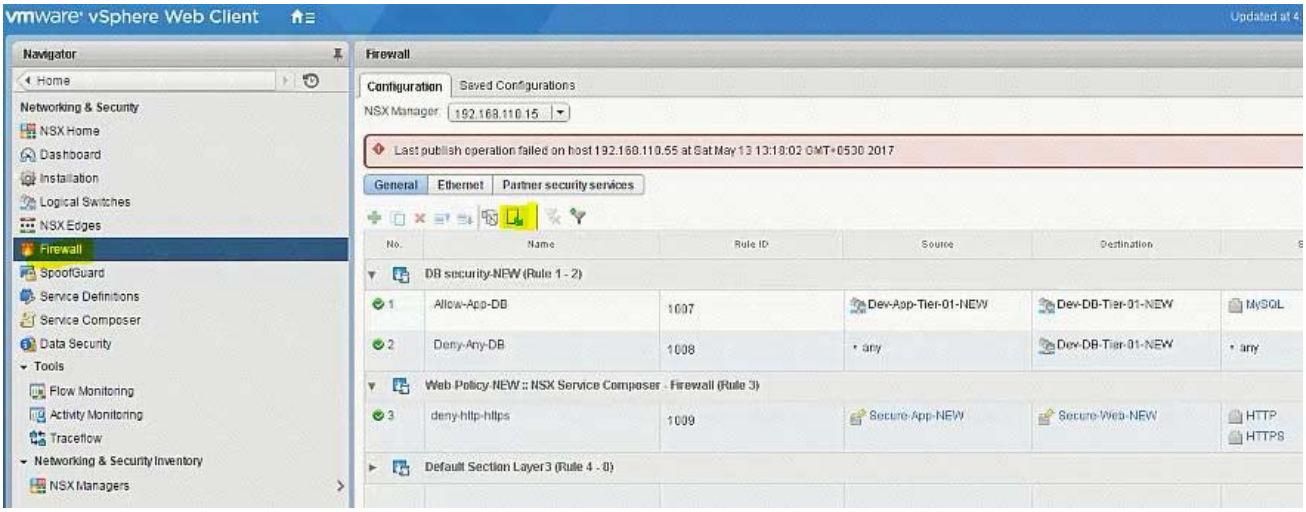

vmware vSphere Web Client
Navigator
Home
vcsa-01a.corp.local
DataCenter Site A
none
VM Network
vds-mgmt-edge-a
vds-HSA-NEW
vds-mgmt-a_Managment network
vds-mgmt-a_storagenetwork
vds-mgmt-a_transit network
vds-mgmt-a_trunknetwork
vds-mgmt-a_UPLINK network
vds-mgmt-a_VM network
vds-mgmt-a_vmotion network
vds-mgmt-edge-a-DVUplinks-36
vds-mgmt-a_Managment network
Actions
Getting Started
Summary
Monitor
Manage
Related Objects
Settings
Alarm Definitions
Tags
Permissions
Network Protocol Profile
Ports
Port ID
Name
Connectee
Runtime MAC Address
Port Group
DirectPath I/O
0
1
2
3
4
5
6
7
108
109
110
111
NSX_Controller_
Inactive
Port ID: 4

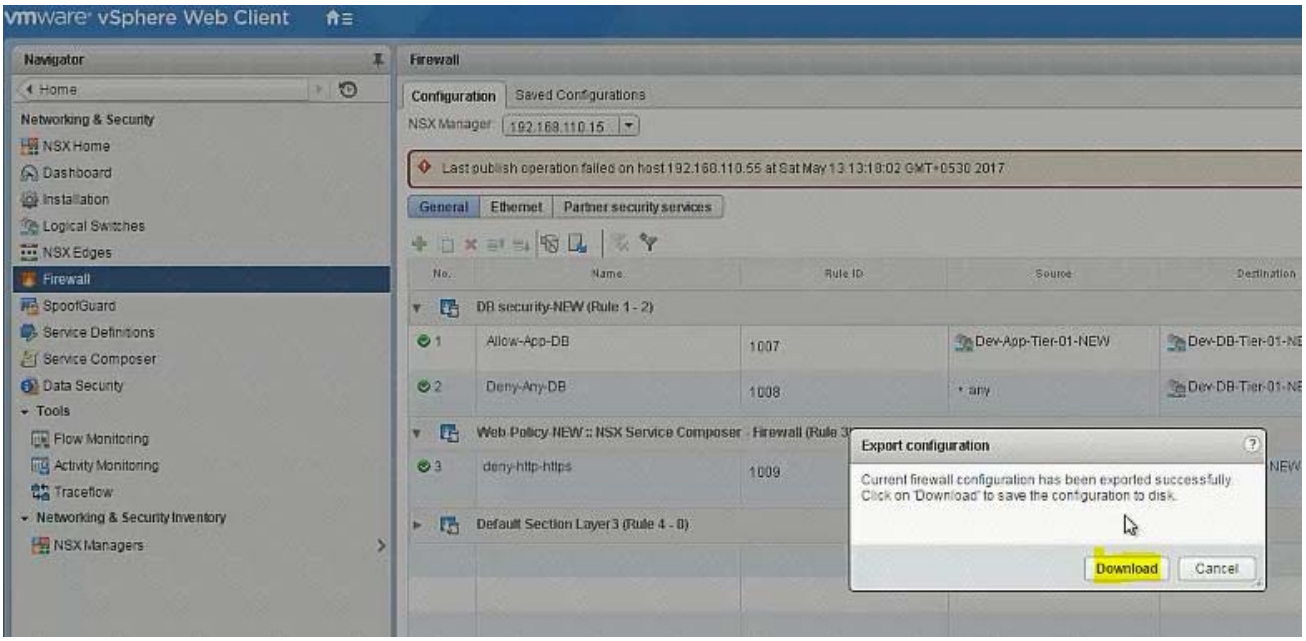

vmware vSphere Web Client
Navigator
Home
vcsa-01a.corp.local
DataCenter Site A
none
VM Network
vds-mgmt-edge-a
vds-HSA-NEW
vds-mgmt-a_Managment network
vds-mgmt-a_Managment network
Actions
Getting Started
Summary
Monitor
Manage
Related Objects
Settings
Alarm Definitions
Tags
Permissions
Network Protocol Profile
Ports
Actions - vds-mgmt-a_Managment network
Edit Settings...
Export Configuration...
Restore Configuration...
Rename...
Tags
Add Permission...
Alarms
Delete
Link Up
Inactive
Port ID: 6

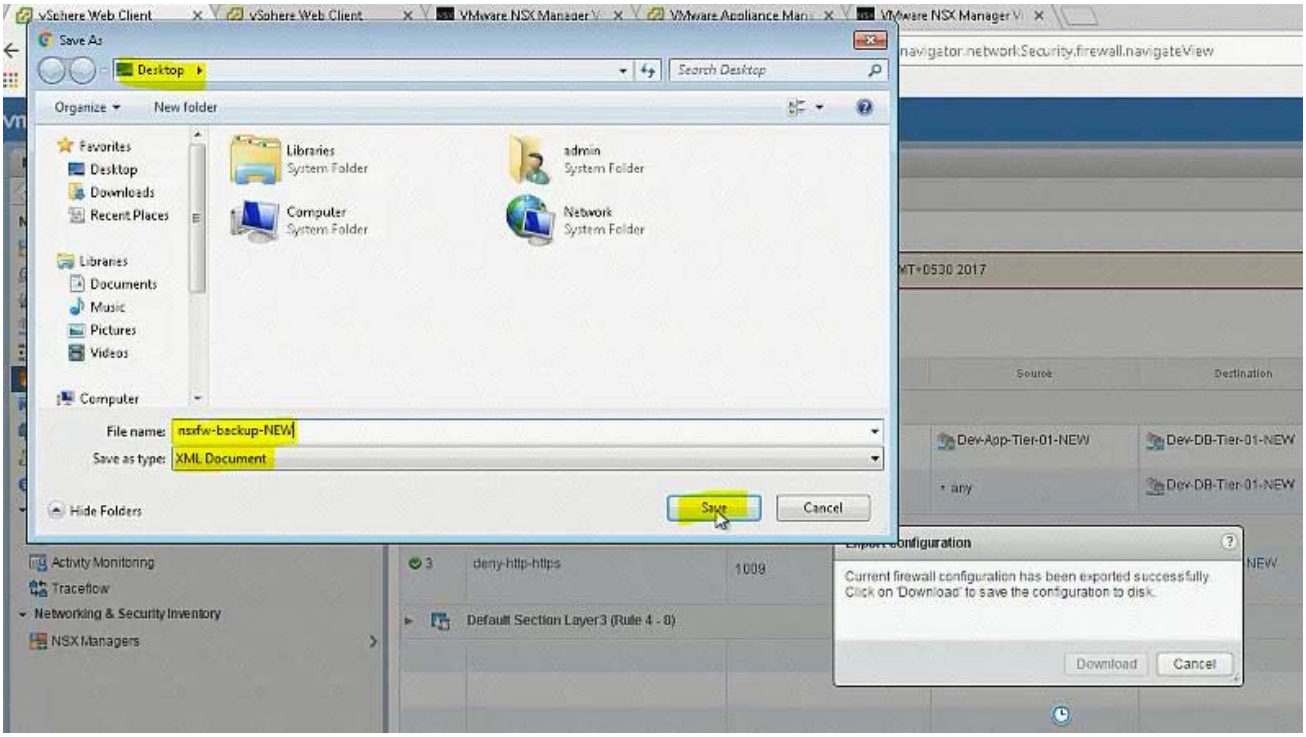

vmware vSphere Web Client
Navigator
vds-mgmt-a_Managment network
Actions
Getting Started
Summary
Monitor
Manage
Related Objects
Settings
Alarm Definitions
Tags
Permissions
Network Protocol Profile
Ports
vds-mgmt-a_Managment network - Export Configuration
Description:
OK
Cancel
Port ID: 6
All
Network Connection
Policies
Network Connection
Port ID:
State:
Link Up

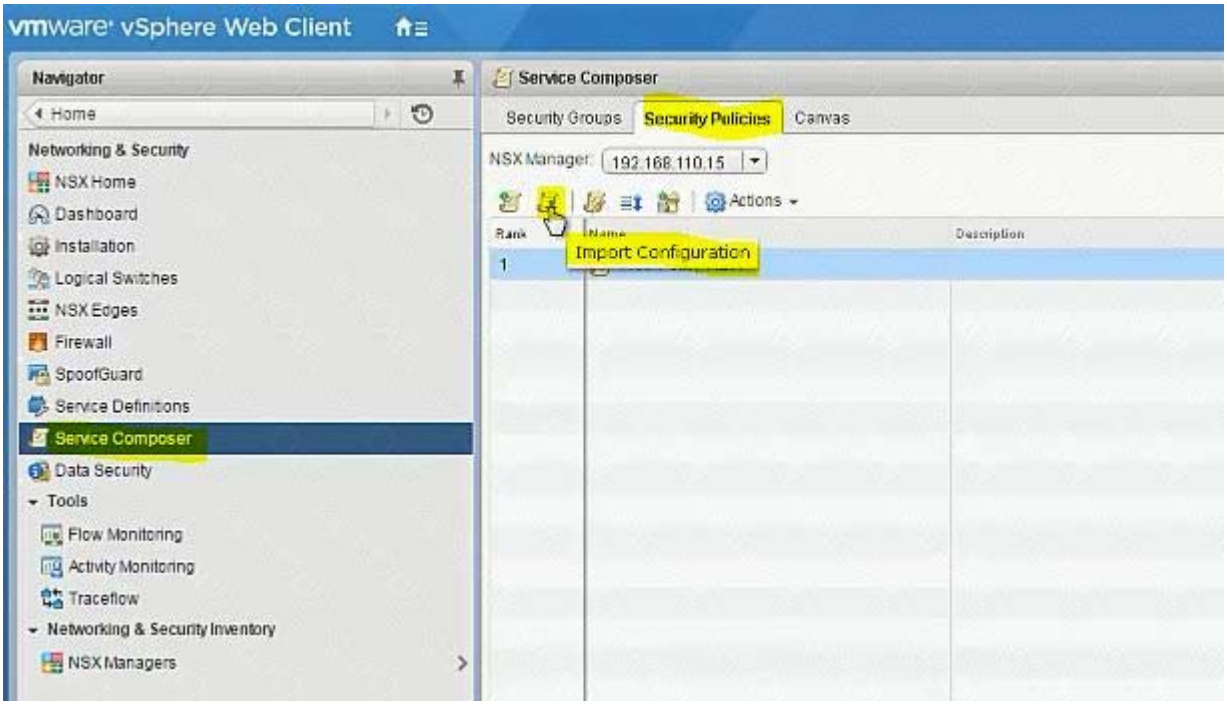

vmware vSphere Web Client
Navigator
vds-mgmt-a_Managment network
Actions
Getting Started
Summary
Monitor
Manage
Related Objects
Settings
Alarm Definitions
Tags
Permissions
Network Protocol Profile
Ports
vds-mgmt-a_Managment network - Export Configuration
Confirm Configuration Export
The distributed port group configuration has been exported successfully. Do you want to save the exported file?
Yes
No
OK
Cancel
Port ID: 6
All
Network Connection
Policies
Network Connection
Port ID:
State:
Link Up

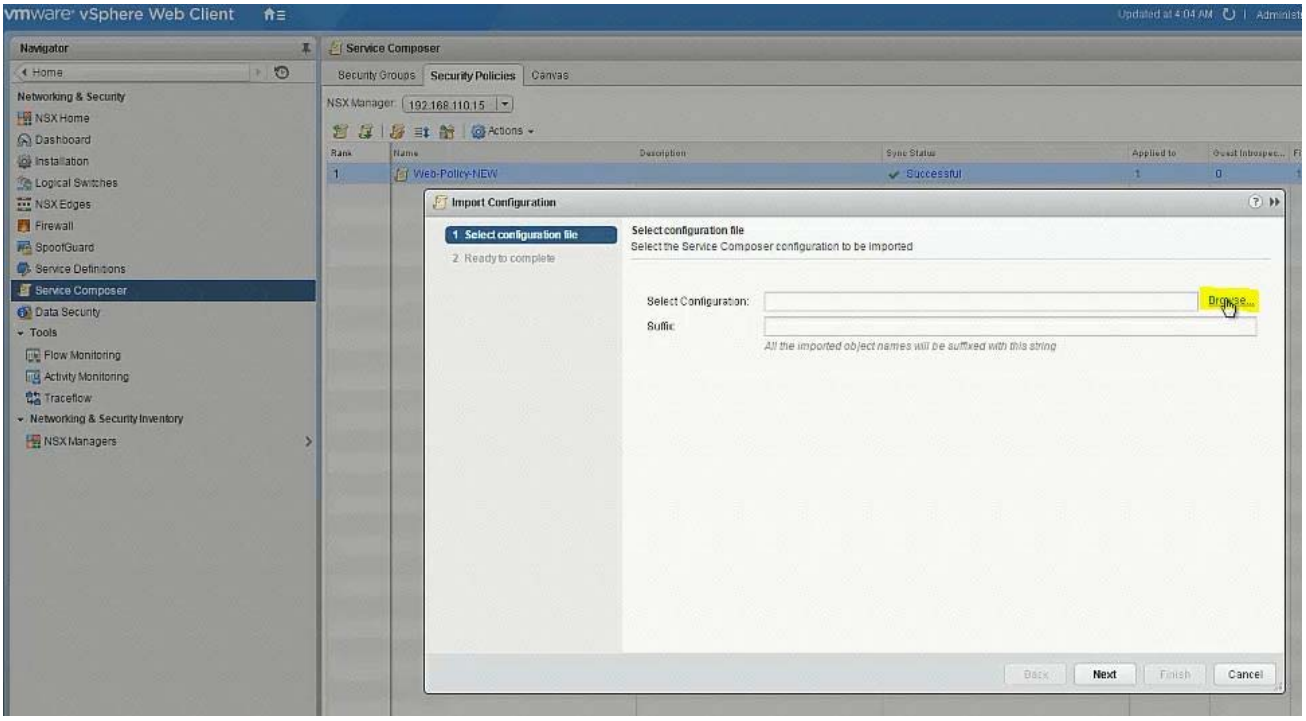

Save As
Desktop
Search Desktop
Organize
New folder
Favorites
Desktop
Downloads
Recent Places
Libraries
Documents
Music
Pictures
Videos
Computer
Libraries
System Folder
admin
System Folder
Computer
System Folder
Network
System Folder
vds-site-b-Compute-NEW
Compressed (zipped) Folder
File name: vdsPortGroup-backup-New
Save as type: Compressed (zipped) Folder
Hide Folders
Save
Cancel
Exporting configuration...
OK
Cancel
All
Network Connection
Policies
Network Connection
Port ID:
State:
Link Up

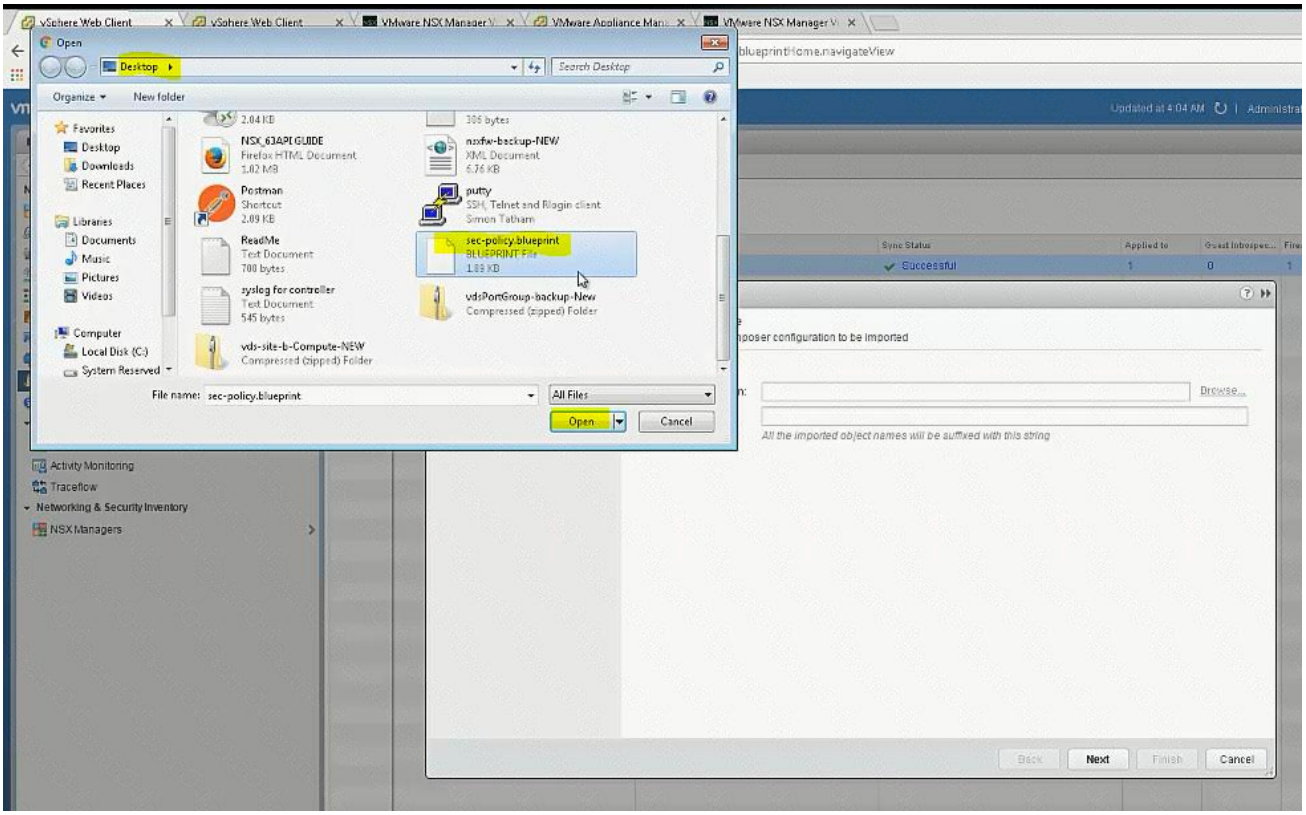

vmware vSphere Web Client
Navigator
Home
Networking & Security
NSX Home
Dashboard
Installation
Logical Switches
NSX Edges
Firewall
SpoofGuard
Service Definitions
Service Composer
Data Security
Tools
Flow Monitoring
Activity Monitoring
Traceflow
Networking & Security Inventory
NSX Managers
Firewall
Configuration
Saved Configurations
NSX Manager: 192.168.110.15
Last publish operation failed on host 192.168.110.55 at Sat May 13 13:18:02 GMT+0530 2017
General
Ethernet
Partner security services
No.
Name
Rule ID
Source
Destination
DB security-NEW (Rule 1 - 2)
1
Allow-App-DB
1007
Dev-App-Tier-01-NEW
Dev-DB-Tier-01-NEW
MySQL
2
Deny-Any-DB
1008
any
Dev-DB-Tier-01-NEW
any
Web Policy-NEW :: NSX Service Composer - Firewall (Rule 3)
3
deny-http-https
1009
Secure-App-NEW
Secure-Web-NEW
HTTP
HTTPS
Default Section Layer3 (Rule 4 - 0)

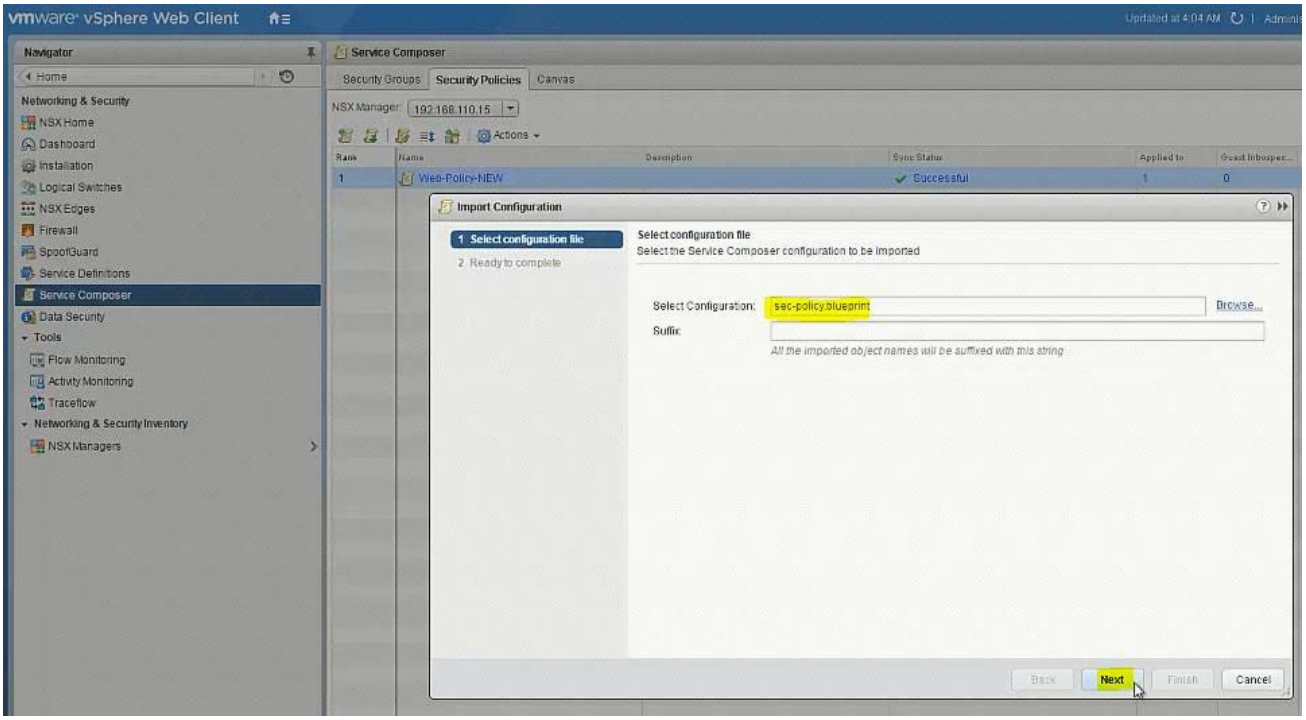

vmware vSphere Web Client
Navigator
Home
Networking & Security
NSX Home
Dashboard
Installation
Logical Switches
NSX Edges
Firewall
SpoofGuard
Service Definitions
Service Composer
Data Security
Tools
Flow Monitoring
Activity Monitoring
Traceflow
Networking & Security Inventory
NSX Managers
Firewall
Configuration
Saved Configurations
NSX Manager: 192.168.110.15
Last publish operation failed on host 192.168.110.55 at Sat May 13 13:10:02 GMT+0530 2017
General
Ethernet
Partner security services
No.
Name
Rule ID
Source
Destination
DB security-NEW (Rule 1 - 2)
1 Allow-App-DB 1007 Dev-App-Tier-01-NEW
2 Deny-Any-DB 1008 any
Web Policy-NEW :: NSX Service Composer - Firewall (Rule 3)
3 deny-http-https 1009
Default Section Layer3 (Rule 4 - 0)
Export configuration
Current firewall configuration has been exported successfully.
Click on 'Download' to save the configuration to disk.
Download
Cancel

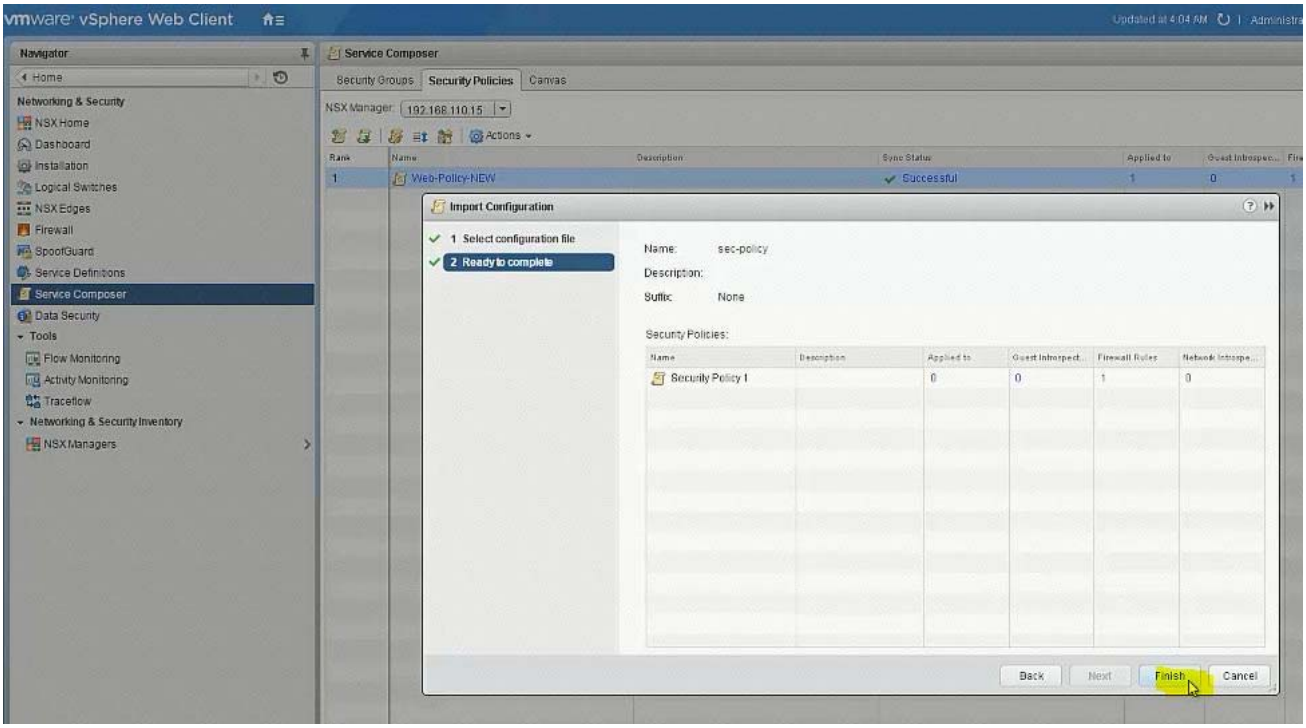

Save As
Desktop
Search Desktop
Organize
New folder
Favorites
Desktop
Downloads
Recent Places
Libraries
Documents
Music
Pictures
Videos
Computer
Libraries
System Folder
admin
System Folder
Computer
System Folder
Network
System Folder
File name: nsxfw-backup-NEW
Save as type: XML Document
Hide Folders
Save
Cancel
Export configuration
Current firewall configuration has been exported successfully.
Click on 'Download' to save the configuration to disk.
Download
Cancel

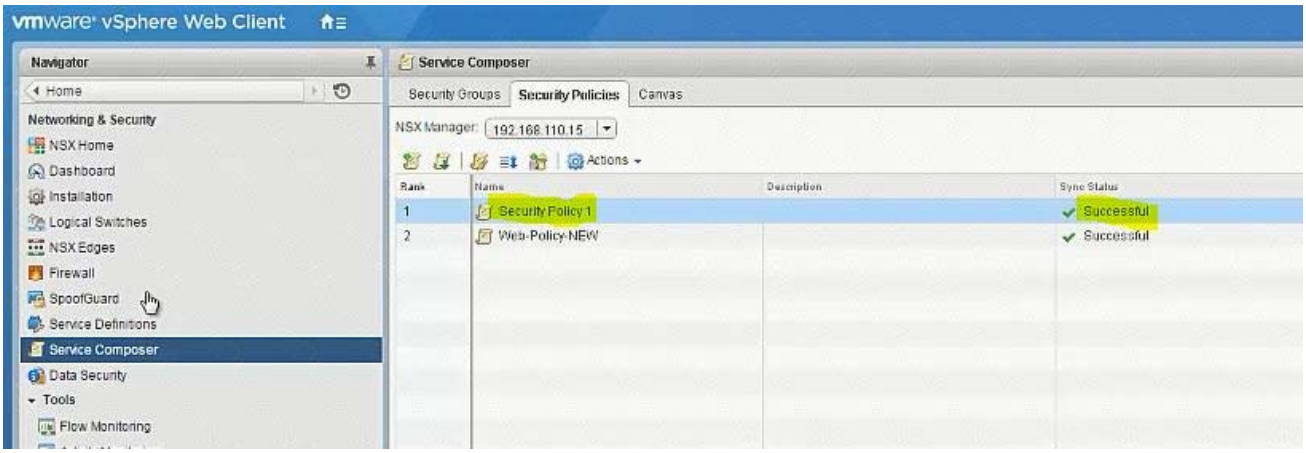

vmware vSphere Web Client
Navigator
Home
Networking & Security
NSX Home
Dashboard
Installation
Logical Switches
NSX Edges
Firewall
SpoofGuard
Service Definitions
Service Composer
Data Security
Tools
Flow Monitoring
Activity Monitoring
Traceflow
Networking & Security Inventory
NSX Managers
Service Composer
Security Groups
Security Policies
Canvas
NSX Manager:
192.168.110.15
Actions
Rank
Name
Description
1
Import Configuration


vmware vSphere Web Client
Navigator
Service Composer
Security Groups
Security Policies
Canvas
NSX Manager:
192.168.110.15
Actions
Rank
Name
Description
Sync Status
Applied to
1
Web-Policy-NEW
Successful
Import Configuration
1 Select configuration file
2 Ready to complete
Select configuration file
Select the Service Composer configuration to be imported
Select Configuration:
Browse...
Suffix:
All the imported object names will be suffixed with this string
Back
Next
Finish
Cancel


Open
Desktop
Search Desktop
Organize
New folder
Favorites
Desktop
Downloads
Recent Places
Libraries
Documents
Music
Pictures
Videos
Computer
Local Disk (C:)
System Reserved
NSX_63APIGUIDE
Firefox HTML Document
1.02 MB
Postman
Shortcut
2.09 KB
ReadMe
Text Document
708 bytes
syslog for controller
Text Document
545 bytes
vds-site-b-Compute-NEW
Compressed (zipped) Folder
nsxfw-backup-NEW
XML Document
6.76 KB
putty
SSH, Telnet and Rlogin client
Simon Tatham
sec-policy.blueprint
BLUEPRINT File
1.89 KB
vdsPortGroup-backup-New
Compressed (zipped) Folder
File name: sec-policy.blueprint
All Files
Open
Cancel
Activity Monitoring
Traceflow
Networking & Security Inventory
NSX Managers
Browse...
All the imported object names will be suffixed with this string
Back
Next
Finish
Cancel


vmware vSphere Web Client
Navigator
Home
Networking & Security
NSX Home
Dashboard
Installation
Logical Switches
NSX Edges
Firewall
SpoofGuard
Service Definitions
Service Composer
Data Security
Tools
Flow Monitoring
Activity Monitoring
Traceflow
Networking & Security Inventory
NSX Managers
Service Composer
Security Groups
Security Policies
Canvas
NSX Manager:
192.168.110.15
Actions
Rank
Name
Description
Sync Status
Applied to
Web-Policy-NEW
Successful
Import Configuration
1 Select configuration file
2 Ready to complete
Select configuration file
Select the Service Composer configuration to be imported
Select Configuration:
sec-policy.blueprint
Browse...
Suffix
All the imported object names will be suffixed with this string
Back
Next
Finish
Cancel





5. (Exam Topic 1)
Routing through TS-Edge-01 is not working. The service provider (SP) has confirmed their configuration is correct.

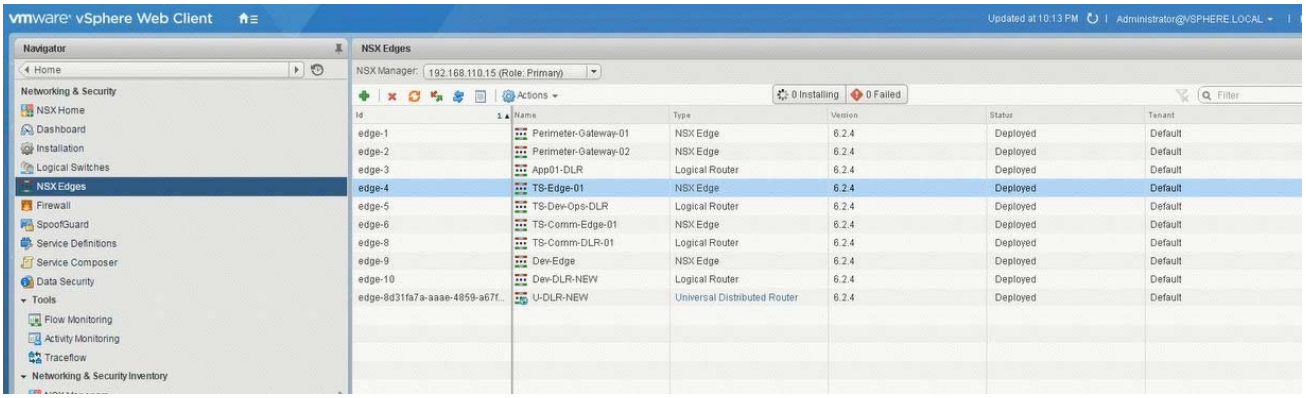
Requirements:
vCenter: vcsa01a.corp.local
Credential: administrator@vsphere.local / VMware1!
Edge: TS-Edge-01
Credential: admin / VMware1!VMware1!
Problem Edge: TS-Edge01
Local IP Address: 192.168.100.202
SP provided configuration:
Area ID: 10
Type: Normal

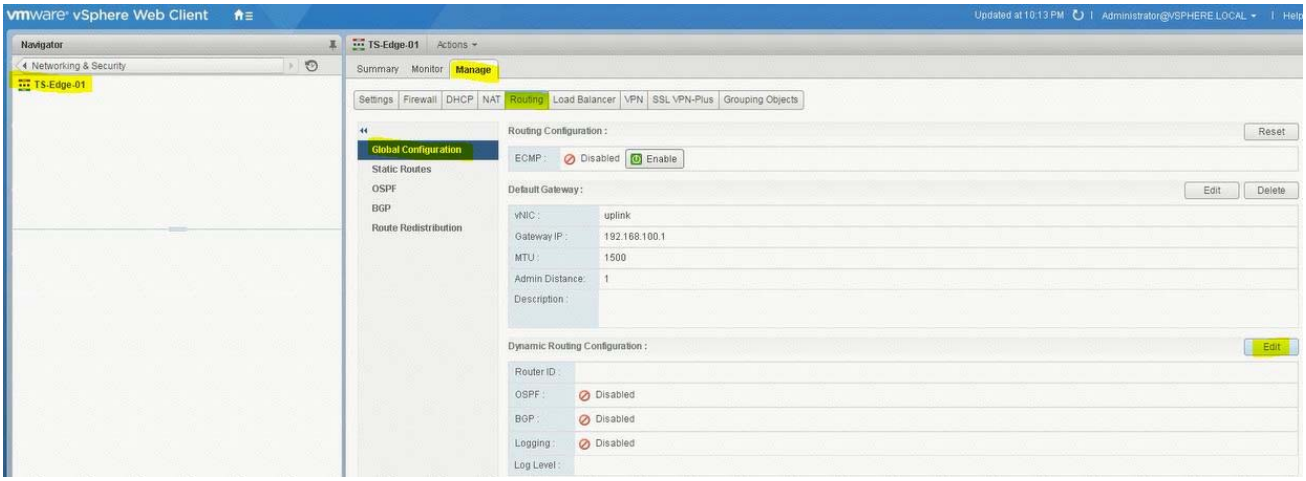
Authentication: None
Ensure the OSPF session is established.
Ensure all learned OSPF routes appear.
Copy OSPF routing table information and output to file on ControlCenter Desktop named TS-Edge-01_OSPF.txt

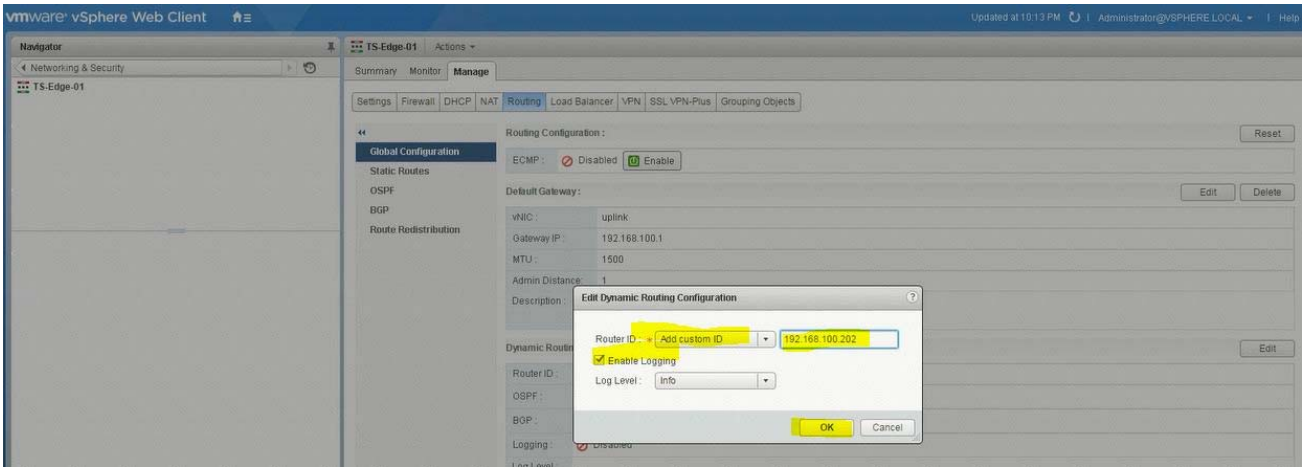
NOTE:
Do not use static route or configure Default Gateway on any Edge.
HOL LAB for Practice:
See the explanation part for complete solution.

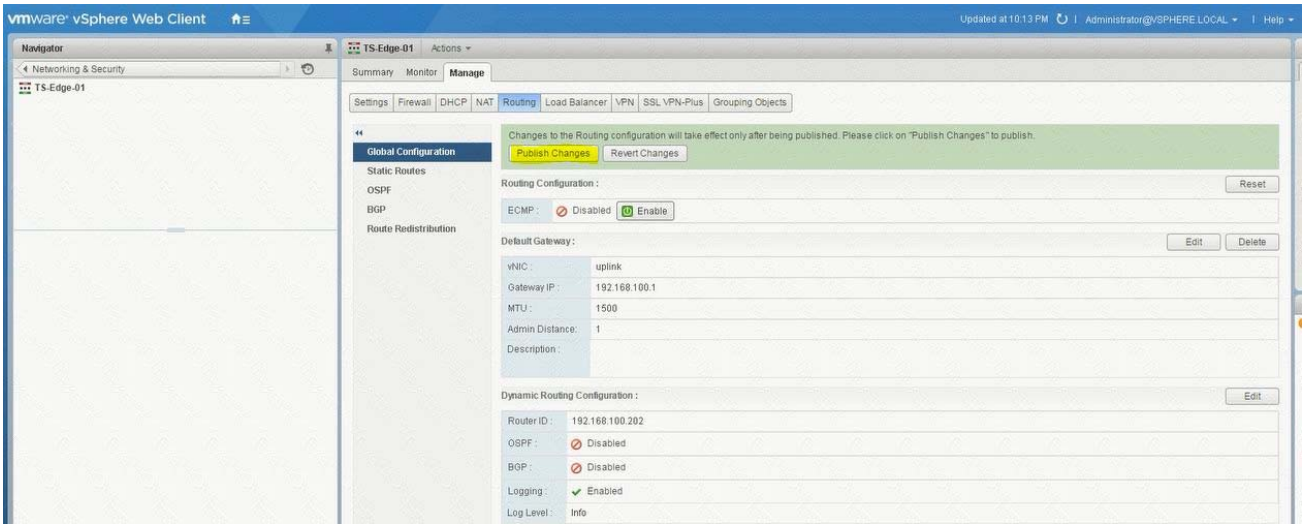
Answer:

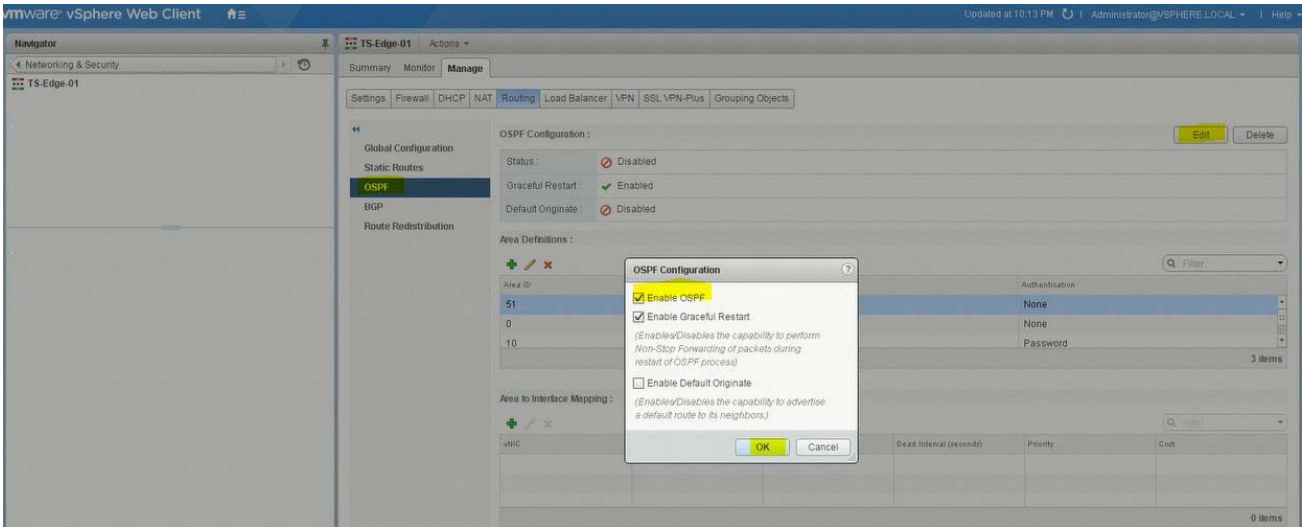
SOLUTION:
(1) select Home. select Network & Security. select NsX Edge. select Nsx Manager-a.
select TS-EDGE-01. select manage tab and select settings.
select interface. check ip address and mask of the vnic.

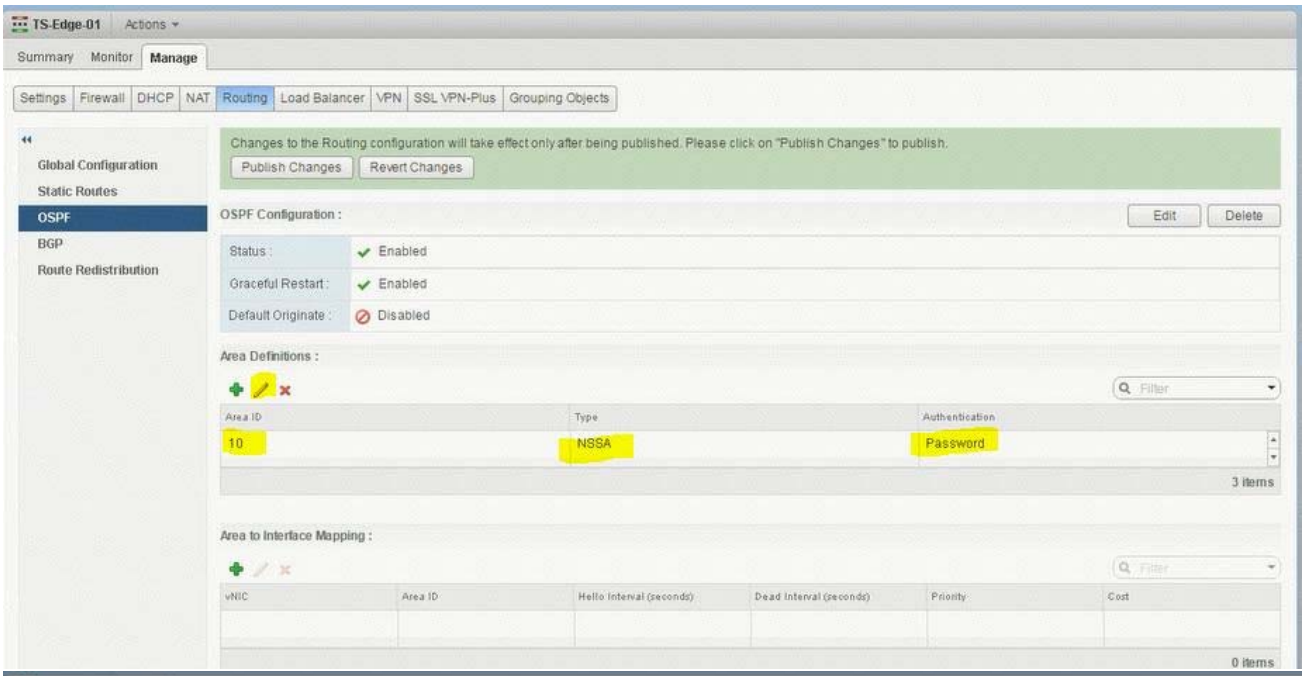


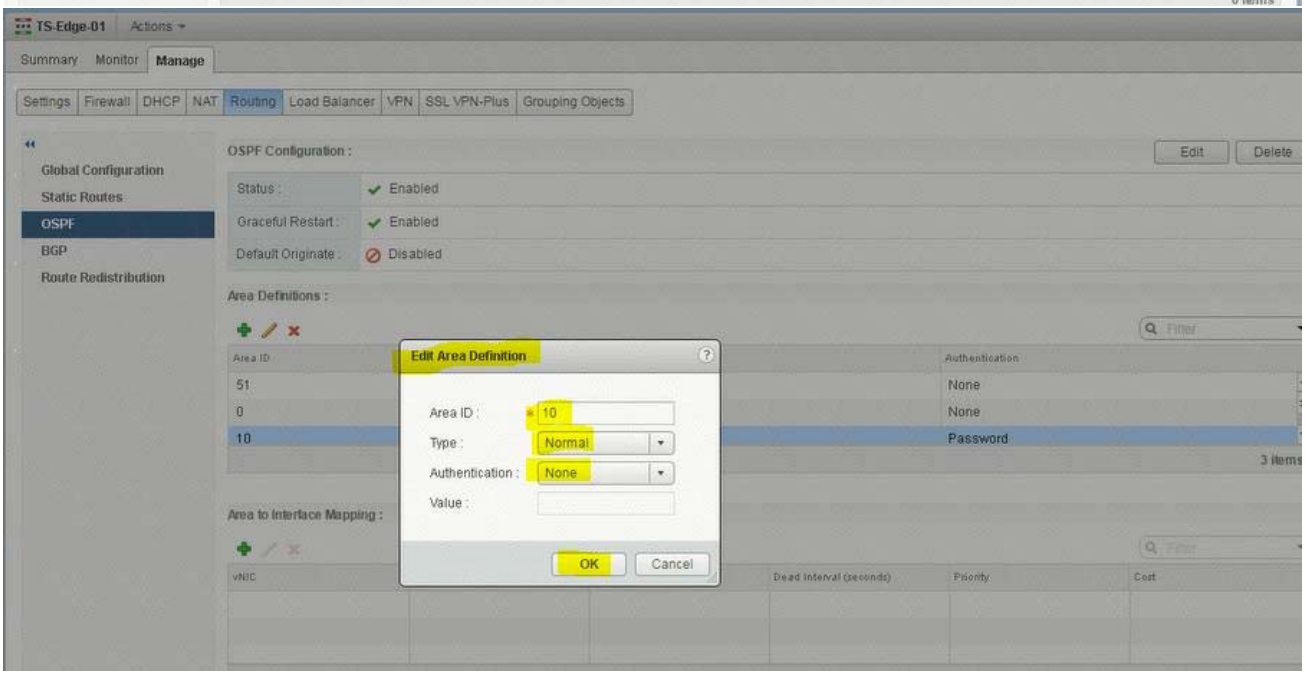


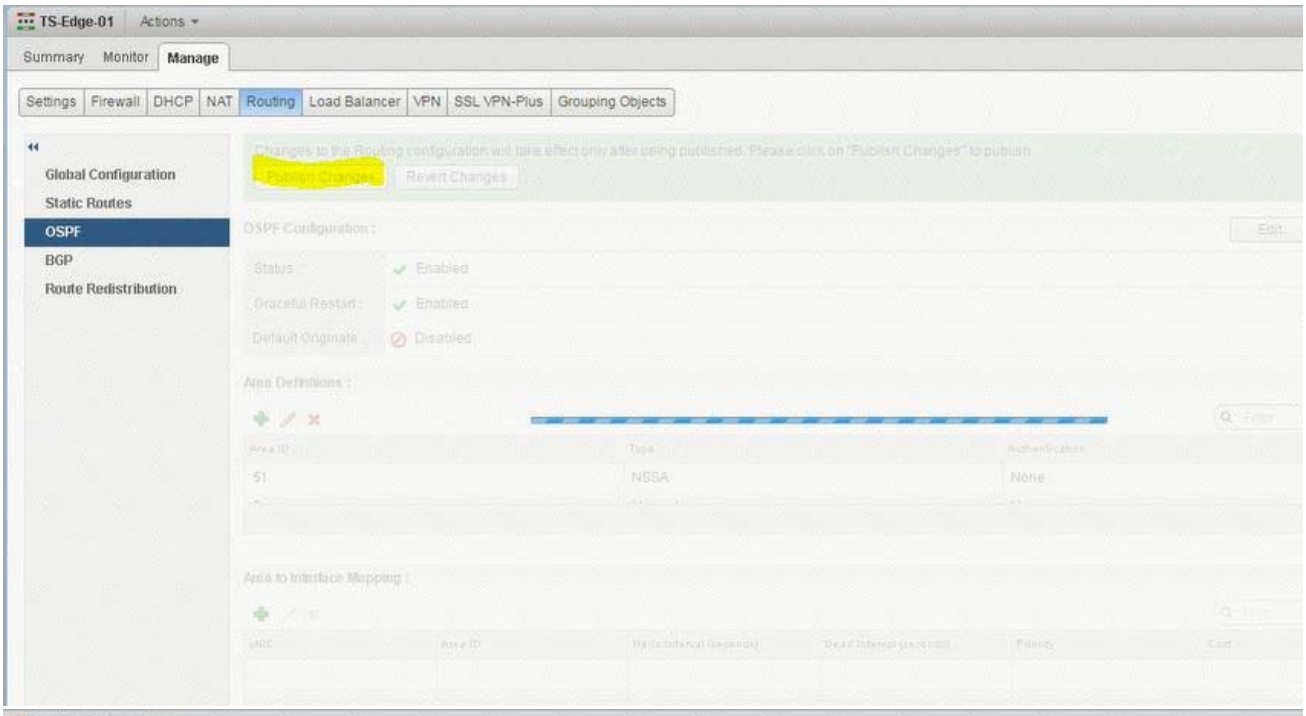

vmware vSphere Web Client
Navigator
Networking & Security
TS-Edge-01
Summary Monitor Manage
Settings Firewall DHCP NAT Routing Load Balancer VPN SSL VPN-Plus Grouping Objects
Global Configuration
Static Routes
OSPF
BGP
Route Redistribution
Routing Configuration :
ECMP : Disabled Enable
Default Gateway :
vNIC : uplink
Gateway IP : 192.168.100.1
MTU : 1500
Admin Distance : 1
Description :
Edit Dynamic Routing Configuration
Router ID : Add custom ID 192.168.100.202
Enable Logging
Log Level : Info
OK Cancel

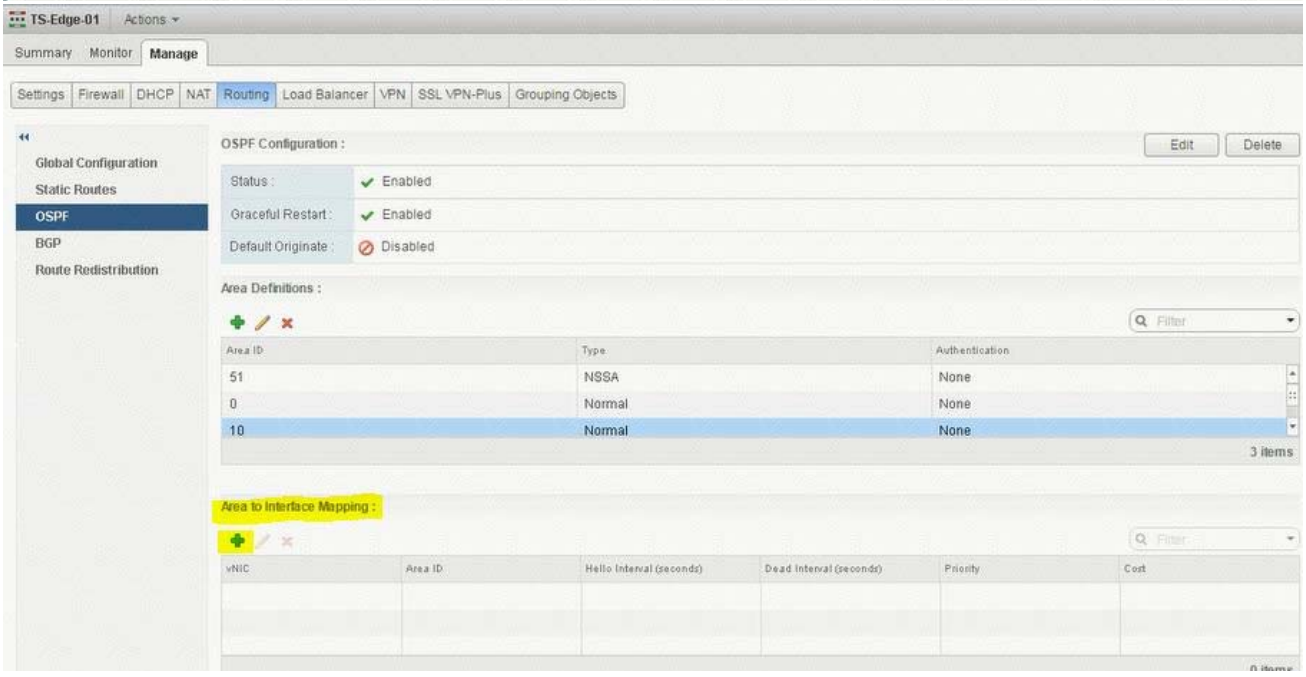

vmware vSphere Web Client
Navigator
Networking & Security
TS-Edge-01
Summary Monitor Manage
Settings Firewall DHCP NAT Routing Load Balancer VPN SSL VPN-Plus Grouping Objects
Global Configuration
Static Routes
OSPF
BGP
Route Redistribution
Changes to the Routing configuration will take effect only after being published. Please click on "Publish Changes" to publish.
Publish Changes Revert Changes
Routing Configuration :
ECMP : Disabled Enable
Default Gateway :
vNIC : uplink
Gateway IP : 192.168.100.1
MTU : 1500
Admin Distance : 1
Description :
Dynamic Routing Configuration :
Router ID : 192.168.100.202
OSPF : Disabled
BGP : Disabled
Logging : Enabled
Log Level : Info

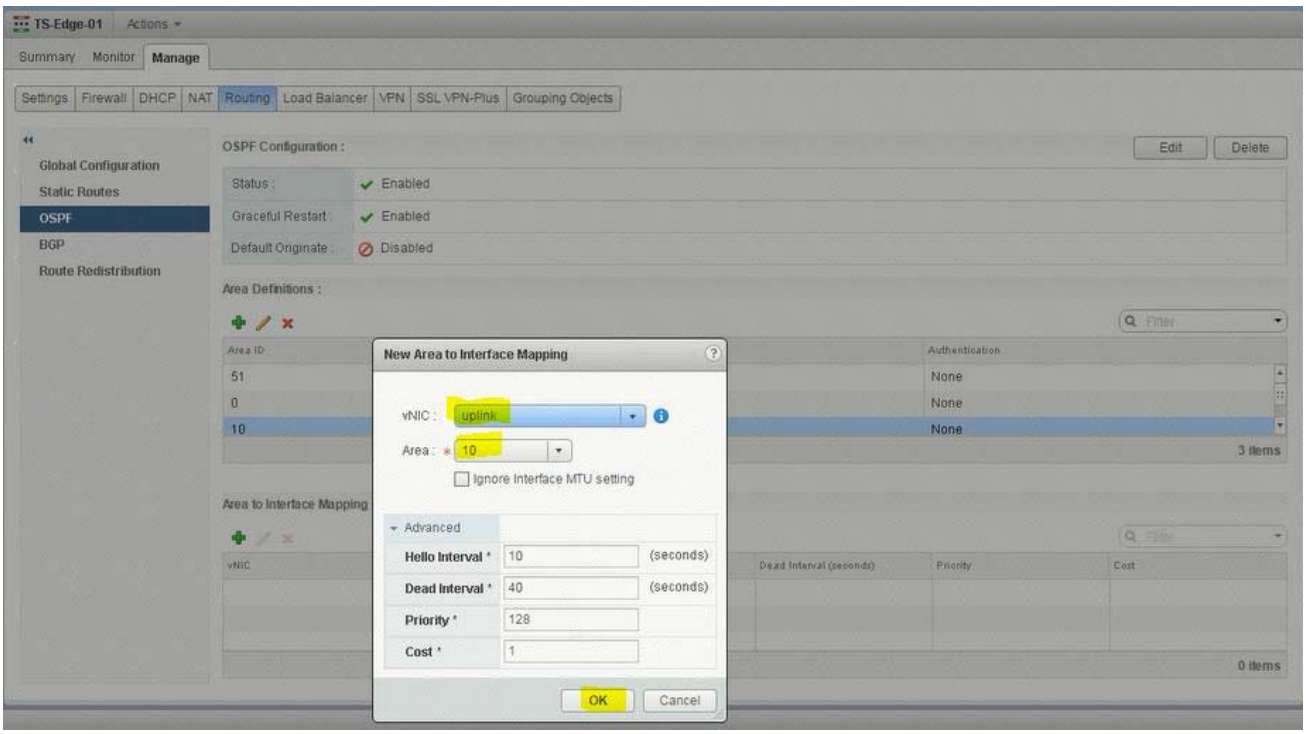

vmware vSphere Web Client
Navigator
Networking & Security
TS-Edge-01
Summary Monitor Manage
Settings Firewall DHCP NAT Routing Load Balancer VPN SSL VPN-Plus Grouping Objects
Global Configuration
Static Routes
OSPF
BGP
Route Redistribution
OSPF Configuration :
Status : Disabled
Graceful Restart : Enabled
Default Originate : Disabled
Area Definitions :
OSPF Configuration
Enable OSPF
Enable Graceful Restart
(Enables/Disables the capability to perform Non-Stop Forwarding of packets during restart of OSPF process)
Enable Default Originate
(Enables/Disables the capability to advertise a default route to its neighbors.)
OK Cancel
Area to Interface Mapping :

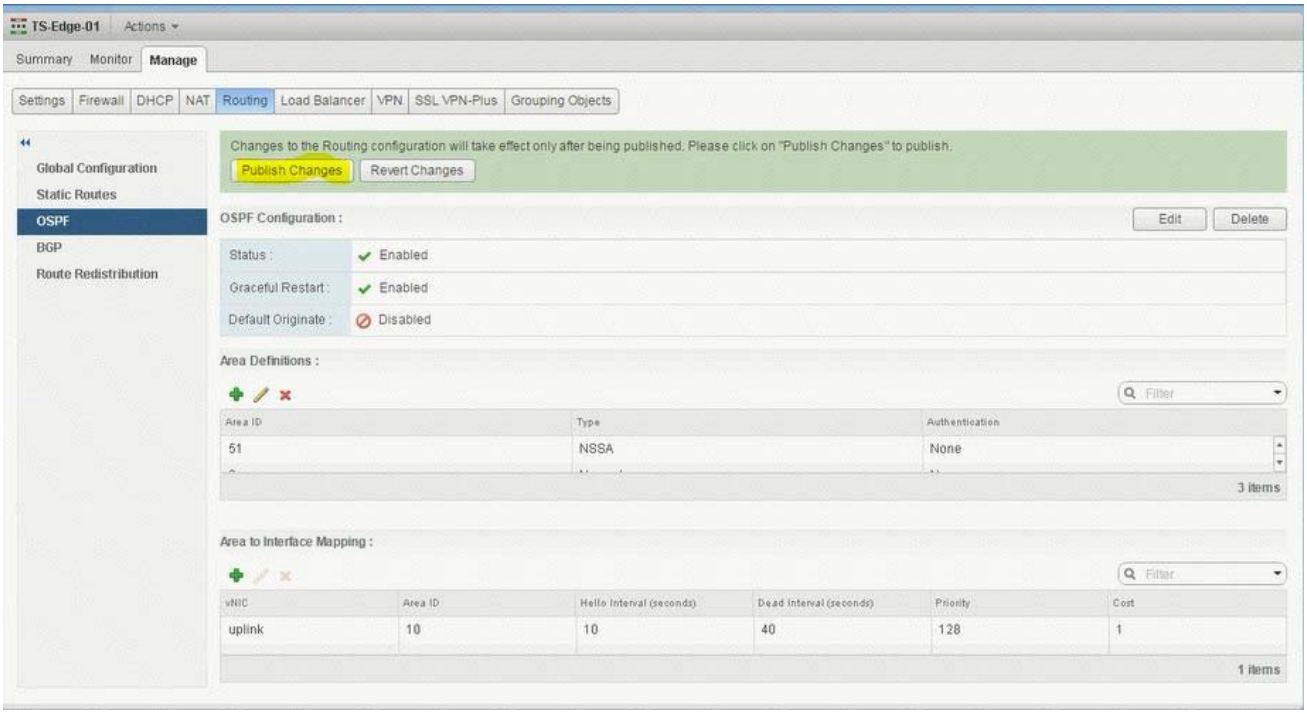

TS-Edge-01
Actions
Summary
Monitor
Manage
Settings
Firewall
DHCP
NAT
Routing
Load Balancer
VPN
SSL VPN-Plus
Grouping Objects
Global Configuration
Static Routes
OSPF
BGP
Route Redistribution
Changes to the Routing configuration will take effect only after being published. Please click on "Publish Changes" to publish.
Publish Changes
Revert Changes
OSPF Configuration :
Edit
Delete
Status :
Enabled
Graceful Restart :
Enabled
Default Originate :
Disabled
Area Definitions :
Filter
Area ID
Type
Authentication
10
NSSA
Password
3 items
Area to Interface Mapping :
vNIC
Area ID
Hello Interval (seconds)
Dead Interval (seconds)
Priority
Cost
0 items


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 :
Filter
Area ID
Authentication
51
None
0
None
10
Password
3 items
Edit Area Definition
Area ID :
10
Type :
Normal
Authentication :
None
Value :
OK
Cancel
Area to Interface Mapping :
vNIC
Dead Interval (seconds)
Priority
Cost

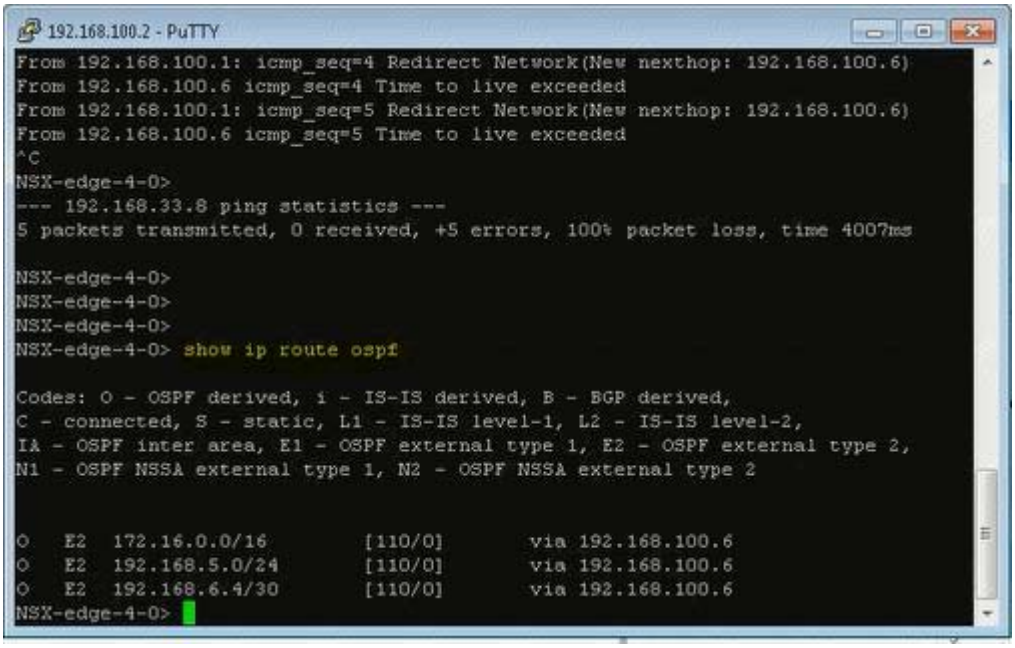

TS-Edge-01
Actions
Summary
Monitor
Manage
Settings
Firewall
DHCP
NAT
Routing
Load Balancer
VPN
SSL VPN-Plus
Grouping Objects
Global Configuration
Static Routes
OSPF
BGP
Route Redistribution
Publish Changes
Revert Changes
OSPF Configuration :
Edit
Status
Enabled
Graceful Restart :
Enabled
Default Originate :
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 :
Filter
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

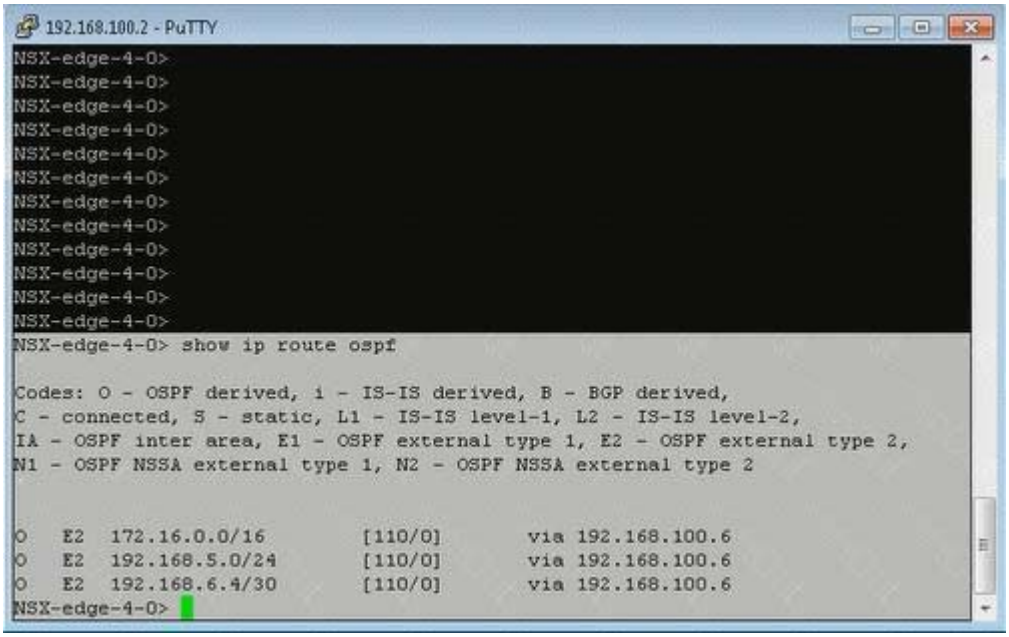


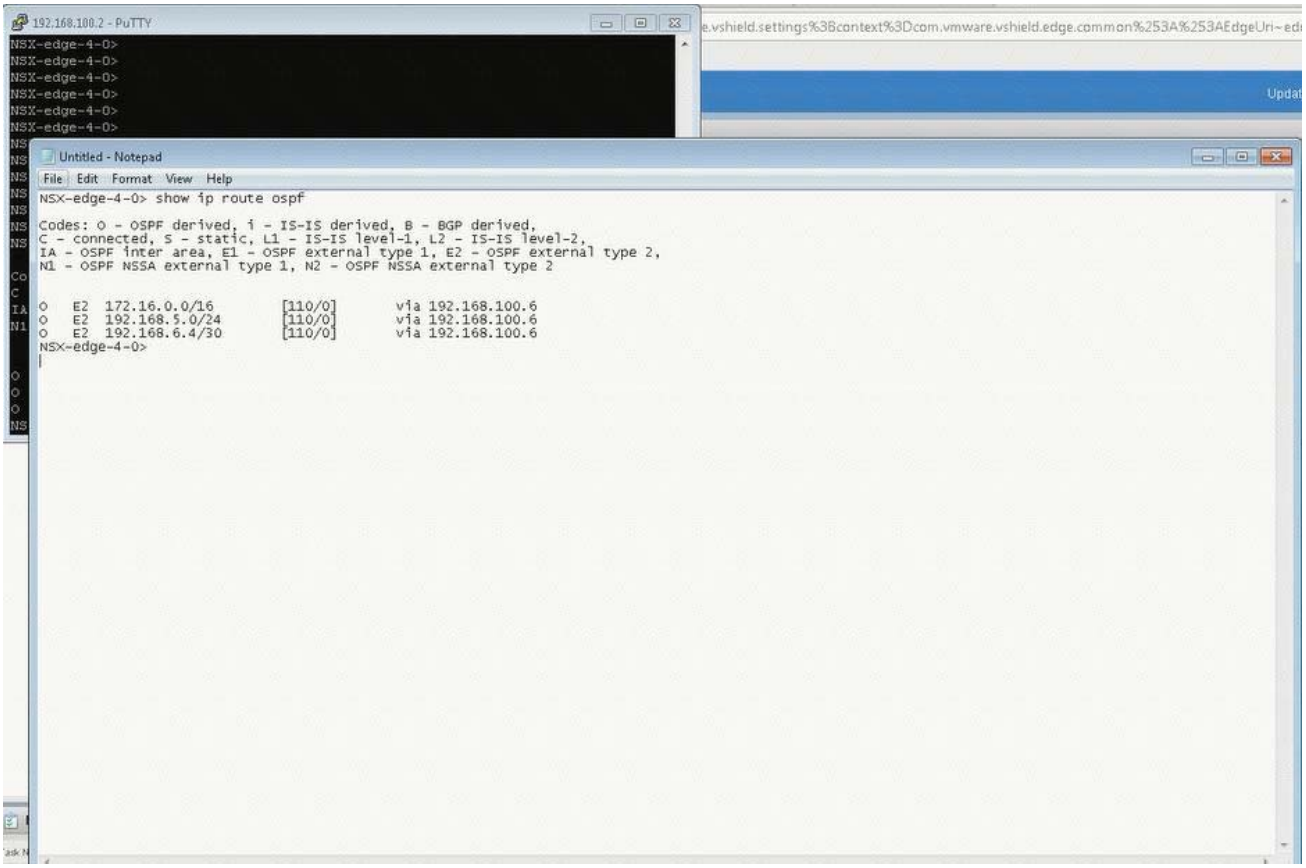


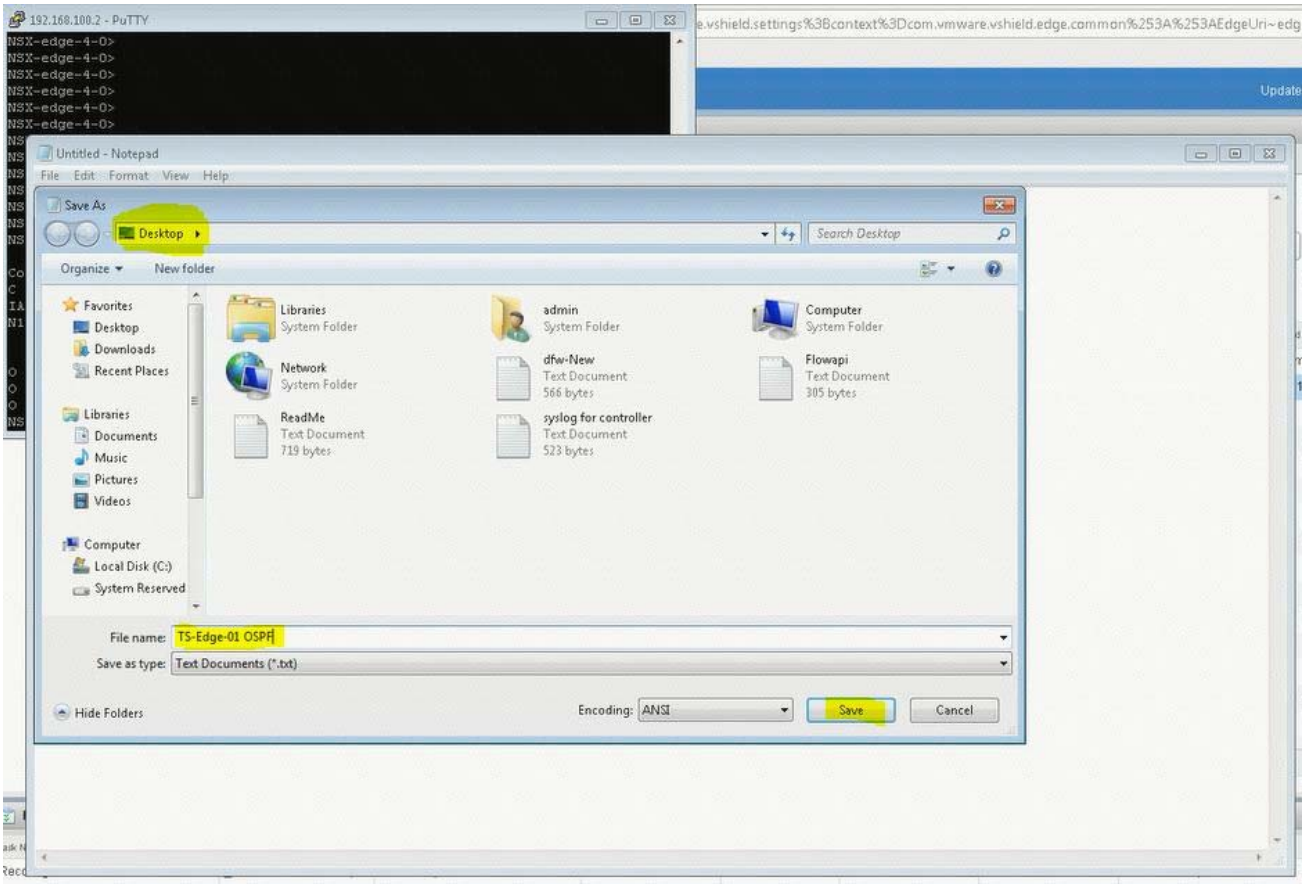
open putty. enter ip address 192.168.100.202.
enter command show ip route ospf. copy the ouput and save in a text file name TS-Edge-01.txt.



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>
Untitled - Notepad
File Edit Format View Help
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>


192.168.100.2 - PuTTY
NSX-edge-4-0>
Untitled - Notepad
File Edit Format View Help
Save As
Desktop
Search Desktop
Organize
New folder
Favorites
Desktop
Downloads
Recent Places
Libraries
Documents
Music
Pictures
Videos
Computer
Local Disk (C:)
System Reserved
Libraries
System Folder
admin
System Folder
Computer
System Folder
Network
System Folder
dfw-New
Text Document
566 bytes
Flowapi
Text Document
305 bytes
ReadMe
Text Document
719 bytes
syslog for controller
Text Document
523 bytes
File name: TS-Edge-01 OSPF
Save as type: Text Documents (*.txt)
Hide Folders
Encoding: ANSI
Save
Cancel