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Cisco 300-445 Exam Syllabus Topics:

| Topic | Details |
|---------|--|
| Topic 1 | <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 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"> • 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 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 (Q52-Q57):

NEW QUESTION # 52

What is a common issue diagnosed using collected data related to wireless connectivity?

- A. Network congestion
- **B. Channel interference**
- C. Packet loss
- D. DNS server failure

Answer: B

Explanation:

Channel interference is a common issue diagnosed using collected data related to wireless connectivity, affecting signal quality and network performance in network assurance.

NEW QUESTION # 53

Which Thousand Eyes test is specifically designed to assess the performance of voice communication?

- **A. Voice test**
- B. DNS test
- C. Network test
- D. Web test

Answer: A

Explanation:

The Voice test in Thousand Eyes is specifically designed to assess the performance of voice communication, identifying issues such as latency and jitter in network assurance.

NEW QUESTION # 54

An administrator has set up GPO properly, but realized ThousandEyes EPA was not deployed on one of the office PCs.⁹ What is the appropriate first step?

- A. Reboot the Server, this will restart GPO on the PC
- **B. Check that the PC belongs to the needed domain**
- C. Reboot the PC, this will restart GPO on the server
- D. After GPO deployment, an administrator account must log in to deploy the EPA

Answer: B

Explanation:

In the Designing and Implementing Enterprise Network Assurance (300-445 ENNA) curriculum, troubleshooting deployment issues is as critical as the initial configuration. When utilizing Group Policy Objects (GPOs) for the distribution of the ThousandEyes Endpoint Agent (EPA), certain prerequisites must be met for the policy to take effect on a target machine.¹⁰ The most fundamental requirement is that the target PC must be a member of the domain or the specific Organizational Unit (OU) where the GPO is linked. Therefore, the appropriate first step is to check that the PC belongs to the needed domain (Option B). GPOs are scoped based on Active Directory membership; if a computer is in a workgroup or a different domain/OU that is not targeted by the policy, it will never receive the instruction to install the software, regardless of how "properly" the GPO is configured on the server.¹¹ The other

options are technically incorrect or represent a misunderstanding of GPO mechanics:

* Administrator Login (Option A): EPA installation via GPO is typically configured to run under the System account context during startup, meaning it is not dependent on a specific user (administrator or otherwise) logging in to trigger the deployment.

* Rebooting to restart GPO on the server (Option C): Rebooting a client PC triggers a "GPOUpdate" request from the client to the server, but it does not "restart" the GPO service on the server side.

* Rebooting the Server (Option D): This is an invasive and unnecessary step that will not force a policy update on a specific client PC if that PC is not correctly joined to the domain or is experiencing a local networking issue.

By verifying domain membership first, the administrator ensures the basic trust and communication path required for GPO delivery is functional before moving to more complex troubleshooting steps like checking event logs or network connectivity.

NEW QUESTION # 55

What distinguishes passive monitoring from active monitoring in network assurance?

- A. Monitoring server logs
- **B. Real-time analysis of network traffic**
- C. Continuous probing of network devices
- D. Collection of historical data

Answer: B

Explanation:

Passive monitoring involves real-time analysis of network traffic, while active monitoring includes continuous probing of network devices to collect data in network assurance.

NEW QUESTION # 56

A CPU utilization alert for Endpoint Agents is triggering too frequently, creating alert noise. Which of the following steps would help reduce the sensitivity of the alert rule? (Select two)

- A. Enable the alert rule on more Endpoint Agents
- **B. Increase the number of agents that must exceed the CPU threshold to trigger the alert**
- C. Lower the CPU utilization percentage in the alert condition
- **D. Adjust the alert rule to require more rounds of data to exceed the threshold**

Answer: B,D

Explanation:

Alert fatigue is a major operational challenge in network assurance. To make a CPU utilization alert for Endpoint Agents less sensitive and reduce "noise," an engineer must implement statistical filters that ignore transient spikes or isolated events.

The two most effective methods are:

* Increase the agent count (Option A): By requiring a higher number or percentage of agents to simultaneously exceed the threshold, the system ensures the alert represents a widespread environmental issue rather than a single user running a CPU-intensive background process.

* Require more rounds of data (Option C): Instead of alerting on a single measurement (1 of 1 round), the engineer can configure the rule to require the threshold to be breached for multiple consecutive checks (e.g., 2 of 3 rounds). This filters out brief, non-impactful CPU spikes that occur naturally during OS updates or browser startups.

Other options would have the opposite effect:

* Option B: Lowering the percentage threshold (e.g., from 90% to 50%) would cause the alert to trigger much more frequently, increasing noise.

* Option D: Enabling the alert on more agents increases the pool of potential triggers, which typically leads to more notifications unless the logic in Option A is also applied.

NEW QUESTION # 57

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