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DevOps Elastic Search Course in 10 Days!!

(N) Navya Cloudops · Following
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This course will cover various aspects of Elastic Search with respect to how it's used in DevOps lifecycle. Each day's curriculum includes a combination of theoretical concepts, practical hands-on exercises, and discussions about best practices and real-world scenarios.

Here's a 10-day course outline with a detailed topic for each day!

Day 1: Introduction to Elasticsearch
Overview of Elasticsearch: What it is and its features.

Understanding the role of Elasticsearch in DevOps.

Installation and setup of Elasticsearch on a local environment.

Basic configuration and understanding of Elasticsearch cluster.

Day 2: Elasticsearch Data Modeling and Indexing

Understanding data modeling concepts in Elasticsearch.

Mapping types and properties.

Creating indexes and defining mappings.

Introduction to indexing and CRUD operations in Elasticsearch.

Day 3: Elasticsearch Searching and Querying

Basic search concepts in Elasticsearch.

Query DSL (Domain Specific Language) fundamentals.

Performing simple searches and aggregations.

Understanding relevance scoring and relevance boosting.

Day 4: Elasticsearch Advanced Querying

Deep dive into Elasticsearch query DSL.

Compound queries (bool, must, must_not, should).

Full-text search and fuzzy matching.

Handling pagination and sorting.

Day 5: Elasticsearch Aggregations

Introduction to Elasticsearch aggregations.

Different types of aggregations: Metrics, Bucketing, and Pipeline.

Understanding terms, range, date histogram, and more.

Using aggregations for analytics and data visualization.

Day 6: Elasticsearch Performance Tuning

Identifying and analyzing performance bottlenecks.

Optimizing search performance.

Indexing best practices for performance.

Hardware considerations and cluster sizing.

Day 7: Elasticsearch Monitoring and Alerting

Overview of Elasticsearch monitoring tools and metrics.

Setting up monitoring and alerting using tools like Elasticsearch Monitoring API, Prometheus, and Grafana.

Understanding cluster health and performance indicators.

Day 8: Elasticsearch Security

Securing Elasticsearch clusters.

Authentication and authorization mechanisms.

Transport and REST layer security.

Role-based access control (RBAC) in Elasticsearch.

Day 9: Elasticsearch Backup and Restore

Importance of backups in Elasticsearch.

Snapshot and restore strategies.

Using built-in snapshot features.

Implementing automated backup solutions.

Day 10: Elasticsearch Deployment Strategies and Continuous Integration/Continuous Deployment (CI/CD)

Deploying Elasticsearch in production environments.

High availability and fault tolerance considerations.

Blue-green deployments and canary releases.

Integrating Elasticsearch into CI/CD pipelines.

Remember, This is a high-level overview, and this course content is specific to Elastic Search and DevOps concepts. This course would also involve scenario based interview questions which would be helpful for each and everyone understanding the concepts with respect to how Elastic Search is used as part of DevOps.

DevOps   Elasticsearch   Course   Learning   Training

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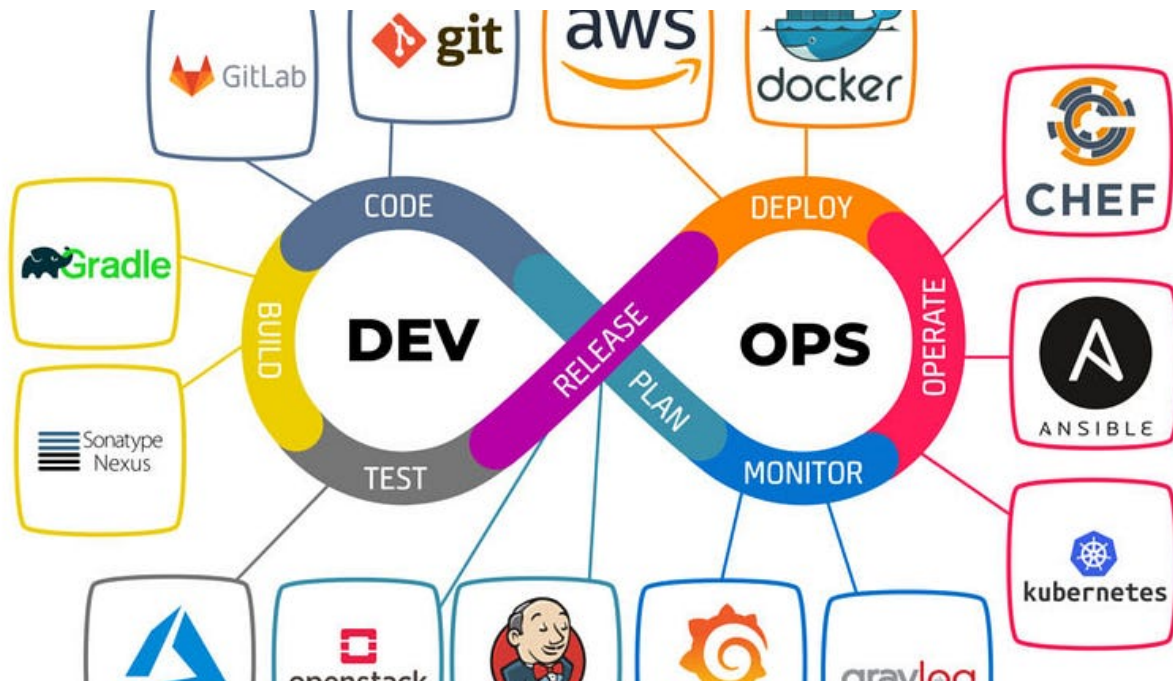

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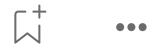
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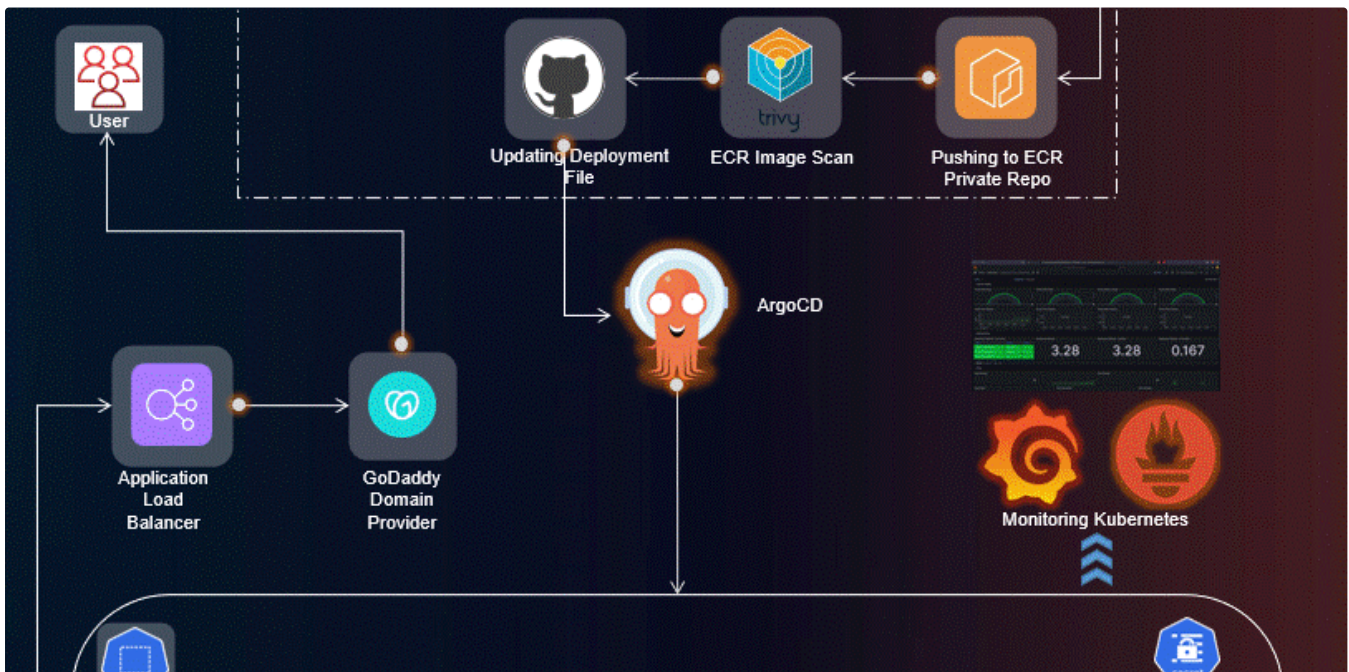👏 2   💬   🔖⁺   •••

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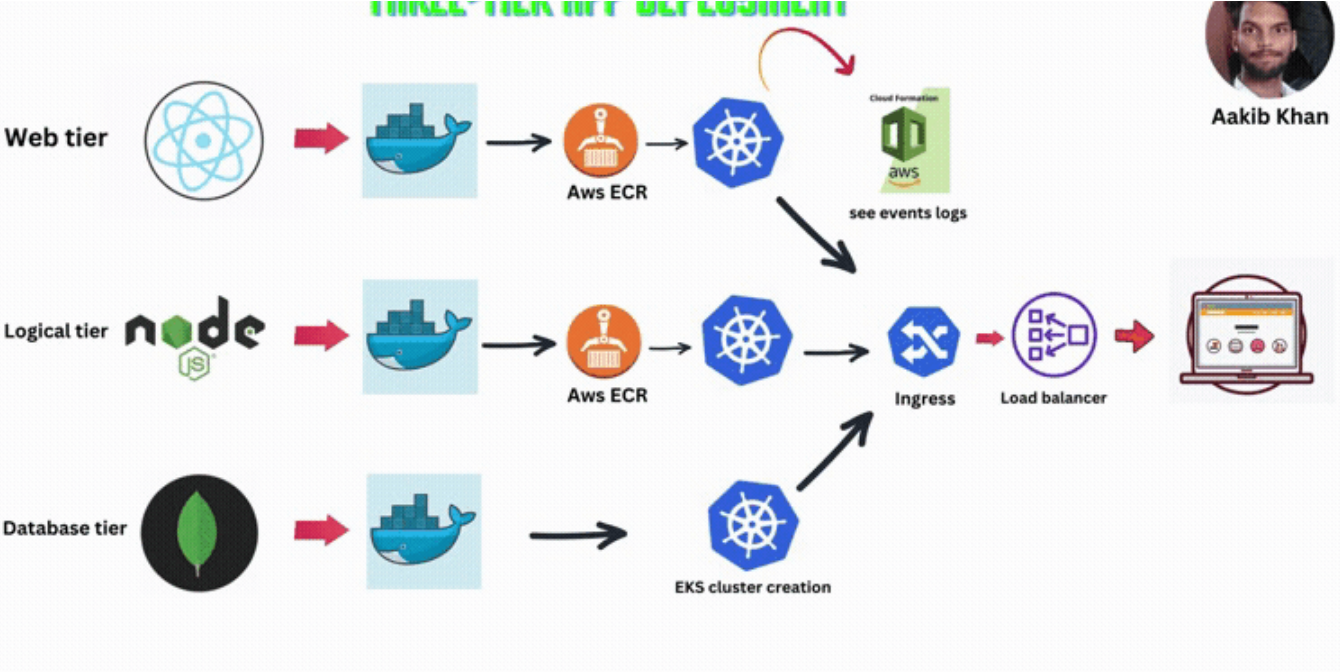
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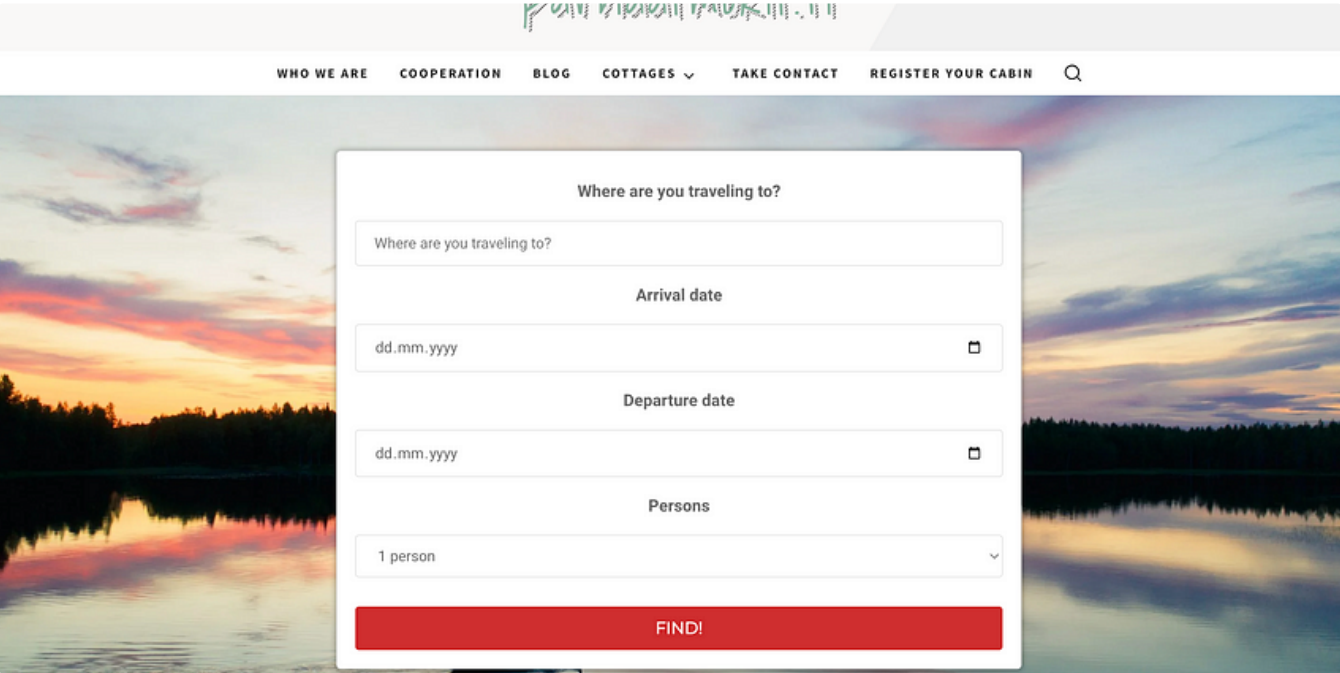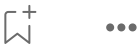## Project 8 → Three tier application deployment on Kubernetes

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