

Pass Guaranteed 2026 High Hit-Rate 300-445: Designing and Implementing Enterprise Network Assurance Mock Test



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Cisco 300-445 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<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 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">• 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.

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

NEW QUESTION # 43

SNMP data indicates that a wireless access point is experiencing high channel utilization and increased retransmissions. What optimization would you recommend to improve voice call quality for users on this access point?

- A. Implement strict admission control for all wireless clients
- B. Increase the transmit power of the access point
- C. Change the access point to a different, less congested channel
- D. Disable all non-voice traffic on the wireless network

Answer: C

Explanation:

In wireless network assurance, high channel utilization and increased retransmissions are clear indicators of RF interference or over-subscription. Retransmissions are particularly damaging to voice call quality because they introduce significant jitter and late-arrival packet loss that the jitter buffer cannot overcome.

The recommended optimization is to change the access point to a different, less congested channel (Option B). This directly reduces the competition for airtime (Channel Utilization) and the likelihood of collisions from neighboring access points (Co-Channel Interference), which in turn lowers the retransmission rate.

Modern wireless controllers using Radio Resource Management (RRM) often automate this, but a manual adjustment based on SNMP telemetry is a valid operational fix.

Other options are technically flawed:

* Option A: Increasing transmit power often increases interference and channel utilization for surrounding cells, making the problem worse for everyone.

* Option C: Disabling all non-voice traffic is an extreme measure that is rarely feasible in a real business environment.

* Option D: Admission control limits the number of users but doesn't solve the underlying issue of poor channel health for those already connected.

NEW QUESTION # 44

When selecting a Cisco network assurance platform, what aspect should be primarily considered based on business requirements?

- A. Hardware compatibility
- B. Application communication
- C. Energy efficiency
- D. User interface design

Answer: B

Explanation:

When selecting a Cisco network assurance platform, it's essential to consider aspects such as application communication to ensure it aligns with business requirements and objectives.

NEW QUESTION # 45

You have been tasked with creating a dashboard in your organization's Observability platform. This dashboard should have data that is streamed in real-time and used to populate data for tables, graphs, charts, and other formats. What kind of integration should you use?

- A. API Endpoints
- B. Alert Thresholds
- C. OpenTelemetry
- D. DNA Center Integration

Answer: C

Explanation:

Within the Designing and Implementing Enterprise Network Assurance (300-445 ENNA) framework, the transition from "polling" to "streaming" is a major architectural shift. To populate real-time dashboards in external observability platforms like Grafana, Splunk, or AppDynamics, the architect should utilize the OpenTelemetry (OTel) integration (Option B).

ThousandEyes for OpenTelemetry is a push-based API built on the standardized OpenTelemetry Protocol (OTLP). Unlike traditional REST API polling (Option A), which retrieves data at fixed intervals and can be subject to rate limiting and latency, the OTel integration allows ThousandEyes to stream granular network metrics as they are collected. These metrics—including latency, loss, jitter, and HTTP response times—are exported in a standardized format that is natively understood by modern observability backends. This allows the platform to populate complex visualizations such as time-series graphs, heatmaps, and multi-metric tables in near real-time, providing a "single pane of glass" view that correlates network performance with application and infrastructure telemetry.

A key advantage of the OTel approach is data portability and correlation. By applying metadata tags to ThousandEyes tests, the data can be filtered and categorized within the external dashboard to match the organization's business logic (e.g., grouping by region or application tier). This enables SREs and NetOps teams to quickly identify if a performance dip in an application dashboard correlates with a spike in internet latency measured by ThousandEyes. Options C and D do not provide the streaming data pipeline required for real-time external dashboard population. Thus, OpenTelemetry is the definitive choice for high-fidelity, real-time observability integration.

NEW QUESTION # 46

Which agent type specializes in collecting data from remote network devices for analysis in network assurance?

- A. Synthetic user agent
- B. Scripting agent
- C. Local collection agent
- D. Remote management agent

Answer: D

Explanation:

A remote management agent specializes in collecting data from remote network devices for analysis in network assurance, facilitating centralized monitoring and management.

NEW QUESTION # 47

What feature does Thousand Eyes WAN Insights provide to enhance network troubleshooting?

- A. Machine learning algorithms
- B. End-to-end encryption
- C. Predictive analytics
- D. Real-time traffic visualization

Answer: D

Explanation:

WAN Insights offers real-time traffic visualization to facilitate network troubleshooting and performance optimization.

NEW QUESTION # 48

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