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Cisco 300-445 Exam Syllabus Topics:

Topic	Details
Topic 1	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	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	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	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.

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Cisco Designing and Implementing Enterprise Network Assurance Sample Questions (Q91-Q96):

NEW QUESTION # 91

What type of network issue can cause intermittent connectivity problems for end devices?

- A. DNS cache poisoning
- **B. Routing errors**
- C. DHCP lease expirations
- D. SSL certificate expirations

Answer: B

Explanation:

Routing errors can cause intermittent connectivity problems for end devices by disrupting the flow of network traffic between different network segments.

NEW QUESTION # 92

Refer to the exhibit. An engineer configures an alert in Cisco Meraki to send an email when the Wi-Fi data quota usage exceeds 300 MB. Which user will generate this alert?



Status	Description	First Seen	IPv4 address	MAC address	Client Type	Connected To	Capabilities	Adaptive Policy Group	VLAN	Usage
✓	Troy Underbridge	Oct 19 03:53	172.17.30.110	80:a4:60:44:3a:f9	Windows 10	BRANCH-LON-108-MR31	802.11ac - 2.4 and 5 GHz	LON-11:dat-Radius	25	225.0 MB
✓	Ben Nugent	Oct 19 02:54	172.17.30.109	18:26:49:08:20:73	Windows 10	BRANCH-LON-108-MR31	802.11ac - 2.4 and 5 GHz	LON-08:MerakiHealth...	10	302.8 MB
✓	Martin Nash	Nov 28 08:58	172.17.30.103	80:a4:60:40:dc:ba	Other	BRANCH-LON-108-MR31	802.11ac - 2.4 and 5 GHz	LON-04	40	2.5 MB
✓	Dan Gore	Nov 28 07:42	172.17.30.115	80:a4:60:43:40:5d	Windows 10	BRANCH-LON-108-MR31	802.11ac - 2.4 and 5 GHz	LON-06	10	2.3 MB
✓	Troy Nash	Sep 21 18:04	172.17.30.120	00:c8:39:d1:08:de	Windows 10	BRANCH-LON-MDF1.3-M5350-24			10	431.8 MB
✓	Ed Truck	Mar 9 23:33	172.17.40.6	70:88:6b:83:57:3c	Other	BRANCH-LON-MDF1.3-M5350-24		DAC:Cloud Radius	40	244.8 MB
✓	Hannah Smoterich	Sep 25 19:46	172.17.25.63	00:c8:39:d1:08:cb	Other	BRANCH-LON-MDF1.3-M5350-24P		MR-Client-Vlan25	25	429.3 MB
✓	DESKTOP-SFIO8TC	Sep 7 18:25	172.17.30.117	00:c8:39:d1:08:73	Other	BRANCH-LON-MDF1.3-M5350-24			10	161.1 MB

- A. Troy Underbridge
- **B. Troy Nash**
- C. Hannah Smoterich
- D. Ben Nugent

Answer: D

Explanation:

The alert triggers when Wi-Fi data usage exceeds 300 MB.

In the Meraki client table, Ben Nugent shows 302.8 MB, which is the only value above the 300 MB threshold, so he generates the alert.

NEW QUESTION # 93

Refer to the exhibit.

Target: 10.10.10.10

Protocol: TCP Port: 80

Probing Mode: **Prefer SACK** Force SACK Force SYN

Path Trace Mode: ☐ In Session

Interval: 2 minutes

Agents: Select agent(s)

Alerts: ☒ Enable

1 of 3 alert rules selected Edit Alert Rules

CISCO

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

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

Answer: B

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 # 94

Refer to the exhibit. Cisco ThousandEyes sent an alert that the bank website cannot be loaded in 10 seconds from the Sydney Cloud agent. What is the root cause of the website outage?



Agent	Date (UTC)	Chromium Version	Page Size	Components	DOM Load Time	Page Load Time
London, England	2020-04-08 08:14:44	unknown	2 MB	28	1659 ms	2285 ms
Los Angeles, CA	2020-04-08 08:14:37	unknown	2 MB	28	957 ms	2491 ms
Sydney, Australia	2020-04-08 08:14:28	unknown	2 MB	24	2603 ms	---
Dallas, TX	2020-04-08 08:14:22	unknown	2 MB	28	1813 ms	2586 ms
Tokyo, Japan	2020-04-08 08:14:21	unknown	2 MB	28	793 ms	3090 ms
São Paulo, Brazil	2020-04-08 08:14:20	unknown	2 MB	28	1615 ms	4104 ms



- A. The login.html object is not available on the HTTP server.
- B. A bandwidth issue occurred between the Sydney Cloud agent and the bank website.
- C. A CPU saturation issue occurred on the Sydney Cloud agent.
- D. An infinite HTTP 302 redirect loop occurred when loading the Frutiger font object.

Answer: B

Explanation:

From the waterfall view, the critical delay occurs during the Receive phase of the large neo_background.jpg object:

- Receive time: 6472 ms
- Total load time: 7405 ms
- DNS, Connect, SSL, and Send times are normal.

A long Receive time indicates slow data transfer, not redirects, CPU issues, or missing objects.

This conclusively points to bandwidth throughput problems on the path between the Sydney Cloud agent and the bank site.

NEW QUESTION # 95

When selecting a Cisco network assurance platform, what aspect should be prioritized for application communication?

- A. User experience

- B. Network throughput
- C. Scalability
- D. Server hardware

Answer: A

Explanation:

For application communication, user experience should be prioritized when selecting a Cisco network assurance platform to ensure optimal performance and usability in network assurance.

NEW QUESTION # 96

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