Information Technology

Elastic Observability

Course Introduction

Elastic observability allows the unification of logs, infrastructure metrics, uptime data, application traces, user experience data, and synthetics. 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 training course is designed to provide participants with the essential concepts and fundamental skills for achieving observable systems with Elastic Observability. This course will explore topics such as how to unify your logs, metrics, and APM data in the Elasticsearch Service on Elastic Cloud with the ability to automatically correlate this data in an intuitive user interface.

Target Audience

- Software Developers
- Software Engineers
- Data Architects
- System Administrators
- DevOps

Learning Objectives

- Gain a comprehensive understanding of 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.

- Discover how to deploy Elastic Observability on Elastic Cloud with Fleet and Elastic Agent.
- Understand how detailed event logs show whether systems are running as smoothly as possible.
- Learn how granular resource usage information gives important insights on how an infrastructure is running.
- Explore how application traces give detailed information about performance and errors inside your applications and services.

Course Outline

- **Day 01**
    - **Elastic Observability**
    - The main pillars of observability (logs, metrics, and APM)
    - Importance of collecting these types of data
    - How machine learning and uptime data make your systems more observable.
    - Deploying Elastic Observability on Elastic Cloud with Fleet and Elastic Agent.
    - How to start exploring your observability data.
- **Day 02**
    - **Metrics**
    - What are metrics?
    - Difference of metrics from logs, and why they need to be measured
    - How Elastic Agent can be used to collect metrics from your system
    - **Logs**
    - Common questions we ask of our data and how logs can help answer those questions.
    - Event data, timestamps, and the log lifecycle
    - How the Elastic Agent can be used to collect logs from your system.
- **Day 03**
    - **APM**
    - How Elastic APM can help monitor your applications and services in real time as
    - well as which Elastic Stack components make that happen.
    - How Elastic APM supports distributed tracing
    - How Elastic APM enables you to analyze performance throughout your microservice architecture all in one view.

- **Day 04**
  - **Structuring and processing data**
  - Structuring and processing unstructured data using Elasticsearch ingest
  - nodes.
  - Using the dissect processor to structure your data before indexing it into Elasticsearch.
  - Using ingest pipelines for converting, enriching and processing your data in any way you want.
- **Day 05**
  - **Data Collection**
  - Collecting logs and metrics
  - Collecting APM data
  - Working with Observability data
  - Actionable observability data
  - Visualizing observability data
  - Managing observability data

Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
April 14, 2025	April 18, 2025	5 days	4250.00 $	UAE - Dubai
July 7, 2025	July 11, 2025	5 days	4950.00 $	England - London
Oct. 27, 2025	Oct. 31, 2025	5 days	4250.00 $	UAE - Dubai