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Cisco 300-445 Exam Overview:

Certification Vendor:	Cisco
Exam Name:	Designing and Implementing Enterprise Network Assurance (ENAUTO)
Exam Number:	300-445
Exam Duration:	90 minutes
Available Languages:	Japanese, Simplified Chinese, English
Exam Format:	Simulation-based questions, Multiple response, Multiple choice, Drag and drop

Real Exam Qty:	Approximately 55–65 questions
Exam Price:	USD 300 (may vary by region)
Related Certifications:	Cisco Certified Specialist - Enterprise Network Assurance CCNP Enterprise
Passing Score:	Cisco does not publish an official passing score; typically a scaled score around 750/1000 is required
Certificate Validity Period:	3 years
Recommended Training:	Cisco DNA Center and Assurance Learning Resources Cisco Enterprise Network Assurance Training
Exam Registration:	Cisco Certification Exam Registration Pearson VUE Cisco Exams
Sample Questions:	Cisco 300-445 Sample Questions
Exam Way:	Online proctored or testing center (Pearson VUE)
Pre Condition:	No formal prerequisite, but Cisco recommends CCNA-level knowledge and experience with enterprise networking and monitoring tools
Official Syllabus URL:	https://www.cisco.com/c/en/us/training-events/training-certifications/exams.html

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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	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 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	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.

Cisco Designing and Implementing Enterprise Network Assurance Sample Questions (Q82-Q87):

NEW QUESTION # 82

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

Answer: E

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. 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.

The most relevant capability for this scenario is analyzing historical SD-WAN performance data to generate path recommendations (Option B). WAN Insights integrates with Cisco Catalyst SD-WAN Manager (vManage) and vAnalytics to ingest massive volumes of telemetry. 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.

NEW QUESTION # 83

What is the purpose of synthetic web tests in network assurance?

- A. Monitoring server hardware performance
- B. Analyzing network infrastructure
- C. Detecting cybersecurity threats
- **D. Simulating user interactions with web applications**

Answer: D

Explanation:

Synthetic web tests are used to simulate user interactions with web applications, allowing network administrators to proactively monitor and evaluate web application performance and responsiveness from various locations.

NEW QUESTION # 84

Drag and Drop Question

Drag and drop the commands from the bottom onto the boxes in the configuration to modify the DNS servers on an Enterprise Agent running on a Cisco Catalyst 9300 Switch.

Answer Area

```
cat9k#app-hosting [ ] appid thousandeyes_agent
cat9k#app-hosting [ ] appid thousandeyes_agent
cat9k(config)#app-hosting appid thousandeyes_agent
cat9k(config-app-hosting)#app-resource docker
cat9k(config-app-hosting)#prepend-pkg-opts
cat9k(config-app-hosting-docker)#name-server0 <new-DNS-server>
cat9k#app-hosting [ ] appid thousandeyes_agent
cat9k#app-hosting [ ] appid thousandeyes_agent
```

start

deactivate

activate

stop

Answer:

Explanation:

Answer Area

```
cat9k#app-hosting deactivate appid thousandeyes_agent
cat9k#app-hosting stop appid thousandeyes_agent
cat9k(config)#app-hosting appid thousandeyes_agent
cat9k(config-app-hosting)#app-resource docker
cat9k(config-app-hosting)#prepend-pkg-opts
cat9k(config-app-hosting-docker)#name-server0 <new-DNS-server>
cat9k#app-hosting start appid thousandeyes_agent
cat9k#app-hosting activate appid thousandeyes_agent
```

Explanation:

Modifying DNS settings for an Enterprise Agent running in App-Hosting on a Catalyst 9300 requires shutting down the running container before applying changes and then restarting it.

- deactivate removes the running application from service.
- stop halts the container so configuration changes (such as new DNS servers) can be applied.
- start brings the container back up after the configuration update.
- activate enables the application, allowing the Enterprise Agent to resume operation with the updated DNS configuration.

NEW QUESTION # 85

What is the purpose of validating alert configuration and functionality in network assurance?

- A. Ensuring compliance with standards
- B. Testing network performance
- C. Benchmarking against competitors

- **D. Identifying false positives**

Answer: D

Explanation:

Validating alert configuration and functionality helps in identifying false positives and ensuring accurate alerting for efficient incident response in network assurance.

NEW QUESTION # 86

A network engineer is investigating widespread reports of poor performance for a data center-hosted web application. Which ThousandEyes agent type would be most effective for quickly identifying the root cause?

- A. Enterprise Agent
- **B. Cloud Agent**
- C. Synthetic Agent
- D. Endpoint Agent

Answer: B

Explanation:

According to the Designing and Implementing Enterprise Network Assurance (300-445 ENNA) guidelines, troubleshooting widespread performance issues for a public or data center-hosted application requires an "outside-in" perspective. When reports are widespread, the goal is to determine if the issue is global, regional, or specific to certain ISP paths leading to the data center.

The Cloud Agent (Option D) is the most effective tool for this task because these agents are maintained by Cisco ThousandEyes in over 240+ locations worldwide within Tier 1, 2, and 3 ISPs and cloud provider regions. Because they are pre-deployed and immediately available, a network engineer can instantly run tests from multiple global locations toward the data center-hosted application without having to install any software or manage any infrastructure. This allows the engineer to quickly compare performance metrics (latency, loss, and page load times) across different geographies. If Cloud Agents in London report no issues while those in New York report high packet loss, the engineer can immediately pinpoint the root cause as a regional ISP or peering issue rather than a failure within the data center itself.

* Enterprise Agent (Option B): While these could be used if they were already installed in various branch offices, they require ownership of the infrastructure and deployment time. They are better suited for "inside-out" monitoring.

* Endpoint Agent (Option C): These are useful for troubleshooting individual user experience but are not the "quickest" way to baseline global performance against a data center application during a widespread event.

* Synthetic Agent (Option A): As noted previously, this is a generic term describing the underlying technology used by all ThousandEyes agent types.

Therefore, Cloud Agents provide the necessary breadth and immediate availability to perform rapid root cause analysis for widespread application performance issues.

NEW QUESTION # 87

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