

DEVOPS

ADVANCED

5 DAYS

Monitoring and Analytics with Elasticsearch

Build a strong foundation in Elasticsearch by understanding its core concepts, indexing, and querying capabilities. Learn how to visualize data, enable real time monitoring and alerting, and optimize and scale Elasticsearch for large scale search and analytics workloads.

Why Elasticsearch?

Improved operational efficiency

Elasticsearch can help you monitor your systems and applications in real-time. This can help you proactively address issues, reduce downtime, and improve operational efficiency.

Faster troubleshooting

Elasticsearch can help you quickly identify the root cause of issues, reducing the time required for troubleshooting and resolving problems.

Better decision-making

Elasticsearch can provide you with insights into the health and performance of your systems, applications, and infrastructure. Hence, you can optimize your business operations and improve customer experience.

What you'll be able to do

- ✓ Gain a solid understanding of Elasticsearch
- ✓ Learn how to index data into Elasticsearch
- ✓ Learn how to search and query data in Elasticsearch
- ✓ Learn how to visualize data in Elasticsearch
- ✓ Gain insights on how to use Elasticsearch for real-time monitoring and alerting
- ✓ Learn how to optimize and scale Elasticsearch for large-scale deployments

Who this is for

- IT professionals
- Data analysts
- Business managers
- Security professionals

Curriculum

01 Elasticsearch Foundations

- Apply elasticsearch foundations with Elasticsearch in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
- Validate outcomes, logs, and failure modes
- Capture reusable patterns for team standards

02 Logstash and Beats Ingestion

- Apply logstash and beats ingestion with Elasticsearch in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
- Validate outcomes, logs, and failure modes
- Capture reusable patterns for team standards

03 Kibana Visualization

- Apply kibana visualization with Elasticsearch in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
- Validate outcomes, logs, and failure modes
- Capture reusable patterns for team standards

04 Real-time Monitoring and Alerting

- Apply real-time monitoring and alerting with Elasticsearch in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
- Validate outcomes, logs, and failure modes
- Capture reusable patterns for team standards

05 Log and Metrics Analysis

- Apply log and metrics analysis with Elasticsearch in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
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06 Scaling Clusters

- Apply scaling clusters with Elasticsearch in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
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07 Advanced Queries

- Apply advanced queries with Elasticsearch in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
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08 Security Monitoring

- Apply security monitoring with Elasticsearch in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
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09 Machine Learning Features

- Apply machine learning features with Elasticsearch in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
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10 Integrations

- Apply integrations with Elasticsearch in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
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11 Performance Best Practices

- Apply performance best practices with Elasticsearch in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
- Validate outcomes, logs, and failure modes
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12 Troubleshooting

- Apply troubleshooting with Elasticsearch in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
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