Zubair

DevOps Engineer

PROFESSIONAL SUMMARY

A dynamic and dedicated DevOps Engineer with 1+ years professional experience. An immense love for Automation and CI-CD defines my professional summary.

Efficient in Core DevOps concepts of Containerization, Virtualization, Version Control and Cloud Computing using an array of latest technologies, I have consistently built a track record in architecting high quality cloud solutions which are Scalable with High availability and Fault tolerance, always maintaining a strong focus on Automation.

EDUCATION —

B.Tech. in Computer Science Engineering
JNTU University Hyderabad | 2018

CONTACT INFO –

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PROFESSIONAL ATTRIBUTES —

- Proactive and focused individual.
- Immaculate Troubleshooting skills.
- Knack for grasping new technologies.
- Keen eye for Root Cause Analysis.
- Quick learner.

EXPERIENCE

July 2019 – July 2020
Junior DevOps Engineer • **Redexa Technologies, Hyderabad**

TECHNICAL SKILLS

- **Cloud Technologies**: AWS.
- **Operating Systems**: Linux, Ubuntu.
- **Build Tools**: Maven.
- **Containerization Tool:** Docker.
- **Orchestration Tool:** Kubernetes.
- **Configuration Management:** Ansible
- **Continuous Integration (**CI/CD): Jenkins, GitHub Actions.
- **Programming Language**: Bash Scripting, YAML.
- **Version Control:** GIT.
- **Monitoring Tools**: Cloud Watch, Grafana.

PROJECTS

PROJECT 1:

Company	Redexa Technologies
Duration	Aug 2020 to Present
Role	Junior DevOps Engineer
Tech Stack	AWS Cloud, EC2, Amazon Linux, CloudWatch, Grafana.

Roles and Responsibilities

- Monitoring Services on Grafana Dashboards.
- Editing the Panels in Dashboards as per specifics mentioned in assigned tickets.
- Creating Alerts and configuring contact points for notifications.
- Ensuring remedial measures are undertaken to resolve anomalies in performance metrics of Application.
- Performing root cause analysis on issues arising at the workplace.
- Troubleshooting the issues after a detailed analysis and getting the required permissions to perform resolutions to the problems.
- Ensuring timely completion of the task with proper documentation.

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PROJECT 2:

Company	DigitalNest Institute
Client	Sample Client
Duration	June 2020 – July 2020
Role	DevOps Engineer
Tech Stack	Git, Maven, Tomcat, VPC, Security groups, NACLs, EC2, Subnet, Nat gateway, Internet gateway, Route table, ELB, ASG, S3, RDS, CloudWatch, Grafana.

The requirement was to create an AWS-Infrastructure to host an application on EC2 instances. The application was written in Java and built using Maven. This was to be hosted on a Auto scaling group of t2.micro instances in a private subnet behind an Application load balancer which was exposed from a public subnet.

An S3 bucket and RDS Db instance were used for object storage and database accordingly while RDS was provisioned in a private subnet.

Roles and Responsibilities

- Created a VPC in us-east-1 region and provisioned an IGW and Nat gateway and created a public and private subnet each in two different AZs for high availability.
- Created 2 EC2 instances each in us-east-1a and us-east-1b for high availability. These were placed in a private subnet behind an application load balancer which was provisioned in a public subnet.
- Application was hosted using apache-tomcat installed on the EC2 instances with amazon linux 2.
- An elastic Ip was provisioned for the load balancer for persistent connectivity with a static Ip address.

- An S3 bucket was created for object storage along with RDS instance for database.

PROJECT 3:

Company	DigitalNest Institute
Client	Sample Client
Duration	June 2020 to July 2020
Tech Stack	Git, Maven, Jenkins, Docker, Tomcat, ECR, VPC, EC2, ELB, ASG, S3, RDS, CloudWatch, Grafana.

The requirement was to create a CI-CD pipeline, requiring to build a container image of an application on Github. After the image was built, it would be pushed to ECR. The docker container would be built by pulling the latest image from this ECR repository.

Port mapping would then be used to redirect the traffic from EC2 instance to the application on the Docker container inside the EC2 instance which would be placed inside a private subnet. An application load balancer would be exposed in a public subnet to redirect the user traffic onto the EC2 instance and then send the request to the docker container.

An IGW and NAT Gateway were provisioned to allow connectivity with the private subnet. An S3 bucket and RDS Db instance were used for object storage and database accordingly while RDS was provisioned in a second private subnet.

The logging and monitoring were done using CloudWatch and visualization dashboards were created on Grafana and alerts setup respectively.

Roles and Responsibilities

- Created respective jobs in Jenkins to enable Webhooks to trigger the pipeline and then compile and build the container image and push to ECR repository.
- The Container image would be pulled from ECR and container run using it.
- Set-up Port mapping on the container to enable the redirecting of the traffic onto the container.
- Created a VPC in us-east-1 region and provisioned an IGW and Nat gateway and created a public and private subnet.
- Created an EC2 instances in a private subnet behind an application load balancer which was provisioned in a public subnet.
- Application was hosted using Apache-tomcat running on the docker container.
- An S3 bucket was created for object storage along with RDS instance for database.
- CloudWatch and Grafana were used for logging, monitoring and visualization of the application and infrastructure performance.