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DESIGNING AND IMPLEMENTING ENTERPRISE NETWORK ASSURANCE

300-445 ENNA

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Cisco 300-445 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">Platforms and Architecture: This domain covers understanding monitoring agent types and placement, active versus passive monitoring, and ThousandEyes WAN Insights. It addresses Cisco platform integrations, metric baselines, and selecting appropriate integration methods and assurance platforms based on business requirements.
Topic 2	<ul style="list-style-type: none">Insights and Alerts: This domain addresses configuring alert rules based on network conditions and end-user experience factors. It covers selecting metrics for stakeholders, validating alerts, and recommending network optimization for capacity planning.
Topic 3	<ul style="list-style-type: none">Data Collection Implementation: This domain focuses on deploying enterprise and endpoint agents across infrastructure and end-user devices. It covers configuring network, DNS, voice, web, and endpoint tests using ThousandEyes and Meraki Insights, along with implementing synthetic web tests and authentication methods.

Topic 4	<ul style="list-style-type: none"> • Data Analysis: This domain encompasses diagnosing network issues like packet loss, congestion, routing, and jitter, plus end-device problems. It includes analyzing web application performance and identifying security threats such as DDoS attacks, DNS hijacking, and BGP hijacking.
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Cisco Designing and Implementing Enterprise Network Assurance Sample Questions (Q36-Q41):

NEW QUESTION # 36

Which tool is commonly used for configuring network tests related to TCP/UDP performance?

- A. Wireshark
- **B. Thousand Eyes**
- C. SolarWinds
- D. Meraki Insights

Answer: B

Explanation:

Thousand Eyes is commonly used for configuring network tests related to TCP/UDP performance, offering comprehensive monitoring and analysis capabilities.

NEW QUESTION # 37

An administrator has set up GPO properly, but realized ThousandEyes EPA was not deployed on one of the office PCs.⁹ What is the appropriate first step?

- A. After GPO deployment, an administrator account must log in to deploy the EPA
- B. Reboot the PC, this will restart GPO on the server
- **C. Check that the PC belongs to the needed domain**
- D. Reboot the Server, this will restart GPO on the PC

Answer: C

Explanation:

In the Designing and Implementing Enterprise Network Assurance (300-445 ENNA) curriculum, troubleshooting deployment issues is as critical as the initial configuration. When utilizing Group Policy Objects (GPOs) for the distribution of the ThousandEyes Endpoint Agent (EPA), certain prerequisites must be met for the policy to take effect on a target machine.¹⁰ The most fundamental requirement is that the target PC must be a member of the domain or the specific Organizational Unit (OU) where the GPO is linked. Therefore, the appropriate first step is to check that the PC belongs to the needed domain (Option B). GPOs are scoped based on Active Directory membership; if a computer is in a workgroup or a different domain/OU that is not targeted by the policy, it will never receive the instruction to install the software, regardless of how "properly" the GPO is configured on the server.¹¹ The other options are technically incorrect or represent a misunderstanding of GPO mechanics:

* Administrator Login (Option A): EPA installation via GPO is typically configured to run under the System account context during startup, meaning it is not dependent on a specific user (administrator or otherwise) logging in to trigger the deployment.

* Rebooting to restart GPO on the server (Option C): Rebooting a client PC triggers a "GPUpdate" request from the client to the server, but it does not "restart" the GPO service on the server side.

* Rebooting the Server (Option D): This is an invasive and unnecessary step that will not force a policy update on a specific client PC

if that PC is not correctly joined to the domain or is experiencing a local networking issue.

By verifying domain membership first, the administrator ensures the basic trust and communication path required for GPO delivery is functional before moving to more complex troubleshooting steps like checking event logs or network connectivity.

NEW QUESTION # 38

A network engineer deploys a ThousandEyes Docker agent on a switch using app-hosting 7. The agent needs to communicate through a proxy server, but this configuration was missed during the initial deployment. The engineer adds the proxy settings to the app-hosting configuration. What is the next step to ensure the agent uses the proxy and appears online in the ThousandEyes portal?

- A. Execute the full agent lifecycle: app-hosting stop appid agentname, app-hosting deactivate appid agentname, app-hosting activate appid agentname, app-hosting start appid agentname
- B. Restart the container using app-hosting stop appid agentname followed by app-hosting start appid agentname
- C. Reinstall the agent using the app-hosting install command with the correct proxy settings
- D. No action required; the agent will pick up the configuration automatically

Answer: A

Explanation:

In the Designing and Implementing Enterprise Network Assurance (300-445 ENNA) implementation guide, the Cisco IOS XE Application Hosting lifecycle is a critical concept for troubleshooting and configuration management. When an application environment variable—such as proxy settings or account tokens—is modified in the app-hosting configuration, a simple restart of the container is insufficient to apply those changes.

The correct procedure involves moving the application back through its lifecycle states to ensure the new environment variables are injected. This requires executing the full agent lifecycle (Option C): Stop, Deactivate, Activate, and Start.

* Stop: Terminates the current running process of the container.

* Deactivate: Releases the allocated hardware resources (CPU, Memory) and, most importantly, clears the runtime environment.

* Activate: Re-allocates the resources and injects the updated configuration parameters into the container's environment variables.

* Start: Initiates the container with the newly applied configuration settings.

After the application is up and running, the ThousandEyes-agent process attempts to connect to the controller in the cloud environment. Without the deactivate/activate sequence, the container continues to use the environment variables present at the time of its initial activation, causing the agent to remain offline as it fails to reach the ThousandEyes portal without the proxy. Reinstalling (Option B) would work but is an unnecessarily lengthy process, while No action (Option D) will result in no change to the agent's connectivity status.

NEW QUESTION # 39

When selecting a Cisco network assurance platform, what aspect should be prioritized for application communication?

- A. User experience
- B. Network throughput
- C. Scalability
- D. Server hardware

Answer: A

Explanation:

For application communication, user experience should be prioritized when selecting a Cisco network assurance platform to ensure optimal performance and usability in network assurance.

NEW QUESTION # 40

What is the process of configuring tests using Thousand Eyes and Meraki Insights called?

- A. Network scripting
- B. Endpoint deployment
- C. Synthetic testing
- D. Active monitoring

Answer: C

Explanation:

Configuring tests using Thousand Eyes and Meraki Insights involves synthetic testing, which simulates user interactions to assess network performance.

NEW QUESTION # 41

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