BALARAJU GAYATHRI – AWS-DEVOPS

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Professional Summary

➢ Qualified professional with 5+ years of experience in IT managing AWS cloud infrastructure and deployments following DevOps process.

➢ Adept at Version control (Git/GitHub), CI/CD (Jenkins), Configuration Management tool (Ansible), Docker, Kubernetes, Provisioning tool (Terraform).

➢ Well-versed in using AWS services like EC2 (Load Balancers and Auto-Scaling Groups), S3, VPC, Route53, CloudWatch / CloudTrail, IAM.

➢ Professional with a unique blend of technical, functional and qualitative skills backed by a strong record of people management and resource optimization.

➢ Demonstrated ability to effectively plan, coordinate & meet deadlines. Self- driven, able to prioritize tasks and implement changes smoothly.

➢ Microservice deployments into Kubernetes cluster using helm charts integration with Jenkins build and release pipelines.

➢ Setting up Jenkins CICD integration to automate the application deployments by integrating Github, Apache Tomcat, and Docker.

➢ Working with Git while writing Ansible Playbooks and pushing the playbooks to GitHub and integrating with Jenkins to provision the infrastructure as needed using Terraform.

➢ Complete understanding of Software Development Life Cycle and use cases of the Automation tools using Ansible and integration with Docker, Jenkins, Tomcat, Maven.

➢ Working on various Docker components like Docker Engine, Hub, Machine, Compose and Docker Registry.

➢ Worked on automation and continuous integration processes with Jenkins .

➢ Creating Cloudwatch alerts for instances and using them in Auto Scaling launch configurations.

➢ Bootstrapping instances and integrating with auto scaling.

➢ Wrote Ansible Playbooks to automate environment configuration for different application deployments.

SKILLS

Infrastructure as Service (IaaS)	Amazon Web Services
OS	linux
Continuous Integration	Jenkins
Repo Management	Git, GitHub
Configuration Automation tool	Ansible
Container services	Docker
Container Orchestration	Kubernetes
Code Analysis	SonarQube
Infrastructure as Code(IaC)	Terraform, cloudformation
Artifact Management	Jfrog

WORK EXPERIENCE

Mphasis

AWS & DevOps Engineer   Jun 2018–Present

Roles & Responsibilities :

· Responsible for designing Cloud and Data platforms to simplify provisioning and management of infrastructure, deploying application code, and monitoring application and infrastructure performance.

- Build a Jenkins pipeline (build, test and deploy) to implement CI/CD workflow using Jenkinsfile.

- Develop a Java App on cloud using Git, Java, Maven and Tomcat

- Have understanding in adopting DevOps Model and CI/CD workflow in integrating Git, Maven, Sonar, Jfrog,Tomcat, Ansible, Docker, Kubernetes clusters in automated deployments.

- Building the images and shipping the images to the Jfrog Artifactory then deploying on production servers using docker technology.

- Configuring application health checks Livenessprobe and Readinessprobe parameters to monitor containers health.

- Performing rolling updates when a new source code version is released in Kubernetes.

- Manage production application deployments in Kubernetes cluster using Kubectl.

- Integrated Jenkins Pipeline with Apache Maven, Node, and Sonar to automate Continuous Integrations for Build.

- Integrated Jenkins Pipelines for Docker, kubernetes for Deployments.

- Writing Kubernetes Deployment manifest files to include application deployment configurations on Kubernetes Platform.

- Written Jenkins Declarative Pipeline code to integrate and automate the build & deployment tools for application deployments.

- Writing Helm Charts and environment specific charts for Dev, QA, and Prod environments.

- Designed a baseline for Helm Charts to deploy applications into different environments with specific custom configuration parameters.

- Setting up Name spaces from scratch for new application on-boarding.

- Writing manifest file definitions for configmaps, secrets and mounting these resources as volume mount and environment variables for application use in the kubernetes container orchestration platform.

- Configuring Docker Registries for new applications to store container images and integrating with Jenkins pipelines for automation.

- Configuring Jfrog artifactory management repositories to keep version-controlled maven artifacts for deployments.

- Experience with deployment of the automation tools and managing the infrastructure configuration consistency using Ansible tools.

- I used the AWS CloudFormation and Terraform to build, customized, provisioned, deployed, and automated a collection of related AWS services for businesses and individual customers.

- Collaborated with various internal teams to ensure AWS cloud environments support internal needs related to functionality and performance

- Implemented AWS solution using EC2, S3, RDS, EBS, ELB, Auto Scaling Group for high availability, durability, secured and scalable cloud architecture.

- Created and managed users, groups, roles, and policies through IAM.

- Troubleshooting operational and security incidents using CloudTrail

- Implemented cost saving measures such as elastic load balancer consolidation, automatic public IP updates using Route 53, managing instance runtime with AWS Instance Scheduler using CloudFormation.

- Deployment and management of SSL Certificates using ACM (Amazon Certificate Manager) to secure HTTP requests to the client's environment.

- Enacted a road map to eventually not have to use IAM security credentials on servers but instead using trusted identities (roles) attached to EC2 instances, in order to secure individual security credentials.

- Automated infrastructure provisioning on AWS using CloudFormation for quick customization and deployment of resources on AWS cloud platform.

- Designed and implemented the networking environment needed for multi-tier application deployment, by creating VPC, private and public subnet, create route tables, internet Gateway, Nat Gateway, NACLs, and creating VPC gateway endpoints to securely access objects stored in S3.

- Integrated API gateways, AWS Lambda, S3 buckets, DynamoDB, SNS for serverless microservice deployment.

EDUCATION:

- Bachelors from G Pulla Reddy Engineering College, Kurnool (Mechanical Engineering)
- Masters from NIT Calicut, Kerala (Thermal Sciences)