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Cisco 300-445 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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.
Topic 2	• 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 3	• 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 4	• 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.

Cisco Designing and Implementing Enterprise Network Assurance Sample Questions (Q61-Q66):

NEW QUESTION # 61
What is a key consideration when configuring network tests using Thousand Eyes and Meraki Insights?

- A. Ensuring data encryption
- B. Minimizing latency
- C. Maximizing server uptime
- D. Analyzing server logs

Answer: B

Explanation:
A key consideration when configuring network tests is minimizing latency to ensure accurate performance measurement and analysis in network assurance.

NEW QUESTION # 62
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. No action required; the agent will pick up the configuration automatically
- B. Reinstall the agent using the app-hosting install command with the correct proxy settings
- C. Restart the container using app-hosting stop appid agentname followed by app-hosting start appid agentname
- D. 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

Answer: D

Explanation:

In theDesigning and Implementing Enterprise Network Assurance (300-445 ENNA)implementation guide, the Cisco IOS XEApplication Hostinglifecycle 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 andinjects the updated configuration parametersinto 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 thedeactivate/activatesequence, 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, whileNo action(Option D) will result in no change to the agent's connectivity status.

NEW QUESTION # 63
Which authentication method is commonly used in synthetic web tests for secure access to web applications?

* A. Basic authentication
* B. OAuth
* C. Digest authentication
* D. SAML

Answer: D

Explanation:
Security Assertion Markup Language (SAML) is commonly used in synthetic web tests for secure access to web applications, providing robust authentication and authorization mechanisms in network assurance.

NEW QUESTION # 64
How do scripting agents contribute to network assurance?

* A. Monitoring hardware health
* B. Optimizing server configurations
* C. Analyzing security logs
* D. Automating network tasks

Answer: D

Explanation:
Scripting agents automate network tasks to enhance operational efficiency and ensure consistent network performance.

NEW QUESTION # 65
Refer to Exhibit:

A network engineer is deploying a Cisco ThousandEyes agent to monitor the network for a SaaS application without affecting the performance of the employee endpoints. Which ThousandEyes agent must be deployed to obtain the network metrics from branch A?

* A. Endpoint Agent
* B. Enterprise Agent
* C. Cloud Agent
* D. Application Agent

Answer: B

Explanation:

In the framework of Designing and Implementing Enterprise Network Assurance (300-445 ENNA), selecting the appropriate ThousandEyes agent type is critical to balancing visibility requirements with infrastructure constraints. For Branch A, the primary objective is to gain network-layer metrics (such as latency, packet loss, and jitter) and path visualization for a SaaS application while strictly avoiding any performance impact on employee endpoints.

The Enterprise Agent (Option C) is the correct choice because it is designed for "inside-out" monitoring from within the corporate network environment. These agents are lightweight software probes that can be deployed on existing network infrastructure, such as Cisco Catalyst 9300/9400 switches or Catalyst 8000 Edge Platforms, using Docker containers or virtual machines. By hosting the agent on the branch router or a dedicated local server, the engineer can execute synthetic tests to the SaaS provider's destination. This approach provides the necessary network vantage point from Branch A without requiring any software installation or resource consumption on the individual employee workstations (endpoints).

Other agent types do not satisfy the specific constraints of this scenario:
* Endpoint Agents are installed directly on user devices (Windows/macOS) to provide "last-mile" visibility. However, they use the endpoint's CPU and memory, which contradicts the requirement to not affect endpoint performance.
* Cloud Agents are maintained by Cisco in global ISP data centers. While they provide "outside-in" visibility, they cannot capture internal branch network characteristics or the specific path from Branch A's internal local area network.
* Application Agent is a non-standard term and does not exist as a standalone agent type within the ThousandEyes architecture.
Therefore, deploying an Enterprise Agent within the branch infrastructure ensures that the network engineer obtains high-fidelity network metrics while keeping employee devices entirely unburdened.
Introduction to ThousandEyes
This video provides an essential overview of how ThousandEyes agents function within a CCNP-level enterprise network assurance strategy.

NEW QUESTION # 66

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