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Designing and Implementing Enterprise Network Assurance v1.0 (300-445)

Exam Description: Designing and Implementing Enterprise Network Assurance v1.0 (ENNA 300-445) is a 90-minute exam associated with the CCNP Enterprise Certification. This exam certifies a candidate's knowledge of network assurance design and implementation, including platforms and architecture, data collection and implementation, data analysis, and insights and alerts.

The following topics are general guidelines for the content likely to be included on the exam. However, other related topics may also appear on any specific delivery of the exam. To better reflect the contents of the exam and for clarity purposes, the guidelines below may change at any time without notice.

- 20% 1.0 Platforms and Architecture**
 - 1.1 Determine agent types, such as synthetic user agent, scripting agent, and local collection agent to meet network assurance and security requirements
 - 1.2 Determine agent location to meet network assurance and security requirements
 - 1.3 Describe active and passive monitoring (RFC 7276 and RFC 7799)
 - 1.4 Describe ThousandEyes WAN Insights
 - 1.5 Describe the integration between Cisco technologies, such as ThousandEyes, vManage, Cisco Catalyst Manager, Webex Control Hub, Meraki, and Endpoint Agent deployment through Secure Client
 - 1.6 Describe setting a metric baseline
 - 1.7 Select the integration type, such as API, alerting thresholds, open telemetry, and ITSM for the requested data
 - 1.8 Select a Cisco network assurance platform based on business requirements, such as application communication, user experience, web, and events
- 25% 2.0 Data Collection Implementation**
 - 2.1 Configure enterprise agent on application servers and network infrastructure devices, including dedicated devices
 - 2.2 Describe endpoint agent deployment at scale across the enterprise on end-user devices (Windows, Mac, and Room OS)
 - 2.3 Configure tests using tools, such as ThousandEyes and Meraki Insights
 - 2.3.a Network such as TCP/UDP, network characteristics, loss, jitter, and latency
 - 2.3.b DNS
 - 2.3.c Voice
 - 2.3.d Web
 - 2.4 Configure endpoint agent tests in ThousandEyes

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Cisco 300-445 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 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"> • 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 (Q42-Q47):

NEW QUESTION # 42

What is the primary purpose of integrating Cisco Catalyst Manager with other Cisco technologies?

- A. Optimizing WAN performance
- B. Enhancing network security
- C. Streamlining network provisioning
- **D. Centralizing device management**

Answer: D

Explanation:

The primary purpose of integrating Cisco Catalyst Manager is to centralize device management, enabling efficient configuration and monitoring of network devices in network assurance.

NEW QUESTION # 43

What type of data does ThousandEyes use to diagnose when integrated with Cisco Secure Client?

- A. Data related to secure web gateway performance
- B. Data related to user activity and behavior
- **C. Network performance data from the user's device**
- D. Data related to network hardware configurations

Answer: C

Explanation:

Under the Designing and Implementing Enterprise Network Assurance (300-445 ENNA) guidelines, the integration between ThousandEyes and Cisco Secure Client (formerly AnyConnect) is designed to provide visibility into the hybrid workforce experience. The integration primarily leverages network performance data from the user's device (Option C) to diagnose connectivity and application issues.

This data is collected by the ThousandEyes Endpoint Agent, which is deployed as a module within the Cisco Secure Client. The agent captures real-time telemetry from the user's laptop or workstation, including Wi-Fi signal strength, CPU and memory utilization, and local network gateway latency. Specifically, for remote users, it monitors the health of the VPN tunnel and the performance of applications as seen from the end-user's vantage point.

When a user reports a "slow application," this integrated telemetry allows IT teams to determine if the root cause is the user's home Wi-Fi, a saturated VPN concentrator, or an issue within the ISP underlay. The agent performs Automated Session Testing (AST),

which maps the network path as soon as a user joins a critical meeting or accesses a SaaS tool, providing a granular view of every hop between the device and the service destination. Unlike hardware configuration data (Option A) or behavioral analytics (Option B), the focus here is strictly on the network performance metrics that impact digital experience. Therefore, the collection of device-centric network performance data is the core function of the Cisco Secure Client and ThousandEyes integration.

NEW QUESTION # 44

Which metric is recommended for dashboard deliverables for IT operations based on network assurance data interpretation?

- A. Packet loss rate
- **B. Application latency**
- C. Bandwidth utilization
- D. Server uptime

Answer: B

Explanation:

Application latency is a recommended metric for dashboard deliverables for IT operations, providing insights into application performance and user experience in network assurance.

NEW QUESTION # 45

When selecting a Cisco network assurance platform, what factor should be prioritized for efficient network troubleshooting?

- A. Customer testimonials
- **B. Alerting mechanisms**
- C. Network aesthetics
- D. Historical data storage

Answer: B

Explanation:

Prioritizing alerting mechanisms is crucial when selecting a Cisco network assurance platform for efficient network troubleshooting and issue resolution.

NEW QUESTION # 46

Refer to the exhibit.

□ An engineer is tasked with configuring a new test to monitor a web application from the employee's point of view. What two actions should be taken to fulfill the requirement?

- **A. Create a new custom application monitor**
- B. Create a new google suite monitor
- C. Add a new dynamic test to the monitor
- **D. Add a new scheduled test to the monitor**
- E. Add a new test template

Answer: A,D

Explanation:

In the Designing and Implementing Enterprise Network Assurance (300-445 ENNA) curriculum, monitoring the digital experience of internal employees requires leveraging ThousandEyes Endpoint Agents to simulate or record traffic from the user's specific vantage point. When an engineer needs to monitor a specific, potentially internal or non-standard web application, they must utilize the Custom Application workflow within the Endpoint Experience settings.

According to the ENNA implementation standards, the first necessary action is to Create a new custom application monitor (Option A). In the ThousandEyes portal under Endpoint Experience > Test Settings > Synthetic Tests, the "Monitor Application" button provides access to pre-defined templates for popular services like Microsoft 365 or Webex. However, for a unique enterprise application, the engineer must select

"Custom Application" to define the application's identity, including its name and the relevant domain or URL.

The second required action is to Add a new scheduled test to the monitor (Option C). Endpoint Agents perform Scheduled Tests at

By adding a scheduled HTTP Server or Network test to the custom monitor, the engineer ensures a consistent baseline of the application's performance as seen from the employee's machine.

* Google Suite monitor (Option B): This is a specific template for Google Workspace and is not suitable for a custom application.

* Test Template (Option E): While all monitors are based on templates, "adding a new template" is not a configuration action but rather a result of the monitoring setup.

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