Sunderasen

Cloud Operations Engineer

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Executive Summary

A results-driven Cloud Ops Engineer with 1.5 years of experience in cloud environments. Skilled in managing CI/CD pipelines, cloud infrastructure, and containerized applications using Docker. Proficient in monitoring systems with Prometheus and Grafana, optimizing server performance, and ensuring secure, scalable cloud operations. Focused on delivering efficient, reliable solutions to enhance system performance and drive business results.

Skills

- **Environment:** Linux (Debian, Mint, CentOS), Windows, Ansible, Shell, Bash, Virtualbox
- **Version Control:** Git, Github, Gitlab
- **Cloud Infra:** AWS (EC2, VPC, IAM, RDS, S3, CW, CF, NFS, R53, Amplify, ECR)
- **Servers:** Apache, NGINX,Lamp,ReverseProxy,Loadbalancer
- **Scripting:** Shell, Python
- **Containerization:** Docker, ECS, Dockerhub
- **Security:** WAF, Sonarqube, Depscan
- **Monitoring:** Prometheus, Grafana
- **Others:** Hardware And Networking, Server management, Firewall management

Education

St Thomas College Of Arts and Science, BSC in Computer Science   July 2020 - July 2023

- CGPA: 7.5 / 10 (Transcript)
- **Coursework:** Computer Architecture, Artificial Intelligence, Comparison of Learning Algorithms, Operating Systems , Computer Networks.

Experience

Project Engineer, Tabtree It Consulting – Chennai   June 2023 – Present

- Set up Development, Staging, and Production environments on both cloud and local servers.
- Configured Nginx as a reverse proxy according to development requirements and set up SSL for implemented servers and applications.
- Set up Git repositories and GitHub Actions CI/CD pipelines in GitHub Enterprise to build and deploy code on cloud servers.
- Maintained security in GitHub and cloud environments effectively using WAF and GitHub Advanced Security. Implemented IP-based restrictions and branch protection in GitHub.
- Wrote scripts to automate daily backups and recurring tasks.
- Set up SonarQube and DepScan for code scanning and security, and for scanning package dependencies.
- Set up autoscaling for servers that required dynamic configuration.
- Monitored over 20 servers effectively using Prometheus and Grafana, set alerts for those servers, and managed downtime efficiently.

Projects

Open Source Ticketing Tool Deployment: github.com

- Set up ITOP, an open-source ticketing tool, on an EC2 Ubuntu server.
- Secured the system with a firewall and an RDS MySQL database for reliable storage.
- Implemented SSL certificates and a domain name to ensure secure access.
- Configured Apache to handle requests efficiently and provide a user-friendly experience.
- Streamlined ticketing operations to improve communication and task management within the organization.
- Utilized tools and resources: EC2 Ubuntu server, RDS MySQL, domain name, SSL certificate, PHP, MySQL, and Apache2

Containerized MERN Stack Deployment on AWS using CI-CD:

- Handled containerization of a MERN stack app using Docker.
- Set up and managed the CI/CD pipeline with Jenkins, integrated with GitHub for automatic builds, testing, and deployment.
- Deployed Docker images to AWS ECR and managed the application on AWS EC2.
- Conducted security checks using SonarQube for code quality and Trivy for vulnerabilities, adhering to OWASP security practices.
- Configured Nginx as a load balancer and reverse proxy to enhance scalability and availability.
- Tools used: Linux, Docker, Jenkins, GitHub, AWS ECR, AWS EC2, SonarQube, Trivy, Nginx, OWASP.

Certification

Python Scripting Certification   Dec - 2023

- Besant Technologies Credential ID BFT-98B099

- Learned the basics of Python, including loops and conditional statements.

- Gained experience in scripting and using Boto3 for AWS.