



Core Implementation

This course is an in-person, five-day instructor-led class that covers how to make Splunk Enterprise run efficiently in setting up large clustered Splunk environments using best practices. The class evaluates your ability to successfully deploy Splunk Enterprise in several scenarios, including Search Head Cluster, Indexer Cluster, and distributed environments. We also create advanced dashboards and alerts to ensure customers get the most value from their Splunk environment.

Course Topics

- Splunk architecture
- Monitoring Console
- Deployment Server
- LDAP integration
- Collecting and forwarding data
- Indexing and Searching
- Clustering indexers
- Clustering Search Heads

Course Objectives

Module 1 – Deploying Splunk

- Introduce the Splunk Validated Architectures
- Review how Splunk can grow from a standalone environment to a distributed environment with indexer and search head clustering
- Explain High Availability and Disaster Recovery
- Discuss migrating Splunk from on-premises to the Cloud
- Lab 0: Grade Me

Module 2 – Monitoring Console

- Discuss the best instance to configure as the Monitoring Console
- Configure the MC for a single or distributed environment
- Examine how the MC uses the server roles and groups assigned to instances
- Discuss health checks and how they are run
- Lab 1 - Discovery

Module 3 – Configuration Management

- Define deployment apps
- Provide overview of Deployment Server
- Describe deployment system configuration
- Discuss how to manage Deployment Server at scale
- Lab 5: Scale DS

Module 4 – Access & Roles

- Discuss how to manage Deployment Server at scale
- Identify authentication methods
- Describe LDAP concepts and configuration
- Discuss SAML and SSO options
- Define roles and how they are used to protect data
- Lab 2: LDAP Integration

Module 5 – Data Collection

- Examine Splunk to Splunk (S2S) communication and the different ways data is sent from forwarder to indexer

Course Prerequisites

Splunk Certified Architect +

Class Format

Instructor-led lecture with labs, delivered in person.

- Describe the types and configuration of data inputs
- Discuss ways to troubleshoot data inputs
- Lab 3: Triage broken forwarder

Module 6 – Indexing

- Review indexing artifacts and locations
- Discuss event processing and data pipelines
- Understand the underlying text parsing and indexing process
- Examine data retention controls
- Lab 4: Triage indexing issue

Module 7 – Search

- Examine the inter-workings of a search
- Discuss how to use search job inspection
- Look at the different search types and how to maximize search efficiency
- Review sub-searches and how they work
- Examine some example searches and how to make them more efficient

Module 8 – Index Clustering

- Provide an architecture overview
- Describe deployment and component configuration
- Review upgrade strategy
- Discuss data buckets and lifecycle
- Examine failure modes and recovery processes
- Introduce multi-site clustering
- Understand migration procedures
- Lab 6: Upgrade Index Cluster
- Lab 7: Expand Cluster & Migrate Indexer data



Module 9 – Search Head Clustering

- Provide overview of Search Head clustering
- Explain how to manage and deploy a cluster
- Describe content management using the Deployer
- Review the role of cluster members and the Captain
- Lab 8 – Install SHC

Appendix A – REST API

- Define the Splunk REST API
- Discuss requests, endpoints, and namespaces
- Examine tools and methods for using the API



Module #	Module Name	Module Length	Lab Name	Lab Length	Day	
Module 0	Introductions	0:30			Day 1	
Lunch				1:00		
Module 1	Deploying Splunk	0:45	Lab 0	0:05		
Module 2	Monitoring Console	0:45	Lab 01: Discovery	1:30	Day 2	
Module 3	Configuration Management	2:00	Lab 05: Scale DS	2:30		
Lunch				1:10		
Module 4	Access & Roles	1:20	Lab 02: LDAP Integration	1:30	Day 3	
Module 5	Data Collection	1:45	Lab 03: Triage broken forwarder	2:30		
Lunch				1:00		
Module 6	Indexing	1:40	Lab 04: Triage indexing issue	2:30	Day 4	
Module 7	Search	1:40				
Module 8	Index Clustering Part 1	1:25	Lab 06: Upgrade Index Cluster	1:00		
	Lunch			1:00		
	Index Clustering Part 2	1:45	Lab 07: Expand Cluster & Migrate Indexer data	1:30		
Module 9	Search Head Cluster	2:00	Lab 08: Install SHC	3:00	Day 5	

About Splunk Education

Splunk classes are designed for specific roles such as Splunk Administrator, Developer, User, Knowledge Manager, or Architect.

Certification Tracks

Our certification tracks provide comprehensive education for Splunk customer and partner personnel according to their areas of responsibility.

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About Splunk

Splunk is software that indexes, manages and enables you to search data from any application, server or network device in real time.

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