Jadho Ganesh Rao

Role: DevOps Engineer
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Career Objective:

Committed to learn and implement emerging technologies and best practices, I aim to contribute to the success of organizations by enabling efficient software development, deployment, and management in cloud-native environments.

Professional Summary:

- Having around 1.7 years of experience in DevOps and AWS as **DevOps Engineer**
- Extensive experience in **Linux** user management, package management, service management, network management, disk management.
- Proficient in **shell scripting** for automating routine tasks, improving operational efficiency, and streamlining system administration processes.
- Implemented version control using **Git** for managing scripts written in **Shell**, **Terraform**, and **Ansible**, ensuring centralized and organized code repositories.
- Extensive experience in utilizing **Ansible** for configuration management and automation of infrastructure provisioning tasks.
- Extensive experience in configuring and managing **Jenkins CI/CD** pipelines for automating software builds, testing, and deployment processes.
- Experience in configuring **IAM** Users, Groups, Roles and policies.
- Designed and implemented **VPC** creation, subnet CIDR calculation, creation of subnets, Internet Gateway, Route table and Routes, NAT Gateway, etc.
- Configured and maintained **AWS security groups** and **NACLs** to establish robust network security controls for cloud-based applications.
- Configured DNS hosted zones, records, including A, CNAME records, to effectively route traffic and support various application needs, resulting in improved availability and reduced latency.
- Designed and implemented Spot Instance strategies, utilizing automation and instance interruption handling to ensure seamless and reliable application performance.
- Designed and implemented scalable and highly available database architectures using Amazon **RDS**, leveraging features such as multi-AZ deployments and read replicas.
- Implemented and managed **AWS WAF** to protect web applications from common security threats, such as SQL injection, cross-site scripting (XSS), and DDoS attacks.
- Managed and implemented **AWS KMS** to secure and manage encryption keys for sensitive data and resources in the cloud.
- Designed and implemented infrastructure as code using **Terraform** to provision and manage AWS resources

- Designed and implemented **Docker** containers, including creating Docker images, writing Dockerfiles, and configuring container orchestration for seamless deployment and scaling.
- Proficient in designing, implementing, and managing **ELK** (Elasticsearch, Logstash, and Kibana) clusters for centralized log management and analysis.
- Extensive experience in implementing and managing monitoring solutions using **Prometheus**.

Educational Qualification:

- Bachelor of Technology from SVCET Chittoor with an aggregate of 65%.

Technical Skills:

Operating Systems	Linux, Windows
SCM	Git, Gitlab etc.
Build Tools	Maven, NPM, Pip, etc.
CI	Jenkins
Configuration Management	Ansible
Infra as Code	Terraform
Monitoring tools	New Relic, Grafana, Prometheus
Cloud	AWS
Scripting Languages	Shell
Programming Languages	Python,NodeJS
Scanning tools	Sonar, Nexus
Container technology	Docker
Container Orchestration	Kubernetes

Work Experience:

- Working as a DevOps Engineer in Granite River Labs Pvt Ltd, Bangalore from January 2022 to July 2023.
- Worked as an Associate Engineer in HTC Global Services Pvt Ltd ,Chennai from March 2021 to November 2021.

Project:
Company: Granite River Labs Pvt Ltd
Location: Bangalore
Date: January 2022 to July 2023
Description:
If you have a high-resolution monitor or TV, DisplayPort is the only way to get the full picture quality.

- If you are a gamer, DisplayPort can provide you with the faster refresh rates and lower input lag that you need for a competitive edge.
- If you are using multiple monitors, DisplayPort can simplify your setup and reduce cable clutter.
- If you are using a laptop or other mobile device, DisplayPort can help you to save battery life by carrying both audio and video signals over a single cable.

Roles & Responsibilities:

- Implemented robust error-checking mechanisms, such as conditional statements and exit codes, to handle various scenarios and provide accurate error reporting for enhanced script reliability.
- Collaborated with cross-functional teams, leveraging Git repositories (e.g., Bit Bucket, GitLab) to facilitate code reviews, track issues, and manage feature branches.
- Designed and implemented Ansible playbooks and roles to automate the deployment and configuration of complex multi-tier applications, resulting in reduced deployment time and improved consistency across environments.
- Successfully integrated Jenkins CI/CD pipelines with SonarQube, Nexus, JUnit, Terraform, Ansible, and Helm to establish a robust and automated software development lifecycle.
- Designed and implemented AWS IAM features like cross-account access and role-based access control (RBAC).
- Utilized VPC peering and VPN connections to establish connectivity between multiple VPCs and on-premise data centers.
- Collaborated with cross-functional teams to define network access policies, allowing only necessary traffic and preventing unauthorized access to critical resources, resulting in enhanced security posture and reduced exposure to potential threats.
- Automated Route53 record creation and ACM attachment.
- Designed and implemented scalable and highly available Amazon EC2 architectures, leveraging auto scaling groups and load balancers to ensure optimal performance and fault tolerance for cloud-based applications.
- Implemented caching solutions using Amazon ElastiCache to enhance application performance and reduce database load
- Leveraged AWS Shield to protect against DDoS attacks by utilizing its built-in DDoS protection capabilities
- Implemented AWS VPC endpoints to establish private and direct connections between VPCs and AWS services, eliminating the need for public internet access
- Implemented Terraform concepts like Locals, Data sources, Outputs, Functions, Count and Count index, etc. to effectively develop the modules.
- Developed Helm charts to package applications, including dependencies, configurations, and deployment templates, enabling simplified and repeatable deployments across multiple environments.

- Configured Elasticsearch to store and index log data, Logstash for data ingestion and transformation, and Kibana for log visualization and monitoring, providing real-time insights into system performance.
- Configured Prometheus to collect and store time-series metrics, designed and customized Grafana dashboards to visualize and analyze the collected metrics, and established alerting rules and notifications for proactive monitoring and incident response.

Project:

Company: HTC Global Services
Location: Chennai
Date: June 2021 to November 2021
Programming Languages: Python (Programming Language) · HTML5 · Cascading Style Sheets (CSS) · JavaScript · Flask · Odoo · C# · MySQL

Roles & Responsibilities:

- Created login and registration forms using HTML , CSS , JavaScript
- Retrieved the data from database using python and MySQL and sent that data to frontend
- Worked on some minor issues which were facing by client