Implementing Splunk Data Stream Processor (DSP)

This 4-day course is designed for the experienced Splunk administrators who are new to Splunk DSP. This hands-on class provides the fundamentals of deploying a Splunk DSP cluster and designing pipelines for core use cases. It covers installation, source and sink configurations, pipeline design and backup, and monitoring a DSP environment.

Course Topics
- Introduction to Splunk DSP
- Deploying a DSP cluster
- Prepping Sources and Sinks
- Building Pipelines - Basics
- Building Pipelines - Deep Dive
- Working with 3rd party Data Feeds
- Working with Metric Data
- Monitoring DSP Environment

Course Prerequisites
Required:
- Splunk Enterprise System Administration
- Splunk Enterprise Data Administration

Nice to have:
- Architecting Splunk Enterprise Deployments
- Working knowledge of Apache Kafka (user level), Apache Flink (user level), and 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 access SSH on port 22 and HTTPS on port 30000, 30002, 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
- Define DSP concepts and terminologies

Module 2 – Deploying a DSP Cluster
- List DSP core components and system requirements
- Describe installation options and steps
- Check DSP service status
- Learn to navigate in DSP UI
- Use scloud

Module 3 – Prepping Sources and Sinks
- Ingest data with DSP REST API service
- Configure DSP source connections for Splunk data
- Configure DSP sink connections for Splunk indexers
- Create Splunk-to Splunk pass-through pipelines

Module 4 – Building Pipelines - Basics
- Describe the basic elements of a DSP pipeline

Module 5 – Building Pipelines - Deep Dive
- Manipulate pipeline options:
  - Extract
  - Transform
  - Obfuscate
  - Aggregate and conditional trigger

Module 6 – Working with 3rd party Data Feeds
- Read from and write data to pub-sub systems like Kafka
- List sources supported with the collect service
- Transform data from Kafka and normalize
- Write to S3

Module 7 – Working with Metric Data
- Onboard metric data into DSP
- Transform metric data for Splunk indexers and SignalFx
- Send metric data to Splunk indexers
- Send metric data to Splunk SignalFx

Module 8 – Monitoring DSP Environment
- Back up DSP pipelines
- Monitor DSP environment
- Describe steps to isolate DSP service issues
- Scale DSP
- Replace DSP master node
- Upgrade DSP cluster

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