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### Cisco 300-445 Exam Syllabus Topics:

Topic	Details

Topic 1	<ul style="list-style-type: none"> <li>• 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.</li> </ul>
Topic 2	<ul style="list-style-type: none"> <li>• 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.</li> </ul>
Topic 3	<ul style="list-style-type: none"> <li>• 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.</li> </ul>
Topic 4	<ul style="list-style-type: none"> <li>• 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.</li> </ul>

## Cisco Designing and Implementing Enterprise Network Assurance Sample Questions (Q52-Q57):

### NEW QUESTION # 52

What advantage does the integration of ThousandEyes with Cisco technologies offer for troubleshooting?

- A. It allows for quick identification and resolution of performance issues. 11
- B. It eliminates the need for manual data entry.
- C. It provides real-time virtual assistance to end-users.
- D. It automates network configuration changes based on user feedback.

**Answer: A**

Explanation:

The Designing and Implementing Enterprise Network Assurance (300-445 ENNA) certification emphasizes that the primary value proposition of the Cisco "Assurance Stack" is the reduction of Mean Time to Identification (MTTI) and Mean Time to Resolution (MTTR). The integration of ThousandEyes across Cisco's portfolio—including Catalyst, Meraki, and SD-WAN—allows for quick identification and resolution of performance issues (Option D).<sup>12</sup> By embedding ThousandEyes agents into the existing network infrastructure, Cisco enables "end-to-end visibility" that spans domains the enterprise traditionally does not control, such as the public internet and SaaS environments.<sup>13</sup> During troubleshooting, this cross-platform visibility allows network engineers to immediately correlate internal network health (from Catalyst Center or Meraki Dashboard) with external path visualization (from ThousandEyes). For example, when a user experiences poor video quality in a Webex meeting, the integration allows the engineer to "cross-launch" from the Webex Control Hub directly into a ThousandEyes path view.<sup>14</sup> This pinpoint accuracy avoids the "blame game" between network, application, and ISP teams by providing a "single source of truth" regarding where the packet loss or latency is occurring. While some automation exists (Option C), the core benefit isn't automatic configuration changes based on feedback, but rather providing the actionable insights required for manual or policy-based remediation. Similarly, while it streamlines data gathering, its ultimate purpose is the speed of resolution in complex, hybrid environments.

### NEW QUESTION # 53

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

**Answer: A**

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 B).

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 # 54

Refer to Exhibit:

A network engineer is deploying a Cisco ThousandEyes agent to monitor the network for a SaaS application without affecting the performance of the employee endpoints. Which ThousandEyes agent must be deployed to obtain the network metrics from branch A?

- A. Enterprise Agent
- B. Cloud Agent
- C. Application Agent
- D. Endpoint Agent

**Answer: A**

Explanation:

In the framework of Designing and Implementing Enterprise Network Assurance (300-445 ENNA), selecting the appropriate ThousandEyes agent type is critical to balancing visibility requirements with infrastructure constraints. For Branch A, the primary objective is to gain network-layer metrics (such as latency, packet loss, and jitter) and path visualization for a SaaS application while strictly avoiding any performance impact on employee endpoints.

The Enterprise Agent (Option C) is the correct choice because it is designed for "inside-out" monitoring from within the corporate network environment. These agents are lightweight software probes that can be deployed on existing network infrastructure, such as Cisco Catalyst 9300/9400 switches or Catalyst 8000 Edge Platforms, using Docker containers or virtual machines. By hosting the agent on the branch router or a dedicated local server, the engineer can execute synthetic tests to the SaaS provider's destination. This approach provides the necessary network vantage point from Branch A without requiring any software installation or resource consumption on the individual employee workstations (endpoints).

Other agent types do not satisfy the specific constraints of this scenario:

\* Endpoint Agents are installed directly on user devices (Windows/macOS) to provide "last-mile" visibility. However, they use the endpoint's CPU and memory, which contradicts the requirement to not affect endpoint performance.

\* Cloud Agents are maintained by Cisco in global ISP data centers. While they provide "outside-in" visibility, they cannot capture internal branch network characteristics or the specific path from Branch A's internal local area network.

\* Application Agents is a non-standard term and does not exist as a standalone agent type within the ThousandEyes architecture. Therefore, deploying an Enterprise Agent within the branch infrastructure ensures that the network engineer obtains high-fidelity network metrics while keeping employee devices entirely unburdened.

Introduction to ThousandEyes

This video provides an essential overview of how ThousandEyes agents function within a CCNP-level enterprise network assurance strategy.

### NEW QUESTION # 55

What type of alert rule configuration is used to monitor CPU utilization on end-user devices?

- A. Threshold-based alerts



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