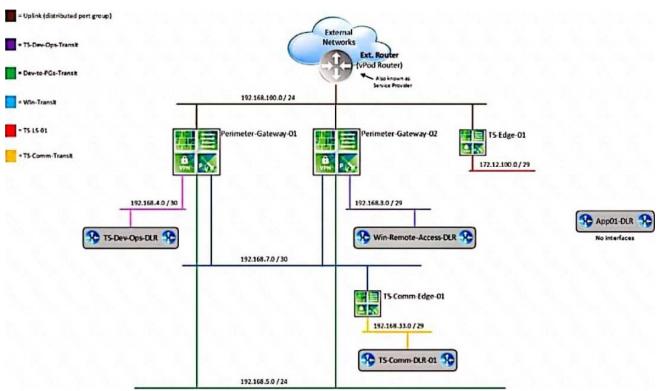


Exam : 3V0-643

Title:VMware Certified AdvancedProfessional 6 - NetworkVirtualization DeploymentExam

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.
21LAB - 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:

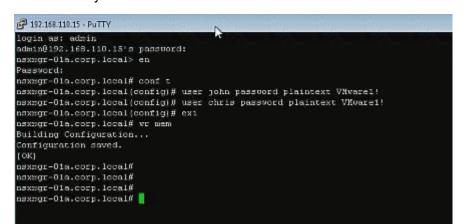
SOLUTION:

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.

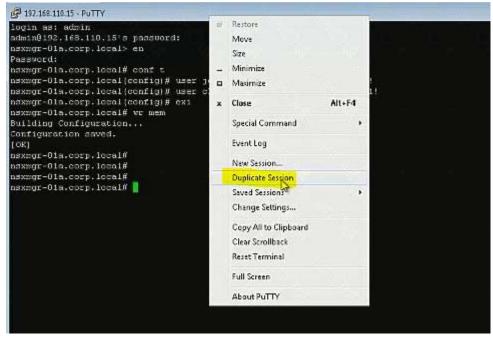
(2) select datacenter A. select manage tab. select permission. click + Sign. select Read Only from Assign Role. select All Privileges click on Add. select John and chris.checked Propagate to childern and click on OK.

(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.

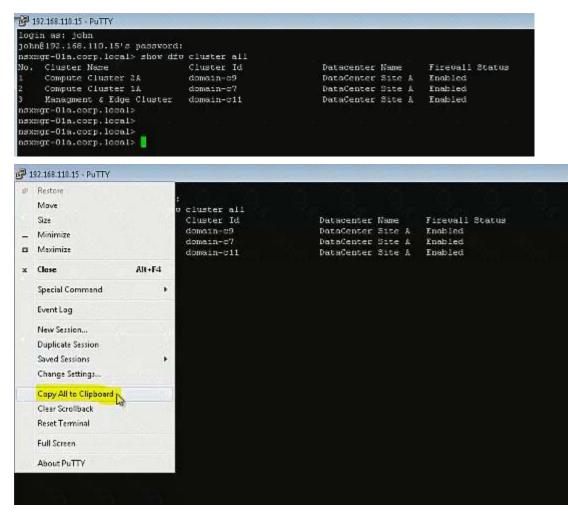
6 of 336 Enable VMware1! Conf t User john password plaintext VMware1! User chris password plaintext VMWare1! Exit Write memory



Open new Putty session or Duplicate Session:



john VMware1! Show dfw cluster all



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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:

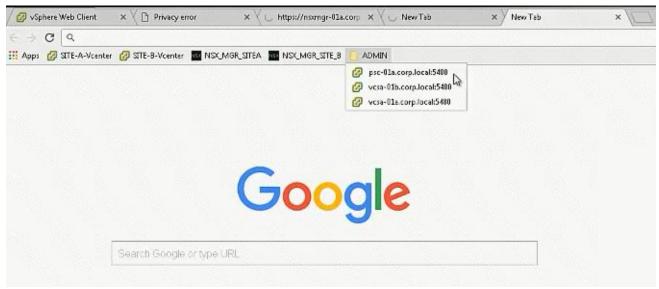
SOLUTION:

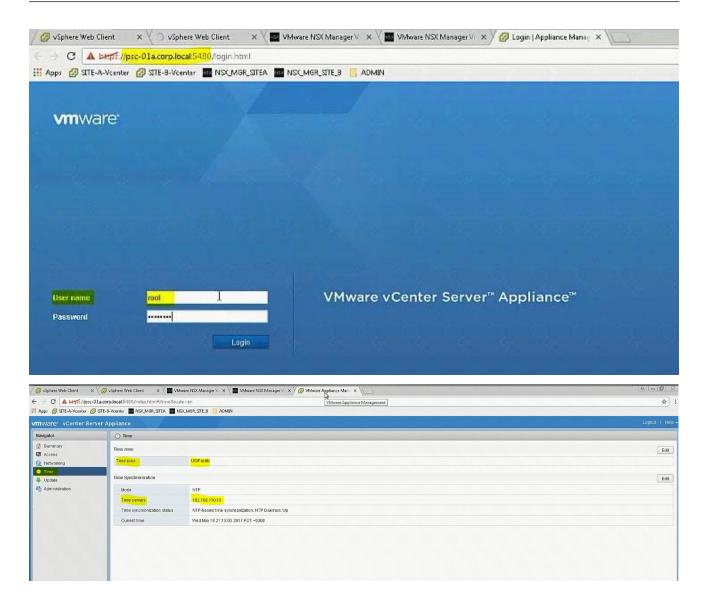
Step 1: Login to PSC using VAMI credentials and note down the time zone and server details and use the same in SiteB NSX Manager time settings.

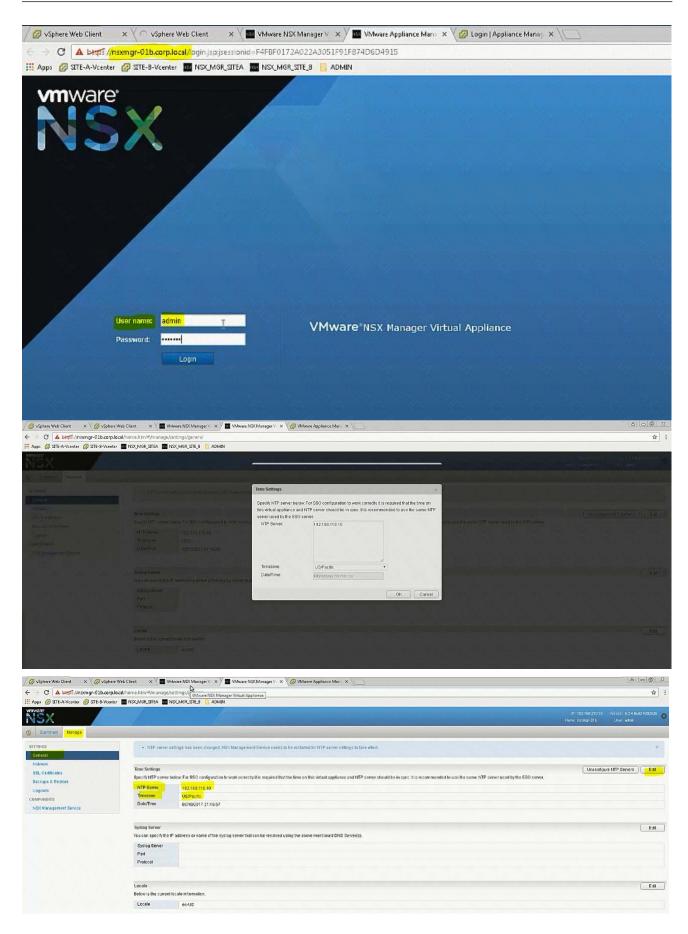
Step 2: Update the time settings, complete lookup service configuration, associate SiteB NSX manager to SiteB vCenter. Check the status from SiteA vCenter Webclient -> Networking & Security -> Installation -> Management.

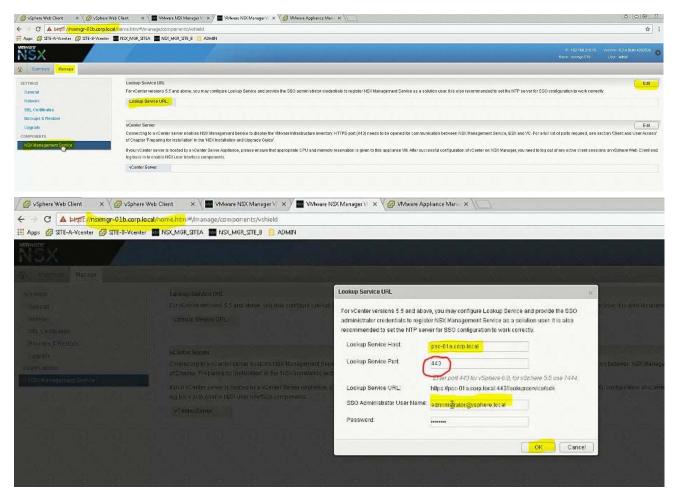
Step 3: Import the Distributed switch to Cluster B, add the hosts & assign the interfaces.

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).





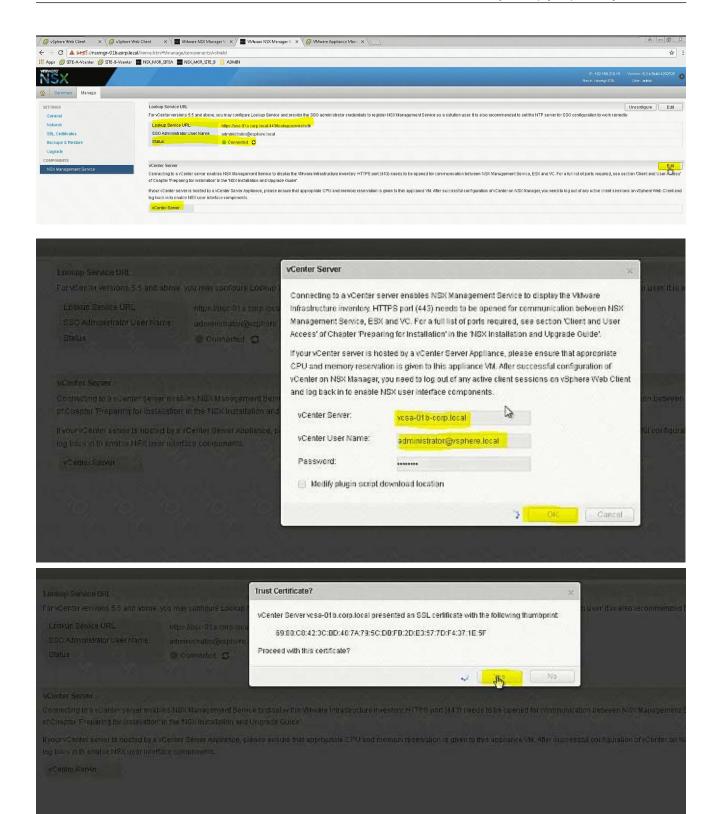




Important NOTE:

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

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| | 44 ED 2E 1A 31 38 FA E3 FE 03 2C 10 21 33 AE C3 15 D5 7F A2 | |
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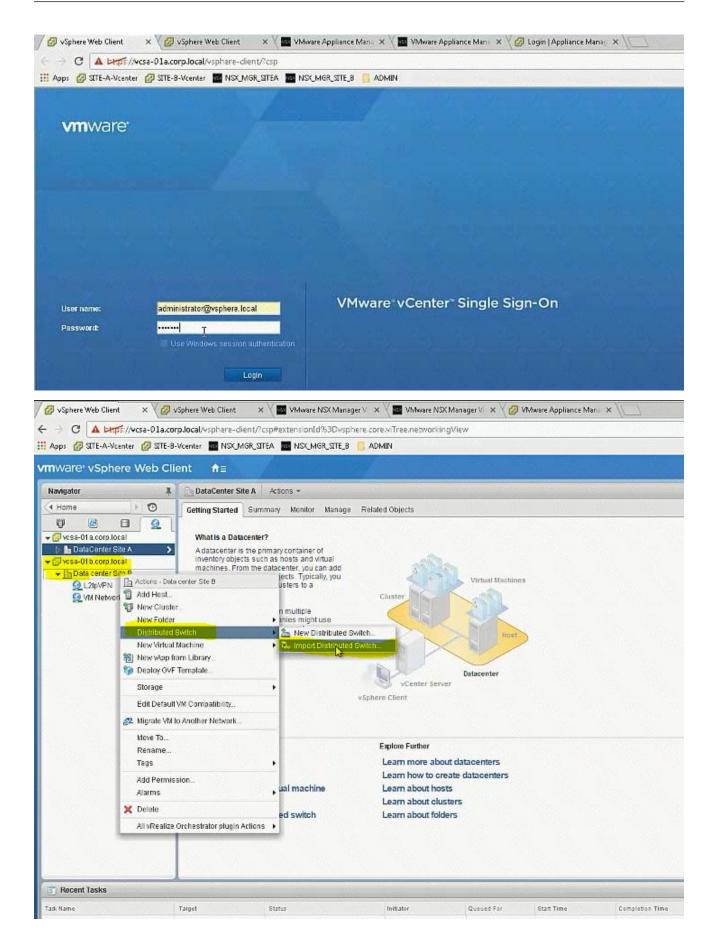
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| Network | Lookup Service URL: | https://jssc-01a.complia.catl.4450kopkoprenvicestotk | |
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| NSX Management Service | Connecting to a vCenter serv | r enables NSX Management Service to display the VMArare Infrastructure inventory HTTPS port (443) needs to be opened for communication between NSX Management Service, ESX and VC. For a full list of ports re alation in the NSX Manalalation and Opprace Outley. | quired, see section 'Client and User Access' |
| | If your vCenter server is host leg back in to enable NSX us | d by a VCenter Dever Appliance, please ensure that appropriate CPU and memory reservation is given to this appliance Vit. After successful configuration of vCenter on NDX Manager, you need to log out of any activity introface components. | e client sessions on vSphere Web Client and |
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| | vCenter User Name: | cministrator@vsphere.local | |
| | Status | 🖟 Connected - Last successful inventory update was unknown 😋 | |

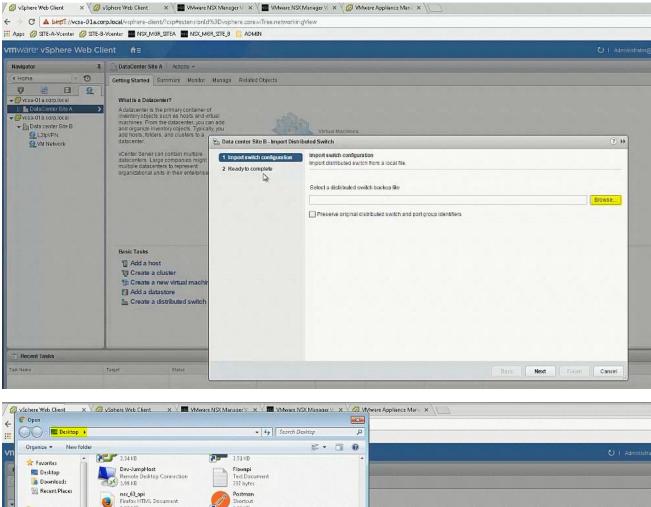
Click refresh if in case it shows as disconnected.

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

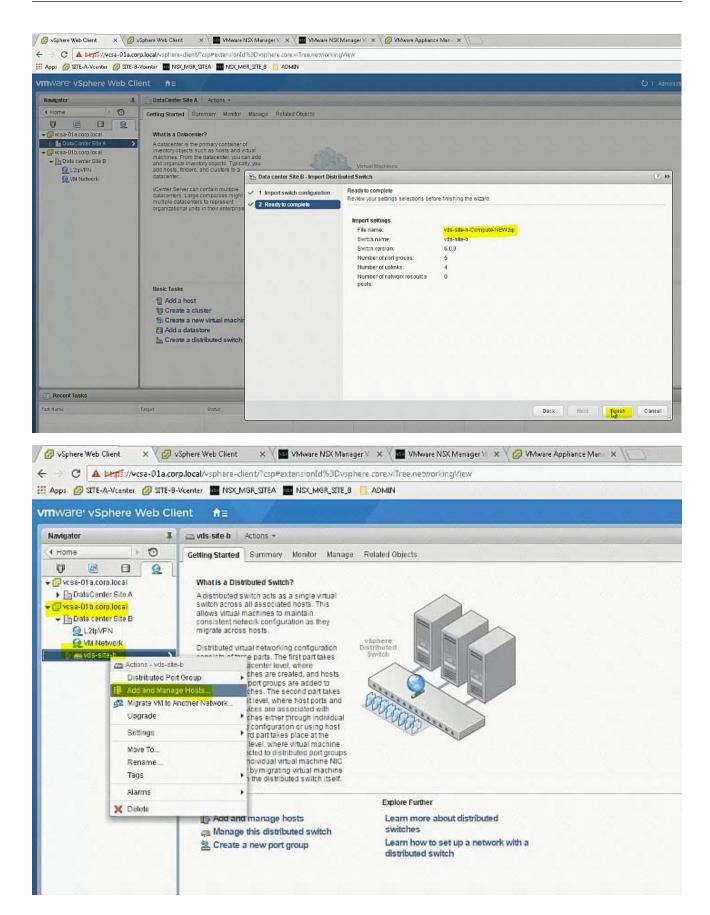


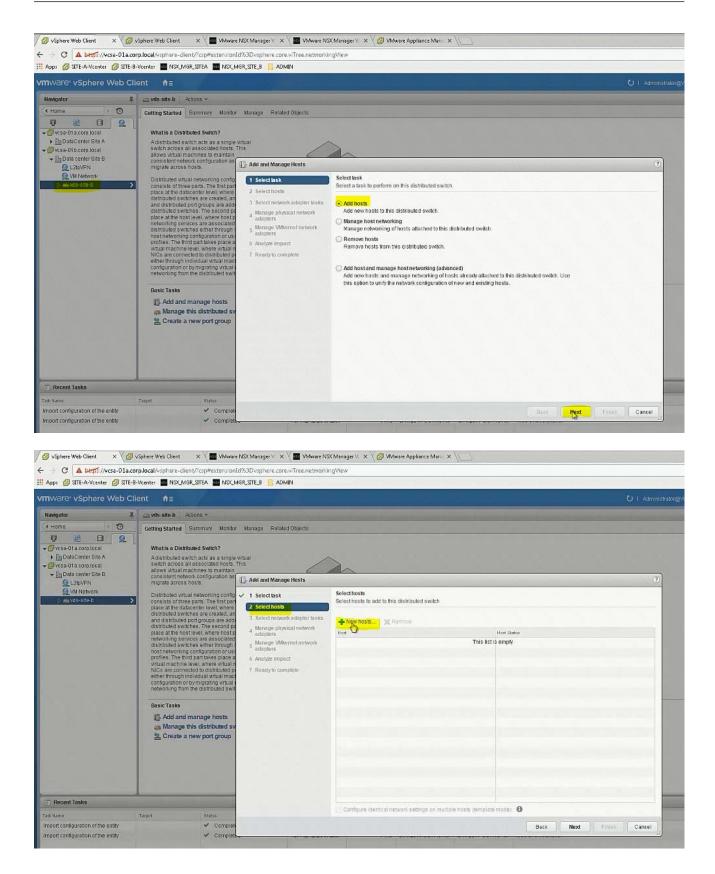
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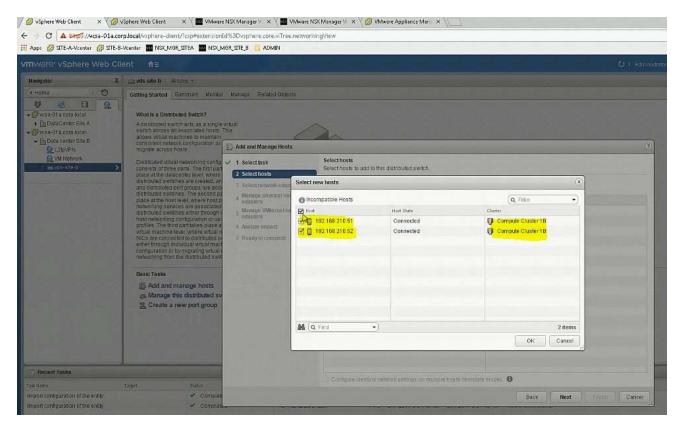




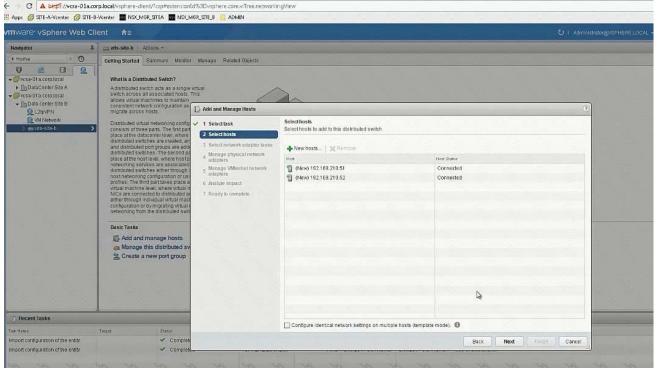
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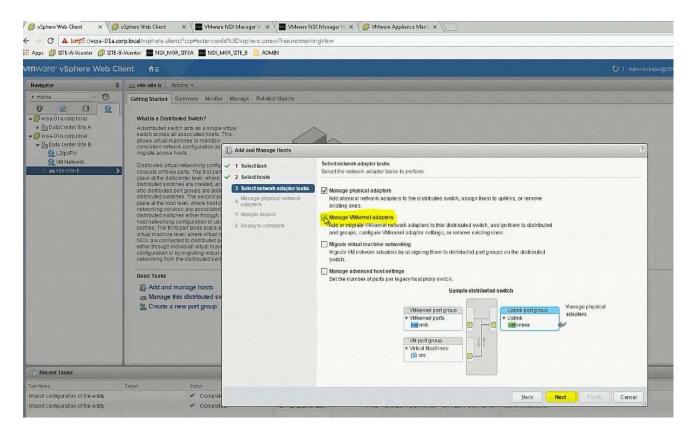






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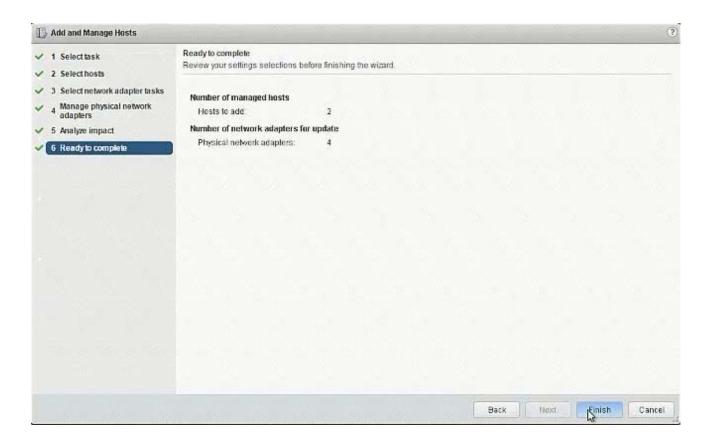
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₩ Getting Started Summary Monitor Manage Related Objects What is a Distributed Switch? DataCenter Site A
 Vosa-01 b.corp.local A distributed switch acts as a single virtual switch across all associated hosts. This allows virtual machines to maintain consistent network configuration as migrate across hosts. -0 6 - In Data center Site B []: Add and Manage Hosts Q L2IpVPN Q VM Network Distributed virtual networking confi consists of hree parts. The first pa place at the datacenter level, where distributed awrithes are created, a and distributed awrithes are second distributed awrithes. The second place at the host level, where host networking services are associate distributed swithes differ finouph most networking confluention or un Manage physical network adapters Add or remove physical network adapters to this distributed switch. ✓ 1 Selecttask ✓ 2 Selecthosts 3 Select network adapter tasks The Action Optime un Reset changes (Chieve settings Rod/Physical Network Adapters 1 & In Use by Switch 4 Manage physical network adapters Uplink Port Group Uplick - 192 168 210 51 5 Analyze impact distributed switches either through host networking configuration or u profiles. The third part takes place virtual machine level, where virtual NICs are connected to distributed either through individual virtual ma-configuration or by migrating virtua networking from the distributed sw On this switch 6 Ready to complete On other switches/unclaimed 📻 smaic0 🕞 <table-cell> vSwitch0 - 192.160.210.52 On this switch Basic Tasks + On other switches/unclaimed Add and manage hosts wmnic0 vSwitch0 Manage this distributed st 👼 vmnict 🗑 Recent Tasks Etatus Import configuration of the entity ✓ Comple Back Next Finish Cancel Compl Import configuration of the entity

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| 5 Analym impact | - 192 168 210 51 | | | |
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| 🖟 Adul and Manage Hosts | | | | |
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| 1 Selecttask | Manage physical network adapters | | | |
| 2 Select hosts | Add or remove physical network adap | ters to this distributed switch. | | |
| 3 Select network adapter tasks | and the second second second | and the second | | |
| 4 Manage physical network | 🖬 Assign uplink 🖃 Reset change | the second s | | |
| ⁴ adapters | HoshPhysical Network Adapters | 1 A In Use by Switch | Uplink | Uplink Port Group |
| 5 Analyze impact | - 192 168 210 51 | | | |
| 6 Ready to complete | ✓ On this switch | | | |
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| 1 Selectask | Analyze impact Review the impact this configuration | change might have on some netw | ork dependent services | |
| 2 Select hosts | | | | |
| 3 Select network adapter tasks | Overall impact status: 🥥 No impa | ct | | |
| 4 Manage physical network adapters | Host / Impact Analysis per Service | 1 a St | atus | |
| 5 Analyze impact | - 192.168.210.51 | | | |
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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

| Navigator | Ŧ | 192.168.210.15 Actions + | | |
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| | Sec. 35. | vsphere.locafiadministrator | vCenter | Enterprise Administrator |
| | | admin | NSX CLI User | System Administrator |

administrator@corp.local

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| | | And I see the second second second | Assign Role | | | ? >> |
| | | | 1 Identity User | Identify User | | |
| | | | 2 Select Roles | Select a vCenter user or g | proup to assign role. | |
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| | | Assign Role | | | (?) |
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| | | ✓ 2 Select Roles | Select NSX role for u | set. | |
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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)

| Getting Started S Settings Alarm Do Post ID 0 | ummary Monitor Manaj efinitions Tags Permissi Name | - | Profile Ports | | | |
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| 2 | | 192.168.110.57 | 00:50:55:a3:97:a5 | vds-mgml-a_Man | - | |
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| M | | | | | | |
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| Navigator J | 🔮 vds-mgmt-a_Managment network 🛛 Actions 👻 | |
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vmware vSphere Web Client _ ♠≡

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| Add Permission | | | 10 - XX | - | vds-mgmt-a_Man | + 3 | ÷. | VL. | | |
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| 🙎 www-dvs-36-virtualwire-16-sid-5014-App01 | Port ID: 6 | | | | | | 1 | | | |

| Navigator | 🖡 🛛 🔮 vds-mgmt-a_N | fanagment network Ad | tions - | | | | | |
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| Navigator | 🚢 vds-mgmt-a_Managm | nent network Acto | 15.* | | | | |
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| Navigator | Ŧ | Firewall | rewall | | | | | | | |
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| 🔯 Installation | | General E | themet Partner security serv | ices | | | | | | |
| Logical Switches NSX Edges | 1000 - 10 g | + 🛛 × 🗉 | * == 19 🖬 😵 🖤 | | | | | | | |
| 19 Firewall | | No. | Name | Rule ID | Source | Destination | | | | |
| R SpootGuard | | V 🔁 DB security-NEW (Rule 1 - 2) | | | | | | | | |
| Service Definitions Service Composer | 2 CONSTRUCTION 1 | €1 AI | low-App-DB | 1607 | Dev-App-Tier-01-NEW | Dev-DB-Tier-D1-NEW | MySQL | | | |
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| Rev Monitoring | T. T. | v 🖪 Web Policy NEW :: NSX Service Composer - Firewall (Rule 3) | | | | | | | | |
| C Activity Monitoring | | €3 de | ny-hilip-hilips | 1009 | Secure App-NEW | Secure-Web-NEW | | | | |
| Networking & Security Inventory NSX Managers | > | ► 🔁 Def | ault Section Layer3 (Rule 4 - 0) | | | | | | | |

| Navigator | T | Firewall | | | | | | | |
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| R SpoofGuard | | * 四 | DB security-NEW (Rule 1 - 2) | | | | | | |
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| Service Composer | | | | | | | 1000 N | | |
| 🚯 Data Security | | 02 | Deny-Any-DB | 1008 | | * any | Dev-DB-Tier-01-NE | | |
| + Tools | | - Contractor | | | - | | | | |
| Rev Monitoring | | • 13 | Web Policy NEW :: NSX Service Com | (poser - Hrewall (Rule | Export col | nfiguration | (?) | | |
| Activity Monitoring | | ◎ 3 | deny-http-https | 1009 | Current fire | ewall configuration has been export | ed successfully | | |
| Ca Traceflow | | - | | | | ownload to save the configuration | | | |
| Networking & Security Inventory | | - 5 | Default Section Layer3 (Rule 4 - 0) | | | La | | | |
| 1 NSX Managers | > | | | | 1000 | | - | | |
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| 🔣 NSX Edges | | |
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| 🔛 NSX Managers | > | | | | | |
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| Organize - New fold | | | 作• 💷 | 0 | , ta, ta, ta, | Updated at 4.0- | AM CO I Admin |
| Favorites | NSX 63API GUIDE Firefox HTML Document 1.02 M8 Postman | 106 bytes nxfw-backup-NEW XML Document 6.76 KB putty SSH, Telnet and Blogin client | | | | | |
| 😭 Libraries 🛛 🗉 | Shortcut 2.09 KB | Simon Tatham | | | | | |
| Documents Music | ReadMe Text Document 700 bytes | 5 sec-policy.blueprint BLUEPRINT For LSE KD | | | Syne Status | Applied to | Guest Introspen |
| E Pictures | syslog for controller Test Document 545 bytes | vdsPortGroup-backup-New Compressed (zipped) Folder | | E | | | (?) H |
| 🛒 Computer | 345 bytes | | | | uration to be imported | | |
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| Networking & Security NSX Home S Dashboard | a sugar | ger: 192.168.110.15 💌 | | | | |
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| I Home | Security | Groups Security Policies Canvas | | | | | | |
| etworking & Security NSX Home | NSX Mana | ger. (192.168.110.15 (*) | | | | | | |
| Dashboard | | 🕼 💷 📸 🧔 Actions 🗸 | | | | | | |
| linstallation | Rank | Name | Description | | ne Status | | Applied to | |
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| NSX Edges | 10 million (10 mil | 10 Import Configuration | | | | | | (?) |
| Firewall | 2 | 1 Select configuration file | | | | | 8 | |
| SpoolGuard | | 2 Ready to complete | Name: sec-policy | | | | | |
| Service Definitions | 1000 | Z Ready to complete | Description: | | | | | |
| Service Composer | | | Suffix None | | | | | |
| Data Security | | | | | | | | |
| Tools | | | Security Policies: | | | | | |
| Elow Monitoring | | | Name | Description | Applied to | Guest Introspect. | Firewall Rules | Network Introspe |
| Activity Monitoring | | | Security Policy 1 | | 0 | 0 | 1 | 0 |
| 23 Tracetlow | 120 H | | | | | | | |
| Networking & Security Inventory | 8.00 | | | | | | | |
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| Navigator | I I | Service Composer | | | | | | |
|---|----------------|------------------------------|------------------------|-------------|--|--------------|--|--|
| (• Home | × 🔊 | Security Groups Sec | curity Policies Canvas | | | | | |
| Networking & Security | | NSX Manager: 192168 110.15 - | | | | | | |
| installation | | Rank Name | | Description | | Syne Status | | |
| (2) Logical Switches | | 1 J Securit | y Policy 1 | | | Successful | | |
| NSX Edges Firewall SpoolGuard Service Definitions | | 2 🗗 Web-P | olicy-NEW | | | V Successful | | |
| 🔄 Service Composer | <u>n n n n</u> | | | | | | | |
| 👰 Data Security | | | | | | | | |
| + Tools | 2014 (Sec. | | | | | | | |
| Elow Monitoring | | | | | | | | |

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:

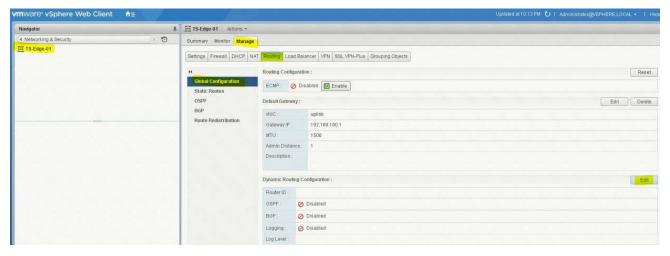
SOLUTION:

(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.

| Navigator | I | NSX Edges | | | | | |
|---|------|--------------------------------|----------------------|---------------------------|-------------------------|----------|--------------|
| 4 Home |) (D | NSX Manager: 192.168.110.15 (R | ole: Primary) 🛛 🔻 | | | | |
| Networking & Security | | + × 3 % 8 0 0 | Actions + | < | 0 Installing 🐠 0 Failed | | 📡 (Q. Filter |
| MSX Home | | 1d 1. | Name | Type | Version | Status | Tenant |
| 😪 Dashboard | | edge-1 | Perimeter-Gateway-01 | NSX Edge | 6.2.4 | Deployed | Default |
| 🙀 Installation | | edge-2 | Perimeter-Gateway-02 | NSX Edge | 6.2.4 | Deployed | Default |
| in Logical Switches | N | edge-3 | App01-DLR | Logical Router | 6.2.4 | Deployed | Default |
| NSX Edges | | edge-4 | TS-Edge-01 | NSX Edge | 6.2.4 | Deployed | Default |
| 👸 Firewall | | edge-5 | TS-Dev-Ops-DLR | Logical Router | 6.2.4 | Deployed | Default |
| 🐴 SpoofGuard | | edge-6 | TS-Comm-Edge-01 | NSX Edge | 6.2.4 | Deployed | Default |
| 🖏 Service Definitions | | edge-8 | TS-Comm-DLR-01 | Logical Router | 6.2.4 | Deployed | Default |
| 📶 Service Composer | | edge-9 | Dev-Edge | NSX Edge | 6.2.4 | Deployed | Default |
| 🚯 Data Security | | edge-10 | Dev-DLR-NEW | Logical Router | 6.2.4 | Deployed | Default |
| | | edge-8d31fa7a-aaae-4859-a67f | U-DLR-NEW | Universal Distributed Rou | uter 6.2.4 | Deployed | Default |
| Riow Monitoring | | | | | | | |
| Activity Monitoring | | | | | | | |
| taceflow | | | | | | | |
| Networking & Security Inventory | | | | | | | |



| Navigator | Ŧ | TS-Edge-01 Actions + | | |
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| Networking & Security | 1 | Summary Monitor Manage | | |
| TS.Edge-01 | | Settings Firewall DHCP NAT Routing L | ad Balancer VPN SSL VPN-Plus Grouping Objects | |
| | | 44 Routing Cor | diguration : | Reset |
| | | Global Configuration ECMP : Static Routes | O Disabled Enable | |
| | | OSPF Default Gale | way: | Edit Delete |
| | | BGP VNIC : | uplink | |
| | | Gateway If | 2: 192.168.100.1 | |
| | | MTU : | 1500 | |
| | | Admin Dis | lance: 1 | |
| | | Description | Edit Dynamic Routing Configuration | |
| | | Dynamic Ro | Router ID + Add custom ID + 192.166 100.202 | Edit |
| | | Router ID | Log Level : Info + | |
| The second second second | | OSPF : | | |
| | | BGP: | OK Cancel | |
| | | Logging : | A Disabled | |
| | | Logiousi | | |

| mware [,] vSphere Web Clien Navigator | t m≜≣ T | TS-Edge-01 Actions + | | Updaked at 10:13 PM 😈 I Administrator@VSPHERELOCAL + I |
|---|-----------------------|------------------------------|-------------------|--|
| Networking & Security | 10 | | | |
| TS-Edge-01 | | Summary Monitor Manage | | |
| | | Settings Firewall DHCP NAT R | outing Load | Balancer VPN SSLVPN-Plus Grouping Objects |
| | | | | e Routing configuration will take effect only after being published. Please click on "Publish Changes" to publish. |
| | | Global Configuration | Publish Cha | Revert Changes |
| | Static Routes OSPF | outing Configu | uration : Res | |
| | | ECMP: Ø | Disabled 🔟 Enable | |
| | | Route Redistribution | efault Gatewa | y: Edit, Dele |
| | | Carl Star Star 1 | NIC : | uplink |
| | | | Gateway IP : | 192.168.100.1 |
| | | | MTU : | 1500 |
| | | | Admin Distan | ce: 1 |
| | | ſ | Description : | |
| | | Dj | ynamic Routin | ig Configuration : |
| | | | Router ID : | 192.168.100.202 |
| | | | OSPF : | Ø Disabled |
| | | | BGP : | Ø Disabled |
| | | | Logging : | ✓ Enabled |
| | | 1 | Log Level : | Info |

| Navigator | # IS-Edge-81 Actions + | | | | | | |
|-----------------------|---------------------------------------|-----------------------------|--|-------------------------|----------------|----------|-----------|
| Networking & Security | Summary Monitor Manag | e | | | | | |
| TS-Edge-01 | Settings Firewall DHCP N | NAT Routing Load Balancer | VPN SSL VPN-Plus Grouping Objects | | | | |
| | 44 Global Configuration | OSPF Configuration : | | | | Edit | Delete |
| | Static Routes | Status : 🧿 | Disabled | | | | |
| | OSPF | Graceful Restart : 🗸 | Enabled | | | | |
| | BGP | Default Originate : Ø | Disabled | | | | |
| | Route Redistribution | Area Definitions : | | | | | |
| | | ♦ / × | OSPF Configuration | | | Q Filter | |
| | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | Alea ID | | | Authentication | | |
| | | 51 | Enable OSPF Enable Graceful Restart | | None | | • |
| | | 0 | (Enables/Disables the capability to perform | | None | | |
| | | 10 | Non-Stop Forwarding of packets during | | Password | | * 3 items |
| | | | restart of OSPF process) | | | | 5 1021115 |
| | | Area to Interface Mapping : | Enable Default Orginate (Enables/Disables the capability to advertise | | | | |
| | 10. Sec. 20. | • / × | e default route to its neighbors.) | | | | - |
| | | VNIC | OK Cancel | Dead Internal (seconds) | Priority | Cost | |
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| | and the second | | | | | | |
| | | | | | | | 0 items |

| Summary Monitor Manage | 1 | | | - AV | N | | - N., |
|---------------------------------------|--|---|--------------------------------------|---------------------------------|--------------------------|------------|---------|
| Settings Firewall DHCP NAT | T Routing Load Bala | ancer VPN SSL VPN-Plus Gro | ouping Objects | | | | |
| 44 | Changes to the Ro | uting configuration will take effect | t only after being published. Please | e click on "Publish Changes" to | publish. | | |
| Global Configuration | Publish Changes | s Revert Changes | | | | | |
| Static Routes OSPF | OSPF Configuration | | | | | Edit | Delete |
| BGP | A CONTRACTOR OF A CONTRACTOR OFTA CONTRACTOR O | | | | | Lun | Delete |
| Route Redistribution | Status : | ✓ Enabled | | | | | |
| | Graceful Restart : | ✓ Enabled | | | | | |
| | Default Originate : | Ø Disabled | | | | | |
| | Area Definitions : | | | | | | |
| | 💠 🥖 🗙 | | | | | Q Filter | • |
| | Area ID | | Туре | | Authentication | | |
| | 10 | | NSSA | | Password | | * |
| | | | | | | | 3 items |
| | | | | | | | |
| | Area to Interface Map | iping : | | | | | |
| | + / × | | | | | (Q, Filter | * |
| | VNIC | Area ID | Hello Interval (seconds) | Dead Interval (seconds) | Priority | Cost | |
| | | | | | | | |
| Settings Firewall DHCP N | AT Routing Load Ba | lancer VPN SSL VPN-Plus | Grouping Objects | | | | |
| | OSPF Contiguratio | 0: | | | | | |
| Global Configuration Static Routes | | | | | | Edit | Dele |
| | Status : | ✓ Enabled | | | | Edit | Dele |
| OSPF | Status : Graceful Restart : | ✓ Enabled | | | | Edit | Dele |
| OSPF BGP | and the second s | ✓ Enabled✓ Enabled | | | | Edit | Dele |
| | Graceful Restart | ✓ Enabled✓ Enabled | | | | Edit | Dele |
| BGP | Graceful Restart : Default Originate Area Definitions : | ✓ Enabled✓ Enabled | | | | | Dele |
| BGP | Oraceful Restart Default Originate Area Definitions : | ✓ Enabled ✓ Enabled ⊘ Disabled | 2 | | | Q. Filter | Dele |
| BGP | Graceful Restart : Default Originate Area Definitions : | ✓ Enabled✓ Enabled | . (?) | | Authentication | | Dele |
| BGP | Oraceful Restart Default Originate Area Definitions : | Enabled Enabled Olisabled Edit Area Definition | 2 | | | | Dete |
| BGP | Graceful Restart Default Originate Area Definitions : | Enabled Enabled Olisabled Edit Area Definition | | | None | | |
| BGP | Graceful Restart Default Originate Area Definitions : | ✓ Enabled ✓ Enabled Ø Disabled Edit Area Definition Area ID : | * 10 | | None None | | |
| BGP | Graceful Restart Default Originate Area Definitions : | ✓ Enabled ✓ Enabled ⊘ Disabled ✓ Edit Area Definition Area ID : Type : Authentication : Value | • 10 Normal | | None None | |) Detet |
| BGP | Graceful Restart Default Originate Area Definitions : | ✓ Enabled ✓ Enabled ⊘ Disabled ✓ Edit Area Definition Area ID : Type : Authentication : Value | • 10 Normal | | None None | Q. Fitter | |
| BGP | Graceful Restart . Default Originate Area Definitions : | ✓ Enabled ✓ Enabled ⊘ Disabled ✓ Edit Area Definition Area ID : Type : Authentication : Value | • 10 Normal | | None None Password | Q. Fitter | |
| BGP | Graceful Restart Default Originate Area Definitions : | ✓ Enabled ✓ Enabled ⊘ Disabled ✓ Edit Area Definition Area ID : Type : Authentication : Value | Normal + | Dead Interval (peconds) | None None | Q. Fitter | |

| Settings Firewall DHC | P NAT Routing Load Ba | alancer VPN SSL VPN-P | lus Grouping Objects | | | | |
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| | | | | | | | |
| Global Configuration | | | | | | | |
| Static Routes | - Compile and | The second se | | | | | |
| OSPF | OSPF Configurate | | | | | | |
| BGP | Status | Enabled | | | | | |
| Route Redistribution | | | | | | | |
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| | Area Definitions : | | | | | | |
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| mmary Monitor Manag | the Free Contraction of the Fr | | | idi) Deset Internasi (| entiti Fren | Edit | Dele |
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| ettings Firewall DHCP Global Configuration Static Routes OSPF BGP | ge NAT Routing Load Balance OSPF Configuration : Status : Graceful Restart : Default Originate : Area Definitions : Area ID 51 0 10 | er VPN SSL VPN-Plus G Enabled Disabled Disabled | Truping Objects Type NSSA Normal | | Authentication None None | | |
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| Summary Monitor Manage | | | | | | |
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| Settings Firewall DHCP NAT | Routing Load Balar | ncer VPN SSL VPN-Plus | Grouping Objects | | | |
| 44 Global Configuration | OSPF Configuration : | | | | | Edit Delete |
| Static Routes | Status : | ✓ Enabled | | | | |
| OSPF | Graceful Restart | ✓ Enabled | | | | |
| BGP | Default Originate : | Ø Disabled | | | | |
| Route Redistribution | b church chighters : | V DIDDDIG | | | | |
| | Area Definitions : | | | | | |
| | + / × | | | | | Q Finter |
| | Area ID | New Area to Interface | Mapping (?) | | Authentication | |
| | 51 | | | | None | |
| | 0 | | • 0 | | None | |
| | 10 | Area : * 10 | | | None | 3 item |
| | | (1) (1) (2) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1 | Interface MTU setting | | | J NOTI |
| | Area to Interface Map | 11110-012-02-02 | inenace wird second | | | |
| | | - Advanced | | | | Q FIME |
| | VNIC | Hello Interval * 1 | 0 (seconds) | Dead Interval (seconds) | Priority | Cost |
| | vinc. | Dead Interval * 4 | 0 (seconds) | Dana manyai (tebonca) | Proping | 1.01 |
| | | | 28 | | | |
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| Settings Firewall DHCP NAT | 10 M | | | | | |
| | Routing Load Balan | icer VPN SSL VPN-Plus | Srouping Objects | | | |
| 44 Global Configuration Static Routes | | ting configuration will take eff | Grouping Objects | click on "Publish Changes" to | publish, | |
| | Changes to the Rou | ting configuration will take eff | | click on "Publish Changes" to | publish. | Edit Delete |
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| Global Configuration Static Routes OSPE BGP | Changes to the Rou Publish Changes OSPF Configuration : Status : Oraceful Restart : Default Originate : Area Definitions : | Ing configuration will take eff Revert Changes Enabled Enabled Disabled | ect only after being published. Please Type NSSA | | Authentisation None ** | (Q. Filter 3 item (Q. Filter |

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.

| P 192.168.100.2 - PuTTY | | | | | | × |
|----------------------------------|---------------|-------------|------------|-----------|---------|-----|
| From 192.168.100.1: icmp_s | eq=4 Redirect | Network (Ne | w nexthop: | 192.168 | .100.6) | - |
| From 192.168.100.6 icmp_se | q=4 Time to 1 | ive exceede | d | | | |
| From 192.168.100.1: icmp_s | eq=5 Redirect | Network(Ne | w nexthop: | 192.168 | .100.6) | 124 |
| From 192.168.100.6 icmp_se ^C | q=5 Time to 1 | ive exceede | d | | | 12 |
| NSX-edge-4-0> | | | | | | |
| 192.168.33.8 ping stat | istics | | | | | |
| 5 packets transmitted, 0 r | eceived, +5 e | crors, 100% | packet lo | ss, time | 4007ms | 0 |
| NSX-edge-4-0> | | | | | | |
| NSX-edge-4-0> | | | | | | |
| NSX-edge-4-0> | | | | | | |
| NSX-edge-4-0> show ip rout | e ospf | | | | | |
| Codes: O - OSPF derived, i | - IS-IS deri | ved, B - BG | P derived, | | | |
| C - connected, S - static, | L1 - IS-IS 1 | evel-1, L2 | - IS-IS le | vel-2, | | |
| IA - OSPF inter area, E1 - | OSPF externa | l type 1, E | 2 - OSPF e | xternal (| type 2, | |
| N1 - OSPF NSSA external ty | pe 1, N2 - 05 | PF NSSA ext | ernal type | | | |
| O E2 172.16.0.0/16 | 1110/01 | | 1/0 100 4 | | | ÷ |
| | | | | | | |
| O E2 192.168.5.0/24 | | via 192 | | | | |
| O E2 192.168.6.4/30 | [110/0] | via 192 | .168.100.6 | | | 12 |
| NSX-edge-4-0> | | | | | | - |

Copy and save OSPF route table in notepad.

| @ 1 | 92.16 | 8.100.2 - PuTTY | | | | |
|------|-------|---------------------|-------------------|---------|--|---------|
| NSX | -edg | e-4-0> | | | | |
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| NSX | -edg | e-4-0> | | | | |
| NSX | -edg | e-4-0> | | | | |
| NSX | -edg | e-4-0> | | | | |
| NSX | -edg | e-4-0> show ip rout | te ospî | 92. T | <u> </u> | 1 - N.C |
| Cod | es: | 0 - OSPF derived, | i - IS-IS deri | ved, B | - BGP derived, | |
| c - | con | nected, S - static, | , L1 - IS-IS 1 | evel-1, | L2 - IS-IS level-2 | |
| | | | | | 1, E2 - OSPF extern | 2011b |
| N1 | - 09 | PF NSSA external ty | ype 1, N2 - 03 | PF NSSA | external type 2 | |
| 1324 | | | | | | |
| 22 | - | | | | | |
| 0 | E2 | 172.16.0.0/16 | [110/0] | | 192.168.100.6 | |
| 0 | E2 | 192.168.5.0/24 | [110/0] | | 192.168.100.6 | |
| 0 | E2 | 192.168.6.4/30 | [110/0] | via | 192.168.100.6 | X |
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