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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"> 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"> 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 (Q59-Q64):

NEW QUESTION # 59

Which deliverable is commonly recommended for IT operations teams to monitor network performance?

- A. Performance metrics
- B. Dashboards
- C. Alerts
- D. Reports

Answer: B

Explanation:

Dashboards are commonly recommended for IT operations teams to monitor network performance as they provide real-time visualizations of key performance indicators (KPIs), network status, and operational metrics, enabling proactive monitoring and rapid response to performance issues.

NEW QUESTION # 60

Which of the following is an example of active monitoring in network performance management?

- A. Capturing packets on a network segment to identify the top talkers
- B. Collecting NetFlow records to analyze traffic patterns over time
- C. Sending a continuous ping from one office to another to measure latency
- D. Analyzing SNMP data to observe interface utilization on a router

Answer: C

Explanation:

Within the framework of Designing and Implementing Enterprise Network Assurance (300-445 ENNA), network monitoring is categorized into two primary methodologies: active and passive monitoring. 1 Active monitoring (Option C) is characterized by the generation of synthetic or "probes" traffic specifically designed to measure network performance. 2 These probes simulate real-world user activity, such as HTTP requests, DNS queries, or ICMP pings, to baseline performance metrics like latency, jitter, and packet loss.

The core benefit of the active approach is its independence from actual user traffic. By sending a continuous ping or synthetic HTTP probe, an engineer can verify path availability and performance even during off-peak hours when no real users are on the network. In the context of Cisco ThousandEyes—a central platform in the ENNA certification—this is the primary mode of operation for Cloud, Enterprise, and Endpoint agents. For instance, a ThousandEyes network test proactively sends packets to a target IP or URL to visualize the hop-by-hop underlay and overlay paths.

Conversely, options A, B, and D represent passive monitoring techniques. Passive monitoring involves observing and analyzing traffic that is already traversing the network. 3 Methods such as SNMP (Option A) provide device-level health data like CPU load and interface utilization, while packet captures (Option B) and NetFlow (Option D) analyze the characteristics of existing user flows to determine top talkers or traffic patterns. While passive monitoring is excellent for volume and utilization analysis, it lacks the proactive capability to test a path's performance before a user encounters a failure. Therefore, sending a synthetic probe like a continuous ping is the definitive example of active monitoring.

NEW QUESTION # 61

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. Alert Thresholds
- B. API Endpoints
- 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 # 62

The following exhibit shows the Capacity Planning results for a router interface connected to an ISP, which provides a 1 Gbps connection. Based on the evidence, which action is most likely to fix the observed behavior?

- A. Request a link increase from the ISP
- **B. Reconfigure maximum capacity for the interface**
- C. Reconfigure business hours settings
- D. Restrict the Web Sites that can be visited from the site

Answer: B

Explanation:

In the context of Designing and Implementing Enterprise Network Assurance (300-445 ENNA), capacity planning requires accurate baselining of interface bandwidth against its theoretical and provisioned limits.

Analyzing Exhibit 4.5 Question 4 (image_79d4fc.jpg) reveals a significant discrepancy between the physical reality of the link and its configuration within the monitoring tool.

The exhibit displays a capacity planning dashboard with a calendar heatmap and traffic graphs. The heatmap for February through May shows a high frequency of "Severe" (red) utilization blocks. Looking at the Egress graph for Tue May 07 2024, the traffic spikes clearly exceed 40.0 Mbps. Crucially, the dashboard indicates an "Egress Capacity" of 49.5 Mbps and reports that the "Highest consumption" was 48.0 Mbps, representing 97% of the available bandwidth.

However, the question states that the ISP provides a 1 Gbps (1000 Mbps) connection. Since the actual traffic being sent is less than 50 Mbps, the link is nowhere near physical saturation. The "Severe" alerts and high utilization percentages are occurring only because the monitoring software (likely ThousandEyes or a similar NMS) is configured with a Maximum Capacity of only 49.5 Mbps for this interface. This misconfiguration causes the tool to calculate utilization based on a much smaller "pipe" than what actually exists, leading to false-positive alerts.

Therefore, the most likely action to fix this observed behavior is to reconfigure maximum capacity for the interface (Option B) to match the 1 Gbps specification.

* Option A is unnecessary because the current link is only being utilized at ~5% of its 1 Gbps potential.

* Option C is a restrictive policy change that is not justified given the actual available headroom.

* Option D might shift how data is displayed but will not fix the underlying mathematical error in utilization calculations.

NEW QUESTION # 63

A network administrator observes a recurring pattern in their Cisco SD-WAN: during peak business hours, users at a specific branch office experience poor voice call quality, characterized by choppy audio and delays.

6 The administrator suspects that network congestion is contributing to this issue and wants to leverage ThousandEyes WAN Insights to improve the situation proactively. Which capability of WAN Insights is most relevant to this scenario?

- A. Generating synthetic voice traffic to proactively test network paths and identify potential congestion points during peak hours. 8
- B. A set of network management tools that leverage SNMP and flow protocols into a single dashboard.
- **C. Analyzing historical SD-WAN performance data during peak hours and recommending alternative paths that prioritize voice traffic based on its SLA.**
- D. Providing real-time alerts on security threats targeting voice traffic within the SD-WAN. 9
- E. Monitoring the public internet paths to the voice call service provider and identifying outages or performance bottlenecks. 7

Answer: C

Explanation:

According to the Designing and Implementing Enterprise Network Assurance (300-445 ENNA) curriculum, ThousandEyes WAN Insights is a predictive analytics solution designed to transform network management from a reactive to a proactive model. 10 In the scenario provided, the voice quality issues are recurring and peak-hour dependent, indicating a need for optimization rather than just standard real-time alerting. 11 The most relevant capability for this scenario is analyzing historical SD-WAN performance data to generate path recommendations (Option C). WAN Insights integrates with Cisco Catalyst SD-WAN Manager (vManage) and vAnalytics to ingest massive volumes of telemetry. 12 It uses advanced statistical models to analyze the performance of all active

circuits (MPLS, Internet, etc.) over time. If the system identifies that a different available path consistently delivers a higher Quality of Experience (QoE) or better adherence to the voice SLA during those peak windows, it generates a recommendation to adjust the Application-Aware Routing (AAR) policy. 1314 This predictive approach allows the administrator to fine-tune network policies in advance, ensuring that sensitive traffic like voice is automatically rerouted to the most stable path before the congestion impacts the users. Option A describes standard ThousandEyes synthetic testing, while Option C is incorrect because WAN Insights specifically uses existing SD-WAN telemetry rather than generating its own synthetic voice probes. Option D and E describe general NMS or security features not specific to WAN Insights' predictive mission. Thus, the proactive recommendation of alternative paths based on historical SLA adherence is the core function of WAN Insights for improving voice quality. 171819

NEW QUESTION # 64

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