Elasticsearch Training

Duration: **3 Day**

BİLGİNÇ IT Academy
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Overview

This Elasticsearch & Elastic Stack training is designed for professionals who want to build powerful search, analytics, and indexing solutions for Big Data environments. Participants will gain hands-on experience from installation to advanced querying, text analysis, distributed systems, and performance optimization.

Prerequisites

- Basic database knowledge
- Understanding of search engines
- Basic Linux command knowledge

Who Should Attend

- Mid to senior software developers
- Data engineers
- Big Data specialists
- Technical architects
- System administrators

What You Will Learn

By the end of this course, you will:

- Understand Elastic Stack components
- Install and configure Elasticsearch
- Apply indexing and querying techniques
- Optimize search with text analysis and mappings
- Manage distributed clusters
- Debug and troubleshoot issues
- Use aggregations for data analytics
- Build real-world applications

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Outline

Elastic Stack Overview

- Elasticsearch, Logstash, Kibana, Beats
- Architecture
- Use cases

Installation & Setup

- Setup and configuration
- Node and cluster

Indexing & Querying

- Index structure
- CRUD operations
- Query DSL

Text Analysis & Mapping

- Analyzers and tokenizers
- Mapping strategies
- Search optimization

Distributed Model

- Sharding and replication
- Cluster management

Aggregations & Analytics

- Metrics and buckets
- Real-time analysis

Monitoring & Debugging

- Logs and troubleshooting
- Performance tuning

Elastic Stack Integration

- Logstash pipelines
- Kibana dashboards
- Beats data collection