PRIYANSHU SHRIVASTAVA

Lead Technical Consultant - Sr. DevOps Engineer

✉ priyanshushriv.101@gmail.com   ✆ +91-975 255 5838   🏠 Pune, India (Current)

SUMMARY

Over 5 years of experience as DevOps/Build and Release Engineer in solving complex problems with creative solutions, supporting development, Deployment operations in different environments. Extensive experience includes SCM, Change/Incident Management, VMware and AWS Cloud computing. Experience with and thorough understanding of automated implementation/deployment of a cloud based infrastructure (Web apps, Application Service Environments, firewalls, load balancers, storage, monitoring, security, AD, DNS etc.
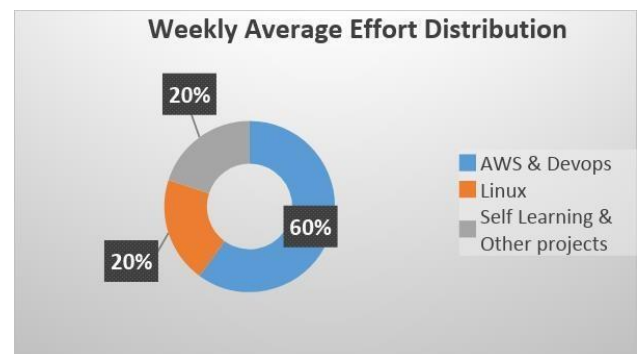
PROFESSIONAL EXPERIENCE

Cipherhut India Private Ltd.   *August 2020–Present*
Senior DevOps Engineer

- Worked on creating Docker files and docker-compose file for the application to build the docker images and push them to ECR.

- Worked on security analysis and network hardening in VPC using NACL, Security Groups through least privilege methodology.

- Built CI-CD pipeline for all environments using AWS Code Commit, AWS Code Build, AWS Code Deploy and AWS CodePipeline for continuous deployment.

- Developed CI-CD for deployment of NodeJS applications over ECS cluster, along with automation for scaling the underlying cluster depending on custom metrics

- Responsible for setting up and installing MongoDB master and slave nodes for various projects.

- Migrated the Live environment database from mongoDB cluster to Mongo Atlas with zero downtime.

- Responsible for design and maintenance of the Bitbucket Repositories and the access control strategies.

- Reduced the monthly cost by $2000 by removing unnecessary servers and databases.

- Created a matrix to replicate the infrastructure architecture from DigitalOcean Cloud to AWS to incorporate hybrid cloud model.

- Performed load testing on systems to provide performance metrics.

- Setup and Configure Email Service on AWS SES and Migrate email templates from sendgrid to AWS

- Setup a branching strategy to isolate the work at various cycles of development lifecycle, i.e. development, testing and production.

- Responsible for building out and improving the reliability and performance of cloud applications and cloud infrastructure deployed on Amazon Web Services.

- Used MySQL, MongoDB and Redis to perform basic database administration.

- Developed terraform scripts for automation of AWS infrastructure for new on-boarding applications.

- Built various dashboards in grafana to analyze the system resources and troubleshoot for any issues identified by monitoring of resources.

- Created lifecycle policies in S3 to propagate data to Standard-IA to Glacier and retrieved the same from Glacier to S3.

- Setup VPC peering between AWS VPC and Atlas MongoDB VPC to route traffic between them using private IPv4 address.

- AWS Security features such as SSL binding through ACM and ALB, security groups to restrict the admin access to a set of CIDR.

- Pushed application logs to S3 and AWS Cloud Watch for application logging and monitoring.

Advent Software Private Ltd.
AWS Engineer

August 2017–July 2020

- Worked on architecture analysis and applying best practices for deployment of infrastructure on AWS.

- Worked on building a user permission policy mapping for accessing the AWS services through power user level methodology and integrated the access with active directory

- Implemented a 2-tier and 3-tier application infrastructure architecture on AWS involving autoscaling for application servers, elastic load balancer (network and application depending upon the health check use case).

- Setup OpenVPN server to access the private EC2 instances over VPN connection.

- Automated creation of 3-tier application infrastructure resources using terraform templates, and Jenkins pipeline.

- Set up Kubernetes cluster and deployed the application docker image to k8s cluster. Set up load balancer, node ports and services for the application. Also enabled event based autoscaling of the application containers.

- Set up CI-CD pipeline for deployment of application for the entire lifecycle of all environments (development, staging and production) involving building of artifacts, unit testing and integration testing of the application, and deployment of the application.

- Set up Sensu server and client to create monitoring events for infrastructure resources and scale the infrastructure based on the analyzed data using graphite and graphana.

- Generated custom OpenSSL certificates for enabling SSL connectivity for a domain and uploaded it to AWS Certificate Manager to use it with elastic load balancer.

- The deployment to the environments are done after the unit and integration tests are passed through the build phase.

- Environment related configurations are applied to the application using configuration mapping files stored in an S3 location.

- Built infrastructural solution for a client on GCP using the best practices.

Weekly Average Effort Distribution

20%

60%

20%

- AWS & Devops
- Linux
- Self Learning & Other projects

PROFESSIONAL PROFICIENCY

DevOps Tools:

AWS, ECS, SES, AWS DevOps Tools, ACM, Cloudfront Jenkins, Git, Docker, Kubernetes, AWS CDK, Terraform.

Programming Languages:

Python (Django), JavaScript, Shell Scripting

Database Development:

MongoDB, MySQL, DataStage (ETL Tool).

EDUCATION

Global Nature Care Sangathan College Institute of Technology, Jabalpur,MP

B.E. Electronics and Communications Engineering
CGPA: 6.68   June 2015