

Elastic Search, Logstash, Kibana Course Contents(3 days)

By Dr. Vishwanath Rao

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