Enterprise Computing Solutions - Education Services

TRAINING OFFERING

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Kubernetes Monitoring Using Splunk IM

CODE:	LENGTH:	PRICE:
SPL_KMUSI	8 Hours (1 day)	€500.00

Description

This 1-virtual day course is targeted to Site Reliability Engineers, DevOps Engineers, and Application Developers who deploy on and/or who manage Kubernetes clusters. This course teaches the skills you need to monitor and troubleshoot your Kubernetes infrastructure with Splunk. We teach how to track and alert on the status of your installation using built-in tools focused on Kubernetes. You will learn to introspect clusters from multiple perspectives and identify potential trouble-indicators. Through in-person discussions and hands-on activities learn multiple ways you can view and automate the monitoring of your clusters and running jobs.

Objectives

- Intro to monitoring Kubernetes
- Monitoring with Splunk's built-in solutions
- Working with Kubernetes metrics
- Investigating issues in a Kubernetes cluster
- Built-in and custom dashboards for Kubernetes
- Automate monitoring with Detectors & Alerts
- Configuring the Kubernetes integration

Prerequisites

Splunk Infrastructure Monitoring Fundamentals

Programme

Module 1: Intro to Monitoring Kubernetes

- Kubernetes overview & terminology
- Resources commonly monitored in Kubernetes
- Monitoring and metrics review
- The Splunk IM solution at a high level

Module 2: Monitoring with Splunk's Built-in Solutions

- The fundamentals of the Kubernetes monitoring solution
- Find cluster data with the Kubernetes Navigator
- Searching for outlier data with built-in content
- Choose and use appropriate Kubernetes dashboards
- Hands-on exploration using this content

Module 3: Working with Kubernetes Metrics

- How Splunk IM collects Kubernetes metrics
- Metrics used to monitor Kubernetes
- Using the Metrics Finder to research Kubernetes metrics

Module 4: Investigate your Kubernetes Cluster

- Viewing a map of your Kubernetes installation
- View details of your nodes, pods and containers
- Using AI to pinpoint the root cause of an issue

- Compare metrics across nodes, pods and containers
- Choosing the appropriate tool for a specific task

Module 5: Dashboard Group for Kubernetes

- Monitoring Kubernetes with the built-in dashboards
- Investigate a problem using dashboards
- Building custom dashboards to monitor Kubernetes

Module 6: Events, Detectors & Alerts

- The role of Events, Detector and Alerts
- How Kubernetes cluster events are imported
- Automate Kubernetes monitoring and alerting with detectors

Appendix 1: Configuring the Kubernetes Integration

- This material is available as a bonus to all students
- The role of the Smart Agent
- Install the Kubernetes integration on your cluster
- Configure the Kubernetes integration
- Monitor apps and services on a cluster

Session Dates

On request. Please contact us

Additional Information

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