

# Rishi Vishal Garlapati

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Sr. DevOps Engineer/Architect

## PROFESSIONAL SUMMARY:

Overall, 7 years of experience in IT industry as a **DevOps** Engineer with 6 years of professional experience with **Azure** and **AWS/GCP** cloud services. 3 years of experience **Build and Release Engineer**, Linux administrator.

- Expertise in DevOps tools such as **GIT/GitHub, Jenkins, Maven, Ansible, Chef, Puppet, Docker, Kubernetes, AWS, Azure, and GCP Terraform, Splunk, Nagios, SignalFX.**
- Extensively worked on source code management systems, build infrastructure setup, continuous integration and continuous deployment, monitoring, and automation in online payments and Fintech system, banking, insurance domain and Automobile.
- Experienced in **Continuous Integration (CI) and Continuous Delivery (CD)** process implementation using Jenkins, TeamCity, and Bamboo.
- Having good exposure in both the **Software development life cycle (SDLC)** and **System Administration.**
- Monitoring databases to optimize database performance and diagnose any issues.
- Good knowledge on Configuration Management Tools such as Chef, **Ansible**, Puppet and Automated **Yocto** Linux production server setup using the Chef cookbooks, and **Ansible playbooks.**
- Worked in container based technologies like **Docker, Kubernetes.**
- Experience with **Docker** containerized environment, hosting web servers on containers, building Docker images using Docker.
- Expertise working with **Kubernetes** to automate deployment, scaling, and management of web Containerized applications.
- Worked on Kubernetes to orchestrate Docker containers of new and existing applications and deploy and manage complex run time environment.
- Expertise in administering and automating operations across multiple platforms (**UNIX, Linux, Windows, and MAC.**
- Proficient with container systems like Docker and container orchestration like EC2 Container Service, Kubernetes, worked with **Terraform.**
- Experience in assigning the azure services on locations specific to integrate with web-apps and key-vaults
- Proficient in the **AWS** Cloud platform and its features, which include EC2, **VPC, EBS, CloudWatch, ECS, EKS, Cloud Trail, Cloud Formation, Cloud Front, IAM, S3, Route 53, SNS, SQS.**
- Managed Docker orchestration and Docker containerization using Kubernetes.
- Deploying, managing, and operating scalable, highly available, secure, and fault tolerant systems on **OpenShift, Kubernetes, EKS and AKS** for our customers.
- Experience in working on Docker and Vagrant for different infrastructure setup and testing of code.
- Experience in Setting up the build and deployment automation for Terraform scripts using Jenkins.

- Implemented microservices, application development, and migration using AWS/Azure services such as Azure DevOps, Kubernetes Service (AKS), Container Registry, Cosmos DB, and Grafana, Azure pipelines, Monitor, RBAC, AWS Kubernetes EKS and Kubernetes API to run workloads on EKS Clusters.
- Used Kubernetes to orchestrate the deployment, scaling and management of Docker Containers.
- Used Terraform scripts to Automate Instances for Manual Instances that were launched before.
- Worked extensively with Ansible that automates Cloud provisioning, Configuration management, application deployment, Intra-service orchestration, and many other IT needs.
- Hands on experience in **Splunk, SignalFX, Grafana, Splunk**, Prometheus, cloud watch
- Worked on shell/python scripts & implemented auto deployment process and reduced the amount of time.
- Experience on **Python**, Bash/Shell, Ruby, Perl, PowerShell, JSON, YAML and Groovy.
- Major focus on Configuration, SCM, Build and Release Management, Infrastructure as a code (IAC) and as Aws DevOps operations Production and cross platform environments.
- Skilled in writing Ansible playbooks for various packages. Implemented environments, roles, data bags in for better environment management.
- Knowledge on Java Lambda Expressions to retrieve the data from Collections using Functional Interfaces.
- Involved in using Terraform migrate legacy and monolithic systems to Amazon Web Services.
- Administrator and Architect of Cloud platforms (AWS)
- Proficient in using Unix Commands and utilities to monitor server-side activities and performance.
- Experience in converting existing s modules that had version conflicts to utilize cloud formation during Terraform deployments to enable more control or missing capabilities.
- Experience on Azure Site Recovery and Azure Backup Installed and Configured the Azure Backup agent and virtual machine backup, Enabled Azure Virtual machine backup from the Vault and configured the Azure Site Recovery (ASR).
- Experience in branching, tagging, and maintaining the version across the environments using SCM tools like Subversion (SVN), Git, Bitbucket, and GitHub on UNIX and Windows environment.
- Performed configuration, deployment and support of cloud services including Amazon Web Services (AWS).
- Expertise in working with diverse Database platforms for Installing, Configuring and Managing NoSQL, RDBMS tools like MYSQL, Oracle, DynamoDB, and MongoDB.
- Provisioned the highly available EC2 Instances using Terraform and cloud formation and wrote new plugins to support new functionality in Terraform.
- Worked on various network protocols like HTTP, UDP, FTP, TCP/IP, SMTP, SSH, SFTP & DNS and technologies like load balancers (ELB), ACL, Firewalls.
- Experienced with handling production incidents, queries, problems through remedy ticketing system and non -production issues/tasks/incidents through JIRA ticketing system
- Good understanding of web and application servers like **Apache Tomcat, WebSphere, Nginx**.
- Used build tools like Maven, ANT, and Gradle for the building of deployable artifacts from source code.
- Experience in building and deploying Java & SOA applications and troubleshooting the build and deploy failures.

- Proficient with Terraform Configuration files to spin up the infrastructure very easily and efficiently.
- Managed the deployment of virtual storage, sites, and server's infrastructure to augment clients' datacenters by Agile.
- Administering large PostgreSQL databases ability to do performance tuning index maintenance experience of backing up and restoring PostgreSQL database on a regular basis.
- Experienced using different log monitoring tools like Splunk, Nagios, ELK (Elastic search, Logstash, Kibana) for to see logs information, monitor, get health & security notifications from nodes.

#### **TECHNICAL SKILLS:**

- **Cloud Technologies:** AWS, Azure, GCP
- **Versioning Tools/SCM:** GIT, GitHub, Bitbucket, Subversion.
- **Build Automation:** CI/CD, Jenkins, Bamboo, Kickstart, Jumpstart, Terraform, ANT, Maven, and SonarQube.
- **Configuration Management Tools:** Ansible, Chef, Puppet.
- **Container Orchestration Tools:** Docker, Kubernetes, OpenShift.
- **Artifact Management Tools:** Nexus, Artifactory.
- **Scripting Languages:** Ruby, Python, Perl, HTML5, PHP, Bash/shell Scripting, PowerShell Scripting YAML, and JSON.
- **Monitoring Tools:** SignalFX, Nagios, Splunk, Elastic Search, ELK, Cloud Watch, Dynatrace, and Grafana.
- **Operating Systems:** Red Hat Linux 4/5/6/7, CentOS, Fedora, SUSE LINUX, UNIX, Windows servers [2003, 2008, 2008 R2, 2012, 2012R2], Windows 2000/2003/XP/vista/7/8/10, Ubuntu 12/13/14, Sun Solaris 8/9/10/11, HP/UX 10.x/11.x
- **Networking:** Load balancers, TCP/IP, HTTP/HTTPS, SNMP, NFS, FTP, SFTP, Telnet, SSH, SSL
- **Web/Application servers:** Apache, Tomcat, WebSphere, WebLogic (8,9,10)

#### **WORK EXPERIENCE:**

**Client: NYCASOFT (Mass-US)**

**Role: DevOps Engineer**

**July 2022 - DEC 2024**

#### **Responsibilities:**

- Implement required AWS services to High Performance Computing Experience. Especially, experience in leveraging AWS services including EC2, S3 storage, EFS (Elastic File System), IAM (Identity and Access Management) Cloud Formation, Cloud watch, DynamoDB.
- Automate AWS Backup for applications like Confluence to maintain backup by supported AWS services (EFS, RDS etc.) and migrate Confluence Data from source to destination by using AWS Data Sync agent.

- Responsible for administration of GIT version control and Perform activities branching, tagging, backup, restore.
- Automated the process of deployment to Apache Tomcat Application Servers by developing Unix/Python Scripts.
- Worked extensively on AWS broad range of services such as provisioning EC2, VPC, ELB, Security Groups, IAM, EBS, S3, SNS, SQS, Route53, ELB, CloudWatch, Cloud Front, Cloud trial, RDS.
- Worked on container-based deployments using the Docker images and Docker registries, pulled the required images from Docker Hub, Nexus. Used Docker to avoid the environment difficulties between Developers and Production.
- Deploying, managing, and operating scalable, highly available, secure, and fault tolerant systems on OpenShift, Kubernetes, EKS and AKS for our customers.
- Managing the OpenShift cluster that includes scaling up and down the AWS app nodes.
- Expertise in working Terraform key features such as infrastructure as code, execution plans, Resource grapes, change automation and extensively used auto-scaling launch configuration templates for launching amazon EC2 instances while deploying microservices.
- Involved in AWS cloud migration from on prem to landscapes.
- Managing DATA Center Inbound and outbound services. Working on Ansible automation tool.
- Involved in setting CI/CD Pipelines using Jenkins, Maven, GitHub, Docker, and Nexus.
- Created and developed deployments, namespaces, Pods, Services, Health checks, and persistent volumes etc., for Kubernetes in YAML Language.
- Experience with container-based deployments using Docker, working with Docker images, Docker Hub and Docker-registries and Kubernetes.
- Developed and maintained the continuous integration and deployment systems using Jenkins, ANT, Maven, Nexus, Ansible and Ruby
- Integrated ansible playbooks with the terraform templates to provision the infrastructure in AWS.
- Expertise in configuring teh monitoring and alerting tools according to the requirement like Prometheus and Grafana, setting up alerts and deployed multiple EKS dashboards for various microservices in K8's.
- Built Continuous Integration environment Jenkins and Continuous delivery environment.
- Automated configuration management and deployments using Ansible playbooks and Yaml for resource declaration. And creating roles and updating Playbooks to provision servers by using Ansible.
- Design and implement the CICD architecture and automation solutions using GITHUB, Bitbucket, Jenkins, Bamboo, and Ansible Tower. Deploying to production environment in AWS using Terraform
- Implemented Fortify and Black Duck Scans for Security and deploying the binary files like zipping, jar, dll's files to JFrog Artifactory using Jenkins, Bamboo
- Build and maintained fully automated CI/CD pipelines to build infrastructure in AWS using Terraform and cloud formation.
- Automated infrastructure using Terraform while reducing deployment time by 800025

- Installing, Configured and management in Ansible Centralized Server and creating the playbooks to support various middleware application servers, and involved in configuring the Ansible tower as a configuration management tool to automate repetitive tasks
- Leveraged AWS cloud services such as EC2, auto-scaling and VPC to build secure, highly scalable and flexible systems that handled expected and unexpected load bursts.
- Extensively worked on terraform modules that had version conflicts to utilize cloud formation during terraform deployments to enable more control or missing capabilities
- Implementing and managing Jenkins DSL job to automate the new job creation.
- Automation of Data transfer between on-premises and Cloud platforms leveraging HPC scripts.
- Designed and Implemented CI & CD Pipelines using Git, Jenkins, Maven, ECR and EKS from scratch achieving the end-to-end automation from code check into deploying docker images to EKS clusters.
- Design and deploy the infrastructure and services for new applications by tools such as SonarQube, Blackduck and Jenkins etc.
- Written the Ansible YAML scripts to configure the remote servers.
- Create testing framework with AWS services like AWS gateway, Dynamo DB, EC2 etc to test different AKANA policies.
- Working with AWS services such as EC2, VPC, RDS, CloudWatch, CloudFront, Route53 etc
- Create Gatling scripts to test different AKANA QOS policies and Performing AKANA end-to-end testing by using Gatling tool.
- Integrated Jenkins, Rundeck and Ansible. Designed and developed Jenkins Build deployments
- Written Terraform templates, Chef cookbooks pushed them onto Chef for configuring GCE Instances
- Worked with Jenkins for automating builds.
- Created custom AWS CloudFormation templates in JSON tailored to our organization requirements to use them as blueprints for building & deploying EKS clusters which will set the proxy configured dynamically during the cluster creation. expertise in creating Docker images using Docker File, worked on Docker container snapshots, removing images, and managing Docker volumes and implemented Docker automation solution for CI/CD model.
- Migrated IAC based from Terraform 0.11 to 0.12.x latest version.
- Automating Cloud infrastructure setup via Cloud formation, terraform and AWS Code Deploy.
- Designed and implemented framework using Python and generating Terraform templates to create security groups in GCP
- Deployed centralize and auto scaling monitoring system for infrastructure using Grafana, Puppet and puppet dB with integration of many custom plugins for real time monitoring.
- Automate SDLS with scripting languages like python, shell, and groovy scripts. System troubleshooting and problem-solving across platform and application domains.
- Work closely with development team by rapidly deploying instances, monitoring operating efficiencies of the platform, and responding as needs arise.

- Deployed 3 tier architecture infrastructure on AWS cloud using Terraform-IAC
- Written puppet modules for logstash, Elasticsearch and Kibana and Used puppet to measure the AWS metrics
- Created dynamic routing/load balancing capability, allowing for large application scaling, used ingress rules, and a Network Load Balancer with the NGINX Ingress Controller on Amazon EKS.
- Implemented Terraform modules for deployment of applications across multiple cloud providers
- Used Ansible to deploy ELK for automating continuous deployment (CD) and configured Nodes and deployment failure reporting and working with Site Reliability Engineer to implement Data dog system metrics, analytics
- Accountable for the integration/maintenance/development of application and server monitoring tools (for DevOps) - Nagios, Prometheus, Kibana, Datadog.
- Worked with Terraform key features such as Infrastructure as code, Execution plans, Resource Graphs, Change Automation
- Help customers to understand technical and functional aspects of Prometheus products and standard functionality.
- Replaced the use of CloudFormation with Terraform to not be fully locked into a single cloud provider.
- Monitor applications and environment by managing the installation/configuration of Splunk and ELK.

**Environment:** Git, GitHub, Jenkins, Black Duck, Bitbucket, Confluence, AKANA, Jenkins Pipeline, Groovy, Ansible, YAML, Docker, MAVEN, AWS, Ec2, EFS, RDS, Route53, Dynamo DB, S3, EKS, Cloud Formation, IAM, SonarQube, JFrog, Artifactory, XML, JSON, Rally, Apache Tomcat, Gatling, Python, Shell.

**Client:** COE Software Solutions (HYD, India)

**Role:** Build and Release Engineer - Linux Administrator

**July 2018 - July 2022**

**Responsibilities:**

- Responsible for Build activities based on the corresponding team's request.
- Performed SCM tasks, such as check-in, checkout, branching, tagging and merging code from development branches to release branch and release branch to development branches.
- Creating New Jobs and updating existing jobs in Jenkins, Responsible for configuring and maintaining continuous integration, installation of plug-ins.
- General Yocto Linux administration, operating system, upgrades, security patching, troubleshooting, and ensuring maximum performance and availability.
- Creating repositories in GIT, user addition, granting access to users and maintaining the repository.
- Perform daily maintenance tasks on Linux servers, monitoring system access, managing disk space and tuning the system for optimum performance.
- Responsible for writing and modifying scripts for day-to-day administration.
- Installed and configured and administration of RedHat Linux servers and support.

- Responsible for setting up Cron Jobs scripts on production server.
- Monitored system activities like CPU, Memory, Disk and Swap space usage to avoid any performance issues.
- Performed OS upgrades and patching when required.
- Wrote bash shell scripts to automate various Linux servers.

**Environment:** Git, GitHub, Jenkins, Ant, Maven, Red hat Linux, Shell, Bash, VMWare, and Networking.