Aws/DevOps

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Objective

DevOps Engineer with 1.5 years of hands-on experience specializing in AWS, CI/CD pipelines, Docker, and Kubernetes. Proficient in deploying, automating, and managing cloud infrastructure on AWS to ensure scalability, reliability, and performance. Experienced in building and maintaining automated deployment pipelines using tools like Jenkins and GitHub CI. Skilled in containerizing applications with Docker and orchestrating them with Kubernetes for improved efficiency and scalability.

Professional Summary

- Hands on experience on source version controller tools like Git, GitHub.
- Good understanding of Git stages like workspace, local repository, and central repository also cleaning The git repository.
- Well-versed in using Git commands like git pull, git push, git fetch, git clone, git add, git commit, git log, git branch, git merge, switching branches and other git commands.
- Good exposure towards DevOps tools like GIT, MAVEN, ANSIBLE,DOCKER& KUBERNETES.
- Extensive experience using MAVEN as the build tool for the building of deployable artifacts from source code.
- Hands on experience with Build automation/continuous Integration tools like Jenkins
- Well-versed in managing IAM service to administer AWS resources effectively.
- Well-versed concerning EC2s like Launching Windows and Linux machines.
- Good Knowledge in AWS Storage services like EBS, EFS and S3.
- In-Depth Knowledge in AWS Cloud platform and its features which includes EC2, S3, and EBS, ELB, RDS, lambda, Elastic IP, IAM, VPC, Cloud Formation, Route53, Dynamo DB, ECS and managing security groups on AWS
- Launched all three kinds of load balancers and attached them to web servers and extensively used Auto scaling to provide high availability to EC2 machines.
- Knowledge on snapshots to take backups of the volumes and also images to store launch configurations of the EC2 instances.
- Created topics in SNS to send notifications to subscribers as per the requirement.
- Good exposure in creating Ansible Playbooks by using Yaml script.
- Worked on installation of Docker and created custom Docker container images, Scanning, tagging and pushing the images.
- Experience with container-based deployments using Docker, working with Docker images, Docker Hub, Docker registries, and Kubernetes.
- Having good hands-on experience in pulling Docker images & creating from Docker files.
- Expert in deploying the code through web application servers like Apache.
- Integrated Jenkins, Bamboo with various Code quality tool such as Sonarqube.
- Ability to work closely with teams, in order to ensure high quality and timely delivery of builds and releases.
- Good knowledge and experience in using CloudWatch, Prometheus and Grafana for logging and monitoring.
- Creating containers and custom images by usig Docker.
- Good knowledge towards Kubernetes.
- Cloud formation templates create custom VPC, subnets, NAT to ensure successful deployment of web applications.
- Good Knowledge on Linux and Windows OS Installations.
- Ability to work closely with teams, in order to ensure high quality and timely delivery of builds and releases.

IT Knowledge

SCM Tools	**GIT, GIT HUB**
Scripting	**Shell Scripting, YAML**
Build Tools	**Maven**
Development Environment	**Linux**
Continuous Integration Tools	**Jenkins**
Deployment Tools	**Ansible**
Containerization Tool	**Docker**
Container Orchestration Tool	**Kubernetes**
Monitoring Tools	**Prometheus and Grafana**
Methodologies	**Agile**
infrastructure as a code tool	**terraform**
Operating Systems	**Linux, Centos, Ubuntu, Red Hat**
Cloud Environment	**Amazon Web Service(EC2, S3,CloudWatch,VPC Auto-scaling, EBS,EFS,R53 IAM, AMI)**

Education

- **B.Tech (Electrical Engineering) from krupajal Engineer College Bhubaneswar Academic year 2023**
- **Diploma (Electrical Engineer) From Orissa School of Mining engineering keonjhar. Academic year 2018**

Professional Experience

- Worked as a Cloud Devops Engineer in Capgemini Company, Hyderabad from 08,Nov 2023 to till date.

Project : 2

Client: Centific
DevOps/Cloud Engineer

- Implemented an automated CI/CD pipeline using Jenkins, ensuring that the pipeline could handle code compilation, testing, security scanning, and deployment to multiple environments.
- Integrating **Jenkins with** GitHub using web hooks, so any new commit would trigger automated build.
- Integrated **Maven** with Jenkins to automate the **Java build process**, including compiling code, running unit test, generate JAR/WAR file, and ensure artefact versioning.
- Responsible for merging, tagging and conflict resolution in GIT.
- Using **Jenkins Pipeline** to define the build and deployment workflows using Declarative Pipeline syntax.
- Creating and optimizes Dockerfiles for each services to reduce the size of the images and speed up the build time.
- Store **Docker image** in Docker Hub and ensured images were lightweight and secure.
- I used **Kubernetes AWS EKS** a managed Kubernetes service to automate the deployment, scaling and management of Docker containers.
- Set up **Horizontal Pod Auto scaling**, meaning Kubernetes automatically adjusted the number of application instance (pods) based on demand.
- Used **Prometheus** to collect and store real-time metrics from the application and infrastructure, including CPU usage, memory usage, network I/O, and application specific metrics such as request and error rates.
- Configure **Grafana** to visualize data collected by Prometheus, creating interactive dashboards to monitor system health and application performance.
- Used **Terraform** to automate the provisioning and management of AWS resource.

- Deploying infrastructure on AWS utilizing services such as EC2, RDS, VPC and Managed Network and Security, Route 53, Direct Connect, IAM, AWS S3, Glacier, (Storage in the cloud) and Cloud Watch Monitoring Management.
- Experienced in creating AWS IAM and Security Group in Public and Private Subnets in VPC.
- Involved in creating, configuring AWS VPC services, installed EC2 instances for the new development team, and used AWS Route 53 to maintain the traffic and to create the DNS name.
- Implementing VPC, Auto Scaling, S3, EBS, ELB, and CloudWatch services from AWS.

Project: 1 **: Capgemini**
Client **: Venerable Financial**
Role **: AWS Cloud Engineer**

Responsibilities:

- Configured AWS Multi Factor Authentication in IAM to implement 2 step authentication of user's access using GoogleAuthenticator and AWS Virtual MFA.
- Included security groups, network ACLs, Internet Gateways, and Elastic IP's to ensure a safe area for organization in AWS public cloud.
- Writing UNIX shell scripts to automate the jobs and scheduling cron jobs for job automation using commands with Crontab.
- Designed AWS Cloud Formation templates to create custom sized VPC, subnets, NAT to ensure successful deployment ofWeb applications and database templates.
- Coordinate/assist developers with establishing and applying appropriate branching, labeling /naming conventions using GITsource control.
- Built S3 buckets and managed policies for S3 buckets and used S3 bucket and Glacier for storage and backup on AWS.
- Work with other teams to help develop the Puppet infrastructure to conform to various requirements including security andcompliance of managed servers.
- Amazon IAM service enabled to grant permissions and resources to users. Managed roles and permissions of users with thehelp of AWS IAM.
- Initiating alarms in Cloud Watch service for monitoring the server's performance, CPU Utilization, disk usage etc. to takerecommended actions for better performance.
- Built a VPC, established the site-to- site VPN connection between Data Center and AWS.
- Develop push-button automation for app teams for deployments in multiple environments like Dev, QA, and Production.
- Management and Administration of AWS Services CLI, EC2, VPC, S3 , ELB Glacier, Route 53 , Cloud trail , IAM , and TrustedAdvisor services.
- Worked on JIRA for defect/issues logging & tracking and documented all my work using CONFLUENCE.
- Integrated services like GitHub, Jenkins, and AWS Elastic Beanstalk to create a deployment pipeline.

Environment: **AWS, Micro-Services, Cloud Watch, Git, Linux, Jenkins, Maven, Docker, Kubernetes, EC2, S3, Terraform, VPC, IAM, Tomcat Apache.**