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## Cisco Designing and Implementing Enterprise Network Assurance Sample Questions (Q69-Q74):

### NEW QUESTION # 69

An engineer needs to create a test that requires authentication configuration to monitor an API. The test must send a POST request with client credentials parameters to get a token. The token then needs to be sent out on a GET request to be authorized to get the resource.

What must be done to meet the requirements? (Choose two)

- A. Configure the HTTP server test to use OAuth authentication for client credentials
- B. **Parameters are not supported by HTTP server OAuth authentication; use an API test instead**
- C. Configure the HTTP server test to use Basic authentication for client credentials
- D. **Parameters are not supported by HTTP server OAuth authentication; use a Transaction script instead**
- E. Configure the HTTP server test to use NTLM authentication for client credentials

**Answer: B,D**

Explanation:

In the Designing and Implementing Enterprise Network Assurance (300-445 ENNA) curriculum, monitoring modern APIs often

requires handling complex authentication flows, such as OAuth 2.0 with specific client credential parameters. The provided exhibit illustrates the HTTP Authentication options available within a standard HTTP Server test: None, Basic, NTLM, Kerberos, and OAuth.

According to the ENNA implementation standards, while the HTTP Server test type supports OAuth (Option C), its native implementation is limited. Specifically, it is designed to use a pre-existing token or a simple token refresh flow; it does not support the injection of custom parameters in the initial POST request required to obtain a token in many enterprise client-credential scenarios. Basic and NTLM (Options A and B) are legacy protocols that rely on simple username/password headers and cannot facilitate the multi-step token exchange process described.

To fulfill the requirement of a two-step flow (POST for token, followed by GET for resource), engineers must use more flexible test types:

\* Transaction scripts (Option D): These allow the engineer to write custom JavaScript using the ThousandEyes transaction library to programmatically handle the POST request, parse the resulting JSON token, and then pass that token into the subsequent GET request's header.

\* API tests (Option E): These are purpose-built for API monitoring and natively support the definition of variables and multi-step requests where the output of one call (the token) serves as the input for the next.

By utilizing these advanced test types, the engineer can successfully navigate complex authentication requirements that the standard HTTP Server test cannot accommodate.

## NEW QUESTION # 70

A company is noticing sporadic slowdowns in their web application performance, impacting user experience.

They suspect it might be related to high CPU utilization on employee laptops, potentially caused by background processes. Which ThousandEyes alert type and condition combination would be most effective in identifying if endpoint CPU performance is contributing to this issue?

- A. Real User Tests > Endpoint, CPU utilization # %
- B. Scheduled Tests > Endpoint End-to-End (server), Memory load # %
- C. Scheduled Tests > Endpoint Path Trace, Path length > #
- D. Real User Tests > Network Tests and Path Trace, End-to-End Packet Loss

### Answer: A

Explanation:

In the Designing and Implementing Enterprise Network Assurance (300-445 ENNA) curriculum, isolating performance issues on end-user machines requires a combination of application-layer experience data and local system telemetry. When an architect suspects that local hardware constraints, such as high CPU usage, are degrading the digital experience, the Endpoint Agent is the required vantage point.

The correct combination is Real User Tests > Endpoint, CPU utilization # % (Option C). This alert configuration is effective for several reasons:

\* Targeted Visibility: It directly monitors the user's device (Endpoint) where the hardware bottleneck is suspected to reside.

\* Real-Time Context: By utilizing Real User Tests (RUM), the agent gathers performance data during actual user activity (e.g., browsing the web application). This ensures that the CPU spikes are correlated with active application usage, providing a representative view of the impact on experience.

\* Threshold Alerting: The condition monitors for CPU utilization exceeding a defined percentage threshold (# %). This allows IT teams to be notified only when the CPU load reaches problematic levels that are known to cause application sluggishness or browser "freezing".

Alternative options are less effective for this specific troubleshooting goal:

\* Option A: Monitors network loss, which would not identify a local CPU bottleneck.

\* Option B: Monitors path length (hops), which is a routing metric irrelevant to local hardware performance.

\* Option D: Monitors memory load during scheduled tests. While memory is a factor, the specific suspicion in this scenario is CPU utilization, and scheduled tests do not always capture the same load impact as a real user interacting with the browser.

## NEW QUESTION # 71

What is the primary objective of network optimization recommendations?

- A. Reducing hardware costs
- B. Improving network performance
- C. Limiting software compatibility
- D. Maximizing network complexity

**Answer: B**

Explanation:

The primary objective of network optimization recommendations is to improve network performance, efficiency, and reliability by implementing best practices and addressing identified issues and bottlenecks.

**NEW QUESTION # 72**

What is the primary benefit of deploying an endpoint agent across end-user devices in an enterprise network?

- A. Limited device compatibility
- B. Increased network latency
- C. **Comprehensive visibility into user experience**
- D. Decreased network security

**Answer: C**

Explanation:

Deploying an endpoint agent across end-user devices provides comprehensive visibility into user experience, helping to identify and address performance issues proactively.

**NEW QUESTION # 73**

A network engineer deploys a ThousandEyes Docker agent on a switch using app-hosting. 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 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—is modified in the app-hosting configuration, a simple restart of the container is insufficient.

The correct procedure involves moving the application back to the Configured state before bringing it back to Running. This requires a four-step lifecycle execution (Option C):

- \* Stop: Terminates the current running instance of the container.
- \* Deactivate: Releases the hardware resources (CPU, Memory, Virtual Interfaces) and, crucially, detaches the previous runtime configuration.
- \* Activate: Re-allocates the resources and injects the new configuration parameters (including the updated proxy settings) into the container's environment.
- \* Start: Initiates the container with the newly applied configuration.

Without the deactivate/activate sequence, the container will continue 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) is an unnecessary and time-consuming step that involves re-downloading or re-copying the image, while No action (Option D) will result in no change to the agent's connectivity status.

**NEW QUESTION # 74**

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