

## DevOps Certification Program



## Capstone Project

### DevOps Certification Training

## Problem Statement

You work as a DevOps engineer at Zendrix Corporation. Since the time you joined, you have made a lot of changes to how the organization works internally with its technical team.

For your next set of initiatives following are the things that you plan to do.

1. Dockerize the production app.

2. Use Kubernetes to deploy this app.
3. Create a Jenkins freestyle pipeline to deploy the latest version of the app the moment there is a change on the GitHub repo.
4. Test the website at port 85, to verify the app is working. If the test case is passed, the application will be deployed on Kubernetes.
5. Create a new pipeline to deploy the application on Kubernetes using your custom image of the application from Dockerhub. Make sure your application is visible as a NodePort Service.
5. Create the required infrastructure using Terraform and Install Java on machines using Configuration Management Tool(Ansible)

Github link for the app: <https://github.com/rushtoakshay/DevOpsProfessional.git>

Below is the pipeline overview –

