

Implementing Splunk Data Stream Processor (DSP) 1.2 Training

Course Contents

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 - Basic

- Describe the basic elements of a DSP pipeline
- Create data pipelines with the DSP canvas and SPL2
- List DSP pipeline commands
- Use scalar functions to convert data types and schema
- Filter and route data to multiple sinks

Module 5 – Building Pipelines - Intermediate

- Manipulate pipeline options:

- Extract
- Transform
- Obfuscate
- Reduce payload

Module 6 – Building Pipelines - Advanced

- Review Splunk lookups
- Enrich data with DSP lookups
- Populate KV Store lookups from DSP streams
- Manipulate pipeline options
 - Aggregate
 - Conditional trigger
- Introduce the DSP Plugins SDK

Module 7 – Working with 3rd party Sources and Sinks

- 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 8 – Working with Metrics and Traces

- Onboard observability data (log, metric, and trace) into DSP
- Transform metric data for Splunk indexers and Splunk SignalFx
- Transform trace data for Splunk Infrastructure Monitoring
- Route metric data to Splunk indexers and SignalFx
- Send trace data to Splunk SignalFx

Module 9 – Streaming ML Plugin

- Describe the advantage of using DSP Streaming ML plugin
- Enable the Streaming ML plugin in DSP

- List the DSP Streaming ML functions
- Practice DSP ML algorithms with the ML datagen

Module 10 – 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