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Cisco 300-445 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 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"> • 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 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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Cisco Designing and Implementing Enterprise Network Assurance Sample Questions (Q30-Q35):

NEW QUESTION # 30

What is a primary advantage of passive monitoring over active monitoring?

- A. Passive monitoring can directly measure the performance of specific network services or protocols.
- B. Passive monitoring can measure the network's performance under synthetic conditions.
- C. Passive monitoring allows for the generation of test traffic to simulate user behavior.
- **D. Passive monitoring can provide real-time data on network performance without adding traffic to the network.**

Answer: D

Explanation:

In the Designing and Implementing Enterprise Network Assurance (300-445 ENNA) architecture, a critical design consideration is the impact of the monitoring solution on the production environment. The primary advantage of passive monitoring (Option B) is its non-intrusive nature; it provides insights into network performance and traffic composition without injecting additional "synthetic" overhead into the data plane.

Passive techniques—such as Cisco Meraki Insight (MI), NetFlow, and SNMP—rely on the telemetry generated by existing user traffic or the device's own control plane. For example, Meraki Insight analyzes HTTP/S flows as they naturally pass through a Meraki MX appliance to derive application performance scores, rather than sending separate probes.⁵ This ensures that the monitoring tool itself does not consume bandwidth or contribute to network congestion, which is particularly vital in bandwidth-constrained branch environments or on high-utilization links.

In contrast, active monitoring (Options A and C) requires the deliberate generation of synthetic traffic, which can potentially skew results if the volume is too high or if the network is already at capacity. While active monitoring is essential for proactive troubleshooting (measuring performance before users complain), passive monitoring is the preferred method for long-term historical analysis of real user experience and infrastructure utilization because it captures what is actually happening on the wire. Option D is a shared capability; both types can measure specific services, but only passive monitoring does so while remaining transparent to the network load. Therefore, the lack of added traffic is the definitive advantage of the passive approach.

NEW QUESTION # 31

What role does a scripting agent play in network assurance?

- A. Analyzing WAN performance
- **B. Conducting synthetic web tests**
- C. Collecting data from end-user devices
- D. Monitoring server logs

Answer: B

Explanation:

A scripting agent is responsible for conducting synthetic web tests, simulating user interactions to monitor web application performance in network assurance.

NEW QUESTION # 32

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

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

Answer: B

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 # 33

What distinguishes active monitoring from passive monitoring in network assurance?

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

Answer: D

Explanation:

Active monitoring involves actively probing network devices to collect real-time data, while passive monitoring observes network traffic passively without interacting with devices.

NEW QUESTION # 34

When determining the optimal location for deploying network agents, what factor is crucial for minimizing latency?

- A. Distance from the marketing department
- **B. Proximity to end-users**
- C. Availability of office amenities
- D. Accessibility to external vendors

Answer: B

Explanation:

Deploying network agents close to end-users minimizes latency and ensures efficient data collection.

NEW QUESTION # 35

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