Splunk AppDynamics for Hybrid Application Monitoring

Duration: 4 Days **Course Code: SAHA** **Version: 1.0**

Overview:

The **Splunk AppDynamics for Hybrid Application Monitoring (SAHA)** training aims to enhance your expertise in full stack observability for hybrid applications using Cisco's product portfolio, covering various aspects of observability and analytics. You will explore application performance monitoring (APM) and business analytics for hybrid applications using Cisco AppDynamics. You will also learn about customer digital experience and application dependency monitoring, leveraging network insights through Cisco ThousandEyes and integrating them with real user monitoring in AppDynamics. Finally, you will learn about application security with Cisco Application Security.
Throughout the training, you will not only learn to effectively utilize these solutions but also deploy and configure them within your application environments.

This training is worth 32 Continuing Education (CE) credits towards recertification.

Target Audience:

Anyone deploying a Full-Stack Observability platform in a Cisco Environment

Objectives:

- **After completing this course you should be able to:**
- Understand the core principles and architecture of the Cisco Full Stack Observability (FSO) platform and its strategic benefits for application monitoring
- Explore best practices for deploying and managing hybrid application monitoring solutions, with a focus on Cisco AppDynamics agents for comprehensive visibility
- Configure Cisco AppDynamics for hybrid application monitoring, including setting up baselines, health rules, and proactive monitoring strategies
- Apply troubleshooting techniques using anomaly detection, database visibility, and custom dashboards to resolve issues affecting business transactions
- Understand the foundations of customer digital experience monitoring (CDEM) with Cisco ThousandEyes and AppDynamics platforms, integrating network and application insights to optimize customer interactions
- Deploy and configure Cisco ThousandEyes for CDEM, gaining insights into network and application performance and troubleshooting customer digital experiences
- Learn app dependency monitoring with AppDynamics and ThousandEyes, including the deployment and configuration of enterprise agents and leveraging test recommendation services
- Explore hybrid application security and business risk observability with Cisco application security, enabling participants to protect applications from attacks and vulnerabilities

Prerequisites:

Attendees should meet the following prerequisites:

- Basic understanding of application architectures and deployment models
- Fundamental knowledge of APM
- Basic understanding of networking concepts
- Foundational knowledge of application security practice
- CCNA - Implementing and Administering Cisco Solutions
- DEVASC - Developing Applications and Automating Workflows using Cisco Platforms

Testing and Certification

Recommended as preparation for the following exams:

- There is no exam currently aligned to this course

Content:

Hybrid Application Monitoring Foundation

- The Full-Stack Observability Challenge
- Cisco Full-Stack Observability Solution
- Cisco Full-Stack Observability Use Cases
- Hybrid Application Monitoring Use Case Overview
- Full-Stack Observability Insights with Cisco AppDynamics
- Hybrid Application Performance Monitoring with Cisco AppDynamics
- Cisco AppDynamics Enrichments and Extensions
- Cisco AppDynamics for Open Telemetry

Deploy Hybrid Application Monitoring

- Application Performance Monitoring Architecture
- Application Agents Deployment
- Application Agents Deployment in Containerized and Kubernetes Environment
- Infrastructure Visabilty
- Machine Agent Deployment
- Database Visability
- Database Agent Deployment and Collector Configuration
- Agent Lifecycle Management with Cisco Smart Agent

Hybrid Application Monitoring Configuration

- Business Transaction Management
- Business Transaction Discovery
- Health Rules Management
- Proactive Monitoring with Policies and Actions
- Dynamic Baselines Setup
- Information Points and Data Collectors Configuration
- Configure and Collect Transaction Analytics Data
- Build Dash Studio Dashboards

Monitor and Troubleshoot Hybrid Application Performance

- Hybrid Application Monitoring Strategies
- Application Performance Monitoring Dashboards
- Track Business Transaction Performance
- Diagnose Business Transaction Issues with Snapshots
- Resolve Issues Through Diagnostic Sessions
- Troubleshoot with Information Points and Data Collectors
- Troubleshoot Database Performance
- Anomaly Detection

Customer Digital Experience Monitoring Foundation

Customer Digital Experience Monitoring Integration and Configuration

- Cisco ThousandEyes and Cisco AppDynamics Integration
- Digital Experience Monitoring Integrated Features
- Network Insights and Browser Real User Monitoring Integration
- Cisco ThousandEyes Alerts Configuration
- Alert Notifications Setup
- Cisco ThousandEyes API Integration
- Cisco ThousandEyes for Open Telemetry Configuration

Customer Digital Experience Monitoring and Troubleshooting

- Digital Experience and Network Performance Diagnostics
- Dashboard Insights with Cisco ThousandEyes
- Real User Monitoring Data Exploration
- User Journey Maps
- Browser Snapshots and Application Performance Monitoring Correlation

Application Dependency Monitoring Foundation

- Application Dependency Monitoring Use Case Overview
- Does it Fit the Use Case?
- Application Dependency Monitoring with Cisco ThousandEyes
- End-to-End Application Dependency Monitoring

Application Dependency Monitoring Deployment

- Enterprise Agent Deployment
- Virtual Appliance Deployment
- Select a Test Type for Application Dependency Monitoring
- Transaction and API Test Configuration

Application Dependency Integration and Configuration

- Bidirectional Integration for Application Dependency Monitoring
- Cisco AppDynamics for Test Recommendations Setup
- Cisco AppDynamics Custom Back-End Detection

Application Dependency Monitoring and Troubleshooting

- Application Dependency and Network Performance Diagnostics

Hybrid Application Security and Business Risk Observability Foundation

- Hybrid Application Security and Business Risk Observability Use Case Overview
- Application Security and Business Risk with Cisco Secure Application

Hybrid Application Security Monitoring Deployment

- Enable and Verify Cisco Secure Application
- Secure Appliction Alerts Configuration
- Secure Application Policies Configuration
- Cisco Secure Application with Splunk Integration

Hybrid Application Security and Business Risk Observability Protection

- Application Security Dashboard
- Monitoring Business Transactions with Business Risk Score
- API Security Insights
- Library and Vulnerability Monitoring
- Attack Monitoring

Labs

- Discovery Lab 1: Monitor Application Performance
- Discovery Lab 2: Instrument Application Services
- Discovery Lab 3: Enhance Application Monitoring with Infrastructure and Database Visibility
- Discovery Lab 4: Improve Monitoring Experience Through Management and Configuration Strategies
- Discovery Lab 5: Configure Transaction Analytics for Insightful Business Dashboards
- Discovery Lab 6: Evaluate Hybrid Application Performance
- Discovery Lab 7: Troubleshoot Business Transaction Performance Using Snapshots
- Discovery Lab 8: Discover Customer Digital Experience with ThousandEyes and AppDynamics
- Discovery Lab 9: Configure and Verify Transaction Test
- Discovery Lab 10: Deploy and Verify Browser Real User Monitoring
- Discovery Lab 11: Discovery Lab 1: Enable Data Sharing Through Integration
- Discovery Lab 12: Monitor Digital Experiences with Cisco ThousandEyes
- Discovery Lab 13: Resolve Digital Experience Issues with Cisco ThousandEyes and Cisco AppDynamics
- Discovery Lab 14: Uncover Application Dependency Performance with Cisco

- Customer Digital Experience Monitoring Use Cae Overview
- Customer Digital Experience Monitoring with Cisco ThousandEyes
- Customer Digital Experience Insights with Cisco AppDynamics Browser Real User Monitoring

Customer Digital Experience Monitoring Deployment

- Cisco ThousandEyesAgents Overview
- Cisco ThousandEyesAgents Test Types
- Cisco ThousandEyesAgents Browser Synthetics Overview
- Transaction Tests for Digital Experience Monitoring
- Browser Real User Monitoring (BRUM) Enablement
- JavaScript Agent Injection and Configuration
- Application Service Health and Dependency Insights Dashboard
- Application Dependency in Cisco AppDynamics Dashboards

ThousandEyes and Cisco AppDynamics

- Discovery Lab 15: Deploy an Enterprise Agent and Configure Tests for Application Dependency Monitoring
- Discovery Lab 16: Configure Test Recommendations and Integrate the Platforms
- Discovery Lab 17: Monitor Application Dependency Issues with Cisco ThousandEyes and Cisco AppDynamics
- Discovery Lab 18: Secure Applications with Cisco AppDynamics Walkthrough
- Discovery Lab 19: Integrate Cisco Secure Application with Splunk
- Discovery Lab 20: Enable and Configure Cisco Secure Application
- Discovery Lab 21: Monitor Application Security Using Cisco Secure Application

Further Information:

For More information, or to book your course, please call us on 00 966 92000 9278

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