

DevOps Introduction

Course Outline

- Introduction to DevOps
 - Definition of DevOps
 - Brief history of DevOps
 - Key concepts and principles of DevOps
- DevOps Culture
 - Importance of collaboration and communication in DevOps
 - The role of DevOps in organizational culture
 - Discussion on the cultural challenges in adopting DevOps
- DevOps Practices and Tools
 - Continuous Integration and Continuous Deployment
 - Configuration Management and Infrastructure as Code
 - Monitoring and Logging
 - Automated Testing and Deployment
- DevOps Workflow
 - The role of DevOps in the software development life cycle
 - The concept of "Shift Left"
 - Overview of the DevOps pipeline
- Cloud Computing and DevOps
 - The impact of cloud computing on DevOps
 - Overview of cloud infrastructure services and tools
 - Discussion on cloud deployment and automation
- Security in DevOps
 - Overview of security threats and challenges in DevOps
 - Best practices for security in DevOps
 - Discussion on the role of DevSecOps
- Q&A and Wrap-up
 - Final questions and clarification on any topics covered
 - Summary of key takeaways from the course
 - Next steps for further learning