SANAT KUMAR PANDA

DevOps Enthusiast

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PROFILE

Recent graduate aspiring to excel as an AWS DevOps Engineer, combining theoretical expertise with practical project implementation. Eager to contribute innovative solutions for seamless cloud infrastructure and automation.

SKILLS

Linux GitHub Docker Helm Terraform CI/CD Ansible Kubernetes
Python AWS Jenkins Bash Grafana Cloudformation MySQL

PROJECTS

Two-tier Flaskapp Deployment
October 2023 | https://github.com/sanatkp84/two-tier-flaskapp.git

- Led the deployment of a two-tier Flask-based Todo application with a MySQL backend, concentrating on optimizing scalability for a large user base.
- Utilized Docker and Docker Compose for effective containerization, ensuring portability and version control through Dockerhub.
- Automated Kubernetes cluster setup using kubeadm and later transitioned to AWS EKS for enhanced fault tolerance.
- Implemented Helm for systematic packaging of Kubernetes manifest files, streamlining deployment and configuration management.
- Orchestrated a multi-node cluster setup, deploying the application with a load balancer for efficient traffic distribution.

Setup CI/CD Pipeline using Jenkins
August 2023 | https://github.com/sanatkp84/Node-todo-app.git

- Initiated the development of a Continuous Integration/Continuous Deployment(CI/CD) pipeline to automate the deployment of a Nodejs Todo application hosted on an EC2 instance.
- Provisioned an EC2 instance and installed Jenkins to establish a CI/CD environment.
- Cloned the Todo app code from GitHub and Dockerized the Todo app through the creation of a Dockerfile, ensuring portability and reproducibility.
- Integrated GitHub with Jenkins, employing public and private SSH keys for secure communication.
- Configured a Jenkins job to execute Docker build and run commands within the pipeline.
- Implemented GitHub webhook for seamless automation of the deployment process.

Creation of Infrastructure using Terraform
July 2023 | https://github.com/sanatkp84/Terraform_Mega_Project.git

- Implemented Terraform modules for organized, reusable resource management.
- Streamlined deployment with "Terraform apply" command.
- Incorporated EC2 instances, S3 Buckets, and DynamoDB tables within Terraform modules for diverse infrastructure needs.
- Utilized variable inputs for adaptability, enabling easy customization for different environments (Dev, QA, Production).
- Implemented secure tear-down with "terraform destroy" for efficient resource cleanup.

EDUCATION:

2020 - 2024 | GITA Autonomous College
Bachelor of Technology - Computer Science | 9.3CGPA

2019 - 2020 | Jupiter Higher Secondary School
12th - Science | 72.8%

CERTIFICATES

- AWS Solution Architect Associate - Udemy
- Advance DevOps - Train With Shubham
- TCS National Qualifier Test - Cognitive
- ChatGPT & AI Tools - Skill Nation