

# Introduction to DevOps: Principles, Practices, and Tools

2027 12 – 8  
Cape Town (South Africa)

UK Training

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### Day 3: Continuous Delivery and Deployment

- Principles of continuous delivery and deployment
- Deployment strategies and best practices
- Containerization with Docker
- Container orchestration with Kubernetes basics

### Day 4: Infrastructure as Code and Configuration Management

- Introduction to infrastructure as code
- Using Terraform for infrastructure provisioning
- Configuration management with Ansible
- Creating and managing automated environments

### Day 5: Monitoring, Logging, and DevOps Culture

- Monitoring and alerting best practices
- Log management and analysis
- Implementing feedback loops
- Fostering a DevOps culture and overcoming challenges

### Individual Impact

- Develop confidence in using DevOps tools to automate and optimize software delivery.
- Gain practical skills to implement CI/CD pipelines and infrastructure automation.
- Strengthen problem-solving and collaboration abilities in a DevOps environment.
- Acquire knowledge to foster a culture of continuous improvement across development and operations teams.

### Work Impact

- Streamline software delivery and deployment processes.
- Reduce operational inefficiencies and increase system reliability.
- Improve collaboration between development and operations teams.
- Enable faster, safer, and more consistent release cycles in your organization.

### Training Methodology

This course uses a combination of hands-on exercises, real-world scenarios, and interactive workshops:

- Practical labs on Git, Jenkins, Docker, Kubernetes, Terraform, and Ansible.
- Building CI/CD pipelines and automated deployment workflows.
- Infrastructure automation and configuration management exercises.
- Monitoring and logging simulations to implement feedback-driven improvement.
- Case studies and group discussions on fostering a DevOps culture.

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## Beyond the Course

Upon completion, participants will be ready to:

- Implement end-to-end CI/CD pipelines in their projects.
- Automate infrastructure provisioning and environment management.
- Monitor applications effectively and respond to operational issues proactively.
- Drive DevOps adoption and continuous improvement within their organizations.

A decorative graphic in the bottom right corner featuring a chessboard with several pawns. A large gold king piece is prominent in the foreground, with other pawns in gold and silver behind it. Concentric circles emanate from behind the king piece.

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