INFOSOFT IT SOLUTIONS

Training | Projects | Placements

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Kibana

Introduction to Kibana

- What is Kibana?

- Understanding the ELK Stack (Elasticsearch, Logstash, Kibana)

- Use cases and benefits of Kibana

- Overview of Kibana's features and capabilities

- Installing and setting up Kibana

Exploring the Kibana Interface

- Accessing the Kibana web interface

- Overview of the main components: Discover, Visualize, Dashboard, Dev Tools, Management

- Basic navigation and user interface layout

- Introduction to Kibana Spaces

Index Patterns and Data Ingestion

- Understanding index patterns

- Index management in Kibana

- Ingesting data into Elasticsearch
- Configuring index patterns for various data sources
- Introduction to Beats and Logstash for data ingestion

Data Exploration with Discover

- Exploring data with the Discover tab
- Searching, filtering, and sorting data
- Time-based navigation and analysis
- Field statistics and visualizations
- Saving and sharing Discover queries

Visualization Basics

- Introduction to data visualization concepts
- Overview of Kibana's visualization types: Line charts, Bar charts, Pie charts, Maps, etc.
- Creating visualizations from indexed data
- Customizing visualizations: Colors, labels, axes, etc.
- Saving and managing visualizations

Building Dashboards

- Introduction to dashboards in Kibana
- Building dashboards from saved visualizations
- Layout and arrangement of dashboard elements
- Adding interactivity with filters, drill-downs, and time pickers
- Sharing and exporting dashboards

Advanced Data Analysis

- Aggregations and metrics: Sum, Average, Max, Min, etc.
- Using scripted fields for custom calculations
- Time series analysis and forecasting
- Geo-spatial analysis and mapping
- Working with nested and parent-child documents

Monitoring and Alerting

- Setting up monitoring for Elasticsearch and Kibana
- Configuring alerts for important events or anomalies
- Using Watcher for proactive monitoring and alerting
- Integration with third-party monitoring solutions

Security and Access Control

- Authentication and authorization in Kibana
- Role-based access control (RBAC)
- Securing sensitive data in Kibana
- Setting up SSL/TLS encryption

Kibana in Production

- Scaling Kibana for production environments
- High availability and fault tolerance
- Performance tuning and optimization
- Backup and disaster recovery strategies

Customization and Extensibility

- Introduction to Kibana plugins

- Installing and managing plugins

- Building custom visualizations and dashboards

- Creating custom plugins for specific use cases

Real-world Use Cases and Best Practices

- Case studies of Kibana implementations in different industries

- Best practices for designing effective dashboards and visualizations

- Tips for troubleshooting and debugging common issues