INFOSOFT IT SOLUTIONS

Training | Projects | Placements

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ELK Stack

ELK stack Course Curriculum

- Overview of ELK
- Components of ELK
- Architecture of ELK

Introduction to Elasticsearch

- Installation and configuration of elasticsearch
- Cluster setup in elasticsearch
- Indexing Data
- Mapping
- Searching
- Populate elasticsearch

Elasticsearch API

- Elasticsearch Document APIs
- Search apis in Elasticsearch
- Aggregation Elasticsearch

Elasticsearch queires and Analysis

- Analysis in Elasticsearch
- Performace of elasticsearch

- Different API available in elasticsearch
- Create filter in elasticsearch
- Get data in elasticsearch
- Put data in elasticsearch
- Api to check health of elasticsearch

Elasticsearch Cluster administration

- Allocate the shards of an index to specific nodes
- Configure shard allocation awareness
- Diagnose shard issues
- Repair health of a cluster
- Backup and restore a cluster
- Configure for a hot/warm architecture
- Configure for cross-cluster search

Introduction to Logstash

- Logstash Installation
- Integrating log stash with Kibana
- Alternative of logstash
- Configure logstash to collect logs
- Parse the Logs
- Log shipping
- Different shipping tool
- Filebeat
- Configure different filebeat
- Integrate filebeat to logstash

Getting Started with Logstash

- How Logstash Works
- Setting Up and Running Logstash

- Upgrading Logstash
- Configuring Logstash

Managing Logstash

- Working with Logstash Modules
- Working with Filebeat Modules
- Data Resiliency
- Transforming Data
- Deploying and Scaling Logstash
- Performance Tuning

Monitoring Logstash

- Monitoring APIs
- Working with plugins
- Tips and Best Practices
- Troubleshooting Common Problems

Introduction to Kibana

- Kibana Installation
- Create alert in Kibana
- Docker role in ELK
- Migrate ELK to Docker

Kibana visualizations

- Visualizations overview.
- Visualization options
- Derivatives,
- Moving averages,
- Multi metrics.

Kibana visualizations

- Develop powerful dashboards
- Customize and share dashboards.
- detect anomalies in data
- Kibana visual builder
- Overview
- Time Series Visual Builder.
- Build complex time series visualizations

  Kibana management

- Setup and manage spaces,
- Advanced settings
- Kibana function