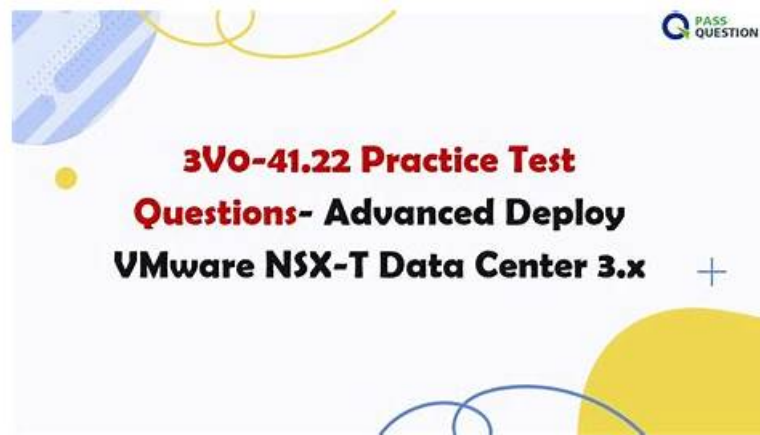


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VMware Advanced Deploy VMware NSX-T Data Center 3.X Sample

Questions (Q10-Q15):

NEW QUESTION # 10

Task 3

You are asked to deploy a new instance of NSX-T into an environment with two isolated tenants. These tenants each have separate physical data center cores and have standardized on BCP as a routing protocol.

You need to:

• Configure a new Edge cluster with the following configuration detail:	
Name:	edge-cluster-01
Edge cluster profile:	nsx-default-edge-high-availability-profile
Includes Edges:	nsx-edge-01 and nsx-edge-02

• Configure a Tier-0 Gateway with the following configuration detail:	
Name:	TO-01
HA Mode:	Active Active
Edge cluster:	edge-cluster-01

o Uplink-1

Type:	External
Name:	Uplink-1
Address/Mask:	192.168.100.2/24
Connected to:	Uplink
Edge Node:	nsx-edge-01

o Uplink-2

Type:	External
Name:	Uplink-2
Address/Mask:	192.168.100.3/24
Connected to:	Uplink
Edge Node:	nsx-edge-02

• Configure BGP on the Tier-0 Gateway with the following detail:	
Local AS:	65001
BGP Neighbors:	IP Address: 192.168.100.1 BFD: Disabled Remote AS Number: 65002
Additional Info:	All other values should remain at default while ensuring that ECMP is On
Source Addresses:	192.168.100.2 and 192.168.100.3

• Configure VRF Lite for the secondary tenant with the following detail:	
Name:	TO-01-vrf
Connected to Tier-0 Gateway:	TO-01

Complete the requested task.

Notes: Passwords are Contained in the user_readme.txt. Task 3 is dependent on the Completion Of Task and 2.

Other tasks are dependent On the Completion Of this task. Do not wait for configuration changes to be applied in this task as processing may take up to 10 minutes to complete. Check back on completion. This task should take approximately 10 minutes to complete.

Answer:

Explanation:

See the Explanation part of the Complete Solution and step by step instructions.

Explanation

To deploy a new instance of NSX-T into an environment with two isolated tenants, you need to follow these steps:

Log in to the NSX Manager UI with admin credentials. The default URL is

<https://<nsx-manager-ip-address>>.

Navigate to System > Fabric > Nodes > Edge Transport Nodes and click Add Edge VM.

Enter a name and an optional description for the edge VM. Select the compute manager, cluster, and resource pool where you want to deploy the edge VM. Click Next.

Select the deployment size and form factor for the edge VM. For this task, you can select Medium as the size and VM as the form factor. Click Next.

Select the datastore and folder where you want to store the edge VM files. Click Next.

Configure the management network settings for the edge VM. Enter a hostname, a management IP address, a default gateway, a DNS server, and a domain search list. Optionally, you can enable SSH and join the edge VM to a domain. Click Next.

Configure the transport network settings for the edge VM. Select an N-VDS as the host switch type and enter a name for it. Select

an uplink profile from the drop-down menu or create a new one by clicking New Uplink Profile. Map the uplinks to the physical NICs on the edge VM. For example, map Uplink 1 to fp-eth0 and Uplink 2 to fp-eth1. Optionally, you can configure IP assignment, MTU, or LLDP for the uplinks. Click Next.

Review the configuration summary and click Finish to deploy the edge VM.

Repeat steps 2 to 8 to deploy another edge VM for redundancy.

Navigate to Networking > Tier-0 Gateway and click Add Gateway > VRF.

Enter a name and an optional description for the VRF gateway. Select an existing tier-0 gateway as the parent gateway or create a new one by clicking New Tier-0 Gateway.

Click VRF Settings and enter a VRF ID for the tenant. Optionally, you can enable EVPN settings if you want to use EVPN as the control plane protocol for VXLAN overlay networks.

Click Save to create the VRF gateway.

Repeat steps 10 to 13 to create another VRF gateway for the second tenant with a different VRF ID.

Navigate to Networking > Segments and click Add Segment.

Enter a name and an optional description for the segment. Select VLAN as the connectivity option and enter a VLAN ID for the segment. For example, enter 128 for Tenant A's first uplink VLAN segment.

Select an existing transport zone from the drop-down menu or create a new one by clicking New Transport Zone.

Click Save to create the segment.

Repeat steps 15 to 18 to create three more segments for Tenant A's second uplink VLAN segment (VLAN ID 129) and Tenant B's uplink VLAN segments (VLAN ID 158 and 159).

Navigate to Networking > Tier-0 Gateway and select the VRF gateway that you created for Tenant A.

Click Interfaces > Set > Add Interface.

Enter a name and an optional description for the interface.

Enter the IP address and mask for the external interface in CIDR format, such as 10.10.10.1/24.

In Type, select External.

In Connected To (Segment), select the VLAN segment that you created for Tenant A's first uplink VLAN segment (VLAN ID 128).

Select an edge node where you want to attach the interface, such as Edge-01.

Enter the Access VLAN ID from the list as configured for the segment, such as 128.

Click Save and then Close.

Repeat steps 21 to 28 to create another interface for Tenant A's second uplink VLAN segment (VLAN ID 129) on another edge node, such as Edge-02.

Repeat steps 20 to 29 to create two interfaces for Tenant B's uplink VLAN segments (VLAN ID 158 and 159) on each edge node using their respective VRF gateway and IP addresses.

Configure BGP on each VRF gateway using NSX UI or CLI commands¹². You need to specify the local AS number, remote AS number, BGP neighbors, route redistribution, route filters, timers, authentication, graceful restart, etc., according to your requirements³⁴.

Configure BGP on each physical router using their respective CLI commands⁵⁶. You need to specify similar parameters as in step 31 and ensure that they match with their corresponding VRF gateway settings⁷⁸.

Verify that BGP sessions are established between each VRF gateway and its physical router neighbors using NSX UI or CLI commands . You can also check the routing tables and BGP statistics on each device .

You have successfully deployed a new instance of NSX-T into an environment with two isolated tenants using VRF Lite and BGP.

NEW QUESTION # 11

Task 1

You are asked to prepare a VMware NSX-T Data Center ESXi compute cluster Infrastructure. You will prepare two ESXi servers in a cluster for NSX-T overlay and VLAN use.

All configuration should be done using the NSX UI.

* NOTE: The configuration details in this task may not be presented to you in the order in which you must complete them.

* Configure a new Transport Node profile and add one n-VDS switch. Ensure Uplink 1 and Uplink 2 of your configuration use vmnic2 and vmnic3 on the host.

Configuration detail:	
Name:	RegionA01-COMP01-TNP
Type:	n-VDS switch
Mode:	standard
n-VDS Switch Name:	N-VDS-1
Transport Zones:	TZ-Overlay-1 and TZ-VLAN-1
NIOC profile:	nsx-default-nioc-hostswitch-profile
Uplink Profile:	RegionA01-COMP01-UP
LLDP Profile:	LLDP (send packet disabled)
IP Assignment:	TIER-Pool-02

Hint: The Transport Zone configuration will be used by another administrator at a later time.

- Configure a new VLAN backed transport zone.

Configuration detail:

- Configure a new uplink profile for the ESXi servers.

Configuration detail:

Name:	RegionA01-COMP01-UP
Teaming Policy:	Load Balance source
Active adapters:	Uplink1 and Uplink2
Transport VLAN:	0

- Configure a new IP Pool for ESXi overlay traffic with

Configuration detail:

Name:	TEP-Pool-02
IP addresses range:	192.168.130.71 - 192.168.130.74
CIDR:	192.168.130.0/24
Gateway:	192.168.130.1

- Using the new transport node profile, prepare ESXi cluster RegionA01-COMP01 for NSX Overlay and VLAN use.

Complete the requested task.

NOTE: Passwords are contained in the user_readme.txt. Configuration details may not be provided in the correct sequential order. Steps to complete this task must be completed in the proper order. Other tasks are dependent on the completion Of this task. You may want to move to other tasks/steps while waiting for configuration changes to be applied. This task should take approximately 20 minutes to complete.

Answer:

Explanation:

See the Explanation part of the Complete Solution and step by step instructions.

Explanation

To prepare a VMware NSX-T Data Center ESXi compute cluster infrastructure, you need to follow these steps:

Log in to the NSX Manager UI with admin credentials. The default URL is

<https://<nsx-manager-ip-address>>.

Navigate to System > Fabric > Profiles > Transport Node Profiles and click Add Profile.

Enter a name and an optional description for the transport node profile.

In the Host Switches section, click Set and select N-VDS as the host switch type.

Enter a name for the N-VDS switch and select the mode as Standard or Enhanced Datapath, depending on your requirements.

Select the transport zones that you want to associate with the N-VDS switch. You can select one overlay transport zone and one or more VLAN transport zones.

Select an uplink profile from the drop-down menu or create a custom one by clicking New Uplink Profile.

In the IP Assignment section, select Use IP Pool and choose an existing IP pool from the drop-down menu or create a new one by clicking New IP Pool.

In the Physical NICs section, map the uplinks to the physical NICs on the host. For example, map Uplink 1 to vmnic2 and Uplink 2 to vmnic3.

Click Apply and then click Save to create the transport node profile.

Navigate to System > Fabric > Nodes > Host Transport Nodes and click Add Host Transport Node.

Select vCenter Server as the compute manager and select the cluster that contains the two ESXi servers that you want to prepare for NSX-T overlay and VLAN use.

Select the transport node profile that you created in the previous steps and click Next.

Review the configuration summary and click Finish to start the preparation process.

The preparation process may take some time to complete. You can monitor the progress and status of the host transport nodes on the Host Transport Nodes page. Once the preparation is complete, you will see two host transport nodes with a green status icon and a Connected state. You have successfully prepared a VMware NSX-T Data Center ESXi compute cluster infrastructure using a transport node profile.

NEW QUESTION # 12

SIMULATION

Task 10

You have been notified by the Web Team that they cannot get to any northbound networks from their Tampa web servers that are deployed on an NSX-T network segment. The Tampa web VM's however can access each other.

You need to:

* Troubleshoot to find out why the Tampa web servers cannot communicate to any northbound networks and resolve the issue.

Complete the requested task. TO verify your work. ping the Control Center @ 192.168.110.10 Notes: Passwords are contained in the user_readme.txt. This task is dependent on Task 4. Some exam candidates may have already completed this task if they had

done more than the minimum required in Task 4. This task should take approximately 15 minutes to complete.

Answer:

Explanation:

See the Explanation part of the Complete Solution and step by step instructions Explanation:

To troubleshoot why the Tampa web servers cannot communicate to any northbound networks, you need to follow these steps:

Log in to the NSX Manager UI with admin credentials. The default URL is <https://<nsx-manager-ip-address>>.

Navigate to Networking > Tier-0 Gateway and select the tier-0 gateway that connects the NSX-T network segment to the northbound networks. For example, select T0-GW-01.

Click Interfaces > Set and verify the configuration details of the interfaces. Check for any discrepancies or errors in the parameters such as IP address, subnet mask, MTU, etc.

If you find any configuration errors, click Edit and modify the parameters accordingly. Click Save to apply the changes.

If you do not find any configuration errors, check the connectivity and firewall rules between the tier-0 gateway and the northbound networks. You can use ping or traceroute commands from the NSX Edge CLI or the vSphere Web Client to test the connectivity.

You can also use show service router command to check the status of the routing service on the NSX Edge.

If you find any connectivity or firewall issues, resolve them by adjusting the network settings or firewall rules on the NSX Edge or the northbound devices.

After resolving the issues, verify that the Tampa web servers can communicate to any northbound networks by pinging the Control Center @ 192.168.110.10 from one of the web servers.

NEW QUESTION # 13

Task 15

You have been asked to enable logging so that the global operations team can view in vRealize Log Insight that their Service Level Agreements are being met for all network traffic that is going in and out of the NSX environment. This NSX environment is an Active / Active two Data Center design utilizing N-VDS with BCP.

You need to ensure successful logging for the production NSX-T environment.

You need to:

Verify via putty with SSH that the administrator can connect to all NSX-Transport Nodes. You will use the credentials identified in Putty (admin).

Verify that there is no current active logging enabled by reviewing that directory is empty `-/var/log/syslog`

Enable NSX Manager Cluster logging

Select multiple configuration choices that could be appropriate success criteria Enable NSX Edge Node logging Validate logs are generated on each selected appliance by reviewing the `"/var/log/syslog"` Complete the requested task.

Notes: Passwords are contained in the user `_readme.txt`. complete.

These task steps are dependent on one another. This task should take approximately 10 minutes to complete.

Answer:

Explanation:

See the Explanation part of the Complete Solution and step by step instructions.

Explanation

To enable logging for the production NSX-T environment, you need to follow these steps:

Verify via putty with SSH that the administrator can connect to all NSX-Transport Nodes. You can use the credentials identified in Putty (admin) to log in to each transport node. For example, you can use the following command to connect to the sfo01w01en01 edge transport node: `ssh admin@sfo01w01en01`.

You should see a welcome message and a prompt to enter commands.

Verify that there is no current active logging enabled by reviewing that directory is empty

`-/var/log/syslog`. You can use the `ls` command to list the files in the `/var/log/syslog` directory. For example, you can use the following command to check the sfo01w01en01 edge transport node: `ls`

`/var/log/syslog`. You should see an empty output if there is no active logging enabled.

Enable NSX Manager Cluster logging. You can use the `search_web("NSX Manager Cluster logging configuration")` tool to find some information on how to configure remote logging for NSX Manager Cluster. One of the results is NSX-T Syslog Configuration

Revisited - vDives, which provides the following steps:

Navigate to System > Fabric > Profiles > Node Profiles then select All NSX Nodes then under Syslog Servers click +ADD Enter the IP or FQDN of the syslog server, the Port and Protocol and the desired Log Level then click ADD Select multiple configuration choices that could be appropriate success criteria. You can use the `search_web("NSX-T logging success criteria")` tool to find some information on how to verify and troubleshoot logging for NSX-T. Some of the possible success criteria are:

The syslog server receives log messages from all NSX nodes

The log messages contain relevant information such as timestamp, hostname, facility, severity, message ID, and message content The

log messages are formatted and filtered according to the configured settings. The log messages are encrypted and authenticated if using secure protocols such as TLS or LI-TLS. Enable NSX Edge Node logging. You can use the `search_web("NSX Edge Node logging configuration")` tool to find some information on how to configure remote logging for NSX Edge Node.

One of the results is [Configure Remote Logging - VMware Docs](#), which provides the following steps:

Run the following command to configure a log server and the types of messages to send to the log server. Multiple facilities or message IDs can be specified as a comma delimited list, without spaces.

```
set logging-server <hostname-or-ip-address [:port]> proto <proto> level <level> [facility <facility>]
[messageid <messageid>] [serverca <filename>] [clientca <filename>] [certificate <filename>] [key
<filename>] [structured-data <structured-data>]
```

Validate logs are generated on each selected appliance by reviewing the `/var/log/syslog`. You can use the `catortail` commands to view the contents of the `/var/log/syslog` file on each appliance. For example, you can use the following command to view the last 10 lines of the `sfo01w01en01` edge transport node: `tail -n 10 /var/log/syslog`. You should see log messages similar to this:

```
2023-04-06T12:34:56+00:00 sfo01w01en01 user.info nsx-edge[1234]: 2023-04-06T12:34:56Z nsx-edge[1234]: INFO:
[nsx@6876 comp="nsx-edge" subcomp="nsx-edge" level="INFO" security="False"] Message from nsx-edge You have
successfully enabled logging for the production NSX-T environment.
```

NEW QUESTION # 14

Task 9

TO prepare for Virtual machine migration from VLAN-backed port groups to an overlay segment in NSX, a test bridge has been configured. The bridge is not functioning, and the `-Bridge-VM-` is not responding to ICMP requests from the main console.

You need to:

- * Troubleshoot the configuration and make necessary changes to restore access to the application.

Complete the requested task.

Notes: Passwords are contained in the `user_readme.txt`. This task is not dependent on another. This task should take approximately 15 minutes to complete.

Answer:

Explanation:

See the Explanation part of the Complete Solution and step by step instructions.

Explanation

To troubleshoot the bridge configuration and restore access to the application, you need to follow these steps:

Log in to the NSX Manager UI with admin credentials. The default URL is

`https://<nsx-manager-ip-address>`.

Navigate to `Networking > Segments` and select the overlay segment that is bridged to the VLAN-backed port group. For example, select `Web-01` segment that you created in Task 2.

Click `Bridge > Set` and verify the configuration details of the bridge. Check for any discrepancies or errors in the parameters such as bridge name, bridge ID, VLAN ID, edge node, etc.

If you find any configuration errors, click `Edit` and modify the parameters accordingly. Click `Save` to apply the changes.

If you do not find any configuration errors, check the connectivity and firewall rules between the overlay segment and the VLAN-backed port group. You can use `ping` or `tracert` commands from the NSX Edge CLI or the vSphere Web Client to test the connectivity. You can also use `show service bridge` command to check the status of the bridge service on the NSX Edge.

If you find any connectivity or firewall issues, resolve them by adjusting the network settings or firewall rules on the NSX Edge or the vSphere Distributed Switch.

After resolving the issues, verify that the bridge is functioning and the `Bridge-VM` is responding to ICMP requests from the main console. You can also check the MAC addresses learned by the bridge on both sides of the network using `show service bridge mac` command on the NSX Edge CLI.

NEW QUESTION # 15

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