INFOSOFT IT SOLUTIONS

Training | Projects | Placements

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DEVOPS

Introduction to DevOps

- Definition of DevOps
- History and evolution of DevOps
- Principles and goals of DevOps
- Benefits of adopting DevOps practices

DevOps Culture and Organization

- Cultural aspects of DevOps (collaboration, communication, trust)
- Organizational considerations (team structures, roles and responsibilities)
- Building a DevOps culture in an organization
- DevOps and Agile methodologies

DevOps Tools and Infrastructure

- Continuous Integration (CI) and Continuous Deployment (CD) concepts
- Version control systems (e.g., Git)
- CI/CD pipelines and tools (e.g., Jenkins, GitLab CI/CD, Travis CI)
- Configuration management (e.g., Ansible, Chef, Puppet)
- Containerization and container orchestration (e.g., Docker, Kubernetes)
- Infrastructure as Code (IaC) principles and tools
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Monitoring and Logging

- Importance of monitoring and logging in DevOps
- Metrics and monitoring tools (e.g., Prometheus, Grafana)
- Log management and aggregation

DevOps Practices

- Agile development and DevOps integration
- Test-driven development (TDD) and automated testing
- Continuous Testing strategies
- Release management and deployment strategies
- Security practices in DevOps

DevOps Automation

- Benefits and principles of automation
- Scripting languages for automation (e.g., Bash, Python)
- Automated provisioning and deployment
- Automated testing and validation

Cloud Platforms and DevOps

- Introduction to cloud computing (AWS, Azure, Google Cloud)
- Cloud services and their role in DevOps
- Cloud-native architecture and microservices

Case Studies and Best Practices

- Real-world examples of successful DevOps implementations
- Best practices for implementing DevOps in different environments (startups, enterprises, etc.)
- Challenges and solutions in adopting DevOps
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DevOps Culture and Soft Skills

- Communication and collaboration tools
- Leadership and cultural transformation
- Change management and continuous improvement