Sharandeep Singh

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DevOps Engineer at Infosys| AWS Well-architected | Operational excellence and Cost Optimization.

EXPERIENCES

Infosys

DevOps Consultant, June 2021-Present

- Designed and developed Lambda functions for analyzing cloud watch metric, alarms and log group for EC2 and RDS.
- Used Quick sight, Athena, AWS Glue to develop billing dashboard for top 10 expensive services used by PwC.
- Using Lambda functions developed RDS monitoring system.
- Created Alerts using terraforms for expensive instance types.
- Modularized terraform preparation with generic/parameterized features to provide auto-IaC(Infra as code).
- AWS Server build using AWS CloudFormation.
- Deployed and managed Kubernetes clusters and performed upgrades. (Kubernetes admin related task)
- Kubernetes orchestration using rancher. Helm chart, Ingress/Egress, Deployments and Config maps.
- Managed security on cluster using twist-lock. (onboard cluster to twist lock).
- Troubleshooting (Kubernetes admin related activities).
- Monitoring infra using Datadog and Prometheus setup for K8's cluster.
- Snow orchestration to resolve orchestration failures.
- Migration VM's from AWS to GCP using Velostrata.
- CI/CD Setup for Microservice based application.
- Developed and implemented innovative solutions and pipelines on Azure DevOps, enhancing the deployment and management of cloud resources.

Responsibilities

- Application Hosting – Ec2s, RDS
- Logging and Monitoring – CloudWatch, Cloud Trail, SNS, Config
- BI Tool - Quick sight
- Security and configurations – WAF, Guard-Duty
- Standalone mini utilities – Lambda
- Document management – S3
- Data management – RDS (Oracle, PostgreSQL)
- Networking – VPC

Achievements: -

- Brought Down AWS infra cost by $1M.
- Deployment of SAP Landscape using Launch Wizard helped in saving 75% of manual effort.
- Providing complete governance to AWS environment.

HCL Technologies

Software engineer, August 2018 – May-2021

- Used Git for Version control. Pushed, Pulled, Created, Deleted, Merged, and Revert and stashed the branches.
- Publishing container image to Docker Hub. Building image using Docker File.
- Used Docker-compose to deploy multiple containers and for deploying a Multi Node Cluster using Docker Swarm
- Working on Amazon EC2 instances, RDS, and s3 storage for storing artifacts, IAM, Terraform.
- System monitoring using Amazon Cloud-watch, Cloud trail.
- Patching of Linux EC2 instances, Oracle Upgrade.
- Snow ticket management tool for resolving tickets and extraction of reports on weekly basis.

Responsibilities

- Used terraform for creation of modules
- Used Packer for Image hardening
- Docker for deploying 3 tier application
- SNOW Orchestration
- Kubernetes Troubleshooting

EDUCATION

B.E in CSE

Chandigarh University, August 2014 – July 2018, Degree CGPA: 7.9/ 10
Graduated from college University Institute of Engineering & Technology affiliated to CU.

High School Science

Kerala Samajam Model School (ICSE), Batch 2014, Score: 77%
Kerala Samajam Model School (ICSE), Batch 2011, Score: 78%

Skills

AWS	Terraform	Snow
Kubernetes Admin	Packer	python(Boto3)
Docker	Git	

Certifications