

ELK Master Class

Elasticsearch, Beats, Logstash and Kibana

Duration: 4 Days

Prerequisites for this course: Basic Linux Knowledge

Hands-On Format: This hands-on class is approximately 80/20 lab to lecture ratio, combining engaging lecture, demos, group activities and discussions with comprehensive machine-based practical programming labs and project work.

Module 1 – ELK Stack

- Course Overview
- Introduction to Stack
- Stack Components
- Stack Architecture
- Use Cases
- Advantages and Disadvantages

Module 2 – Installation and Configuraion

- Pre-requisites
- Elasticsearch Installation
- Kibana Installation
- Logstash Installation
- Beats Installation
- Verify Installation

Module 3 – Elasticsearch

- Introduction to Elastic Search
- Elasticsearch Fundamentals
- Elasticsearch Architecture
- Elasticsearch REST APIs
- Types of APIs
- Document APIs
- Index APIs
- Search APIs
- Cluster APIs
- Aggregation APIs
- Query DSL
- Elasticsearch Queries
- Managing and Monitoring Elasticsearch Cluster

Module 4 – Kibana

- Introduction to Kibana
- Kibana Fundamentals
- Kibana Search
- Kibana Visualizations
- Kibana Dashboards
- Kibana Management
- Alerting Using Watcher

Module 5 – Logstash

Introduction to Logstash

Logstash Plugins

Input Plugins

Output Plugins

Filter Plugins

Setup Logstash Pipeline for Ingestion of Data into Elasticsearch

Queue Management at Logstash

Module 6 – Beats

Introduction to Beats

Beats Use-cases

Filebeat

Setup Filebeat for Shipping Logs from Client to Elastic Cluster