

DEVOPS

ADVANCED

5 DAYS

AWS OpenSearch for Rapid Data Analysis

Build a strong foundation in AWS OpenSearch by understanding its architecture, features, and core components. Learn how to provision, ingest data, scale, search, monitor, and troubleshoot OpenSearch clusters to support reliable and high performance search and analytics workloads.

Why OpenSearch?

Powerful Search Capabilities

AWS OpenSearch provides robust search capabilities, allowing you to search and analyze large volumes of data efficiently.

Seamless Compatibility with Elasticsearch

AWS OpenSearch is fully compatible with Elasticsearch, a popular open-source search engine. This compatibility means you can migrate existing Elasticsearch applications.

Scalability and High Availability

OpenSearch is designed to scale horizontally, meaning you can easily handle increasing data volumes and query loads. This scalability ensures that your search infrastructure can grow with your business needs.

What you'll be able to do

- ✓ Gain a comprehensive understanding of AWS OpenSearch's features, architecture, and components.
- ✓ Learn how to provision and configure OpenSearch clusters
- ✓ Explore different methods to ingest data into OpenSearch, including integration with other AWS services
- ✓ Master the search capabilities of OpenSearch
- ✓ Learn how to scale OpenSearch clusters to handle increasing data volumes and query loads.
- ✓ Explore monitoring and troubleshooting techniques for OpenSearch.

Who this is for

- Developers
- DevOps Engineers
- Data Engineers
- Data Analysts
- Solution Architects
- Database Administrators
- Data Scientists

Curriculum

01 OpenSearch Foundations

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

02 Cluster Setup

- Apply cluster setup with AWS OpenSearch in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
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03 Indexing and Ingestion

- Apply indexing and ingestion with AWS OpenSearch in practical DevOps workflows
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04 Search and Querying

- Apply search and querying with AWS OpenSearch in practical DevOps workflows
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05 Security and Access Control

- Apply security and access control with AWS OpenSearch in practical DevOps workflows
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06 Kibana Analytics

- Apply kibana analytics with AWS OpenSearch in practical DevOps workflows
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07 Monitoring and Troubleshooting

- Apply monitoring and troubleshooting with AWS OpenSearch in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
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08 Integrations

- Apply integrations with AWS OpenSearch in practical DevOps workflows
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09 Performance Optimization

- Apply performance optimization with AWS OpenSearch in practical DevOps workflows
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10 HA and Disaster Recovery

- Apply ha and disaster recovery with AWS OpenSearch in practical DevOps workflows
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11 Migration from Elasticsearch

- Apply migration from elasticsearch with AWS OpenSearch in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
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12 Case Studies

- Apply case studies with AWS OpenSearch in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
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