INFOSOFT IT SOLUTIONS

Training | Projects | Placements

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Kibana Data Analysis

Introduction to Kibana and Elastic Stack

- Overview of Kibana, Elasticsearch, Logstash, and Beats.
- Understanding the role of Kibana in data visualization and analysis.
- Installation and setup of the Elastic Stack.
- Tour of the Kibana interface.

Indexing and Mapping

- Introduction to indexing data in Elasticsearch.
- Mapping data types and properties.
- Index management in Kibana.

Basic Visualizations

- Creating simple visualizations: bar charts, line charts, pie charts.
- Configuring basic visualization options.
- Using Kibana Lens for quick visualizations.

Advanced Visualizations

- Exploring advanced visualization types: heatmaps, histograms, tag clouds.
- Customizing visualizations with aggregations and filters.
- Introduction to Vega and Vega-Lite for custom visualizations.

Data Exploration and Search

- Utilizing Kibana Discover for data exploration.
- Basic and advanced search techniques.
- Introduction to query DSL for complex searches.

Aggregations and Metrics

- Understanding aggregations: metrics, bucketing, and pipeline aggregations.
- Using aggregations for statistical analysis and insights.
- Combining multiple aggregations for complex analysis.

Dashboards

- Creating dashboards to combine multiple visualizations.
- Configuring dashboard layouts and panels.
- Adding interactions and drill-downs to dashboards.

Time Series Analysis

- Analyzing time-based data with Kibana.
- Using Timelion for time series analysis and forecasting.
- Visualizing trends and anomalies in time series data.

Machine Learning with Kibana

- Introduction to machine learning in Kibana.
- Setting up and configuring machine learning jobs.
- Analyzing anomalies and patterns in data with machine learning.

Geospatial Analysis

- Introduction to geospatial data in Elasticsearch.
- Creating maps and geospatial visualizations.

- Analyzing location-based data with Kibana.

Security and Access Control

- Securing Kibana and Elasticsearch with authentication and authorization.
- Configuring role-based access control (RBAC) in Kibana.
- Monitoring and auditing user activities.

Monitoring and Alerting

- Setting up monitoring for the Elastic Stack.
- Creating alerts and notifications in Kibana.
- Using Watcher for automated alerting and actions.

Best Practices and Optimization

- Best practices for Kibana configuration and usage.
- Performance optimization techniques.
- Scaling Kibana for large deployments.

Real-world Use Cases

- Case studies and examples of Kibana usage in different industries.
- Hands-on exercises and projects to apply learned concepts.

Integration and Extensibility

- Integrating Kibana with external systems and tools.
- Developing custom visualizations and plugins for Kibana.
- Exploring the Kibana plugin ecosystem.