



Jerin Rathnam
DevOps Engineer

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Objective

I write multi-cloud infrastructure deployment scripts using **Terraform**, a tool that I am proficient in. I also work with various cloud platforms, such as **AWS**, **Azure**, and **GCP**, and implement security and monitoring solutions for them. I have strong experience in tools such as **CloudFormation**, **Ansible**, **Docker**, **Kubernetes**, **Grafana**, **Lambda**, **Linux**, **Packer**, **Atlantis**, **GitHub**, and **BitBucket**. I also have basic **Python** skills to write lambda functions for automation. I have been an AWS Certified Solution Architect - Associate (**SAA-C02**) since Jan 2022, which demonstrates my knowledge and expertise in designing and implementing scalable and secure solutions on AWS. I am passionate about learning new technologies and improving my skills in cloud engineering.



Skills

AWS cloud	Implement Highly available and secured environment
Azure & GCP	Implement major services in these cloud providers
Terraform	Writing multi-cloud architecture with IAC
Atlantis	Manage Terraform workflow with VCS
CloudFormation	Writing various architectures in AWS
Ansible	Server configurations
AWS ECS	Containerized applications in AWS
Docker & Kubernetes	Implement containerized Applications in EKS, GKE, AKS
Prometheus & Grafana	Monitoring Kubernetes Clusters
Helm	Configuring helm charts
GitHub & BitBucket Pipelines	Implement Pipeline setups to deploy applications in AWS Cloud
Bash Script	Working with Linux commands
Python	Writing AWS Lambda Automation Scripts with Boto3



Work experience

EASYDEPLOY TECHNOLOGIES

Jun 2022 - Now

DevOps/Automation Engineer

Run Terraform with Atlantis, the tool to manage Terraform workflow.

Migrate the Terraform states for all our managed infrastructures from Terraform Cloud to Atlantis.

Enabling Monitoring tools to monitor security vulnerabilities at the AWS Organization level. For example, AWS GuardDuty, and AWS DevOps Guru for RDS.

Writing Terraform script to set up a secure baseline for an AWS account with a reasonably secure configuration baseline. The configuration is based on the CIS AWS Foundations benchmarks.

Writing Ansible scripts to implement server configurations for various applications like Magento and Metabase.

Creating Bitbucket Pipelines to deploy applications in AWS EC2 Instances and AWS ECS Clusters.

Writing Lambda scripts to backup AMIs and setting up AWS Backup plans to backup AMIs.
 Implementing infrastructures using Terraform scripts from Bitbucket to AWS. Using Terraform Cloud to automate this process.
 Create CI/CD with AWS Code Pipeline for deploying docker applications in the ECS cluster with Application Load Balancer. Manually or using Terraform and CloudFormation scripts.
 Deploy various applications like react js, angular and node js in EC2 Instances with Code pipeline and Ansible using CloudFormation and Terraform scripts.
 Writing Terraform modules for various infrastructures and some AWS Services.
 Writing multi-cloud infrastructure deployment Terraform scripts.
 Creating Multi-tier VPC architecture in various Cloud Platforms such as AWS, Azure and GCP.
 Writing Dockerfiles for various types of Applications.
 Install Prometheus and Grafana in the EKS Cluster via helm charts using Terraform.
 Working with AWS IAM Users, Roles and most importantly IAM Policies for giving access to various team members for their needs with the very least privileges.
 Managing Golden AMIs in AWS with Terraform and Packer Registry...
 Writing Terraform and CloudFormation scripts for building highly secure and highly available architecture.

FREELANCE

Apr 2021 - Apr 2022

Freelance DevOps Engineer

- Writing Terraform, CloudFormation scripts to deploy various AWS resources
- Writing SSM automation documents with bash, and python to automate dailytasks.
- Writing AWS config rules to assess, audit AWS resources and writeremediation scripts using lambda functions and SSM documents.
- Deploying Kubernetes clusters in the AWS cloud using EKS or EC2 instances.
- Writing helm charts to deploy applications into the Kubernetes cluster.
- Monitoring infrastructure using Prometheus, Nagios, Grafana, Splunk, ELKstacks
- Keeping EC2 instance configuration persistent using ansible/packer.

CAREER TRANSITION

Feb 2020 - Apr 2021

Career Break

From Feb 2020 I tried to change my career from non-IT to IT field.
 During this career break, I started to study the basics of networking and then started AWS.

AISHWARYA PHARMACY

Jul 2018 - Jan 2020

Sales Executive

Participated in prescription pharmaceutical and over-the-counter productinventory audits.Flagged potential drug interactions and allergies to prescribedmedications for patients with different health conditions.

SATCHA TEXTILE PVT. LTD.

May 2018 - Jul 2018

Quality Assurance Quality Control

Participated in prescription pharmaceutical and over-the-counter productinventory audits.Flagged potential drug interactions and allergies to prescribedmedications for patients with different health conditions.



Certifications

AWS Certified Solutions Architect Associate -2022



Education

BISHOP HEBER COLLEGE, TIRUCHIRAPPALLI

June 2015 - Apr 2018

B.Sc. Chemistry

Chemistry and related subjects

T.D.T.A. KURUKALPER HR. SEC. SCHOOL, TUTICORIN

June 2013 - Apr 2015

HSC

Maths Biology



Languages

- Tamil
- English