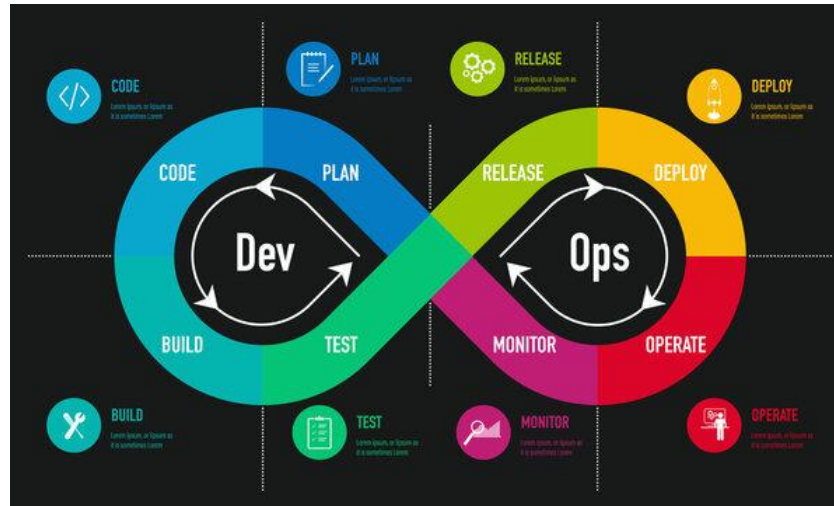# Introduction to Devops

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What Is Devops

DevOps is a method where developers and operations teams work together to quickly and reliably build, test, and deliver software.

Evolution of Devops

1. **Traditional IT (Before 2000s):**
   - Dev and Ops worked separately
   - Software was released slowly, with long delays and more bug
2. **Agile Movement (Early 2000s):**
   - Teams started working in short cycles
   - Faster development, but operations still lagged behind
3. **Birth of DevOps (Around 2009):**
   - Developers and operations started working together
   - Shared responsibility for building and running software
4. **DevOps Tools and Automation (2010s):**
   - Rise of tools like Jenkins, Docker, Kubernetes
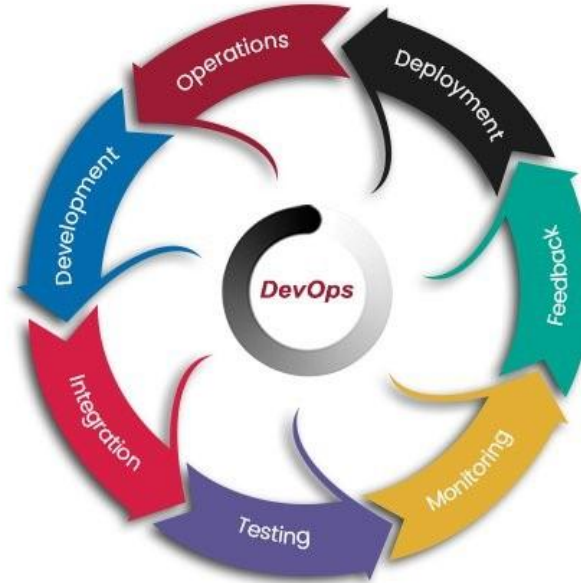   - Automation of testing, deployment, and infrastructure

Evolution of Devops

5. **Modern DevOps (Now):**
- Cloud computing, AI, and advanced monitoring
- Continuous delivery, microservices, and full automation.

Devops Life Cycle

Devops In Cloud

- **Scales easily** – Add more power when needed.

- **Faster deployments** – Push updates quickly.

- **Lower cost** – Pay only for what you use.

- **Easy automation** – Use cloud-based CI/CD tools.

- **Better collaboration** – Teams can work from anywhere.

OCI Devops As A Service

- OCI DevOps as a Service is Oracle's modern solution for software delivery automation. It offers a complete DevOps pipeline in the cloud, from code to production, making it easier for organizations to adopt continuous integration and continuous delivery (CI/CD) without managing infrastructure.

- Cloud Based CI/CD Platform

Devops As A Service (DAAS)

DevOps as a Service is a cloud-based delivery model that provides DevOps tools, automation, and processes as a managed service. Instead of building and managing your own DevOps setup, you use a pre-configured, scalable, and fully managed platform often provided by a cloud provider.

Multiple DevOps as a Service Models

Self-service DevOps as a Service

Managed DevOps as a Service

Hybrid DevOps as a Service

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Tools Of DevOps

- ❖ Version Control: Git And Git Hub

- ❖ CI/CD Tools: Jenkins , github labs CI , Oracle DevOps

- ❖ Monitoring & Logging: Datadog ,Prometheus + Grafana

- ❖ Security: Aqua Security, SonarQube

Thank You