CISCO TRAINING

# Splunk AppDynamics for Hybrid Application Monitoring

*Monitor hybrid applications effectively using Splunk AppDynamics. Gain skills to analyze performance and troubleshoot issues across complex IT environments.*

**DURATION**
**32 Hours**

**LEVEL**
**Intermediate**

**FORMAT**
**Instructor-Led**

- Globally Recognized Certification
- Expert-Led Hands-On Training
- Flexible Scheduling

Computer Pride | 1st Floor, ICEA Building, Kenyatta Avenue, Nairobi | www.computer-pride.co.ke

## COURSE OVERVIEW

This intermediate-level course, "Splunk AppDynamics for Hybrid Application Monitoring," equips IT professionals with the essential skills to master application performance management (APM) in today's complex, distributed environments. Leveraging the robust capabilities of both Cisco AppDynamics and Splunk, participants will learn to gain unparalleled visibility into application health, user experience, and business performance across hybrid infrastructures. You will explore how to integrate these powerful platforms to create a unified monitoring solution, enabling proactive identification and resolution of performance bottlenecks whether your applications reside on-premises, in private clouds, or across multiple public cloud providers. The course is designed to empower you to navigate the intricacies of modern application architectures, ensuring optimal performance and availability.

By the end of this comprehensive training, you will be proficient in configuring, deploying, and managing AppDynamics agents, dashboards, and alerts, as well as integrating AppDynamics data with Splunk for advanced analytics, correlation, and operational intelligence. This synergistic approach allows for a holistic view of your entire IT ecosystem, transforming raw performance data into actionable insights. The professional benefits extend to significantly improving an organization's Mean Time To Resolution (MTTR), enhancing customer satisfaction through superior application experiences, and ultimately driving business efficiency by ensuring critical applications perform flawlessly. This expertise is invaluable for organizations striving for operational excellence and robust hybrid cloud management.

| | |
|---|---|
| **Duration** | 32 Hours |
| **Level** | Intermediate |
| **Vendor** | Cisco |

## COURSE CURRICULUM

### 01 Module 1: Introduction to Hybrid APM and AppDynamics Fundamentals

- Understanding Hybrid Application Architectures and Challenges
- Introduction to APM Concepts and Best Practices
- Overview of AppDynamics Architecture and Components
- Installing and Configuring AppDynamics Agents (Java, .NET, Node.js)
- Basic Application Monitoring with AppDynamics Flow Maps and Business Transactions
- Interpreting Key Performance Indicators (KPIs) in AppDynamics

### 02 Module 2: Advanced AppDynamics Configuration and Troubleshooting

- Customizing Business Transactions and Entry Points
- Configuring Health Rules and Policies for Proactive Monitoring
- Creating Advanced Dashboards and Widgets for Operational Visibility
- Leveraging Snapshots and Diagnostic Data for Root Cause Analysis
- Database Monitoring and Infrastructure Visibility with AppDynamics
- User Experience Monitoring (EUM) with Browser and Mobile RUM

### 03 Module 3: Splunk Fundamentals for Operational Intelligence

- Introduction to Splunk Architecture and Data Ingestion
- Splunk Search Processing Language (SPL) Essentials
- Creating Dashboards, Reports, and Alerts in Splunk
- Understanding Splunk Data Models and CIM Compliance
- Basic Data Onboarding Strategies for Performance Metrics and Logs

- Building effective queries for anomaly detection and trend analysis

### 04 Module 4: Integrating AppDynamics with Splunk

- Strategies for AppDynamics Data Export to Splunk
- Configuring AppDynamics Extensions for Splunk Integration
- Utilizing Splunk Add-ons for AppDynamics Data (Cisco AppDynamics App for Splunk)
- Mapping AppDynamics Metrics and Events to Splunk Data Models
- Correlating AppDynamics Performance Data with Infrastructure Logs in Splunk
- Building Unified Dashboards combining APM and Operational Data in Splunk

### 05 Module 5: Hybrid Application Monitoring Strategies and Analytics

- Monitoring Applications across On-Premises, Private Cloud, and Public Cloud (AWS, Azure, GCP)
- Implementing Tagging and Naming Conventions for Hybrid Environments
- Leveraging Machine Learning (ML) in Splunk for Predictive Analytics on APM Data
- Advanced Anomaly Detection and Baselining Techniques
- Capacity Planning and Performance Optimization using Integrated Data
- Developing Incident Response Workflows with AppDynamics and Splunk

### 06 Module 6: Best Practices and Advanced Use Cases

- Security Monitoring Integration with Splunk Enterprise Security and AppDynamics
- Achieving End-to-End Visibility for Microservices and Containerized Applications
- Implementing Observability Pipelines for CI/CD Workflows
- Performance Testing and Pre-Production Monitoring with AppDynamics and Splunk
- Automated Remediation and AIOps Principles
- Case Studies and Real-World Scenarios in Hybrid APM

## CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

> **Application Performance Management (APM) Engineer**

> **Hybrid Cloud Operations Specialist**

> **Site Reliability Engineer (SRE) specializing in Distributed Systems Monitoring**

## FREQUENTLY ASKED QUESTIONS

**Q: What prior experience with Splunk or AppDynamics is recommended before enrolling in this course?**

While this is an intermediate-level course, a foundational understanding of application architecture, basic networking concepts, and familiarity with either Splunk Search Processing Language (SPL) or AppDynamics navigation would be beneficial. The course will cover core concepts of both platforms, but prior exposure will help you grasp advanced integration techniques more quickly.

**Q: How will this course specifically help me manage and troubleshoot applications deployed across both on-premises and multi-cloud environments?**

This course is explicitly designed for hybrid environments. You will learn to deploy and configure AppDynamics agents in diverse settings, integrate performance metrics and logs from both on-prem and cloud resources into Splunk, and build unified dashboards. This holistic approach enables you to pinpoint performance issues, trace transactions across different

environments, and gain end-to-end visibility, drastically reducing MTTR in complex hybrid deployments.

**Q: What kind of real-world scenarios will I be able to troubleshoot and optimize after completing this Splunk AppDynamics training?**

Upon completion, you will be equipped to tackle scenarios such as identifying the root cause of slow customer logins in an application spanning AWS and an on-premises database, correlating network latency issues with application errors using integrated AppDynamics and Splunk data, optimizing resource allocation for a containerized microservice running in a hybrid Kubernetes cluster, and proactively detecting performance degradations before they impact end-users in complex distributed systems.

## ABOUT COMPUTER PRIDE

*East Africa's Premier IT Training Center*

With over 15 years of excellence, Computer Pride delivers globally recognized certification programs from leading technology vendors. Located on Kenyatta Avenue in Nairobi's CBD, our state-of-the-art facilities and expert instructors have empowered thousands of professionals across East Africa.

| 15+ | 10,000+ | 50+ |
|---|---|---|
| Years of Excellence | Professionals Trained | Vendor Certifications |

## READY TO ENROL?

Take the next step in your technology career.

**Location**
1st Flr, ICEA Building
Kenyatta Ave, Nairobi

**Email**
info@computer-pride.co.ke

**Phone**
+254 705 900 900

**www.computer-pride.co.ke**