

INFOSOFT IT SOLUTIONS

Training | Projects | Placements

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DevSecOps

Introduction to DevSecOps

- Overview of DevSecOps Principles
- Evolution from DevOps
- Importance of Integrating Security

DevOps Foundations Review

- Key Concepts of DevOps
- Continuous Integration and Continuous Deployment (CI/CD) Pipelines
- Automation Tools (e.g., Jenkins, GitLab, Travis CI)

Security Fundamentals for DevOps

- Understanding Security in Software Development
- Common Security Threats and Vulnerabilities
- Security Principles (Confidentiality, Integrity, Availability)

Integrating Security in CI/CD Pipelines

- Security Automation Tools (e.g., Static Application Security Testing - SAST, Dynamic Application Security Testing - DAST)
- Continuous Security Testing

- Container Security (Docker, Kubernetes)

Infrastructure as Code (IaC) Security

- Introduction to Infrastructure as Code
- Security Best Practices for IaC
- Automated Compliance Checking

Securing Cloud Environments

- Cloud Security Principles
- Identity and Access Management (IAM)
- Monitoring and Logging

DevSecOps Culture and Collaboration

- Building a Security Culture
- Collaboration between Development, Security, and Operations Teams
- Roles and Responsibilities

Compliance and Governance

- Regulatory Compliance Requirements (e.g., GDPR, HIPAA)
- Audit and Reporting
- Security Policies and Standards

Incident Response and Recovery

- Incident Response Planning
- Security Incident Management
- Post-Incident Review and Improvement

Continuous Learning and Improvement

- Metrics and KPIs for DevSecOps
- Feedback Loops and Continuous Integration
- Future Trends in DevSecOps

Additional Considerations:

- Guest Speakers from Industry
- Hands-on Workshops and Labs
- Simulation Exercises (e.g., Red Team/Blue Team)