Blue River Experts

Member of the **Art of Innovation** Network

DESIGN, CONFIGURE AND MANAGE NETWORKS USING THOUSAND EYES

Version 1.2

1 Course Overview

Cisco Thousand Eyes is a security platform that provides real-time visibility into the activities of users, devices, and networks. It provides the ability to detect and respond to threats quickly and efficiently. This solution helps to perform root cause investigation when troubleshooting the network issue.

During this 3-day training, you will learn how to design the Cisco Thousand Eyes solution for an enterprise network. You will learn to install, configure and manage the Cisco Thousand Eyes agents with diverse test types.

2 Who Should Attend

- Network Administrators
- Network Engineers
- Solution Architects
- Sales Engineers
- System Engineers
- Anyone who wants to learn about real-time security visibility platform

3 Prerequisites

Before taking this course, it would be good to have exposure to the following:

- Network Fundamentals
- Network Security Fundamentals
- Endpoint Agents

4 Why Attend a Blue River Experts Course

Our courses are not delivered by instructors but by consulting system engineers who have vast experience regarding real life design, deployment, and troubleshooting of actual customer installations. Besides delivering courses, our engineers usually design and deploy large enterprise solutions or perform real world POVs (proof of value) and POCs (proof of concept) for large customers. We are often requested and contracted by product vendors to help customers make buying decisions based on their particular use case. This allows us to discuss real world use cases, designs, and operational situations with our students.

If you would like to get educated by experts who will explain to you the whole life cycle from day 0 to day 2 as they have comprehensive knowledge from having written numerous business requirements documents, customer requirements documents, high level design and detailed design documents and having deployed and troubleshooted many customer installations then you should choose to attend one of our courses.

5 Course Objectives

With a mix of hands-on labs and interactive theory sessions, you will learn to:

- Configure Cisco Thousand Eyes agents to work with your organization's network
- Improve network management by integrating, implementing and operating the Thousand Eyes solution
- Observe the overall network with Thousand Eyes monitoring tools and improve the administration of the system
- Identify root cause analysis for a network issue when troubleshooting
- Create personalized dashboards and reports

6 Course Details

- Understanding digital experience challenges
- Introduction to Cisco Thousand Eyes
- Understanding Thousand Eyes Monitoring
- Explain Evidence and Escalate model
- Inside-out and Outside-In Use cases
- Understanding the solution components of Thousand Eyes
- Types of Cisco Thousand Eyes agents
  - Cloud Agent
  - Enterprise Agent
  - End Point Agent
- Understanding Enterprise Agent
  - Requirements
  - Deployment options
  - Steps to follow for agent deployment
- Understanding Thousand Eyes test types
- Describe different test types
  - Layer 3 Tests
  - Web Layer Tests
  - Voice Layer Tests
  - DNS Tests
- Understanding how TEST nesting works
- Describe End Point Agent Tests
- Understand the in-built Thousand Eyes Dashboards
- Building Customized Dashboards
- Understanding the default reports
- Building the custom reports
- Understanding Alerts
- Generating and Sharing of TEST Data
- Describe Cisco Thousand Eyes Snapshot feature
- Describe Cisco Thousand Eyes API
- Thousand Eyes Account Administration

7 LAB Exercises

- Navigating through the ThousandEyes Portal
- Creating BGP Test
- Verification of BGP Test
- Web and Page Load Test using Cloud Agents
- Configuring Network Test
- Deploying Enterprise Agent
- Deploying ThousandEyes Virtual Appliance Enterprise Agent
- Configure and Validate DNS Test
- Configure and Validate Voice Test
- Deploying and Verifying Endpoint Agent on a client machine
- Configuring End Point Agent Test
- Configuring and Validating Alerts
- Building Quick View Dashboards
- Generate different ThousandEyes Reports
- General Account Administration