Observability is an attribute of a system you build, much like usability, high availability, and stability. The goal of designing and building an observable system is to make sure that when it is running, operators responsible for it can detect undesirable behaviors and have actionable information to pin down the root cause in an effective manner. This course walks you through the fundamental skills for achieving observable systems with the Elastic Stack. You will learn how detailed event logs show you whether your systems are running as smoothly as possible. You will also understand how granular resource usage information gives you important insights on how your infrastructure is running. And you will discover how application traces give detailed information about performance and errors inside your applications and services. After completing this course, you will know how to unify your logs, metrics, and APM data in a single datastore with the ability to automatically correlate this data in an intuitive user interface.

**Audience**
Software Developers  
Software Engineers  
Data Architects  
System Administrators  
DevOps

**Duration**
2-3 hours

**Language**
English

**Prerequisites**
No prior knowledge of the Elastic Stack required

**Requirements**
- Stable internet connection  
- Mac, Linux, or Windows  
- Latest version of Chrome or Firefox (other browsers not supported)  
- Disable any ad blockers and restart your browser before class

**Lessons**
All lessons include a hands-on lab.

**Observability with the Elastic Stack**
Learn about the main pillars of observability (logs, metrics, and APM) and why it is important to collect these types of data. Understand how machine learning and uptime data make your systems more observable.

**Metrics**
Dive into what metrics are, how they are different from logs, and why they need to be measured. Discover what Metricbeat is and how it can be used to monitor your system.

**Logs**
Explore common questions we ask of our data and see how logs can help answer those questions. Learn about event data, timestamps, and the log lifecycles. Discover what Filebeat is and how it can be used to collect logs from your system.

**APM**
Discover how Elastic APM can help monitor your applications and services in real time as well as which Elastic Stack components make that happen. Discover how Elastic APM supports distributed tracing and how it enables you to analyze performance throughout your microservice architecture all in one view.