



Workflow Template: Infrastructure as Code (IaC) with Azure DevOps

1. Set Up the Development Environment [#SetUp]

- ☐ Install necessary development tools
 - ☐ Visual Studio Code
 - ☐ Git
 - ☐ Azure CLI
- ☐ Set up workspace
 - ☐ Create a new directory for the project
 - ☐ Initialize Git repository

2. Create the Application Code [#AppCode]

- ☐ Write application code
 - ☐ Create a new branch for the application code
 - ☐ Write the code
 - ☐ Test the code locally
- ☐ Push the application code
 - ☐ Commit changes to the repository
 - ☐ Push changes to the remote repository

3. Infrastructure as Code (IaC) [#IaC]

- ☐ Create Infrastructure Configuration
 - ☐ Create a new branch for the IAC
 - ☐ Write the infrastructure configuration using tools such as Terraform, ARM Templates, etc.
 - ☐ Test the infrastructure code locally
- ☐ Push the IaC
 - ☐ Commit changes to the repository
 - ☐ Push changes to the remote repository

4. Azure DevOps [#AzureDevOps]

- ☐ Create a new project in Azure DevOps
 - ☐ Set up Boards for tracking work
 - ☐ Configure project settings
- ☐ Setup Pipelines
 - ☐ Create a build pipeline for the application code
 - ☐ Create a release pipeline for the IAC
- ☐ Setup Environments
 - ☐ Define the different environments (e.g., Dev, Test, Production)

5. Azure Portal Resources [#AzurePortal]

- ☐ Create necessary resources in Azure Portal
 - ☐ Create Resource Groups
 - ☐ Create Storage Accounts
 - ☐ Create Virtual Networks

6. Deploy and Test [#DeployAndTest]

- ☐ Deploy application code
 - ☐ Merge application code branch into master
 - ☐ Run the build pipeline
- ☐ Deploy IAC
 - ☐ Merge IAC branch into master
 - ☐ Run the release pipeline
- ☐ Test the deployment
 - ☐ Verify the application is running correctly
 - ☐ Verify the infrastructure is set up as expected

7. Review and Closeout [#Review]

- ☐ Conduct end of project review
 - ☐ Review any outstanding issues on the Boards
 - ☐ Review the application and infrastructure performance
 - ☐ Document lessons learned

- ☐ Close out the project
 - ☐ Archive the project in Azure DevOps
 - ☐ Clean up any unnecessary resources in Azure Portal