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VMware 3V0-41.22 certification exam measures the skills and knowledge of candidates in various areas, including NSX-T Data Center architecture, design, installation, configuration, management, troubleshooting, and optimization. 3V0-41.22 exam includes 60 multiple-choice and matching questions that are to be completed within 120 minutes. The passing score for this certification exam is 300 out of 500.

VMware 3V0-41.22 certification exam is designed for IT professionals who specialize in network virtualization using VMware NSX-T Data Center 3.X. 3V0-41.22 exam covers advanced topics such as multi-site NSX-T Data Center architectures, advanced networking, and security concepts. Passing 3V0-41.22 Exam demonstrates that the candidate has the knowledge and skills required to design, deploy, and manage complex NSX-T Data Center environments.

VMware 3V0-41.22 certification exam is a great way for IT professionals to validate their skills in deploying and managing advanced NSX-T Data Center environments. Advanced Deploy VMware NSX-T Data Center 3.X certification exam covers a wide range of topics and is intended for candidates who have experience with VMware NSX-T Data Center. Passing 3V0-41.22 exam demonstrates that you have the knowledge and skills required to deploy and manage advanced NSX-T Data Center environments.

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VMware Advanced Deploy VMware NSX-T Data Center 3.X Sample Questions (Q13-Q18):

NEW QUESTION # 13
SIMULATION
Task 11
upon testing the newly configured distributed firewall policy for the Boston application. it has been discovered that the Boston-Web virtual machines can be "pinged" via ICMP from the main console. Corporate policy does not allow pings to the Boston VMs.
You need to:

* Troubleshoot ICMP traffic and make any necessary changes to the Boston application security policy.
Complete the requested task.
Notes: Passwords are contained in the user _readme.txt. This task is dependent on Task 5.

Answer:

Explanation:
See the Explanation part of the Complete Solution and step by step instructions Explanation:
To troubleshoot ICMP traffic and make any necessary changes to the Boston application security policy, 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 Security > Distributed Firewall and select the firewall policy that applies to the Boston application. For example, select Boston-web-Application.
Click Show IPSec Statistics and view the details of the firewall rule hits and logs. You can see which rules are matching the ICMP traffic and which actions are taken by the firewall.
If you find that the ICMP traffic is allowed by a rule that is not intended for it, you can edit the rule and change the action to Drop or Reject. You can also modify the source, destination, or service criteria of the rule to make it more specific or exclude the ICMP traffic.
If you find that the ICMP traffic is not matched by any rule, you can create a new rule and specify the action as Drop or Reject. You can also specify the source, destination, or service criteria of the rule to match only the ICMP traffic from the main console to the Boston web VMs.
After making the changes, click Publish to apply the firewall policy.
Verify that the ICMP traffic is blocked by pinging the Boston web VMs from the main console again. You should see a message saying "Request timed out" or "Destination unreachable".

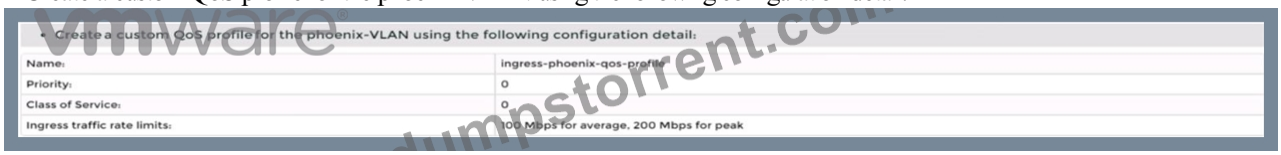
NEW QUESTION # 14
SIMULATION
Task 14
An administrator has seen an abundance of alarms regarding high CPU usage on the NSX Managers. The administrator has successfully cleared these alarms numerous times in the past and is aware of the issue. The administrator feels that the number of alarms being produced for these events is overwhelming the log files.
You need to:
* Review CPU Sensitivity and Threshold values.
Complete the requested task.
Notes: Passwords are contained in the user_readme.txt. This task is not dependent on other tasks. This task should take approximately 5 minutes to complete.

Answer:

Explanation:
See the Explanation part of the Complete Solution and step by step instructions Explanation:
To review CPU sensitivity and threshold values, 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 > Settings > System Settings > CPU and Memory Thresholds.
You will see the current values for CPU and memory thresholds for NSX Manager, NSX Controller, and NSX Edge. These values determine the percentage of CPU and memory usage that will trigger an alarm on the NSX Manager UI.
You can modify the default threshold values by clicking Edit and entering new values in the text boxes. For example, you can increase the CPU threshold for NSX Manager from 80% to 90% to reduce the number of alarms for high CPU usage. Click Save to apply the changes.
You can also view the historical data for CPU and memory usage for each component by clicking View Usage History. You can select a time range and a granularity level to see the usage trends and patterns over time

NEW QUESTION # 15
SIMULATION
Task 7
you are asked to create a custom QoS profile to prioritize the traffic on the phoenix-VLAN segment and limit the rate of ingress traffic.
You need to:

* Create a custom QoS profile for the phoenix-VLAN using the following configuration detail:



Create a custom QoS profile for the phoenix-VLAN using the following configuration detail:	
Name:	ingress-phoenix-qos-profile
Priority:	0
Class of Service:	0
Ingress traffic rate limits:	100 Mbps for average, 200 Mbps for peak

* Apply the profile on the 'phoenix-VLAN' segment
Complete the requested task.
Notes: Passwords are contained in the user_readme.txt.
take approximately 5 minutes to complete.
Subsequent tasks may require the completion of this task. This task should

Answer:

Explanation:
See the Explanation part of the Complete Solution and step by step instructions Explanation:
To create a custom QoS profile to prioritize the traffic on the phoenix-VLAN segment and limit the rate of ingress traffic, 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 > Switching Profiles and click Add Switching Profile. Select QoS as the profile type.
Enter a name and an optional description for the QoS profile, such as phoenix-QoS.
In the Mode section, select Untrusted as the mode from the drop-down menu. This will allow you to set a custom DSCP value for the outbound IP header of the traffic on the segment.
In the Priority section, enter 46 as the DSCP value. This will mark the traffic with Expedited Forwarding (EF) per-hop behavior, which is typically used for high-priority applications such as voice or video.
In the Class of Service section, enter 5 as the CoS value. This will map the DSCP value to a CoS value that can be used by VLAN-based logical ports or physical switches to prioritize the traffic.
In the Ingress section, enter 1000000 as the Average Bandwidth in Kbps. This will limit the rate of inbound traffic from the VMs to the logical network to 1 Mbps.
Optionally, you can also configure Peak Bandwidth and Burst Size settings for the ingress traffic, which will allow some burst traffic above the average bandwidth limit for a short duration.
Click Save to create the QoS profile.
Navigate to Networking > Segments and select the phoenix-VLAN segment that you want to apply the QoS profile to.
Click Actions > Apply Profile and select phoenix-QoS as the switching profile that you want to apply to the segment.
Click Apply to apply the profile to the segment.
You have successfully created a custom QoS profile and applied it to the phoenix-VLAN segment.

NEW QUESTION # 16
Task 12
An issue with the Tampa web servers has been reported. You would like to replicate and redirect the web traffic to a network monitoring tool outside Of the NSX-T environment to further analyze the traffic.
You are asked to configure traffic replication to the monitoring software for your Tampa web overlay segments with bi-directional traffic using this detail:

Session Name:	Network-Monitor-01
Network Appliance Name/Group:	NM-01
Direction:	Bi Directional
TCP/IP Stack:	Default
Encapsulation Type:	GRE

Complete the requested configuration.
Notes: Passwords are contained in the user_readme.txt. This task is not dependent on other tasks. 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 configure traffic replication to the monitoring software for your Tampa web overlay segments with bi-directional traffic, 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 Tampa web overlay segment that you want to replicate the traffic from. For example, select Web-01 segment that you created in Task 2.
Click Port Mirroring > Set > Add Session and enter a name and an optional description for the port mirroring session. For example, enter Tampa-Web-Monitoring.
In the Direction section, select Bi-directional as the direction from the drop-down menu. This will replicate both ingress and egress traffic from the source to the destination.
In the Source section, click Set and select the VMs or logical ports that you want to use as the source of the traffic. For example, select Web-VM-01 and Web-VM-02 as the source VMs. Click Apply.
In the Destination section, click Set and select Remote L3 SPAN as the destination type from the drop-down menu. This will allow you to replicate the traffic to a remote destination outside of the NSX-T environment.
Enter the IP address of the destination device where you have installed the network monitoring software, such as 10.10.10.200.
Select an existing service profile from the drop-down menu or create a new one by clicking New Service Profile. A service profile defines the encapsulation type and other parameters for the replicated traffic.
Optionally, you can configure advanced settings such as TCP/IP stack, snap length, etc., for the port mirroring session.
Click Save and then Close to create the port mirroring session.
You have successfully configured traffic replication to the monitoring software for your Tampa web overlay segments with bi-directional traffic using NSX-T Manager UI.

NEW QUESTION # 17
SIMULATION
Task 5
You are asked to configure a micro-segmentation policy for a new 3-tier web application that will be deployed to the production environment.
You need to:

- Configure Tags with the following configuration detail:

Tag Name	Member
Boston	Boston-web-01a, Boston-web-02a, Boston-app-01a, Boston-db-01a
Boston-Web	Boston-web-01a, Boston-web-02a
Boston-App	Boston-app-01a
Boston-DB	Boston-db-01a

- Configure Security Groups (use tags to define group criteria) with the following configuration detail:

Boston
Boston Web-Servers
Boston App-Servers
Boston DB-Servers

- Configure the Distributed Firewall Exclusion List with the following configuration detail:

Virtual Machine:	core-A

- Configure Policy & DFW Rules with the following configuration detail:

Policy Name:	Boston-Web-Application
Applied to:	Boston
New Services:	TCP-8443, TCP-3051

- Policy detail:

Rule Name	Source	Destination	Service	Action
Any-to-Web	Any	Boston Web-Servers	HTTP,HTTPS	ALLOW
Web-to-App	Boston Web-Servers	Boston App-Servers	TCP-8443	ALLOW
App-to-DB	Boston App-Servers	Boston DB-Servers	TCP-3051	ALLOW

Notes:
Passwords are contained in the user_readme.txt. Do not wait for configuration changes to be applied in this task as processing may take some time. The task steps are not dependent on one another. Subsequent tasks may require completion of this task. This task should take approximately 25 minutes to complete.

Answer:

Explanation:
See the Explanation part of the Complete Solution and step by step instructions Explanation:
Step-by-Step Guide
Creating Tags and Security Groups
First, log into the NSX-T Manager GUI and navigate to Inventory > Tags to create tags like "BOSTON-Web" for web servers and assign virtual machines such as BOSTON-web-01a and BOSTON-web-02 a. Repeat for "BOSTON-App" and "BOSTON-DB"

with their respective VMs. Then, under Security > Groups, create security groups (e.g., "BOSTON Web-Servers") based on these tags to organize the network logically.
Excluding Virtual Machines
Next, go to Security > Distributed Firewall > Exclusion List and add the "core-A" virtual machine to exclude it from firewall rules, ensuring it operates without distributed firewall restrictions.
Defining Custom Services
Check Security > Services for existing services. If "TCP-9443" and "TCP-3051" are missing, create them by adding new services with the protocol TCP and respective port numbers to handle specific application traffic.
Setting Up the Policy and Rules
Create a new policy named "BOSTON-Web-Application" under Security > Distributed Firewall > Policies. Add rules within this policy:
Allow any source to "BOSTON Web-Servers" for HTTP/HTTPS.
Permit "BOSTON Web-Servers" to "BOSTON App-Servers" on TCP-9443.
Allow "BOSTON App-Servers" to "BOSTON DB-Servers" on TCP-3051. Finally, save and publish the policy to apply the changes.
This setup ensures secure, segmented traffic for the 3-tier web application, an unexpected detail being the need to manually create custom services for specific ports, enhancing flexibility.
Survey Note: Detailed Configuration of Micro-Segmentation Policy in VMware NSX-T Data Center 3.x This note provides a comprehensive guide for configuring a micro-segmentation policy for a 3-tier web application in VMware NSX-T Data Center 3.x, based on the task requirements. The process involves creating tags, security groups, excluding specific virtual machines, defining custom services, and setting up distributed firewall policies. The following sections detail each step, ensuring a thorough understanding for network administrators and security professionals.
Background and Context
Micro-segmentation in VMware NSX-T Data Center is a network security technique that logically divides the data center into distinct security segments, down to the individual workload level, using network virtualization technology. This is particularly crucial for a 3-tier web application, comprising web, application, and database layers, to control traffic and enhance security. The task specifies configuring this for a production environment, with notes indicating passwords are in user_readme.txt and no need to wait for configuration changes, as processing may take time.
Step-by-Step Configuration Process
Step 1: Creating Tags
Tags are used in NSX-T to categorize virtual machines, which can then be grouped for policy application. The process begins by logging into the NSX-T Manager GUI, accessible via a web browser with admin privileges. Navigate to Inventory > Tags, and click "Add Tag" to create the following:
Tag name: "BOSTON-Web", assigned to virtual machines BOSTON-web-01a and BOSTON-web-02a.
Tag name: "BOSTON-App", assigned to BOSTON-app-01a.
Tag name: "BOSTON-DB", assigned to BOSTON-db-01a.
This step ensures each tier of the application is tagged for easy identification and grouping, aligning with the attachment's configuration details.
Step 2: Creating Security Groups
Security groups in NSX-T are logical constructs that define membership based on criteria like tags, enabling targeted policy application. Under Security > Groups, click "Add Group" to create:
Group name: "BOSTON Web-Servers", with criteria set to include the "BOSTON-Web" tag.
Group name: "BOSTON App-Servers", with criteria set to include the "BOSTON-App" tag.
Group name: "BOSTON DB-Servers", with criteria set to include the "BOSTON-DB" tag.
This step organizes the network into manageable segments, facilitating the application of firewall rules to specific tiers.
Step 3: Excluding "core-A" VM from Distributed Firewall
The distributed firewall (DFW) in NSX-T monitors east-west traffic between virtual machines. However, certain VMs, like load balancers or firewalls, may need exclusion to operate without DFW restrictions. Navigate to Security > Distributed Firewall > Exclusion List, click "Add", select "Virtual Machine", and choose "core-A". Click "Save" to exclude it, ensuring it bypasses DFW rules, as per the task's requirement.
Step 4: Defining Custom Services
Firewall rules often require specific services, which may not be predefined. Under Security > Services, check for existing services "TCP-9443" and "TCP-3051". If absent, create them:
Click "Add Service", name it "TCP-9443", set protocol to TCP, and port to 9443.
Repeat for "TCP-3051", with protocol TCP and port 3051.
This step is crucial for handling application-specific traffic, such as the TCP ports mentioned in the policy type (TCP-9443, TCP-3051), ensuring the rules can reference these services.
Step 5: Creating the Policy and Rules
The final step involves creating a distributed firewall policy to enforce micro-segmentation. Navigate to Security > Distributed Firewall > Policies, click "Add Policy", and name it "BOSTON-Web-Application". Add a section, then create the following rules:
Rule Name: "Any-to-Web"

Source: Any (select "Any" or IP Address 0.0.0.0/0)
Destination: "BOSTON Web-Servers" (select the group)
Service: HTTP/HTTPS (predefined service)
Action: Allow
Rule Name: "Web-to-App"
Source: "BOSTON Web-Servers"
Destination: "BOSTON App-Servers"
Service: TCP-9443 (custom service created earlier)
Action: Allow
Rule Name: "App-to-DB"
Source: "BOSTON App-Servers"
Destination: "BOSTON DB-Servers"
Service: TCP-3051 (custom service created earlier)
Action: Allow
After defining the rules, click "Save" and "Publish" to apply the policy. This ensures traffic flows as required: any to web servers for HTTP/HTTPS, web to app on TCP-9443, and app to database on TCP-3051, while maintaining security through segmentation.
Additional Considerations
The task notes indicate no need to wait for configuration changes, as processing may take time, and steps are not dependent, suggesting immediate progression is acceptable. Passwords are in user_readme.txt, implying the user has necessary credentials. The policy order is critical, with rules processed top-to-bottom, and the attachment's "Type: TCP-9443, TCP-3051" likely describes the services used, not affecting the configuration steps directly.
Table: Summary of Configuration Details
Component
Details
Tags
BOSTON-Web (BOSTON-web-01a, BOSTON-web-02a), BOSTON-App (BOSTON-app-01a), BOSTON-DB (BOSTON-db-01a) Security Groups BOSTON Web-Servers (tag BOSTON-Web), BOSTON App-Servers (tag BOSTON-App), BOSTON DB-Servers (tag BOSTON-DB) DFW Exclusion List Virtual Machine: core-A Custom Services TCP-9443 (TCP, port 9443), TCP-3051 (TCP, port 3051) Policy Name BOSTON-Web-Application Firewall Rules Any-to-Web (Any to Web-Servers, HTTP/HTTPS, Allow), Web-to-App (Web to App-Servers, TCP-9443, Allow), App-to-DB (App to DB-Servers, TCP-3051, Allow) This table summarizes the configuration, aiding in verification and documentation.
Unexpected Detail
An unexpected aspect is the need to manually create custom services for TCP-9443 and TCP-3051, which may not be predefined, highlighting the flexibility of NSX-T for application-specific security policies.
Conclusion
This detailed process ensures a robust micro-segmentation policy, securing the 3-tier web application by controlling traffic between tiers and excluding specific VMs from DFW, aligning with best practices for network security in VMware NSX-T Data Center 3.x.

NEW QUESTION # 18
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Answers

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