

# AMAR MATTAPARTHI

Senior AWS DevOps Engineer

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## PROFESSIONAL SUMMARY

- ✚ As a **Senior AWS DevOps Engineer** with **4+ years** of experience to automating infrastructure deployment and management, utilizing CI/CD tools, monitoring and scripting.
- ✚ Experienced in creating, configuring and maintaining Infrastructure on AWS Cloud services including Virtual Private Cloud (VPC), EC2, RDS, S3, Route53, ELB, ASG, CloudWatch and IAM.
- ✚ Setup/Managing Linux Servers on Amazon (EC2, EBS, ELB, Security Groups, RDS and IAM) Configure horizontal scaling and vertical scaling: Scale in and out using Autoscaling, add and remove instances as based upon the policies defined.
- ✚ Creating/Managing AMIs, Snapshots and Volumes Upgrade Downgrade AWS resources (CPU, Memory, EBS) Creating AWS Instances and Resources Bills.
- ✚ Managed and administered Amazon RDS instances, including configuring, monitoring, and optimizing RDS SQL databases.
- ✚ Creating IAM Users and Groups and maintain the users Access management and Permissions.
- ✚ Experience with build tools like Jenkins.
- ✚ Extensive hands on with Jenkins, terraform for continuous integration and end-to-end automation tools for deploying.
- ✚ Testing and deployment automation with Jenkins and Terraform.
- ✚ Utilized Ansible's modules to automate administrative tasks, such as user management, package installations, and service configurations.
- ✚ Knowledge on deployment, management and application configurations in software configuration management.
- ✚ Design and implement AWS CloudFormation templates for infrastructure as code (IaC) management.
- ✚ Monitor, manage and troubleshooting to ensure high availability, reliability, and security.
- ✚ Automate the deployment and management of AWS resources using AWS CloudFormation.
- ✚ Independent problem solving and a good team player with strong interpersonal and communication skills.
- ✚ Working experience in Agile Methodology (SDLC)

## TECHNICAL SKILLS

Cloud Technologies	: Amazon Web Services (AWS)
Version Control	: Git, GitHub
Continuous Integration/ Continuous Deployment (CI/CD)	: Jenkins
Containerization	: Docker, Docker Compose
Build Automation	: Maven
Infrastructure as Code (IaC)	: Terraform
Web Servers	: Apache, Nginx
Application Servers	: Tomcat
Configuration Management	: Ansible
Scripting	: Linux, Bash, YAML, Groovy Scripting

## PROFESSIONAL EXPERIENCE

### SocialTek AI ML Business Solutions, Hyderabad

- Senior AWS DevOps Engineer
- AWS DevOps Engineer
- AWS Engineer
- Cloud Support Engineer

Feb 2023 to Present  
Nov 2021 to Jan 2023  
Sep 2020 to Oct 2021  
Oct 2019 to Aug 2020

### Responsibilities:

- Collaborate with development, operations, and testing teams to ensure smooth development and deployment processes.
- Collaborate with development teams to ensure best practices for version control using Git.
- Set up and configure CI/CD pipelines using tools like Jenkins or other CI/CD tools.
- Automate build, test, and deployment processes to various environments (e.g., staging, production).
- Monitor and troubleshoot CI/CD pipelines to ensure smooth and reliable automation.
- Set up and maintain build tools like Maven to compile and package applications.
- Create and manage Docker images to ensure consistency across different environments.
- Use Docker Compose to define and manage multi-container applications.
- Create and maintain infrastructure using Terraform, defining resources in code.
- Manage infrastructure changes and updates through version-controlled IaC.
- Collaborate with the operations team to define infrastructure requirements.
- Write scripts and automation tools to simplify repetitive tasks.
- Investigate and resolve issues related to deployments, infrastructure, or CI/CD pipelines.
- Creating and managing IAM users, groups, and roles.
- Defining and applying IAM policies for various AWS services and resources.
- Implementing multi-factor authentication (MFA) for increased security.
- Reviewing and auditing IAM configurations to ensure security best practices.
- Designing and setting up VPCs to isolate and secure resources in AWS.
- Creating and configuring subnets, route tables, internet gateways, and NAT gateways.
- Configuring network access control lists (ACLs) to control traffic flow.
- Launching, configuring, and terminating EC2 instances based on project needs.
- Choosing appropriate EC2 instance types and sizes to meet performance requirements.
- Managing Amazon Machine Images (AMIs) for custom instance configurations.
- Configuring security groups and network access for EC2 instances.
- Implementing load balancers and auto-scaling groups for high availability and scalability.
- Creating and managing S3 buckets to store and retrieve data.
- Deploying and managing RDS instances with various database engines (e.g., MySQL).
- Configuring RDS backups, snapshots, and automated backups.
- Monitoring RDS performance and optimizing database configurations.
- Configuring and managing load balancers (e.g., Application Load Balancer, Network Load Balancer).
- Creating and adjusting auto-scaling policies based on traffic patterns.
- Managing DNS records and domains.
- Setting up routing policies for load balancing, failover, and geolocation.
- Configuring health checks to monitor the availability of resources.

## PROJECTS

### Project – 2

Product : **MSkillO** - Master Skills Online (A Product from SocialPrachar.com)  
Role : AWS DevOps Engineer  
Duration : Mar 2021 - Dec 2022  
Description : MSkillO Learnings is the concept designed for students to schedule 1-1 Career Oriented Mentoring Sessions from top MNC Working Professionals. A One Stop solution for Student Learnings - Everything at One Place  
Technologies : AWS – IAM, VPC, EC2, RDS, ASG, ELB, Route53  
DevOps – Git, GitHub, Jenkins, Docker, Docker Compose, Terraform

### Project – 1

Client : **Vajra.ai** - AI Powered Smarter Conversations  
Role : AWS Cloud Engineer  
Duration : Jan 2020 - Sep 2021  
Description : vajra.ai is platform that uses a visual development interface to enable non-technical users to build applications by dragging and dropping software applications to create a full app.  
Technologies : AWS – IAM, VPC, EC2, RDS, ASG, ELB, Route53.  
DevOps – Git, GitHub, Jenkins, Terraform.

**Key Skills:** Amazon Web Services (AWS) · AWS Identity and Access Management (AWS IAM) · Amazon S3 · Amazon VPC · AWS Command Line Interface (CLI) · Amazon Route 53 · AWS Auto Scaling · Amazon Relational Database Service (RDS) · Amazon Elastic Load Balancing · Git · GitHub · Git BASH · Groovy Scripting · Linux · Bash · Maven · Jenkins · Docker · Docker Compose · Terraform · Ansible

## INTERNSHIP EXPERIENCE

**Social Prachar LLP, Bengaluru**

***AWS DevOps Intern***

***Apr 2019 - Sep 2019***

### Responsibilities:

- ✚ Involved in setting up and managing cloud infrastructure on AWS using services like EC2, S3, VPC, IAM, etc.
- ✚ Creating and configuring instances, storage, networking components, and security groups.
- ✚ Worked on automating the build, test, and deployment processes using CI/CD tools.
- ✚ Involved scripting and configuring pipelines for application deployment.
- ✚ Monitoring the infrastructure and applications using tools like AWS CloudWatch, and setting up alerts and notifications for potential issues.
- ✚ Implemented security best practices and ensure compliance with industry standards by setting up IAM roles, access policies, encryption, and other security measures.
- ✚ Worked with IaC tools like AWS CloudFormation or Terraform to define and manage the infrastructure in a version-controlled and automated manner.
- ✚ Managing and configuring databases on AWS, such as Amazon RDS (Relational Database Service).

- ✚ Debugging and resolving issues related to the infrastructure or application deployments, and providing support to developers and other team members.
- ✚ Keeping documentation up-to-date, including architecture diagrams, deployment guides, and standard operating procedures.
- ✚ Collaborating with cross-functional teams, including developers, QA engineers, and system administrators, to ensure smooth integration and deployment of applications.
- ✚ As an intern, I have opportunities to learn new technologies and practices.
- ✚ Participating in workshops, training sessions, or online courses may be part of my daily routine.
- ✚ Assisting with ongoing DevOps projects or initiatives within the organization and contributing your ideas and solutions.
- ✚ As an intern, my main goal is to learn and gain practical experience.

## TRAINING EXPERIENCE

**Cubic Way Technologies, Bengaluru**

*AWS DevOps Trainee*

*Dec 2018 - Mar 2019*

## EDUCATION

- ✚ Bachelor of Science – Computer Science at NEFT University in 2018