

Implementing and Troubleshooting Networks using Cisco ThousandEyes

Duration: 3 Days Course Code: ENTEIT Version: 1.1 Delivery Method: Virtual Learning

Overview:

The **Implementing and Troubleshooting Networks Using Cisco ThousandEyes (ENTEIT)** course is designed to introduce you to Cisco® ThousandEyes. Through a combination of lectures and hands-on experience, you will learn to install and configure the Cisco ThousandEyes agents with different test types and perform root cause analysis when troubleshooting.

This course will help you:

- Describe and define Cisco ThousandEyes
- Integrate, implement, and deploy Cisco ThousandEyes solutions
- Configure Cisco ThousandEyes agents
- Perform root cause analysis when troubleshooting
- Customize dashboard and reports
- Monitor solutions
- Administer the system

This course is worth 24 Continuing Education (CE) Credits.

Virtual Learning

This interactive training can be taken from any location, your office or home and is delivered by a trainer. This training does not have any delegates in the class with the instructor, since all delegates are virtually connected. Virtual delegates do not travel to this course, Global Knowledge will send you all the information needed before the start of the course and you can test the logins.

Target Audience:

Network Administrators, network engineers, network managers and system engineers involved in the installation, configuration and usage of the Cisco ThousandEyes solution.

Objectives:

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| <ul style="list-style-type: none"> ■ After completing this course, you should be able to: ■ Introduce Cisco ThousandEyes ■ Describe different Enterprise Agent deployment options, requirements, and procedures for agent deployment ■ Describe different ThousandEyes test types ■ Compare ThousandEyes web layer tests ■ Describe, deploy, and configure an Endpoint Agent | <ul style="list-style-type: none"> ■ Describe how to perform system administration ■ Utilize ThousandEyes when performing the root cause analysis ■ Describe Internet Insights ■ Explain alerts and dashboards configuration ■ Explain monitoring solutions |
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Prerequisites:

Attendees should meet the following pre-requisites:

- Basic understanding of network fundamentals
- Basic understanding of Internet Control Message Protocol (ICMP), User Datagram Protocol (UDP), Transmission Control Protocol (TCP), HTTP, SSL, and DNS protocol
- CCNA - Implementing and Administering Cisco Solutions

Testing and Certification

Recommended as preparation for the following exams:

- There are no exams currently aligned to this course

Content:

Introduction to Cisco ThousandEyes

- Cisco ThousandEyes Visibility
- How Cisco ThousandEyes Does It
- Cisco ThousandEyes Cloud Agents
- Cisco ThousandEyes Enterprise Agents
- Cisco ThousandEyes Endpoint Agents
- Cisco ThousandEyes Tests
- Agent Test Capabilities
- Agent Locations

Enterprise Agents Deployment

- Enterprise Agent Operation
- Enterprise Agent Firewall Requirements
- Enterprise Agent Network Utilization
- Enterprise Agent Deployment Options
- Enterprise Agent on Cisco Platforms
- Virtual Appliance Setup
- Custom Virtual Appliance
- Embedded Enterprise Agent CLI Deployment
- Enterprise Agent Deployment with Cisco Catalyst Center
- Enterprise Agent Deployment with Cisco Catalyst SD-WAN Manager
- Enterprise Agent Deployment with Meraki Dashboard
- Enterprise Agent Docker Deployment
- Enterprise Agent Deployment in Proxy Environments
- Agent Labels
- Enterprise Agent Utilization
- Enterprise Agent Clusters

BGP, Network, DNS and Voice Tests Configuration.

- Unified Test Overview
- Routing BGP Test
- BGP Test - Configuration
- Network Tests
- Agent-to-Server Network Test - Data Collection
- Agent-to-Agent Network Test - Data Collection
- Network Test - Path Visualization View
- Agent-to-Server Network Test- Configuration
- Agent-to-Agent Network Test - Configuration
- DNS Tests
- DNS Test - Metrics
- DNS Test - Configuration
- Voice Tests
- Voice Tests - Metrics
- Voice Tests - Configuration

Web Layer Tests Configuration

- Web Layer Tests
- HTTP Server Test - Metrics
- HTTP Server Test - Configuration
- Page Load Test - Metrics
- Page Load Test - Configuration

Endpoint Agent

- Endpoint Agent Overview
- Endpoint Agent Use Cases
- Collected Data
- System Requirements and Installation
- Agent Settings
- Monitoring Settings
- Endpoint Agent Views

System Administration

- Role Based Access Control
- Account Groups
- User Account Settings
- Organization Settings
- Time Zone Settings
- Activity Log
- Cisco ThousandEyes Billing
- Unit Calculator

Network Troubleshooting with Cisco ThousandEyes

- Troubleshooting Scenario A
- Troubleshooting Analysis - Scenario A
- Troubleshooting Scenario B
- Troubleshooting Analysis - Scenario B
- Troubleshooting Scenario C
- Troubleshooting Analysis - Scenario C
- Troubleshooting Scenario D
- Troubleshooting Analysis - Scenario D
- Share Links and Saved Events
- Multi-Service Views

Internet Insights

- Challenges with Internet Monitoring
- Internet Insights Overview
- Internet Insights Packages
- Internet Insights Dashboard
- Cloud Insights View

Alerts and Dashboard Configuration

- Alerts Overview
- Alert Rule Configuration
- Alert Views
- Integration with Splunk HTTP Event Collector
- Alert Suppression Window
- Enterprise Agent Notifications
- Notification Triggers
- Data Retention
- Dashboards
- Dashboard Snapshots
- Baseline Metrics
- Data Aggregation
- Widget Configuration
- Dashboard Examples
- Integration and Data Export
- Adaptive Alerting

Monitoring Solutions

- Monitoring Cisco Webex Meetings
- Monitoring Microsoft 365
- Monitoring Microsoft Teams
- Monitoring Cisco Catalyst SD-WAN
- WAN Insights

Labs

- Discovery 1: Schedule a Test
- Discovery 2: Deploy Enterprise Agent
- Discovery 3: Configure Network, DNS, and Voice Tests
- Discovery 4: Configure Web Tests
- Discovery 5: Deploy and Configure an Endpoint Agent
- Discovery 6: Configure Account Administration
- Discovery 7: Utilize Device Layers
- Discovery 8: Examine Internet Insights
- Discovery 9: Configure Alerts
- Discovery 10: Build a Dashboard and Report

- Web Authentication Methods
 - Transaction Test - Metrics
 - Transaction Test - Configuration
 - Transaction Test - ThousandEyes Recorder
 - Web Layer Tests - Proxy Metrics
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Further Information:

For More information, or to book your course, please call us on 0800/84.009

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