

Course Outline

Splunk for Cisco Integrated Infrastructure Course SPLUNK: 2 days Instructor Led

All Cisco courses are delivered by a Cisco Authorized Platinum Learning Partner

About this course

Splunk training covers how together, Splunk and UCS enable organizations to realize the potential of Operational Intelligence across the organization and gain real-time business insights that create a strategic advantage. The Splunk for Cisco Integrated Infrastructure training will cover how Splunk software scales to collect and index hundreds of terabytes of data per day, across multi-geography, multi-datacenter and cloud based infrastructures. Using Cisco's Unified Computing System (UCS) Integrated Infrastructure for Big Data offers linear scalability along with operational simplification for single-rack and multiple-rack deployments. To facilitate faster and more predictable deployments, Cisco has published multiple reference architectures for Splunk software plus a comprehensive Cisco Validated Design that provides prescriptive, step-by-step guidance for deploying Splunk Enterprise on Cisco UCS. Lastly, the Cisco Splunk course will cover Splunk Apps and Add-Ons that provide ready-to-use functions for many Cisco Products and platforms.

Audience profile

- System Engineers
- System Administrators
- Architects
- Channel Partners
- Data Analysts

At course completion

After completing this course, students will be able to:

- Describe how harnessing the power of your machine data enables you to make decisions based on facts, not intuition or best guesses.
- Reduce the time you spend investigating incidents by up to 90%.
- Find and fix problems faster by learning new technical skills for real world scenarios.
- Get started with Splunk Enterprise, from installation and data onboarding to running search queries to creating simple reports and dashboards.
- Accelerate time to value with turnkey Splunk integrations for dozens of Cisco products and platforms.
- Ensure faster, more predictable Splunk deployments with a proven Cisco Validated Design and the latest Cisco UCS server.

Course Outline

Module 1: Cisco Integrated Infrastructure for Big Data and Splunk

- Lesson 1: What is Cisco CPA?
- Lesson 2: Architecture benefits for Splunk
 - High Performance unified fabric connecting Splunk nodes and clusters
 - Rapid and easy deployment of Splunk clustered servers with Service profiles
 - Simplified management of large Splunk deployment
 - Integration of Splunk and Enterprise applications in single management/connectivity domain
 - Architectural Scalability

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- Reduced Capex/Opex up to 50% compared to traditional servers
- Enterprise Service and Support through Cisco/Intel collaboration
- Lesson 3: Components of IIBD and relationship to Splunk Architecture
 - Cisco UCS C240 M4 Rack Servers
 - Cisco Nexus 2200/2300 Series Fabric Extenders
 - Cisco Nexus 6200/6400 Series Fabric Interconnects
 - Smart Play configurations
- Lesson 4: Cisco UCS Integrated Infrastructure for Big Data with Splunk Enterprise
- Lesson 5: Splunk- Big Data Analytics:
 - CVD: Cisco UCS Integrated Infrastructure for Big Data with Splunk Enterprise
 - Solution Brief: Cisco UCS Integrated Infrastructure for Big Data with Splunk Enterprise
 - Lab: Attendees run Queries on Splunk, Capacity Planning on Splunk
- Lesson 6: Solution Overview
 - Rack Configuration
 - Port Configuration on Fabric Interconnects
 - Configuration and Cabling for C240 M4 Rack Servers
 - Configuration and Cabling for C240 M4 Rack Server
 - Configuration and Cabling for S3260 Rack Server
- Lesson 7: NFS Configurations for the Splunk Frozen Data Storage
- Lesson 8: NFS Client Configurations on the Indexers

Module 2: Splunk- Start Searching

- Lesson 1: Chargeback
- Lesson 2: Reporting
- Lesson 3: Building custom reports using the report builder

Module 3: Application Containers

- Lesson 1: Understanding Application Containers

Module 4: Understanding Advanced Tasks

- Lesson 1: Task Library & Inputs
- Lesson 2: CLI & SSH Task
- Lesson 3: Understanding Compound Tasks
- Lesson 4: Custom Tasks

Module 5: Open Automation Troubleshooting

- Lesson 1: UCS Director Restart
- Lesson 2: Module Loading

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- Lesson 3: Report Errors
- Lesson 4: Feature Loading
- Lesson 5: Report Registration

Module 6: REST API- Automation

- Lesson 1: UCS Director Developer Tools
- Lesson 2: Accessing REST using a REST client
- Lesson 3: Accessing REST using the REST API browser

Module 7: Open Automation SDK

- Lesson 1: Overview
- Lesson 2: Open Automation vs. Custom Tasks
- Lesson 3: Use Cases

Module 8: UCS Director PowerShell API

- Lesson 1: Cisco UCS Director PowerShell Console
- Lesson 2: Installing & Configuring
- Lesson 3: Working with Cmdlets

Module 9: Cloupia Script

- Lesson 1: Structure
- Lesson 2: Inputs & Outputs
- Lesson 3: Design
- Lesson 4: Examples

Lab Outline:

- Lab 1: Self Service Portal creation
- Lab 2: Advanced Catalog Options
- Lab 3: Designing an Advanced Workflow
- Lab 4: Application Containers
- Lab 5: SSH Scripting
- Lab 6: Compound Task
- Lab 7: PowerShell Scripting
- Lab 8: Cloupia Script
- Lab 9: Custom Tasks & the API