

**Jayaprakash Reddy**  
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## TECHNOLOGY PROFESSIONAL

Innovative and skilled **Cloud/DevOps/Security** Engineer with 8 years of hands-on experience designing, implementing, and managing cutting-edge deployment automation of **Cloud/DevOps/Security** resources. Supporting, automating, and optimizing mission critical deployments in **AWS/Google** leveraging configuration management, and DevOps processes.

## HIGHLIGHTS & ACCOMPLISHMENTS

- Holds extensive hands-on experience of 5 years with Infrastructure as a code tool **Terraform**. Implemented hundreds of modules, designed CI/CD/best practices for infra code.
- Expertise with cloud platforms like **AWS & GCP**. Built an entire dev/test/prod environment on AWS/Google cloud. Experience with **Serverless services** like Lambda – AWS & Cloud functions – GCP. Also performed App migrations from on prem to cloud.
- Experience in working on containerization platforms like **docker,ECS, Kubernetes**. Deployed & managed containerized microservice workloads on kubernetes.
- Designed, Implemented CI/CD solutions for various tech stacks using **jenkins, gocd**. Written shared libraries, pipeline as code
- Experience in working with Configuration management tools like **Ansible/chef** - Written & managed Ansible Playbooks/modules, chef cookbooks and recipes.
- Hands on experience with **Cloud Security** - Data Protection, Data Encryption and Network Security within Cloud. Worked on tools like **HashiCorp Vault** /cloud KMS services/IAM.
- Implemented **Observability/Monitoring** using **newrelic, dynatrace** & cloudwatch. Monitored Hosts, technologies like ES, rabbitMQ & spark across cloud platforms. Also implemented synthetics, APM, dashboards, reports and alerting.
- Automating repetitive tasks was my primary objective in any new assignments, written tools/scripts in **python, golang**.
- Implemented devops related dashboards to share the release information, maintenance windows to wider team using Reactjs, AWS, python and serverless technologies.

## TECHNICAL SKILLS SUMMARY

**AWS** – Compute, Storage, Network, Databases, ECS, Lambda, Cloud Formation, IAM , security, Route53, cognito & IOT.

**Google Cloud** – IAM, Security, Compute Engine, App Engine, Kubernetes Engine, Cloud Functions, DS, Storage, SQL, VPC, Network Services, StackDriver, Cloud Build, Big Data.

**ORCHESTRATION** – k8s.

**IAC** - Terraform, cloud formation.

**Configuration management** - Ansible , chef.

**CICD** - Jenkins, gocd, gitlab.

**Proxies** - Nginx, HAProxy.

**Secrets Management** – HashiCorp Vault

**Scripting** - python/golang

## EXPERIENCE

**Company : ThoughtWorks [ Project : mckinsey ] [ Dec 2019 – Current ]**

**Role : Senior Infrastructure Consultant**

- Written and maintained production-grade **terraform modules**, Also designed proper best practices, versioning and CICD practices for infra code.
- Designed and Implemented mission-critical components like **elasticsearch and spark** clusters in a cloud-agnostic and cost-effective way.
- Used **chef/Ansible** as configuration management tool to support installation/configuration of various applications on different nodes.
- Created a highly available secret manager solution using **Hashicorp vault** and Introduced service discovery for microservices using Hashicorp **Consul**.
- Written Scripts using **Python & golang** languages to automate pre deployment checklist and wrappers around livy server to submit spark jobs.
- Worked on **GOCD & Jenkins** to build pipelines for both infrastructure & application build & deployment stages.
- Worked on **cost optimization** solutions as product deployment must adhere to single-tenant architecture.
- Implemented observability using **dynatrace** to monitor the solution. Created synthetics, dashboards, alerts and host monitoring.
- Worked on provisioning the **kubernetes** cluster on AWS & GCP to manage organization wide internal microservices.
- Implemented **Branching strategy** for continuous deployment with different versions to be deployed to different clients at same time.
- Created health dashboard to show recent deployments, uptime of systems, maintenance windows and upcoming events.

**Company : Tricon InfoTech [ Project : pearson ] [ Sep 2018 - Dec 2019 ]**

**Role : Senior Devops Engineer**

- Completely responsible for setting and configuring **jenkins** on **AWS ECS** and writing pipeline jobs.
- Written **jenkins shared libraries** to be used across teams.
- Written **terraform modules** for different cloud/services to be used across teams.
- Created **AWS API gateway** resources and methods for backend microservices.
- Deployed Java based microservices on **ECS cluster**.
- Provisioned infrastructure using terraform and packer.
- Handled **Newrelic** monitoring & ELK logging.
- Authored various critical lambda functions in python & nodejs.
- Written **custom authorizer** lambda function for API gateway.
- Written **ECS host autoscaler** lambda based on ENI availability in case of AWS VPC mode..
- Worked on creating a **kubernetes** cluster to migrate existing microservices from on premise.
- Worked on a serverless web application for a simplified view of while stack with health status.

**Company : Tricon InfoTech [ Project : kohl's ] [ Sep 2017 - Dec 2019 ]**

**Role : Senior Devops Engineer**

- Involved in designing and setup of infra for microservices based application migration.
- Worked on Maven for scala based application builds and also used for packaging the infra code which is pushed to **nexus** repository.
- Actively worked on **GCP** resources like VM instances, instance templates, resource group managers, load balancer, buckets and network.
- Automated the bucket mounting to instance for one of the frontend microservice to maintain its session related data.
- Created custom GCP images using **packer** templates.
- Extensively used terraform to create immutable infrastructure with different providers(GCP, **consul** and **vault**).
- Implemented the highly available vault cluster as a secret and certificate store.
- Created the consul and vault related resources using **terraform** providers.
- Written shell and python scripts for automating manual steps.
- Configured the **haproxy** as a proxy and load balancer server.
- Worked on security issues related to web server cipher suites.
- Worked on setup and automatic configuration of persistent stores like **redis** and **mysql**.
- Actively involved in migrating tableau clusters from on promise to GCP with active directory,SSL and proxy setup.
- Automated installation and configuration of **kafka** and **zookeeper** and used consul templates for reactive setup.
- Actively worked in tuning the haproxy and auto scaling parameters to improve the performance of applications.
- Worked on **Blue-green** setup for application deployment.
- Handled the **DR** setup for application infrastructure and used replication for persistence systems.
- Worked on **activation and passivation model** for stateless applications to avoid extra cost.

**Company : Tata consultancy service [ Project : Aviva ] [ Jul 2014 - Sep 2017 ]**

**Role : Devops Engineer**

- Actively involved in all the phases of application migration to AWS ( assessment, licensing, cost optimization and implementation, NFT support, migration and post migration).
- Worked on a high level design document for application migration with cloud platform team and application team.
- Good working knowledge in source control tools such as GIT, bitbucket.
- Worked strongly with build tools like maven and gradle .
- Expertise in continuous integration tools like jenkins.
- Created Jenkins jobs using **groovy** scripting.
- Used binary and artifacts repository **nexus**.
- Configured static code analysis tool **sonarqube**.
- Written various **Shell scripts** to automate system administration tasks.
- Extensively worked on AWS services like VPC, EC2, IAM, S3, ASG, CLOUDWATCH,SNS,ROUTE53,ELB,LAMBDA.
- Worked on creating a custom AMI using **packer**.
- Developed ruby based serverspecs for BDD tests to validate infrastructure created using images.
- Having good experience in provisioning AWS infrastructure using **Terraform**.
- Software Provisioning using configuration management tool puppet.
- Worked on splunk for log collection.
- Worked on database migration using RMAN and S3 and restored in AWS RDS.

#### MORE ABOUT ME :

- Running crazy electronic projects on my little raspberry pi & ESP8266 devices.
- Playing with Alexa/ writing skills for it.
- Avid reader of medium,quora,dev.to & hashnode.
- Participating in meetups, community events, tech conferences and hackathons are my weekend vibes.

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Youtube channels : [https://www.youtube.com/channel/UCrkyip08a0Y2zniQw\\_rUTA/videos](https://www.youtube.com/channel/UCrkyip08a0Y2zniQw_rUTA/videos)  
<https://www.youtube.com/c/JayaprakashNarayanareddy/videos>

#### EDUCATION

**Sastra University – India** B. Tech in Electronics & Communications Engineering [2010-2014]

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