

Princy Bhesdadiya

Cloud(DevOps) Engineer

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PROFESSIONAL SUMMARY

Motivated self-starter, able to spark interest and take initiative. Cloud engineer with 2+ years of technical experience in AWS & GCP(DevOps) infrastructure design and execution.

TECHNICAL EXPERTISE

- **Cloud Computing:** GCP & AWS
- **Microservices:** Docker, Kubernetes, Istio
- **Build Automation Tools:** Jenkins, Git, GCP Cloud Build, AWS CodePipeline
- **Automation Tools:** Ansible, Terraform
- **SCM:** GitHub, Bitbucket
- **Data tools:** Airflow, Amazon Sagemaker
- **Scripting:** Python
- **Databases:** MySQL, PostgreSQL, Elasticsearch, MongoDB, Redis
- **Operating Systems:** Linux, Windows
- **Monitoring Logging Tools:** Stackdriver & Datastudio

PROFESSIONAL EXPERIENCE

Searce Inc. (Feb 2019 - Present)

Number of Projects delivered - 10+

Project - 1

1. Migrated more than 100 applications to GCP.
2. Authored Terraform scripts for networking, databases(CloudSQL,PostgreSQL), Storage Bucket, Compute Engine, GKE, IAM, etc.
3. Created Ansible playbooks for ActiveMQ, Aerospike, Elasticsearch, Node-exporter, Nginx-PHP, RabbitMQ, Syslog server and Zookeeper.
4. Creating custom roles and service accounts to manage user and group permissions in GCP.
5. Setup Bastion hosts to provide access to a private network from an external network.
6. Authored dockerfiles for three tier stateful applications and deployed them on GKE.
7. Build deployment pipeline with Github & Bitbucket.
8. Backup and restore Mysql and Postgresql databases.
9. Setup alerting and monitoring by creating custom usage metrics in GCP Stackdriver.
10. Configured uptime checks for URL, Instances & Load Balancers.
11. Prepared audit reports to verify security best practices, infra configuration and install procedures.

Technologies used - GCP, Terraform, Ansible, Kubernetes and Docker, PostgreSQL, Shell Scripts, GCP Cloud Build, Stackdriver, Load Balancers, Github & Bitbucket.

Project - 2

1. Setup site-to-site VPN connection between on-premise to GCP and AWS to GCP.
2. Automated provisioning of VPC with Public and Private Subnets, GCE, LB, Instance Groups, using Terraform.
3. Deployed and configured client applications on auto scaling groups. Used load balancer to distribute traffic and to have a cost efficient, fault tolerant and highly available environment.
4. Setup IAP to control access to cloud-based and on-premises applications and VMs running on GCP.
5. Setting up B2B and B2C services. Setup HTTPS/TCP Load Balancers and configure SSL.
6. Setting up Cloud CDN with GCS content as a backend for cache content delivery.
7. Migrated the Nodejs and Python based Lambda functions from AWS to Cloud Functions on GCP.
8. Deployed Airflow on GKE with PostgreSQL instance for storing airflow metadata and Redis for celery workers.
9. Setting up Cron jobs for GCP Instance Groups.
10. Migrating data from EFS to Filestore using AWS to GCP site-to-site VPN.

Technologies used: Kubernetes, GCP IAP, SQL Database, MariaDB, CronJobs, CloudCDN.

Project -3

1. Extensively worked on AWS cloud services like EC2, VPC, EBS & RDS.
2. Used AWS Managed Microsoft Active Directory (AD) service.
3. Setup code-pipeline for deploying applications on AWS.
4. Migrated client applications from on-premise to AWS on Linux platform.
5. Deployed open-source applications like Bugzilla, Rocketchat and OSTickets.
6. Implement TLS certificates for various open source as well as client applications.

Technologies used: AWS(VPC, EC2, ELB, EBS, CodePipeline, SQL Database, Route53, AD), Bugzilla, Rocketchat and OSTickets.

Project -4

1. Provisioned GCP infrastructure using Terraform.
2. Dockerized applications and managed them in private container registry.
3. Deployed Jenkins cluster on kubernetes with dynamic slaves using Horizontal Pod Autoscaler and Node Affinity concept.
4. Setup ArgoCD on GKE and build CI/CD pipelines using Jenkins and ArgoCD to automate deployment of applications in different namespaces.
5. Enabled Network Policies on Kubernetes Cluster to isolate each application namespace wise.
6. Setup Istio Ingress to monitor traffic flow of each service in kubernetes cluster.
7. Authored Python scripts to send billing alerts on Slack channel whenever budget threshold exceeds.

Technologies used: Kubernetes, Istio, ArgoCD, Jenkins, GCP, Networking, Linux, Databases.

Project -5

1. Authored Terraform scripts for networking, databases, storage bucket, compute engine, GKE, IAM, etc.

2. Migrate Java Servlet based applications from GCE VM to GKE using Cloud Build Pipeline and Cloud Source Repository integrated with GitHub.
3. Backup and restore databases for production and development environments.
4. Deployed HA-Pritunl cluster with MongoDB replica sets and TCP load balancer.
5. Implemented Google Cloud Armor security policies to protect infra from DDos attacks and add an additional security layer to client applications.

Technologies used: Enterprise Pritunl-OpenVPN, GKE, Cloud Build, Java-Servlet, Docker, Container Registry, Networking, MongoDB.

Other migration projects;

1. Created 10+ APIs using Python to monitor resource usage and create cost indicators for Searce internal team.
2. Composed load testing scripts in Python to compare database performance of YugaByte, CockroachDB and Cloud Spanner. Containerised the scripts and deployed on GKE with Redis as a queue.
3. Created audit reports on Security Assessment, Infrastructure Assessment and Cost Optimisations.
4. Deployed ELK stack with client applications for log aggregation and efficient searching.
5. Configured Nginx Web Server for Reverse Proxy and Serving the Static of Web Application.
6. Backup and restore Mysql and Postgresql databases in GCP and AWS.
7. Setup multi-Stage CI/CD pipeline using CircleCI.

WORK HISTORY

- Cloud Engineer (DevOps), Searce Inc. (April 2020 - Present)
- Cloud Operations Engineer, Searce Inc. (Feb 2019 - March 2020)
- DevOps Intern, Linux World Informatics (June 2018 - Jan 2019)

GLOBAL CERTIFICATIONS

- Google Cloud Platform Certified Associate Cloud Engineer.
- Red Hat Specialist In Ansible Automation (RHCoE in Ansible Automation)
- Red Hat Certified System Administrator(RHCSA)

EDUCATION QUALIFICATION

- B-Tech Computer Science (2015-2019) JK Lakshmipat University Jaipur CGPA: 8.8. Delivered Sessions on Red Hat Linux 7 and as Technical Head of CSI JKLU.