

DevOps and Build Release Engineer

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Bharath H

IT Professional with about 4 years of experience as a DevOps Engineer, in Infrastructure automation, code migration, Configuration Management, and system administration. Experience in setting up the infrastructure on AWS.

SKILLS

Operating Systems and Software: **Linux/UNIX**; Programming Languages : **Bash Shell scripts, Python**; Build Tools: **Maven** ; Version control tools: **GIT, GitHub**; CI tools like **Jenkins** ; Bug tracking tools like **Jira**; Cloud: **AWS**; Automation Tool: **Ansible**; Containerization: **Docker**; Other Tools: **Helm Chart, Prometheus , SonarQube, Artifactory**; Container Orchestration: **Kubernetes** IaC: **Terraform**

EXPERIENCE

Company Name: Thomson Reuters, Bangalore from June 2019 to till date

Project Description:

5G Wireless Networks :

The key benefit is the increased bandwidth, which leads to higher download speeds eventually upto 100Gbps. This high-speed network will not only serve cellphones but also other devices, such as Internet of Things (IoT) devices, autonomous vehicles, and smart homes. The faster download speeds will enable better communication and faster transfer of data between devices, improving efficiency and productivity.

E-Commerce Website:

This is Basically a java based project, this project involves in development of an e-commerce website that focuses on promoting and selling products online. The website is likely to offer various features, such as a product catalog, shopping cart, payment gateway, and customer support.

Roles and Responsibilities:

- I am an IT professional with 4 years of experience in DevOps, working with 28 Microservices, and Cloud Engineering. My primary focus is on increasing velocity, reliability, and quality while maintaining high security standards.
- Set up and managed 40+ Linux servers with 99% up-time.
- I have been successful in planning, Building, Configured, and deployed 10+ applications across different environments, including DEV, UAT, Pre-Production, and Production & setting up SCM/build tools for Developers.
- I am proficient in automating manual tasks and processes through the use of both Shell scripting and Python.
- I have developed, implemented and automated CI/CD pipelines using Jenkins for Microservices-based applications by using Agile methodology.
- Solved a Problem of not able to use multiple Jenkins masters & no coordination between them by using Gearman plugin.
- Setting up new development branches, merging branches, facilitating the releases setting up the new Repos, managing the permissions for various GIT branches creating git stashes and setting up webhooks for Jenkins job.
- I have hands-on experience in working with AWS cloud infrastructure, including EC2, Auto Scaling, Elastic Load Balancer, EBS and EFS, S3, CloudFront, RDS, VPC, Route53, CloudWatch, CloudFormation, IAM, ECR, and EKS.
- Additionally, Simplify the Image build Stages and made the dockerfile simple and readable by multistage build dockerfile.
- I have provided a consistent environment using Kubernetes for deployment, scaling, and load balancing of applications from development through production easing the code development and deployment pipeline by implementing Docker Containerization with multiple namespaces.
- Deployed and managed containerized applications using AWS Elastic Container Service (ECS) and Kubernetes on Elastic Kubernetes Service (EKS)
- I've Setup PV and PVC to represent a physical storage resource and to requests a specific amount of storage from the storage class.
- Also done troubleshooting and fixed different kinds of Kubernetes pod issues like Pod crash loop, Networking issues, and Volume mounting issues and found solution with the help of Incident Management Tools.
- I have increased Kubernetes cluster security by 50% by implementing RBACs, network policies, and audit toggling.

- Several times I've deployed Helm charts to Kubernetes using Helmfile as a declarative configuration for deploying reproducible builds of Kubernetes applications.
- Furthermore, I have done installing and upgrading 250+ of Kubernetes clusters and implementing auto-scaling using Horizontal Pod Autoscaling (HPA) and Vertical Pod Autoscaling (VPA).
- Wrote many Terraform files to build 100's of server on a single Run
- Created and updated Ansible playbooks to automate deployment and configuration of the created infrastructures.
- Monitored and managed infrastructure using tools like Prometheus and Grafana , ensuring availability, security, and meeting SLAs.
- Disaster Recovery, I've worked on developing and implementing plans to ensure that critical systems and data can be recovered in the event of a disaster or outage by taking regular backups, failover to secondary systems, and offsite replication of data.
- High Availability, I've experience implementing solutions to ensure that critical systems are always available and operational by designing and configuring systems with redundancy and failover capabilities to minimize downtime and ensure continuous service availability.

EDUCATION

- **BE** - Bapuji Institute of Engineering and Technology, Davanagere - Visvesvaraya Technological University.
- **12th** - Jagadguru Kodimutt PU College, Arsikere - Karnataka Board of the Pre-University Education.
- **10th** - Sri Adichunchanagiri High School, Arsikere - Karnataka Secondary Education Examination Board.