



Kubernetes Monitoring with Splunk IM

This 4.5-hour virtual 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 needed to monitor and troubleshoot Kubernetes infrastructure with Splunk. Learn how to track and alert on the status of your installation using built-in tools focused on Kubernetes. Learn to introspect clusters from multiple perspectives and identify potential trouble-indicators. Through in-person discussions and hands-on activities, learn multiple ways to view and automate the monitoring of clusters and running jobs.

Course Topics

- Intro to monitoring Kubernetes
- Monitoring with Splunk's built-in solutions
- Working with Kubernetes metrics
- Investigating issues in a Kubernetes cluster
- Dashboards for Kubernetes
- Automate monitoring with Detectors & Alerts
- Getting Data In: The Splunk OpenTelemetry Connector

Prerequisite Knowledge

Required:

- Splunk Infrastructure Monitoring Fundamentals

Course Format

Instructor-led lecture with labs, delivered via virtual classroom or at your site.

Course Objectives

Module 1 – Introduction 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 IM Built-in Solutions

- The fundamentals of the Kubernetes monitoring solution
- Find cluster data with the Kubernetes Navigator
- 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
- 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 and Alerts

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

Module 7 – Getting Data In

- Overview of the Splunk OpenTelemetry Connector
- How to install the Splunk OpenTelemetry Connector on your cluster
- Customize the Connector for your installation

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To contact us, email Education_AMER@splunk.com

Splunk, Inc.

270 Brannan St. San Francisco, CA 94107

+1 866.GET.SPLUNK (1 866.438.7758)

[Contact sales](#)