



Implementing Splunk Data Stream Processor (DSP)

This 3-day course is designed for the experienced Splunk administrators who are new to a data stream processing service. This hands-on class is designed to provide the essential knowledge for deploying a Splunk DSP cluster, designing DSP pipelines, and managing stream processing use cases.

It covers installation, source and sink configurations, pipeline design and backup, and monitoring a DSP environment.

Course Topics

- Introduction to Splunk Data Stream Processor
- Deploying a DSP cluster
- Building Pipelines - Basics
- Building Pipelines - Deep Dive
- Working with 3rd party data feeds
- Monitoring DSP environment

Course Prerequisites

Required:

- Splunk Enterprise System Administration
- Splunk Enterprise Data Administration

Nice to have:

- Architecting Splunk Enterprise Deployments
- Working knowledge of:
 - Distributed system architectures
 - Apache Kafka (user level)
 - Apache Flink (user level)
 - Kubernetes (admin level)

Class Format

This course is an instructor-led lecture with labs, delivered via virtual classroom or at your site. The lab environment is Linux only.

Important:

Students must be able to use SSH on port 22 and to browse HTTPS server on port 30000 and 31000 from his or her computer.

Course Modules

Module 1 – Introduction to DSP

- Review Splunk deployment options and challenges
- Describe the purpose and value of Splunk DSP
- Understand DSP concepts and terminologies

Module 2 – Deploying a DSP Cluster

- List DSP core components and system requirements
- Describe installation steps
- Check DSP service status
- Configure sources and a default Splunk sink

Module 3 – Building Pipelines - Basics

- Describe the basic elements of a DSP pipeline
- Familiarize with the DSP GUI

- Create data pipelines using the DSP canvas UI
- Ingest and process data from REST API sources
- Ingest data from Splunk forwarders
- Filter data from Splunk Firehose and route to multiple sinks

Module 4 – Building Pipelines - Deep Dive

- Manipulate pipeline options:
 - Extract
 - Transform
 - Obfuscate
 - Aggregate

Module 5 – Working with 3rd party data feeds

- Read from and write data to Kafka topics
- List input sources supported with the collect service
- Transform data from Kafka and route them to multiple sinks

Module 6 – Monitoring DSP Environment

- Back up DSP pipelines
- Monitor DSP environment
- Upgrade DSP
- Describe steps to isolate DSP service issues

About Splunk Education

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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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