

INFOSOFT IT SOLUTIONS

Training | Projects | Placements

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AZURE DEVOPS SERVICES

Introduction to Azure DevOps Services

- Overview of Azure DevOps Services
- Key features and benefits
- Agile methodologies and DevOps principles

Getting Started with Azure DevOps

- Creating and configuring an Azure DevOps organization
- Navigating Azure DevOps interface
- Managing users and permissions

Version Control with Azure Repos

- Setting up Git repositories in Azure Repos
- Branching and merging strategies
- Pull requests and code reviews

Continuous Integration (CI) with Azure Pipelines

- Introduction to CI/CD pipelines
- Creating build pipelines
- Configuring build agents and environments

Continuous Deployment (CD) with Azure Pipelines

- Setting up release pipelines
- Deployment strategies (e.g., rolling deployments, blue-green deployments)
- Environment and variable management

Infrastructure as Code (IaC) with Azure Pipelines

- Introduction to Infrastructure as Code (IaC)
- Integrating Azure Pipelines with ARM templates
- Automated provisioning and deployment of Azure resources

Testing and Quality Assurance

- Implementing automated testing in Azure Pipelines
- Code quality checks and static code analysis
- Integration with testing

Monitoring and Feedback

- Monitoring pipeline performance and health
- Integration with application insights and monitoring tools
- Gathering feedback using Azure Boards and Azure Test Plans

Azure DevOps Extensions and Marketplace

- Exploring Azure DevOps extensions
- Customizing and extending Azure DevOps functionality
- Best practices for integrating third-party tools and services

Security and Compliance

- Implementing security best practices in Azure DevOps
- Role-based access control (RBAC)
- Compliance considerations and auditing

Advanced Topics

- Implementing multi-stage pipelines
- Containerized deployments with Docker and Kubernetes
- Integrating Azure DevOps with Azure Functions and serverless architectures