Implementing and Troubleshooting Networks using Cisco ThousandEyes

Cursusduur: 3 Dagen   Cursuscode: ENTEIT   Version: 1.0

Beschrijving:

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 ThousandEyesIntegrate, implement, and deploy Cisco ThousandEyes solutionsConfigure Cisco ThousandEyes agentsPerform root cause analysis when troubleshootingCustomize dashboard and reportsMonitor solutionsAdminister the system

Doelgroep:

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

Doelstelling:

- **After completing this course, you should be able to:**

- Describe the Cisco ThousandEyes solution and its high-level use cases

- Identify different types of ThousandEyes agents and supported tests

- Describe different Enterprise Agent deployment options, requirements, and procedures for agent deployment

- Describe different ThousandEyes test types

- Compare Thousand Eyes web layer tests

- Describe the role of an Endpoint Agent

- Deploy and Configure an Endpoint Agent

- Utilize ThousandEyes when performing the root cause analysis

- Discuss the challenges that ThousandEyes Internet Insights can address

- Describe the role and configuration of default and custom alerts

- Distinguish between usability of dashboards and reports

- Utilize ThousandEyes to monitor solutions end-to-end

- Describe how to perform system administration

Vereiste kennis en vaardigheden:

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

Examens en certificering

Recommended as preparation for the following exams:

- There are no exams currently aligned to this course

Cursusinhoud:

Introducing Cisco ThousandEyes

- Modern Network Challenges
- Cisco ThousandEyes Overview
- See Inside-Out Use Case
- See Outside-In Use Case
- WAN Experience Use Case
- How Cisco ThousandEyes Does It
- Cisco ThousandEyes Visibility
- Modern IT Visibility Architecture

Introducing Cisco ThousandEyes Agents and Tests

- Cisco ThousandEyes Cloud Agents
- Cisco ThousandEyes Enterprise Agents
- Cisco ThousandEyes Endpoint Agents
- Cisco ThousandEyes Tests
- Agent Test Capabilities
- Agent Locations

Deploying Enterprise Agents

- Enterprise Agent Operation
- Enterprise Agent Firewall Requirements
- Enterprise Agent Network Utilization
- Enterprise Agent Deployment Options
- Enterprise Agent on Cisco IOS XE Platforms
- Virtual Appliance Setup
- Custom Virtual Appliance
- Embedded Enterprise Agent CLI Deployment
- Embedded Enterprise Agent Deployment with Cisco DNA Center
- Enterprise Agent Deployment in Proxy Environments
- Agent Labels
- Enterprise Agent Utilization
- Enterprise Agent Clusters

Describing ThousandEyes Routing, Network, DNS and Voice Tests

- 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
- Vocie Tests - Metrics
- Voice Tests - Configuration

Describing Cisco ThousandEyes Web Tests

- Web Layer Tests

Introducing Endpoint Agents

- Endpoint Agent Overview
- Browser Session Monitoring - Monitored Domains and Monitored Networks
- Endpoint Agent Use Cases - Last Mile Monitoring
- Endpoint Agent Use Cases - Performance Troubleshooting
- Endpoint Agent Use Cases - Application Experience Monitoring
- Endpoint Agent - Collected Data

Deploying Endpoint Agents

- Endpoint Agent System Requirements
- Endpoint Agent Installation
- Endpoint Agent Operation
- Endpoint Agent Configuration
- Endpoint Agent Proxy Configuration
- Endpoint Agent Views

Troubleshooting with Cisco ThousandEyes

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

Using Internet Insights

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

Configuring Alerts

- Alerts Overview
- Notification Triggers
- Alert Rule Configuration
- Dynamic Baselines
- Alert Views
- Alert Suppression Window
- Enterprise Agent Notifications

Customizing Dashboards and Reports

- Data Retention
- Dashsboards and Reports Comparison
- Report Snapshots
- Baseline Metrics with Reports
- Data Aggregation
- Widget Configuration
- Dashboard Examples

Monitoring Solutions

- Microsoft 365 Solution Monitoring
- Microsoft 365 Test Targets
- Microsoft 365 Service Level Metrics
- Cisco Webex Monitoring
- Cisco Webex Web Zone Testing
- Cisco Webex CB and MMP Testing
- Cisco Webex Test Targets
- Cisco Webex Service Level Metrics
- SD-WAN Monitoring
- SD-WAN Overlay Monitoring
- SD-WAN Underlay Monitoring
- SD-WAN Service-Level Metrics

Administrating the System

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

Labs

- Schedule a Test
- Deploy Enterprise Agent
- Configure Network, DNS, and Voice Tests
- Configure Web Tests
- Deploy and Configure an Endpoint Agent
- Examine Internet Insights
- Configure Alerts
- Build a Dashboard and Report
- Account Administration

- HTTP Server Test - Metrics
- HTTP Server Test - Configuration
- Page Load Test - Metrics
- Page Load Test - Configuration
- Transaction Test - Metrics
- Transaction Test - Configuration
- Transaction Test - ThousandEyes Recorder
- Web Layer Tests - Proxy Metrics

Nadere informatie:

Neem voor nadere informatie of boekingen contact op met onze Customer Service Desk 030 - 60 89 444

info@globalknowledge.nl

www.globalknowledge.com/nl-nl/

Iepenhoeve 5, 3438 MR Nieuwegein