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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"> • 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 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"> • 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.

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2026 300-445 New APP Simulations: Designing and Implementing Enterprise

Network Assurance - The Best Cisco Exam 300-445 Guide

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Cisco Designing and Implementing Enterprise Network Assurance Sample Questions (Q43-Q48):

NEW QUESTION # 43

Which Thousand Eyes test is specifically designed to assess the performance of DNS resolution?

- A. DNS test
- B. Web test
- C. Voice test
- D. Network test

Answer: A

Explanation:

The DNS test in Thousand Eyes is specifically designed to assess the performance of DNS resolution, identifying latency and response time issues in network assurance.

NEW QUESTION # 44

Refer to the exhibit.

The screenshot shows the configuration interface for a network agent to server test. The settings are as follows:

- Target: 10.10.10.10
- Protocol: TCP
- Port: 80
- Probing Mode: Prefer SACK (selected), Force SACK, Force SYN
- Path Trace Mode: In Session
- Interval: 2 minutes
- Agents: Select agent(s)
- Alerts: Enable
- Alert Rules: 1 of 3 alert rules selected
- Edit Alert Rules button

Which setting should be enabled for this network Agent to Server test to avoid test traffic being detected by firewalls as malicious?

- A. Port: 5000
- B. Probing Mode: Force SYN
- C. Protocol: TCP
- D. Path Trace Mode: In Session

Answer: D

Explanation:

In the Designing and Implementing Enterprise Network Assurance (300-445 ENNA) architecture, a critical challenge in active synthetic monitoring is ensuring that test probes accurately reflect user traffic without being dropped by intermediate security appliances. Standard network tests often utilize separate connections for measuring performance metrics (latency/loss) and for path

discovery (hop-by-hop visualization). This behavior can be flagged by stateful firewalls or Intrusion Prevention Systems (IPS) as suspicious or malicious scanning activity.

To mitigate this, the engineer should enable Path Trace Mode: In Session (Option A). When this mode is active, ThousandEyes performs path discovery using the exact same TCP session established for the performance measurement. By embedding path discovery probes within an active, established session, the traffic appears to firewalls as part of a legitimate, ongoing communication stream rather than an independent series of probes with varying TTL values that might trigger "anti-spoofing" or "scanning" alerts.

Reviewing the alternative options:

* Protocol: TCP (Option B): While using TCP is generally more firewall-friendly than ICMP, the exhibit shows TCP is already selected. The issue is not the protocol itself, but how the path discovery probes are handled relative to the session.

* Port: 5000 (Option C): Changing the port to a non-standard value like 5000 often makes traffic more likely to be scrutinized or blocked by default firewall policies compared to standard web ports like 80.

* Probing Mode: Force SYN (Option D): Forcing SYN packets is a technique used to bypass certain types of load balancers but does not address the fundamental issue of path discovery probes being seen as a separate, malicious scan by stateful inspection engines.

Therefore, enabling In Session path trace mode is the most effective way to ensure consistent visibility through security-hardened environments.

NEW QUESTION # 45

What type of network issue can be diagnosed using collected data such as browser waterfalls?

- A. Hardware failures
- B. Software bugs
- C. Network congestion
- D. Web application performance issues

Answer: D

Explanation:

Web application performance issues can be diagnosed using collected data such as browser waterfalls, which provide insights into resource loading times and page rendering performance.

NEW QUESTION # 46

Which security issue affecting network performance can be identified using collected data in network assurance?

- A. Route leaking
- B. BGP hijacking
- C. SQL injection attacks
- D. DNS resolution failure

Answer: B

Explanation:

BGP hijacking is a security issue affecting network performance that can be identified using collected data in network assurance, enabling proactive threat mitigation.

NEW QUESTION # 47

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. 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
- C. Restart the container using app-hosting stop appid agentname followed by app-hosting start appid agentname
- D. Reinstall the agent using the app-hosting install command with the correct proxy settings

Answer: B

NEW QUESTION # 48

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