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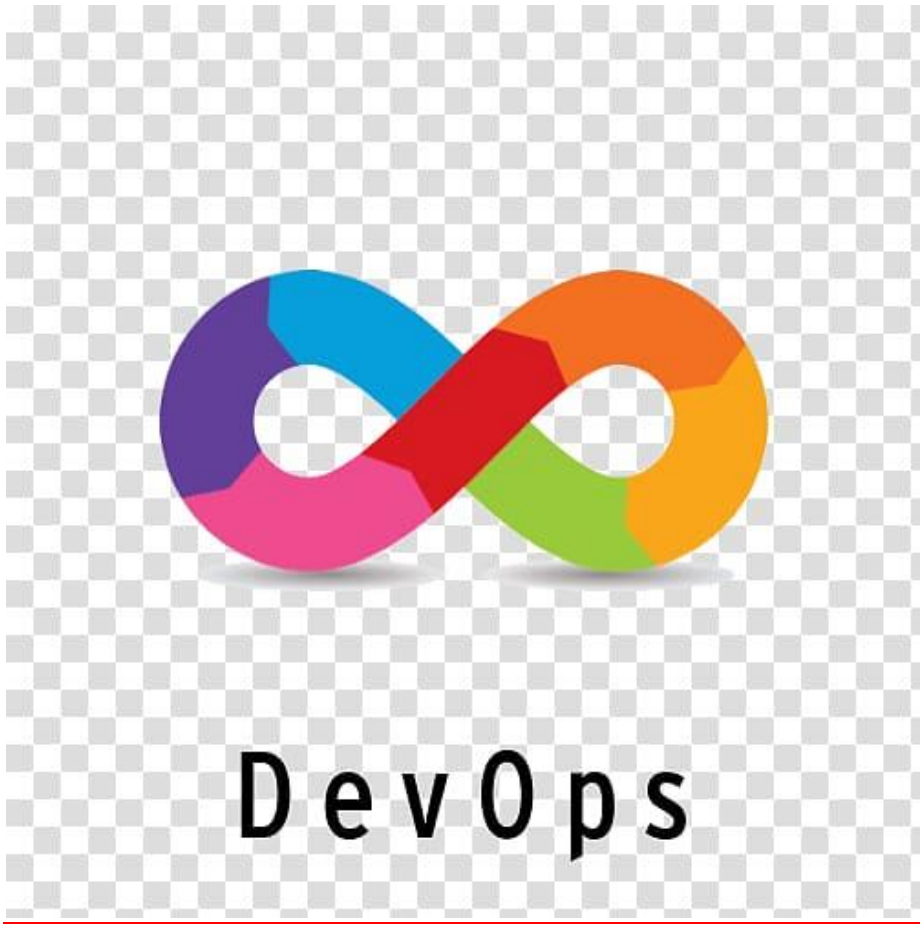
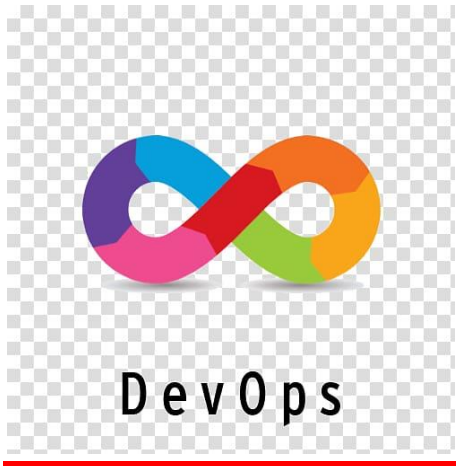
DevOps Engineer Diploma



DevOps Engineer Diploma



AWS Labs

Lab 09

Dockerize a Node.js Application and Push to GitHub

Lab Objectives

- Creating Dockerfiles for Node.js Applications
- Building and Running Docker Containers Locally
- Managing Application Dependencies in Docker
- Exposing Application Ports for Local Deployment
- Using Git and GitHub for Version Control
- Pushing Dockerized Projects to GitHub Repositories
- Verifying Containerized Application Deployment

Source Code Link:
GitHub Repository

Branch Name: `nodejs-docker-task`

Task Title:

Dockerize Node.js Application and Push to GitHub

Objective:

Create a **Dockerized version** of the provided Node.js application and **deploy it locally** on your machine. Then, upload the project to your **personal GitHub repository** under a dedicated branch.

Requirements:

1. Dockerization

- Create a **Dockerfile** to containerize the Node.js app.
- The image must:
  - Install dependencies using `npm install`
  - Expose the correct port used by the app (e.g., **3000**)
  - Run the application using `npm start` or the defined start command in **package.json**

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2. Local Deployment

- Run the container **locally** and verify that the application works correctly.

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3. GitHub Submission

- Create a **new branch** in your GitHub repository named **`nodejs-docker-task`**.
- Push the Dockerized project (including **Dockerfile** and all related files) to that branch.
- Example commit message:

  Added Dockerfile and container setup for Node.js app

Deliverables:

- **GitHub repository link**
- **Branch name:** `nodejs-docker-task`
- **Screenshot** showing the running container on **localhost**

You are Welcome