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Cisco Designing and Implementing Enterprise Network Assurance Sample Questions (Q37-Q42):

NEW QUESTION # 37

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

Answer: D

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 # 38

When selecting a Cisco network assurance platform, what factor should be prioritized for web-based applications?

- A. Network throughput
- B. Application scalability
- C. Server hardware
- **D. User experience**

Answer: D

Explanation:

For web-based applications, user experience should be prioritized when selecting a Cisco network assurance platform to ensure optimal performance and usability.

NEW QUESTION # 39

An architect needs to measure end-user experience for internal web applications and SaaS products. Which ThousandEyes agent should be deployed for this purpose?

- A. Synthetic Agent
- B. Cloud Agent
- **C. Endpoint Agent**
- D. Enterprise Agent

Answer: C

Explanation:

In the context of Designing and Implementing Enterprise Network Assurance (300-445 ENNA), measuring the "lived experience" of

an end-user requires data collection from the actual device being used to access the services. Unlike server-side or infrastructure-side monitoring, user experience (UX) monitoring must account for local variables like Wi-Fi signal quality, CPU/memory usage, and browser-level performance.

The Endpoint Agent (Option D) is the correct choice for this architecture. It is a lightweight software service installed directly on Windows or macOS workstations, as well as iOS devices. The Endpoint Agent provides a dual-monitoring approach: Real User Monitoring (RUM) and Scheduled Synthetic Tests.²⁴ RUM captures actual browser sessions to SaaS (e.g., Salesforce, Microsoft 365) or internal apps, providing a "Experience Score" and a detailed waterfall view of page load components.²⁵ Simultaneously, the agent can run background synthetic network tests to measure latency and path visualization from the user's specific location, whether they are in a branch office, at home on a VPN, or in a coffee shop.

Comparing other agents:

- * Enterprise Agents (Option B) can simulate a user at a branch office, but they cannot provide insight into the specific health of an individual's laptop or their unique Wi-Fi environment.

- * Cloud Agents (Option C) are entirely outside the user's network and cannot measure the performance of internal web applications or the "last mile" connectivity of the employee.

- * Synthetic Agent (Option A) remains a distractor term.

By deploying Endpoint Agents, the architect ensures they have granular, contextual data that correlates application performance directly with the user's device and local network environment.

NEW QUESTION # 40

You want to monitor Microsoft Teams using ThousandEyes endpoint agents. Which tests are available for this type of application monitoring?

- A. Scheduled and dynamic tests
- B. Scheduled tests
- C. Dynamic tests
- D. Scheduled, dynamic and real user tests

Answer: A

Explanation:

According to the Designing and Implementing Enterprise Network Assurance (300-445 ENNA) best practices for collaboration monitoring, Microsoft Teams (as well as Webex and Zoom) is monitored using a combination of Scheduled and Dynamic tests (Option D).

- * Scheduled Tests: These are used to proactively monitor the reachability and performance of the Microsoft Teams infrastructure.

The Teams template typically includes scheduled HTTP Server tests to `teams.microsoft.com` and `login.microsoftonline.com`, along with network-layer tests to the Teams Transport Relay (e.g., `worldaz.tr.teams.microsoft.com`). These provide a continuous baseline of connectivity regardless of whether a user is currently in a call.

- * Dynamic Tests: These are a unique feature for collaboration monitoring. When an Endpoint Agent detects that the Teams application has initiated a real-time media session (audio or video call), it automatically triggers a Dynamic Test to the specific IP and port being used for that call. This allows IT teams to see the exact network path—including hop-by-hop latency and loss—of the actual call traffic while the session is active.

Real User Tests (Option C) are generally not used for Teams monitoring in the same way they are for web-based SaaS apps.

Because most users utilize the Teams desktop client rather than the browser, the RUM browser extension cannot capture the rich telemetry of the desktop application's internal signaling and media streams. Therefore, the specialized "Automated Session Testing" provided by Dynamic Tests, combined with the proactive health checks of Scheduled Tests, constitutes the complete assurance strategy for Microsoft Teams.

NEW QUESTION # 41

Which authentication method is commonly used when testing web applications for performance and security?

- A. SNMP
- B. SSH
- C. OAuth
- D. FTP

Answer: C

Explanation:

OAuth is commonly used when testing web applications for performance and security, providing secure and standardized authentication mechanisms for user access.

NEW QUESTION # 42

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