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## Cisco ENNA 300-445 Certification Study Guide

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## Cisco Designing and Implementing Enterprise Network Assurance Sample Questions (Q15-Q20):

### NEW QUESTION # 15

An architect needs to analyze network path metrics from their internal network, specifically from the access layer to a cloud-hosted web server.<sup>1</sup> Which ThousandEyes agent is most appropriate for this task?

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

**Answer: A**

Explanation:

In the framework of Designing and Implementing Enterprise Network Assurance (300-445 ENNA), selecting the correct agent type depends heavily on the vantage point required for the specific observation. For this scenario, the architect must collect metrics from the internal network access layer-the point closest to where the users or devices reside within the corporate perimeter-towards a cloud-hosted destination.

The Enterprise Agent (Option B) is the most appropriate choice because it is specifically designed to be deployed on infrastructure owned and managed by the organization. These agents are "inside-out" vantage points that can be installed directly on Cisco Catalyst 9300 or 9400 Series switches at the access layer using Docker containers. By deploying an Enterprise Agent at the access layer, the architect gains visibility into the entire network path, starting from the internal LAN, traversing the edge/WAN, and reaching into the cloud-hosted web server. This allows for the identification of issues such as local congestion, ISP peering problems, or cloud provider latency.

Other options do not meet the criteria:

\* Synthetic Agent (Option A): This is a distractor term. All ThousandEyes agents (Cloud, Enterprise, and Endpoint) are synthetic agents because they all perform active synthetic testing.

\* Cloud Agent (Option C): These are pre-deployed by Cisco in global ISP data centers and provide an "outside-in" view.<sup>14</sup> While useful for monitoring public-facing availability, they cannot provide visibility into the internal network or the access layer of the organization.

\* Endpoint Agent (Option D): While these are installed on end-user machines and provide a "user-centric" view, they are generally not used for infrastructure-level path analysis from the access layer switches themselves.

Thus, the Enterprise Agent is the definitive choice for monitoring from the access layer to the cloud.

### NEW QUESTION # 16

Which deliverables are recommended for app/dev teams based on network assurance data interpretation?

- **A. API usage statistics**
- B. Latency analysis reports
- C. Network topology diagrams
- **D. Performance dashboards**
- **E. Application performance reports**
- F. Security incident reports

**Answer: A,D,E**

Explanation:

Performance dashboards, application performance reports, and API usage statistics are recommended deliverables for app/dev teams based on network assurance data interpretation, providing insights for optimizing application performance and user experience.

### NEW QUESTION # 17

Which integration type facilitates the exchange of network data between Cisco technologies and external monitoring tools?

- **A. API**
- B. SMTP
- C. Syslog

- D. SNMP

**Answer: A**

Explanation:

API (Application Programming Interface) facilitates the exchange of network data between Cisco technologies and external monitoring tools by providing a standardized method for data communication and interoperability, enabling seamless integration and automation of monitoring processes to enhance network visibility and management.

### NEW QUESTION # 18

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

**Answer: A**

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 A) 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 # 19

Which deployment option should a network administrator use to deploy the ThousandEyes Endpoint Agent to all users on their internal domain using a Microsoft Domain Controller?

- A. JAMF
- B. Microsoft Intune
- C. Power Shell
- D. Group Policy Objects

**Answer: D**

Explanation:

For the Designing and Implementing Enterprise Network Assurance (300-445 ENNA) exam, understanding enterprise-scale deployment of the Endpoint Agent (EPA) is vital for ensuring comprehensive user-centric visibility. When an organization utilizes a Microsoft Domain Controller to manage its internal domain, the standard mechanism for automated software distribution is Group Policy Objects (GPOs) (Option D).

Deploying the ThousandEyes Endpoint Agent via GPO allows a network administrator to push the .msi installer package to all Windows-based workstations joined to the domain. This method is highly effective for large-scale environments because it ensures

that the agent is installed automatically upon machine startup or user login, without requiring manual intervention from the end-user or the IT staff at each individual machine.

The GPO can be configured to perform a "silent installation," which runs in the background, ensuring a seamless experience for the employees while providing the IT team with the necessary performance metrics.

While Microsoft Intune (Option A) is a modern cloud-based endpoint management solution, the question specifically references a Microsoft Domain Controller, making GPO the most direct and traditional choice for that specific infrastructure. JAMF (Option C) is specifically for Apple (macOS/iOS) device management and would not be used for a Windows domain deployment. PowerShell (Option D) can be used for scripting, but it lacks the centralized policy enforcement and automatic compliance checking provided by GPOs in an Active Directory environment. Therefore, Group Policy Objects is the verified deployment method for this scenario.

## NEW QUESTION # 20

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