Arrow ECS Finland Oy - Education Services

TRAINING OFFERING

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Implementing Splunk Data Stream Processor (DSP) 1.2

CODE:	LENGTH:	PRICE:
SPL_ISDSP	32 Hours (4 days)	€2,000.00

Description

This 4 day course is designed for the experienced Splunk administrators who are new to a 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.

Objectives

- Introduction to Splunk DSP
- Deploying a DSP cluster
- Configuring SplunkSources and Sinks
- Building Pipelines - Basics
- Building Pipelines - Intermediate
-
- Building Pipelines - Advanced
-
- Working with 3rd-party Sources and Sinks
-
- Working with Metrics and Traces
-
- Streaming ML Plugin
-
- Monitoring DSP Environment

Prerequisites

Required:

- Splunk Enterprise System Administration
- Splunk Enterprise Data Administration

Recommended:

- Architecting Splunk Enterprise Deployments

Nice to have:

- Working knowledge of open source projects:
    - Apache Kafka (user level)
    - Apache Flink (user level)
    - Kubernetes (admin level)

Programme

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

Session Dates

Aikataulutamme kiinnostuksen mukaan. Ota yhteyttä

Additional Information

This training is also available as onsite training. Please contact us to find out more.