# RAGHU REDDY
## DEVOPS TECH LEAD

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## ⭐ AREAS OF EXPERTISE

- DevOps Methodology
- Jenkins Pipelines
- Azure DevOps
- Linux Administration
- Infrastructure as Code
- End-to-End code configuration
- Disaster Recovery Design
- Build and Release Management
- Immutable Architecture
- Twelve-factor app methodology
- Least privilege security setup
- DRY Principles

## ⭐ HIGHLIGHTS OF PRACTICES AND IMPLEMENTATION

- Golden Docker Image (hardened)
- Standardized naming conventions
- Pull Request Builds
- Continuous Documentation
- Build Once and Deploy Many
- Build Versioning
- SCM branching and hot-fix strategies
- Build Status Dashboards
- Change Request Management
- Framework Setup for Process
- Production Build and Clean Build
- Generate Auto "Change log" from git commits

## 🏅 CERTIFICATIONS

Microsoft Certified: Azure DevOps Engineer Expert
Microsoft Certified Trainer 2021–2022
Microsoft Certified: Azure Administrator Associate
Certified Ethical Hacker(EC-Council)
Certified Network Defender (EC-Council)

## 🎓 EDUCATION HISTORY

B.Sc. (IT) 2012–2015 , Mumbai University
M.Sc. (IT) 2015–2017 , K.J Somaiya

## 🏅 AWARDS

**Johnson Controls**
Best Tech Lead of the Year 2020

**Verdantis Technologies**
Best Employee of the Year 2018

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*DevOps is not a goal, but a never-ending process of continual improvement*

## 👤 PROFILE SNAPSHOT

- 6 years of experience in Cloud and DevOps for Implementing Organization Strategy
- Responsible for architecture, designing, implementing and automation of cloud-based infrastructure and its solutions with industry best practices
- Expertise in building Cloud environments and DevOps Practices from ground Zero
- Expertise in implementing and managing Enterprise application and Infrastructure
- Expertise in implementing Network, Cloud and Data Security Measures and Practices
- Established new DevOps team and DevOps Culture for Business unit from ground Zero

## 🏢 WORK EXPERIENCE – 6 YEARS

### JOHNSON CONTROLS INDIA ENGINEERING
### DEVOPS TECH LEAD  [ MARCH 2019 – PRESENT ]

- Create and maintain fully automated CI/CD pipelines for code deployment
- Maintaining highly available, resilient Azure environments with RTO < 4 hour and RPO near real time
- Implemented server less architecture with Azure functions, CDN (UI) with SSL
- Created Mobile DevOps Framework for all Android and iOS Projects(Mobile App CI/CD)
- Designed and Implemented Disaster Recovery Plan
- Saved approx. $30,000 yearly by various automation mechanisms
- Implemented reusable IaaC components using Terraform and ARM Templates
- Created Terraform Modules for reusability and logical abstraction
- CI/CD pipeline to AKS clusters with automated tasks
- Implemented CI/CD using Azure DevOps pipelines and Releases
- Kubernetes project specific namespace and rolling updated based deployment
- Build Once and Deploy Many (Angular and Docker)
- Fully Automated Deployments without Manual interventions
- Designing GIT branching strategies , GIT tagging and Build versioning
- Zero Trust Model for effective security using Key Vaults
- Real-time Alerting and Monitoring integration
- Mentoring Team members and Development team with DevOps Practice and tools

### VERDANTIS TECHNOLOGIES PVT. LTD
### CLOUD AND DEVOPS ENGINEER  [ JUNE 2017 – JAN 2019 ]

- Redesigned AWS architecture with improving security and achieving high availability
- DevOps End-to-End Implementation to automate the build and deployment process from version control into testing and production environment
- Introduced Jenkins, Ansible, GrayLog, Zabbix tools
- Successfully migrated Java based applications from internal data center to AWS cloud single handedly within edge cutting timelines
- Ansible playbooks for various task including Migration activities, Application Configuration, Server hardening and Patches
- Was part of achieving SOC2 Type 2 certification for Organization
- Managed critical production infrastructure environment Single Handedly
- Reduced Costs by ~$2,000 monthly by eliminating unnecessary servers, resizing instance size and purchasing reserved instances

### More Institute Science
### Cloud Engineer  [ May 2015 – May 2017 ]

- Migration on on-premise server workloads to cloud
- AWS and Database Administration
- Shell Scripting for Backups and restore, Administration activities, Monitoring
- Deployment Automation and Artifacts Management
- Vulnerability assessment on Infrastructure
- Implemented highly Reliable Double-Cross(X) VPN connectivity

## TOOLS AND TECHNOLOGIES (DEVOPS GLOSSARY)

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|---|---|
| Cloud Platforms | AWS, Azure |
| Operating Systems | RHEL7, RHEL6, Ubuntu, CentOS, Windows Server 2008r2 |
| VCS Tools | GIT (GitHub, Bitbucket), GIT Enterprise, VSTS |
| CI and CD Tools | Jenkins(pipelines), Azure DevOps, GitHub Actions, TeamCity, JFrog |
| Containers | Docker, Kubernetes, Azure Kubernetes services |
| SCM and IaaC | Ansible, ARM, Terraform |
| Security and Code review | SonarQube, Black Duck, Splunk (POC), WhiteSource Bolt |
| Testing | Junit, RunScope, Ghost Inspector, Bash Scripts(Custom) |
| Build Process | Java, MSBuild, Dotnet, Node, Angular, Android, iOS |
| Monitoring and SIEM tools | Zabbix, GrayLog, DataDog, TrendMicro (POC), Cloud Watch, Azure Monitor |
| Project Management | Asana, Trello, Jira, Azure VSTS |
| Scripting | Bash Shell , PowerShell, Azure CLI, AWS CLI, Python |
| Cloud Services | AWS  : EC2, RDS,  VPC, S3, EFS, IAM, Route53, Security Groups, AWS Inspector |
| | Azure : Webapps, Front Door, WAF, FunctionApp, APIM, CDN, SQL Server, Key Vaults, SQL DB |

# PROJECT                          SUMMARY

### FIRESTORM  (SAFELINC)

Azure Cloud, Azure DevOps, Terraform, CDN, ARM Templates, Function Apps, APIM, SSL Azure Front Door, VNET, Self-Hosted Agent, Storage Accounts(GRS), SQL(Replication)

**Server less architecture with Disaster Recovery Design and Implementation**

- **Fully Secure** Infrastructure design with VNET, Access restriction and CORS
- Multi-Region Deployment across **US and Europe** using Azure Pipelines
- CDN along with SSL (fully automated)
- Single click Infrastructure provisioning (**8 Environments**)
- Saved approx. **$30,000** yearly by various automation mechanisms
- Azure Alerts for Security Incidents on Infra
- Self-Hosted based deployment for Security measures

### DSOT

Azure Cloud, Docker , Kubernetes, Jenkins, WebApps, Ansible, Angular, Node.js, JFrog, BlackDuck, Python  Flask

**Containerizing applications with docker**

- Project was from scratch. Written Multi-Stage "Dockerfile"
- Ansible playbook for Provisioning **Kubernetes Cluster**
- Kubernetes Namespace, Deployment, Service, Ingress files Config Specific
- Rolling update based deployments

### EFIRM

Azure Cloud, Docker , Kubernetes, Jenkins, Ansible, Angular, Node.js, JFrog, Nginx

**On-Premise and Cloud Deployments - Build once, Deploy anywhere**

- Reducing the deployment time to less than **30 seconds**
- Parallel deployments to Azure Cloud and On-Premise using Jenkins
- Secure Infrastructure with VNET and Networking restriction

### GLOBAL LIBRARY AND SMKT

Jenkins, Azure Webapps, SQL, NET Core, ARM Templates, Key Vaults, Angular, JFrog, Azure Pipelines

**.Netapplication- Migration to cloud and fully automated deployment**

- Application Migration from On-Premise to Azure Cloud
- Release cycle reduced to **weeks from months**
- Implemented CI/CD Pipelines for Android(.apk) and iOS(.ipa) deployment
- Trained/Mentored Development team for GIT and Azure Cloud

### CLM - CONTRACT LIFECYCLE MANAGEMENT

AWS, Jenkins, Ansible, JFrog, Linux, Bash, ELK Stack, MySQL, Palo Alto Firewall, Graylog, Zabbix

**Architecture design and DevOps from Scratch**

- Implemented CI/CD Pipelines and release management
- Improved the **speed and quality** of release deployments
- Added Business value by reducing deployment time to **8 minutes from 40 minutes** per deployment
- Implemented Elastic Search cluster(Linux) for search-based tool
- Ansible playbook for Tomcat Application Setup and Hardening
- Ansible Playbook for Apache Vhost Configuration
- Handling Production Workload on Linux

### HARMONIZE AND INTEGRITY

AWS, AWS CLI, Jenkins, Ansible, JFrog, Linux, GrayLog, Apache Tomcat, Zabbix, MySQL, Palo Alto Firewall

**Migration and DevOps**

- Implemented **Zabbix and Graylog** tools with  real-time visibility
- Migrated Java based applications from internal data center to AWS
- Automation for MySQL DBs Backup to S3
- Performed **VAPT** using AWS inspector
- CI/CD implementation for Jboss Application