Vendor: Cisco

Exam Code: 300-445

Exam Name: Designing and Implementing Enterprise Network Assurance

Version: DEMO

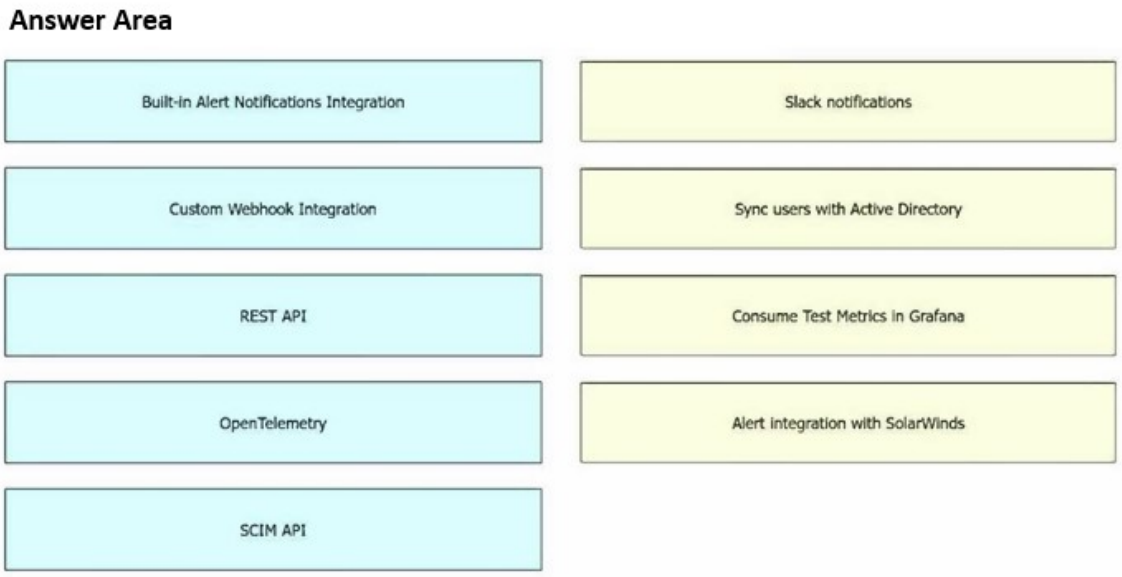
QUESTION 1
What is a feature of Cisco ThousandEyes WAN Insights?

A. It analyzes traffic flow and patterns.
B. It enhances and monitors application performance.
C. It delivers robust intrusion prevention capabilities.
D. It acts as a firewall in local networks.

Answer: A
Explanation:
Cisco ThousandEyes WAN Insights provides predictive analytics for SD-WAN by analyzing traffic flows, patterns, and path performance to recommend optimal routing decisions. It is not a firewall, IPS, or application-performance engine.

QUESTION 2
Drag and Drop Question

Drag and drop the Cisco ThousandEyes integration types from the left onto the use cases on the right. Not all options are used.



Answer:

Answer Area

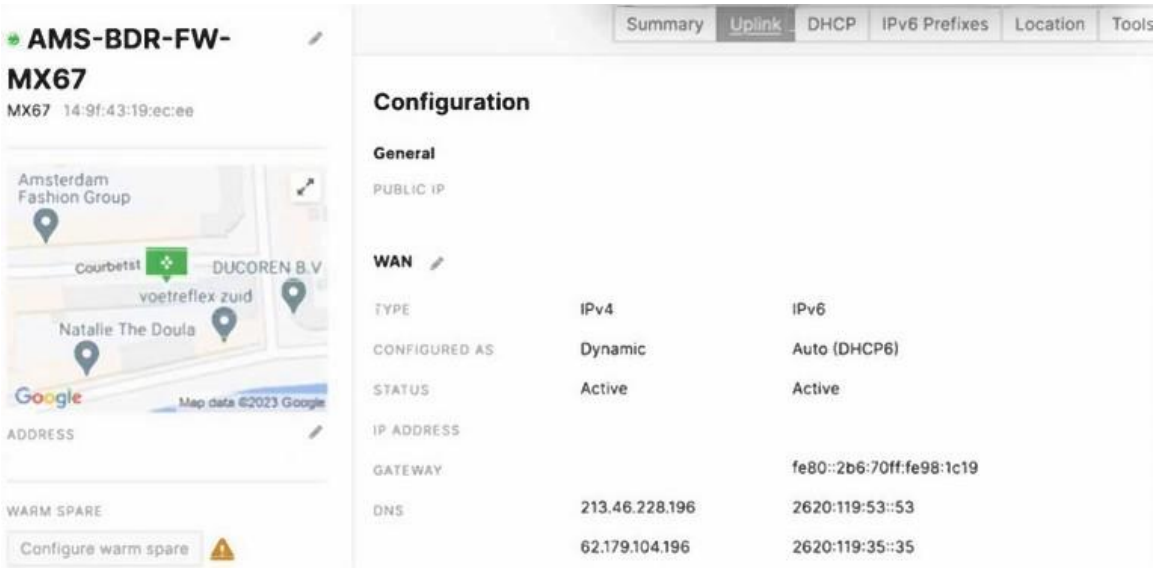
Explanation:
Built-in integrations support direct alert delivery to collaboration tools like Slack.

Custom Webhooks allow forwarding alerts to systems like SolarWinds.

OpenTelemetry streams ThousandEyes metrics into observability tools such as Grafana.

SCIM API handles automated user provisioning from identity providers such as Active Directory.

QUESTION 3
Refer to the exhibit. Which two configurations allow the Cisco ThousandEyes Enterprise Agent to use the IPv6 path to perform the DNS query? (Choose two.)



A. Configure the Enterprise Agent to prefer IPv6.
B. Configure web test to use the Happy Eyeballs algorithm.

C. Configure the DNS server test to target DNS servers by IPv6 address.
D. Configure the HTTP server test to prefer IPv6.
E. Configure IPv6 support in Meraki Insights.

Answer: AC
Explanation:
To ensure the ThousandEyes Enterprise Agent uses IPv6 for DNS queries, two things must be configured:
1. The agent must prefer IPv6, so it selects IPv6 transport when both families are available.
2. The DNS test must explicitly target DNS servers using IPv6 addresses, ensuring the lookup itself takes place over IPv6.

QUESTION 4
How would a user without coding knowledge write a transaction script to monitor a user workflow?

A. Use the recorder feature in the ThousandEyes Endpoint browser extension to capture a user session.
B. Use the ThousandEyes Recorder IDE to record the user journey and export it to the Cisco ThousandEyes platform.
C. Download the HAR (HTTP Archive) file of each page in the transaction flow and export it to the ThousandEyes platform.
D. Use the built-in Chrome developer tools and export the generated file to the ThousandEyes platform.

Answer: A
Explanation:
The ThousandEyes Endpoint Agent browser extension includes a no-code recorder that allows users to record real user workflows and automatically generate transaction scripts without writing code.

QUESTION 5
Which command configures the default gateway of an Enterprise Agent for a hosted application within the Cisco Application Hosting Framework in Cisco IOS XE Software?

A. app-default-gateway 10.0.0.1 guest-interface 1
B. ip route 0.0.0.0 0.0.0.0 10.0.0.1
C. ip default-gateway 10.0.0.1
D. route add default gw 10.0.0.1

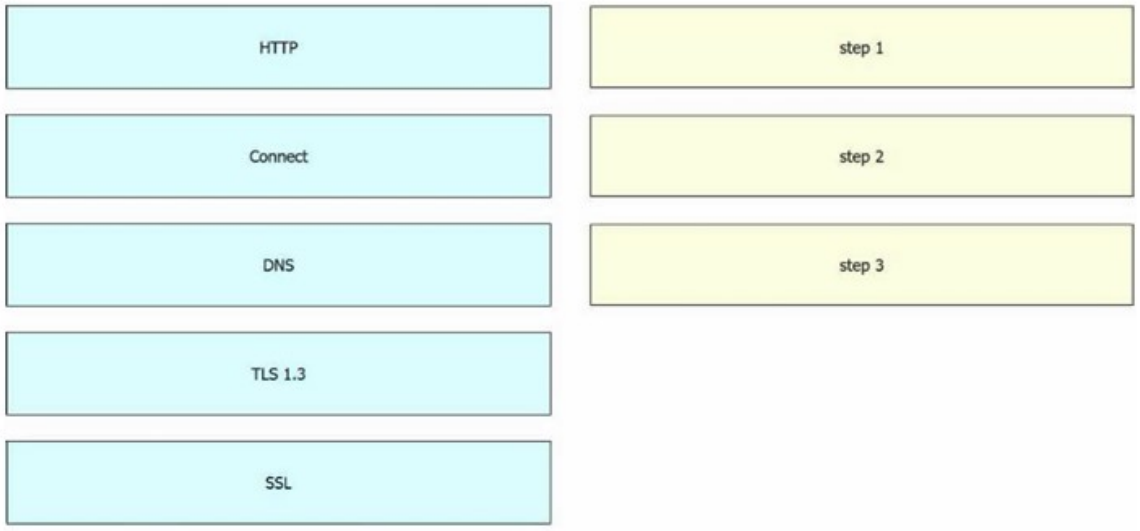
Answer: A
Explanation:
Cisco Application Hosting Framework (IOX) uses the command app-default-gateway to set the default gateway for hosted applications such as the ThousandEyes Enterprise Agent. This configures routing specifically for the app's virtual network environment, not the router's global routing table.

QUESTION 6
Drag and Drop Question

An engineer receives a user report of slowness of an internal website at http://test-ipv6.com. Drag

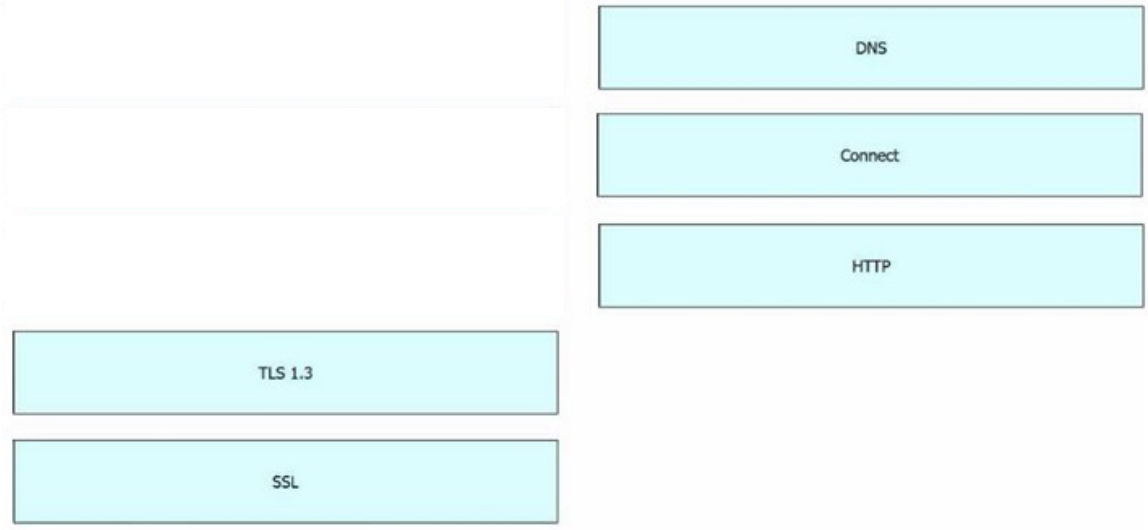
and drop the HTTP Server test phases from the left onto the steps on the right to troubleshoot the issue from the Cisco ThousandEyes test view. Not all options are used.

Answer Area



Answer:

Answer Area

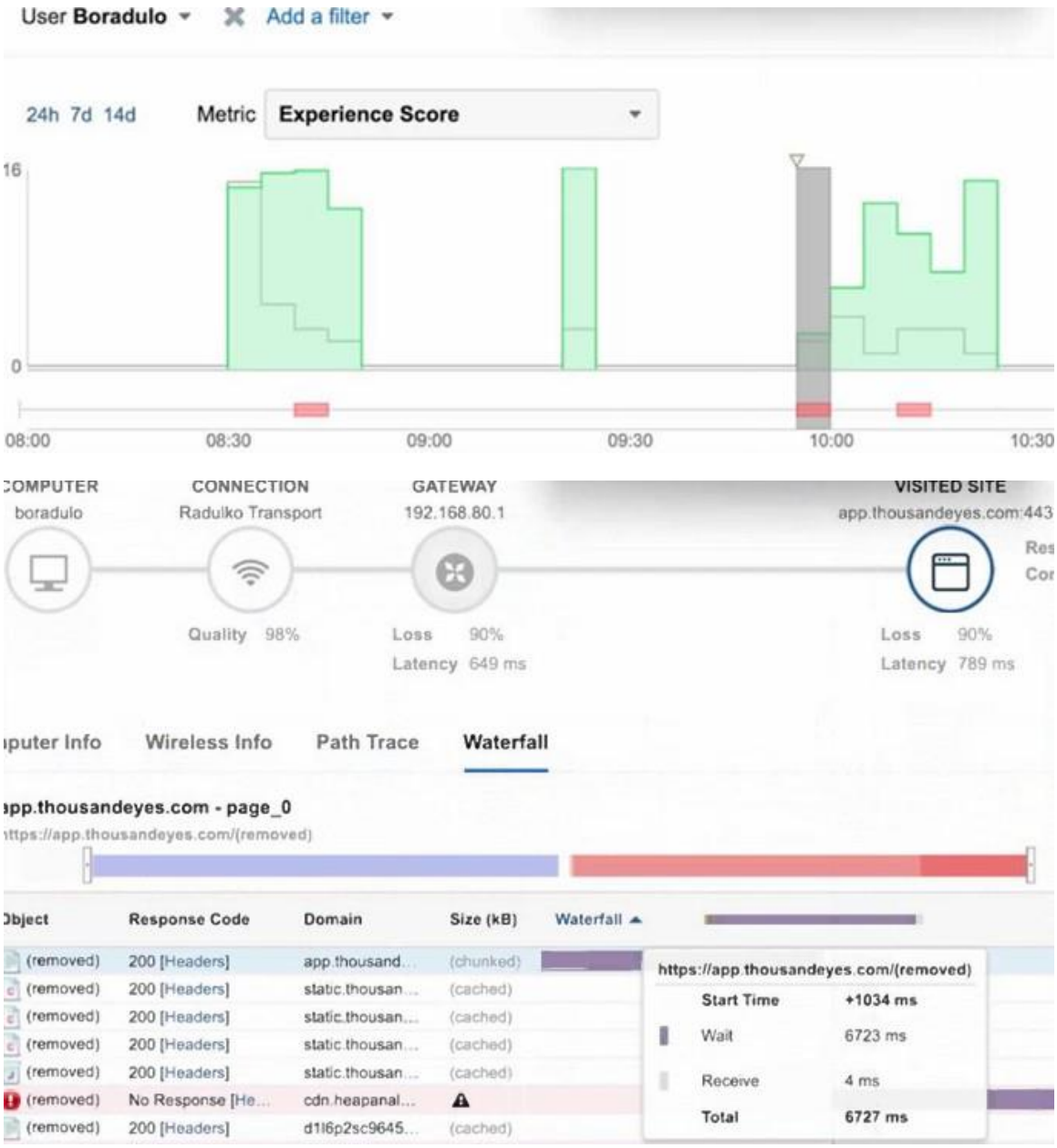


Explanation:
For an HTTP (not HTTPS) site, ThousandEyes processes phases in this order:
1. DNS to resolve the hostname
2. Connect to establish the TCP session
3. HTTP to request and receive the content

TLS 1.3 and SSL are not used because the site is HTTP, not HTTPS.

QUESTION 7

Refer to the exhibit. An employee working from home reports that his application performance is poor occasionally. A NOC operator opens Cisco ThousandEyes and investigates the employee's Endpoint Agent performance metrics. What is the issue?



A. low Wi-Fi signal strength
B. ISP network problem
C. excessive bandwidth usage on the user's router
D. poor application server performance

Answer: B
Explanation:
The Endpoint Agent view shows very high packet loss (≈90%) and very high latency (≈650–780 ms) between the employee and the ISP gateway.

The user's Wi-Fi quality is good (≈98%), and the application server responds normally once traffic reaches it.

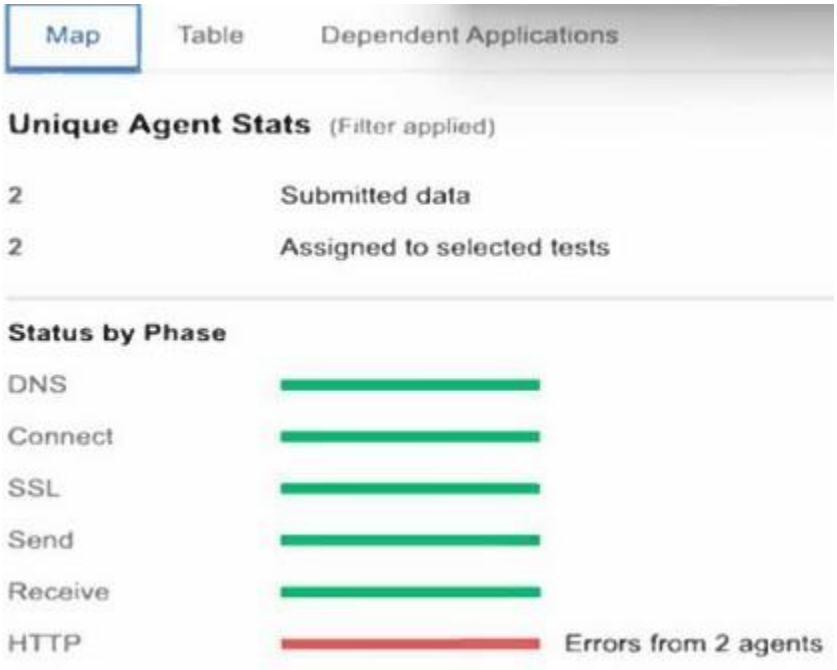
This confirms the performance degradation is occurring in the ISP network path, not on Wi-Fi, the user's router, or the application server.

QUESTION 8
A network administrator deployed a TLS decrypting proxy within an office site. Which metric includes TLS negotiation performance?

A. network latency
B. throughput
C. response time
D. server availability

Answer: C
Explanation:
TLS negotiation is part of the application-layer connection setup, and ThousandEyes includes TLS/SSL handshake duration inside the Response Time metric for HTTP/HTTPS tests.

QUESTION 9
Refer to the exhibit. An engineer receives a P1 incident from an office that is experiencing issues with Microsoft Teams. What is the root cause of the issue?



A. An HTTP handshake failed due to degraded network conditions.
B. A firewall is blocking the communication.
C. The web application returned an error code.
D. The TLS certificate on the server expired.

Answer: C

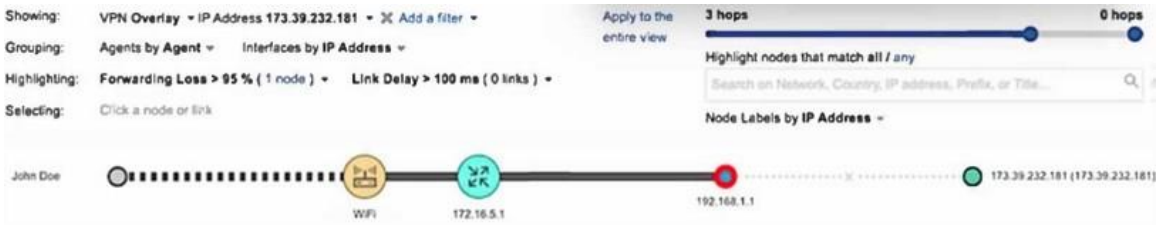
Explanation:
All network-level phases (DNS, Connect, SSL, Send, Receive) are successful, but the HTTP phase shows errors from both agents. This means the network path is healthy, but the server responded with an HTTP error code, indicating the application itself is failing rather than the network or TLS.

QUESTION 10
An engineer is investigating a network congestion issue with an eBGP peer. Which two metrics are impacted by high congestion in an external network? (Choose two.)

A. BGP reachability
B. packet loss
C. latency
D. HTTP availability
E. BGP convergence time

Answer: BC
Explanation:
High congestion in an external network primarily affects packet loss and latency, as queues build and packets drop. These metrics directly reflect congestion, while BGP reachability and convergence remain unaffected unless the session itself fails.

QUESTION 11
Refer to the exhibit. Where is the loss that is causing poor user performance?



A. ISP edge
B. default gateway
C. destination network
D. wireless connection

Answer: B
Explanation:
The path visualization highlights over 95% forwarding loss at the 192.168.1.1 node, which is the user's default gateway.

All upstream nodes show no loss, confirming the performance issue originates at the gateway.

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