# splunk>

# Using Splunk Application Performance Monitoring

This 4.5-hour virtual course targeted to Developers and DevOps enables you to use Splunk APM to analyze traces and troubleshoot and monitor your microservices-based applications. Through discussions and hands-on activities, deep dive into uses of distributed tracing and navigating the Splunk APM app to analyze traces. You will also explore visualizing and alerting on APM metrics and AlwaysOn Profiling to monitor code performance.

## Course Topics

- When to use Splunk APM
- View and Analyze end-to-end Collected Traces
- Find the Root Cause of a Problem

## Prerequisite Knowledge

To be successful, students should have a solid understanding of the following:

Required:

- Familiarity with navigating Splunk Observability Cloud

Strongly Recommended:

- Basic knowledge of visualization and alerting on Splunk IM metrics

## Course Format

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

## Course Objectives

**Module 1 – Overview of Splunk APM**

- Describe Splunk Observability Cloud
- Identify the key elements of Splunk APM
- Differentiate between metrics, traces, and logs

**Module 2 – Environments, Services, and Endpoints**

- Define environments, services, endpoints, and operations
- Explore the APM Overview page and Service Map

**Module 3 – Traces, Spans, Tags, and Business Endpoints**

- Define spans, traces, metrics, metadata in more detail
- Explore Trace Analyzer, Waterfall View, and Tag Spotlight
- Explore Tags and MetricSets

**Module 4 – Profiling and Database Query Performance**

- Define CPU and Memory Profiling
- Explore AlwaysOn Profiling and Database Query Performance

**Module 5 – Troubleshooting Using Splunk APM**

- Create detectors to alert on APM metrics
- Create custom dashboards
- Troubleshoot an issue after an alert triggers

## About Splunk Education

Splunk classes are designed for specific roles such as Splunk Administrator, Developer, User, Knowledge Manager, or Architect.

### Certification Tracks

Our certification tracks provide comprehensive education for Splunk customer and partner personnel according to their areas of responsibility.

To view all Splunk Education's course offerings, or to register for a course, go to http://www.splunk.com/education

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