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AWS/DevOps Engineer

Summary

Experienced DevOps Engineer dedicated to automation and optimization for 4 years. Understands and manages the space between operations and development to quickly deliver code to customers. Has experience with the Cloud as well as DevOps automation development for Linux and Windows systems. Brings maturity, enthusiasm and a drive to new technologies along with real world experience.

Core Competencies

Knowledge of Linux, cloud computing, Networking, Monitoring and databases.

Technical Skills:

- **Operating System:** Linux, Ubuntu, windows.
- **Cloud Technologies:** AWS (VPC, EC2, S3, Lambda, RDS, IAM, etc).
- **Scripting Languages:** Shell scripting, YAML, JSON.
- **Configuration Management:** Ansible
- **Continuous Integration tool:** Jenkins
- **Monitoring Tools:** Cloud watch, Nagios.
- **Version Control Tools:** GIT, GITHUB.
- **Automation tools:** Terraform, Cloud formation.
- **Orchestration Tools:** Docker Swarm, Kubernetes.
- **Database:** MySQL, RDS, PostgreSQL.

Professional Experience:

Working as AWS/DEVOPS Engineer in KEENO TECHNOLOGIES PVT LTD, Bengaluru from DEC 2021 to till date

Worked as AWS/DEVOPS Engineer in Nephroplus Health Care PVT LTD, Hyderabad

Worked as AWS/DEVOPS Engineer in Sai Sun Outsourcing PVT LTD, Madhya Pradesh

DevOps Engineer:

- Involved in setting up the new build environment for various applications in **Windows/Linux** environment.
- Created and Maintained **GitHub** repositories, branches for multiple pods and responsible for updating the configuration tags in pom.xml.
- Primary responsibilities include build and deployment of the java applications on to different Environments like **Dev, Test, Snapshot and Production**.
- Configured the quality gates using SonarQube Server.

- Implementing Jenkins continuous integration tool including installing setting the jobs/plans and setting up **CI/CD** pipelines for deployment.
- Responsible for build, release and configuration management of systems in production.
- Experienced in **docker, docker swarm**.
- Responsible for automating deployment in **Kubernetes cluster** using docker and Jenkins.
- Experienced in Setting up the **build** and **deployment** automation for **Terraform** scripts using **Jenkins**.
- Created multiple **terraform modules** to manage configurations, applications, services and automate installation process for Web Server and **AWS Instances**.
- Having good knowledge on **Windows, Linux server** administration.
- Good knowledge in defining AWS Security Groups which acted as virtual firewalls that controlled the traffic allowed reaching one or more AWS EC2 instances.
- Involved in configuring and Networking of Virtual Private Cloud (VPC). Setup Managing VPC, Subnets make connection between different zones.
- Involved in Configure and maintain the Users and Groups policies and permissions in **IAM**.
- Responsible for deploying, automating, maintaining and managing AWS Cloud based services **like EC2, AMI, Subnets, VPC peering, S3, Lambda, ECR** to ensure high availability, scalability in terms of horizontal /vertical and security of systems in production.
- Experienced in Create **AWS AMI** with **PACKER**
- Expertise in **Docker** containerized environment, hosting web servers on containers, building docker images using **Docker File**
- Practical experience with Azure Computing, Storage, Logging, Monitoring, Auditing, Networking and Security Services.

Cloud Engineer (AWS):

- Managing Amazon Web Services (AWS) infrastructure with automation and orchestration tools such as JSON.
- Proficient in AWS services **like VPC, EC2, S3, ELB, Autoscaling Groups (ASG), EBS, RDS, IAM, CloudFormation, Route 53, CloudWatch, Elastic Cache, ELK**.
- Use best practice to create IAM users in AWS.

- Responsible for resource allocation on EC2 instances (virtual servers) to include disks and instance class.
- Configure **multi-factor authentication** (MFA) for user accounts in the cloud.
- Create and attach **EBS volumes to EC2 instance**.
- Identify opportunities for AWS cost optimization.
- Perform routine security scans using **AWS CloudWatch**.
- Work directly with Identity and Access Management team to troubleshoot permissions (policies).
- Used **security groups, network ACL's, internet gateways and route tables** to ensure a secure zone for organization in AWS public cloud.
- Created **S3 buckets** in the AWS environment to store files, sometimes which are required to serve static content for a web application.
- Used **AWS Beanstalk** for **deploying and scaling web applications and services developed** with Java. Configured S3 buckets with various life cycle policies to archive the infrequently accessed data to storage classes based on requirement.
- Possess good knowledge in creating and launching **EC2 instances** using AMI's of **Linux, Ubuntu, and Windows** and wrote shell scripts to bootstrap instance.
- Written cloud formation templates in **JSON** to create custom **VPC, Subnets, EC2 Instances and NAT** to ensure successful deployment of web applications.
- Maintained the **monitoring and alerting** of production and corporate servers using **Cloud Watch service**.
- Environment: **AWS EC2, VPC, ELB, S3, EBS, RDS, Route53, Cloud Watch, JSON, CloudFormation, AWS Auto Scaling, Elastic Bean Stalk, GIT, SQL, AWS CLI, Unix/Linux, Shell scripting, Jenkins, Terraform, Tomcat, Docker, Kubernetes.**

Project#2:

Roles and Responsibilities:

- Responsible to provide highly efficient architecture to run the application with negligible down time using Git, Maven, Jenkins, Ansible, Docker, multiple ec2 instances with load balancers to manage load requirements Architecture also includes RDS, VPC and other services of AWS.
- Create branches in Git and merging branches as part of Release management process
- Using Git and Maven to Build and Release management
- Automating CI/CD
- Write docker files and docker compose files build docker images and containers
- Maintain docker private Repository
- Write Ansible playbooks and to automate the CD Process
- Used Kubernetes orchestrate the deployment, scaling and management of docker containers

Project#1:

Roles and Responsibilities:

- Software Configuration management (Automate CI & CD pipe using Ansible, Maven, Jenkins & GIT).
- Responsible for tagging and maintain code on version control GIT.

- Perform Build activities using Maven and Jenkins tool.
- Responsible for creating Builds and Deployments Planes.
- Creating War / Ear files using Maven.
- Configured Jenkins Jobs, install plugins for generating Project artifacts.
- Automate the build Process Using Jenkins jobs.
- Writing inventory files and Ansible configuration files.
- Creating playbooks in Ansible for configuration and Deployment activities.
- Configured packages, services using Ansible modules like yum, service, templates, handlers etc.
- Configuring Apache tomcat server using Ansible.
- Perform Deployment of War files in Tomcat application servers using Shell script and Ansible.
- Perform deployments to multiple environments like Dev,QA,and UAT environments.

Education:

Bachelor of Technology (**ECE**) in **2018**

Mother Theresa college of engineering , Peddapelli.

Declaration:

I hereby declare that all the information given above is true and correct to the best of my knowledge.

(Anjaneyulu)