

Karuna Shreshth
AWS/DevOps Engineer

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Be the key person in creative environment to utilize and refine my personal skills and abilities in the modern technology that offers professional growth while being resourceful, innovative and challengeable.

Professional Summary:

IT Professional with 3+ years of experience in DevOps Environment & Cloud AWS (Amazon Web Services).

Having hands-on experience in GIT (Distributed Version Control tool), Ansible (Configuration Management Tools), Docker (Container Based Tool), Jenkins (Continuous Integration Tool), Cloud Watch (Monitoring Tool), Kubernetes (Container Orchestration Technology), Terraform (Cloud Infrastructure Tool)

Having hands on experience in AWS services like EC2 (Elastic Compute Cloud), S3 (Simple Storage Service), IAM (Identity Access Management), SNS (Simple Notification Service), VPC (Virtual Private Cloud), Cloud Watch (monitoring tool), EFS (Elastic File System), Elastic Load Balancer (Classic / Application), Route53, Auto Scaling, Cloud Trail, RDS, AWS CLI (Command Line Interface), Cloud Front.

Having hands on experience in Basic Linux commands, Shell Scripting.

Basic knowledge in SQL

Professional Knowledge:

Having good hands on experience in working with GIT, GITHUB.

Used Git extensively in every project to store all kinds of code.

Good understanding of Git stages like workspace, stage/index, local repository and central repository and git commands

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.

Aware of some advanced concepts like Ignoring git file, Git stash, git rebase, git bisect, git squash and git cherry pick.

Having complete hands on experience in working with Jenkins like establishing complete Jenkins CI-CD pipeline, managing & assigning roles, certain privileges with respect to user accounts, working with slaves, restrict labels in slaves, upstream projects and downstream projects.

Having experience in Master – Slave configuration working with Jenkins

Having good knowledge in Docker concepts like OS level virtualization and Union file system, layered file system which docker follows.

Well experienced in working with docker volumes and sharing volumes among containers and between container and host and port mapping.

Having good hands on experience in using all kinds of dockers instructions in Docker file.

Well-aware of Installation and Configuration of Ansible.

Having good Experience in dealing with inventory file and host patterns, Idempotency concept, modules, and writing Playbooks in YAML.

Good understanding of Ansible Roles by including all sections inside ansible playbook.

Good knowledge on application components and cluster components in kubernetes.

Experienced on the commands such as create, delete, apply, replace in kubernetes.

Good knowledge on types of services like cluster-ip, nodeport, load balancer in kubernetes

Having Very good hands on experience in EC2, S3, IAM, VPC, SNS, ELB, EFS, RDS, Auto Scaling, Cloud Watch, Cloud Trail, Cloud Front, Cloud Trail and Route53.

Extensively used Cloud Watch monitoring service, aware of default and detailed monitoring.

Well versed with respect to EC2s like Launching Windows and Linux machines and creating EBS (Elastic Block store) volumes and understanding concepts like scale-out, scale-in, scale-up and scale-down.

Launched all kinds of load balancers and attached to web servers and extensively used Auto scaling to provide high availability to EC2 machines.

Having good knowledge in creating AMIs, volumes and Snapshots, attaching and detaching volumes and created own AMIs for replication of same environment in same/different availability zones as well as regions.

Good understanding of both system status checks and instance status checks and how to trouble shoot them.

Good awareness in ACLs (access control lists), Bucket policies, Transfer acceleration and storage classes in S3

Enabled Versioning, CORS (Cross Origin Resource Sharing), CRR (cross region replication), and static website hosting instead of going always with EC2s, load balancers and auto scaling.

Well versed in managing IAM service to administer AWS resources effectively.

Hands on experience in IAM roles to access AWS resources without credentials & enabling MFA (multi factor authentication).

Having good knowledge in creating user and group accounts and limited privileges directly to users as well as groups to have better security.

Well-aware of all kinds of password policies and extensively used those policies.

Having complete hands on experience in Route53 like purchasing domain names from AWS, also from other sites.

Well versed in creating routing policies and specially configured health checks for failover routing policy in Route53.

Having complete hands on experience in creating and managing VPC and Good understanding of stateful and stateless concepts.

Good knowledge in Security Groups and NACL.

Good understanding of RDS instance and Multi-AZs to provide high availability and frequently taking backups (both automated and as well as DB snapshots).

Experience in working with Terraform key feature such as Infrastructure as code.

Configured Cloud Watch to monitor AWS resources, to get alarm alerts, to maintain high availability and to reduce downtime

Version Control Tools Git, GitHub Continuous Integration Jenkins

Containerization Docker

Infrastructure tools Terraform

Configuration Management Ansible

Languages Shell scripting, Core Java, Selenium

Operating System Linux, (ubuntu, Amazon EC2)

Cloud Technologies AWS

Monitoring Cloudwatch

Container orchestration Kubernetes

Technical Skills:

Professional Experience:

Having 3.8 years of experience in IT industry. Currently working in Logran Technologies Pvt Ltd from last 3years as SRE Devops Engineer

Educational Details: Bachelor of Computer Application from Design Institute Jabalpur(MCPRV Bhopal)

Responsibilities:

I used to be managing tasks in both AWS and DevOps.

Launched EC2s and configured autoscaling with web servers to provide high availability to data.

Created IAM users and group accounts with limited privileges to individual users as well as groups in the process of maintaining less expenditure and high security.

Creating IAM roles, enabling multifactor authentication.

Enabled versioning at bucket level to recover objects and object-lock to protect objects from accidental deletion and Enabled CRR to have exact copy of data in another region's bucket.

Extensively used transfer acceleration in the process of migration of data to S3 bucket.

Created record sets to assign alias name for difficult load balancer's DNS name in Route53.

Integrated SNS at auto scaling level and Route53's level to get notifications in server failures as well as VPC failures.

Extensively Worked with Docker images like pulling images from docker hub, creating images from docker file, creating containers from images.

Configured all in Auto Scaling Groups and Launch Configurations.

Mounted EFS (Elastic File System) with EC2s to have one common storage.

Created Public and Private Subnets for proper segregation of web servers and database servers to provide high level security.

Provided network to public SNs through Internet Gateways and Route tables.

Launched DB servers in Private SNs and provided internet through NAT server in a secured manner

Opened MYSQL port in database servers to all the public subnets.

Launched Bastion/Jump server in Public SNs to have ssh connection into the DB servers which are present in private subnets.

Enabled NACLs (Network Access Control Lists) at both public and private subnet levels to restrict and to allow Ports in providing high security.

Installed and configured GIT and GitHub in organization, Well versed in managing SCM repositories like Git, GitHub.

Installed and configured Jenkins, Git, Maven, Tomcat in Linux machine.

Installed many plug-ins like GitHub, Deploy to container, and build-pipeline.

Created free style projects, maven projects, build pipeline and configured upstream projects.

Established complete Jenkins CI-CD pipeline and automated complete workflow of build and delivery pipeline.

Created and maintained YAML scripts for deploying Pods,Deployments,Services,PV,PVC and other services in Kubernetes cluster

Created configmap and configured readiness probes in Kubernetes cluster

Declaration: I hereby, declare that the above information is true to the best of my knowledge and belief.
Karuna shreshth Devops engineer