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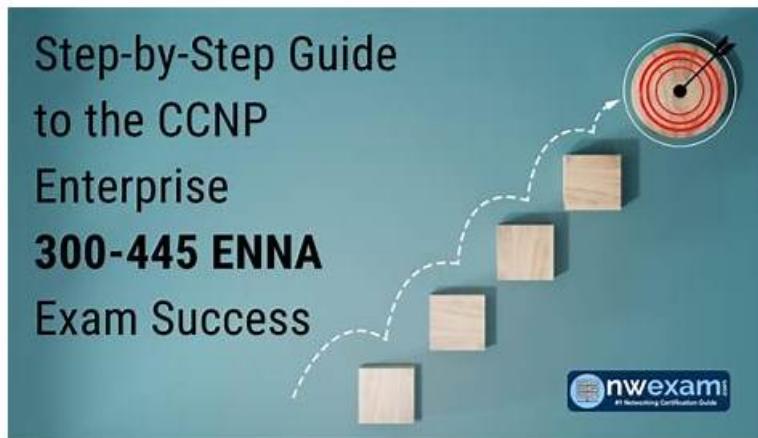
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Cisco 300-445 Exam Syllabus Topics:

Topic	Details
Topic 1	• 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	• 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	• 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 4	• 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.

Cisco Designing and Implementing Enterprise Network Assurance Sample Questions (Q20-Q25):

NEW QUESTION # 20
Why might an organization choose digest over basic authentication when configuring tests?
(Choose Two)

- A. Digest requires less configuration on the client side.
- B. Digest does not transmit passwords in clear text.
- C. Digest provides a higher level of security than basic authentication.
- D. Digest offers better performance under load.

Answer: B,C

NEW QUESTION # 21
An engineer deployed a Cisco ThousandEyes Enterprise Agent on a Meraki MX to monitor a critical SaaS application. Which kind of monitoring has the engineer set up?

- A. active monitoring
- B. passive monitoring
- C. server monitoring
- D. agentless monitoring

Answer: A

Explanation:
In theDesigning and Implementing Enterprise Network Assurance (300-445 ENNA)curriculum, understanding the distinction between different monitoring methodologies is fundamental to architecting an effective assurance strategy. When an engineer deploys aThousandEyes Enterprise Agenton a Meraki MX appliance, they are implementingactive monitoring.
Active monitoring, as defined in standard network assurance frameworks like RFC 7799, involves the generation of synthetic traffic or "probes" that are sent across the network to a specific destination. These probes, which can utilize protocols such as ICMP, TCP, or HTTP/S, simulate real user transactions to measure performance metrics including latency, packet loss, jitter, and path visualization. The Enterprise Agent acts as a dedicated vantage point, executing these tests at scheduled intervals to provide a proactive baseline of network and application health. This allows the engineer to identify performance degradation or outages even when no real users are actively using the application, ensuring that issues are detected before they impact the business.
It is important to contrast this withpassive monitoring(Option B). In the Meraki ecosystem,Meraki Insight (MI)natively performs passive monitoring by observing and analyzing actual user traffic flows (HTTP/S data) as they traverse the MX appliance without injecting additional traffic. While passive monitoring is excellent for understanding real-world user experience and server response times, it relies on existing traffic and cannot provide hop-by-hop path visualization across the Internet in the same way active synthetic probing does.
By integrating the ThousandEyes Enterprise Agent-which runs as a containerized service within the MX architecture-the engineer gains the benefits of active monitoring directly from the branch edge. This eliminates the need for separate hardware and provides deep, "outside-in" and "inside-out" visibility into SaaS application performance. Therefore, the deployment of a ThousandEyes agent explicitly enablesactive monitoring(Option A) to supplement the native passive capabilities of the Meraki platform.

NEW QUESTION # 22

The alert shown in the exhibit is designed to detect which of the following network security issues?

- A. DNS hijacking
- B. DNS poisoning
- C. Route poisoning
- D. BGP hijacking

Answer: D

Explanation:
As shown inExhibit 4.1-1(image_6e19fb.png), the alert rule is configured for the BGP layer with the name
"AS origin AS 1234". The critical logic is defined in theAlert Conditionssection, which specifies: BGP Origin meets all of: ASN not in 1234.
This specific configuration is the standard method used in ThousandEyes to detectBGP hijacking(Option C).
BGP hijacking occurs when an unauthorized Autonomous System (AS) announces a network prefix that it does not own, effectively stealing the traffic meant for the legitimate owner. By setting an alert that triggers when a monitored prefix is seen originating from an Autonomous System Number (ASN) that isnotthe expected authorized ASN (in this case, AS 1234), ThousandEyes provides immediate notification of a routing takeover.
Identifying this via BGP Origin alerts is superior to simple connectivity checks because it catches the issue at the routing control plane.
* DNS Issues (Options B and D):These involve the translation of names to IPs and would be detected via DNS-specific tests rather than BGP Origin checks.
* Route Poisoning (Option A):This is a generic term often referring to the manipulation of distance- vector protocol metrics to make a route unreachable; while related to routing, BGP Origin checks are the specific tool for detecting external prefix hijacks.
By monitoring the ASN origin, network engineers can quickly distinguish between a local ISP outage and a global security event where their traffic is being misdirected to an illegitimate network.

NEW QUESTION # 23
What is a key consideration when configuring network tests using Thousand Eyes and Meraki Insights?

- A. Ensuring data encryption
- B. Minimizing latency
- C. Analyzing server logs
- D. Maximizing server uptime

Answer: B

Explanation:
A key consideration when configuring network tests is minimizing latency to ensure accurate performance measurement and analysis in network assurance.

NEW QUESTION # 24
You're analyzing NetFlow data for a network supporting voice and video traffic. The data shows consistent spikes in delay and jitter during peak hours. Which optimization would you recommend?

- A. Increase bandwidth on all network links
- B. Implement a complete QoS redesign
- C. Replace all network hardware with newer models
- D. Tune the existing QoS configuration to prioritize voice and video traffic

Answer: D

Explanation:
In theDesigning and Implementing Enterprise Network Assurance (300-445 ENNA)curriculum, capacity planning and optimization are driven by telemetry data such as NetFlow. When NetFlow identifies that delay and jitter-metrics highly impactful to real-time traffic-spike during peak hours, it indicates that high- priority packets are competing for resources with bulk data.
The most appropriate recommendation is totune the existing QoS configuration(Option C). This involves adjusting the Queuing and Scheduling policies on the routers to ensure that voice and video traffic (typically marked with EF and AF41/AF42 DSCP values) is serviced before other traffic classes during periods of congestion. This solution is targeted, cost-effective, and directly addresses the

observed jitter issues without the need for massive capital expenditure.
Reviewing other options:
* Option A:A complete QoS redesign is often unnecessary and too invasive for solving peak-hour jitter if a basic QoS framework is already in place.
* Option B:Increasing bandwidth on "all" links is a "brute force" approach that is expensive and fails to address the underlying problem of traffic prioritization.
* Option D:Hardware replacement is a last resort and would not resolve delay/jitter if the new hardware still lacks a properly tuned QoS policy.

NEW QUESTION # 25

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