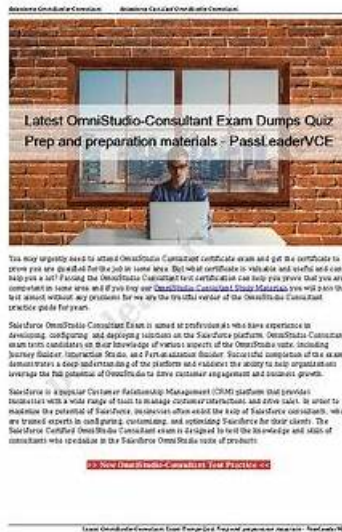


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Cisco 300-445 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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 3	<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.
Topic 4	<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.

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Cisco Designing and Implementing Enterprise Network Assurance Sample Questions (Q28-Q33):

NEW QUESTION # 28

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

Answer: C

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 # 29

What distinguishes passive monitoring from active monitoring in network assurance?

- A. Monitoring server logs
- B. Continuous probing of network devices
- C. Collection of historical data
- **D. Real-time analysis of network traffic**

Answer: D

Explanation:

Passive monitoring involves real-time analysis of network traffic, while active monitoring includes continuous probing of network devices to collect data in network assurance.

NEW QUESTION # 30

Which type of test are we using for these dashboards (Executive and IT Operations)?

- A. FTP
- B. Agent to server
- **C. Page Load**
- D. HTTP server

Answer: C

Explanation:

According to the Designing and Implementing Enterprise Network Assurance (300-445 ENNA) data analysis guidelines, identifying the underlying test type is the first step in interpreting a dashboard. By observing the metrics displayed across both the Executive and IT Operations dashboards, we can definitively identify the test type as Page Load (Option B).

A Page Load test is a Web-layer test that uses a browser engine (Chromium) to fully render a page and collect advanced metrics beyond simple availability. Evidence for this test type in the dashboards includes:

* Page Completion Time: Displayed on the Executive dashboard map, this metric is specific to how much of the page successfully rendered.

* DOM Load Time: Found in the IT Operations dashboard, the Document Object Model (DOM) time is a browser-centric metric that measures when the page structure has finished loading.

* Waterfall Charts: While not a specific answer option, these are the foundation of Page Load tests, allowing for the timing of individual web components.

Simple HTTP Server tests (Option A) only measure availability and response codes, missing the rendering metrics seen here. Agent to server (Option C) is a network-layer test that provides path visualization but no browser-level data. FTP (Option D) is a protocol-specific test not used for web application monitoring.

Therefore, the presence of DOM and Page Completion metrics confirms the Page Load test type.

NEW QUESTION # 31

What type of endpoint agent test will gather browser activity?

- A. Network Access tests
- **B. Real user tests**
- C. Dynamic tests
- D. Scheduled tests

Answer: B

Explanation:

The Designing and Implementing Enterprise Network Assurance (300-445 ENNA) curriculum identifies Real User Tests (RUM) as the primary method for capturing actual browser-based interactions. While synthetic tests provide proactive baselines, Real user tests (Option C) provide visibility into the "lived experience" of an employee as they navigate corporate websites and SaaS

platforms.

Real user tests utilize a lightweight browser extension (available for Chrome, Edge, and Safari) that is part of the Endpoint Agent deployment. When a user visits a domain defined in a

"Monitored Domain Set," the extension automatically begins recording performance metrics. This includes the time spent on each page, DNS resolution time, and a full browser waterfall of every object (images, scripts, CSS) loaded during the session. Crucially, it calculates an "Experience Score" for each session, allowing IT teams to identify if a user's frustration is caused by slow page rendering or underlying network issues.

NEW QUESTION # 32

Refer to the exhibit. A network admin has been tasked with monitoring the IPv6 record and name server resolution times with different agents. Select the two actions that the engineer must take to meet the requirements.

The screenshot shows the 'Basic Configuration' interface for monitoring. The 'Advanced Settings' tab is selected. The 'Domain' is 'internal-domain.com', the 'IN' dropdown is selected, and the 'A' dropdown is selected. The 'Interval' is '10 minutes'. The 'Agents' dropdown shows '1 of 8 selected'. The 'DNS Servers' field contains 'ns47.domaincontrol.com.' and '1 more', with a 'Lookup Servers' button. The 'Alerts' section has 'Enable' checked and '2 of 5 alert rules selected'.

- A. Create a DNS Server test monitoring the NS record
- B. Create a DNS Server test monitoring the AAAA record
- C. Create a DNS Server test monitoring the A record
- D. Create a DNS Trace test monitoring the ANY record
- E. Create a DNS Trace test monitoring the NS record

Answer: A,B

Explanation:

According to the Designing and Implementing Enterprise Network Assurance (300-445 ENNA) curriculum, DNS testing is a fundamental component of ensuring application availability and performance. The ThousandEyes platform provides two primary types of DNS tests: DNS Server and DNS Trace.

To satisfy the specific requirements of monitoring IPv6 records and name server resolution times, the engineer must utilize the DNS Server test. This test type is designed to measure the performance of specific DNS servers by querying them for particular resource records.

Monitoring IPv6 Records: In the DNS system, IPv6 address records are known as AAAA records.

Therefore, to monitor the availability and resolution of IPv6 addresses for a domain, the engineer must create a DNS Server test and set the query type to AAAA (Option B).

Monitoring Name Server Resolution Times: To measure how long it takes for a DNS server to return the authoritative name servers for a domain, the engineer must query for NS (Name Server) records. By creating a DNS Server test targeting the NS record (Option D), the platform can provide granular metrics on the response time and availability of those specific records from the perspective of the selected agents.

NEW QUESTION # 33

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