MongoDB setup with Azure Devops

MongoDB Atlas

* Create a Mongodb cluster with the ip address to be accessible from everywhere. So that we can access the Database from anywhere.
* Select the provider as “Azure” and finish the setup of MongoDB
* Copy the Connection String which can be used later.

Azure Devops

* Log in to Azure devops website
* Create a new Project with and provide a name.
* Connect the GitHub repository with the Azure Devops.
* Set up the Git repository in Azure DevOps, where the application code is stored.

Setup the Pipeline

* In the project, navigate to the Pipelines and then Library.
* Create the environment variable to protect the sensitive information.
* Add the connection string woth the username and password to the environment variable.
* In the pipeline YAML file, add steps to set up your environment and ensure that the MongoDB connection string is passed into the application.

Deploying with Azure Pipelines to Azure App Service

* Create an Azure App Service instance for your Node.js application.
* Add the Azure App Service task to your pipeline YAML.

Run the Application

* Once the pipeline is set up, it will pull the code from your repository, install dependencies, build the app, and start it using the MongoDB connection string stored in the pipeline secrets.
* After running the pipeline, ensure that the application connects to MongoDB successfully and that the deployment process works end-to-end.

Monitor and Debug Pipeline Runs

* Once the pipeline is set up, every time you push to the specified branch (like master), Azure DevOps will automatically run the pipeline, build your app, and deploy it if set up.
* You can monitor the pipeline run and inspect logs in case any issues arise. Azure DevOps provides detailed logs for each step in the pipeline.

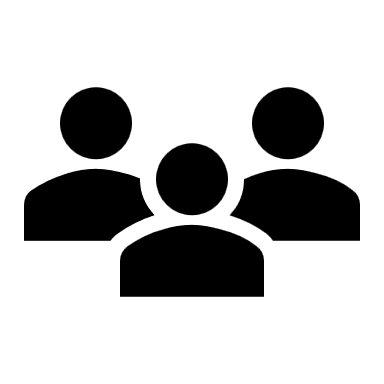
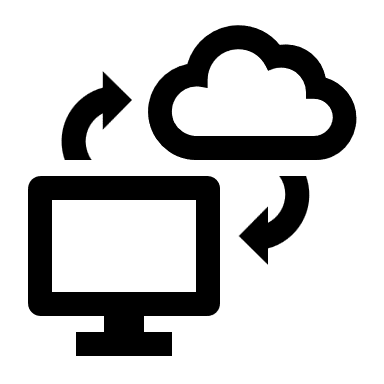
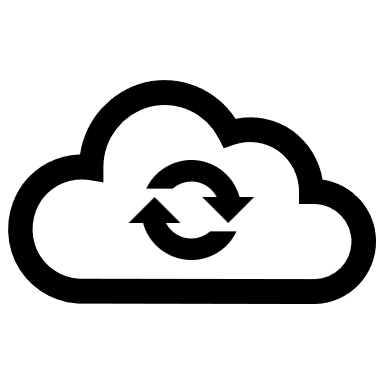
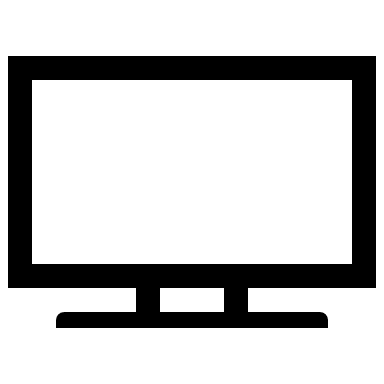
CI/CD (Continous Integration / Continous Deployment)

How it works,

The Developer develops the Application and pushed it to the github.

Every time the github is commited, It trigger the Pipeline in the Cloud(Azure).

When the Pipeline is triggered, the Application is re-deployed everytime the pipeline is triggered.



Server

(Azure cloud)

Project Deploy

GithHub

Developers