# Vamshi Surya

# Sr. DevOps Engineer

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**PROFESSIONAL SUMMARY:**

* A passionate engineering professional with more than 8 years of IT experience in **Azure, GCP** and **AWS** Cloud services along with Build and Release Engineering, Infrastructure provisioning, DevOps engineering with in- depth knowledge of various Automation tools, System Administration.
* Experience in administering IAAS& **PAAS** VM's and Web roles on Microsoft **Azure** (Classic), Resource Manager and troubleshooting issues on **Azure** VM's. Supported technologies, such as **Active Directory Federation Services (ADFS)**, **Azure Active Directory (AD)**, and **PowerShell** and Architecting Infrastructure.
* EXperience in GCP DevOps Pipeline, Terraform experience and Model setup on and Deploy and monitor services, and manage and learn from incidents.
* Experience working on both native Cloud security and monitoring services in GCP, including VPC Service Controls, Firewall, Cloud KMS, Cloud Armor, Cloud IAM, Cloud Audit Logs, Cloud.
* Hands on experience in **cloud services**, **IaaS**, **worker/web role**, **service bus**, **azure blob**, **table storages**, **queue** and **API Management**. Configured NSGs for two-tier and three-tier applications. Experience in integrating on premises servers to **Azure** Cloud.
* Created and managed **Azure AD** tenants and configured private and public facing **Azure** load balancers and applications with **Azure AD** and integrated on-premises Windows **AD** with **Azure AD**.
* Expertise in the concepts of **Azure**, OpenStack Cloud Based Technologies and configured **Azure** Blob storage and

**Azure** file servers, **Azure** API Management, Traffic Manager and Resource Manager.

* Experienced with Interpreted languages including **Perl, Python.**
* Understands Compiled languages including **C, C++, C#, Dot NET**, and **JAVA**.
* Strong use of **Shell** scripting languages including **BASH** for **Linux** and **Mac** platforms and **PowerShell** for Windows systems.
* Facility with development methodologies including **Waterfall**, **Scrum**, **Kanban**, **Agile**, and hybrid.
* Excellent configuration management utilizing **Puppet**, **Chef**, and **Ansible.**
* Experience working with **Apache Hadoop, Kafka, Spark and Log stash.**
* Experienced in Configuration Management, Cloud Infrastructure, and Automation utilizing **Amazon Web Services**

(**AWS**), **Ant**, **Maven**, **Jenkins**, **Chef**, **SVN**, **Git**, **GitHub**, **Clear Case,** and **Tomcat**.

* Worked on the Deployment, Configuration, Monitoring and Maintenance of **OpenShift** Enterprise Administration and worked with the management of **OpenShift** Enterprise resources.
* Manage **Amazon Redshift** clusters such as launching the cluster and specifying the node type as well.
* Setup and build **AWS** infrastructure various resources like **VPC, EC2, RDS, S3,** IAM**, EBS, Security Group, Auto Scaling, SES, SNS**, and **RDS** in CloudFormation **JSON** templates.
* Implemented a **'server less'** architecture using **API Gateway, Lambda, and DynamoDB** and deployed **AWS Lambda code** from Amazon S3 buckets. Created a Lambda Deployment function, and configured it to receive events from your S3 bucket.
* Expertise in Amazon **AWS** Cloud Administration which includes services like **EC2, S3, EBS, VPC, ELB, AMI, SNS, RDS,** IAM, **Route 53, Autoscaling, CloudFront, Cloud Watch, Cloud Trail, Cloud Formation, OPS Work, Security Groups**, etc.
* Designed highly available, cost-effective, and fault-tolerant systems using multiple **EC2** instances, Auto Scaling, Elastic Load Balance and AMIs, and Glacier for **QA and UAT** environments as well as infrastructure servers for **GIT** and **Chef**.
* Strong expertise in designing Microservices based solutions utilizing Cloud-Native Architecture.
* Experienced in architecting and managing **AWS** cloud infrastructure.
* Developed **Python** modules to automate processes in **AWS** (**AWS Cloud Formation**)
* Efficient in Build and configuration of infrastructure in cloud development through the usage of **Terraform tool as IaC**, and ability of modifying the **Terraform modules** based on the requirement of development project.
* Implemented **Micro-services** using the **Pivotal Cloud Foundry (PCF)** platform built upon **Spring Boot** Services
* Expertise in Application Deployments & Environment configuration using **Chef**, **Puppet**.
* Extensive experience in **Linux**/**Unix** system Administration, System Builds, Server Builds, Installations, Upgrades, Patches, Migration, Troubleshooting on **RHEL 4.x/5.x**
* Good knowledge of **AWS** services like **Glacier, ELB (Load Balancers), RDS, SNS, SWF, and** IAM and hands-on experience on **Amazon Web Services** (**AWS**) provision.
* Extensive experience in Server infrastructure development on **AWS** Cloud by using **AWS** services like **EC2**, **ECS, EBS, ELB, Lambda, S3, RDS, Glacier**, **DynamoDB**, **VPC**, **Route53, CloudWatch, CloudFormation,** IAM**, Certificate Manager, SNS, and Auto Scaling** in a scalable production environment.
* Kept track of all releases and requests of the developers through the infrastructure management tool.
* Extensively worked on **CI** tools like **Jenkins**, **Hudson, TeamCity**, and **Bamboo** for continuous integration and end- to-end automated build and deployments.
* Strong Experience in implementing Data Warehouse solutions in **AWS Redshift** Worked on various projects to migrate data from on-premise databases to **AWS Redshift, RDS, and S3**.
* Experience in Querying **RDBMS** such as **Oracle**, DB2, **MY SQL**, and **SQL** Server by using **SQL** for data integrity.
* Hands-on Experience of the **J2EE** Framework and its components as related to **JAVA** build, test, deployment, and release management initiatives.
* Expertise in writing Automation scripts in **Selenium** using **C Sharp**, **Dot NET**, and **JAVA**.
* Configured **DOCKER** Containers for Branching purpose and deployed using Elastic Beanstalk.
* Exposed to all aspects of the software development life cycle (**SDLC**), **SDET** which includes Analysis, Planning, Developing, Testing, and Implementing and Post-production analysis of the projects.
* As part of SDET involved in various test method & corresponding tools like MS Test, NUnit, TestNG, Selenium WebDriver, etc
* Experience in Sandbox Development to support performance testing, load testing and staging.
* Involved in migrating version management systems from CVS to **SVN**, **SVN** to CVS, and **SVN** to **GIT**.
* Experience working on **DOCKER** hub, creating **DOCKER** images, and handling multiple images primarily for middleware installations and domain configuration.
* Good experience working with container orchestration tools **Apache**, **Marathon**, and **Kubernetes**.
* Experience with container-based deployments using **Docker**, working with **Docker images, Docker hub, and Docker registries, installation,** and configuring **Kubernetes** and clustering them.
* Implemented **Kubernetes** to deploy scale, load balance, scale and manage **Docker** containers with multiple names spaced versions.
* Experience in logging, monitoring, and maintaining applications/servers using tools such as **Nagios**, **Splunk**.

**TECHNICAL SKILLS:**

| **Operating System** | LINUX(REDHAT, CENTOS, UBUNTU,), UNIX, RHEL/CentOS 5.x/6.x/7, Windows, Mac OS |
| --- | --- |
| **Cloud** | AWS, Azure, PCF, OpenStack, GCP |
| **Versioning Tools** | GIT, Subversion, CVS, Clear case, Bit Bucket, Gitlab, GitHub |
| **CI Tools** | Jenkins, Bamboo, Hudson, Chef, Puppet, HPOO, Ansible |
| **Build Tools** | MAVEN, Gradle, Ant, Makefile |
| **Container Tools** | Kubernetes, DOCKER, DOCKER swarm, OpenShift |
| **Bug Tracking Tools** | JIRA, Rally, Remedy, and IBM ClearQuest |
| **Languages** | JAVA/J2EE, Net, C, C++, PL/SQL |
| **Scripting** | Shell scripting, Python, Ruby, Perl scripting, BASH, Golang |
| **Network Security** | Calico, Istio, Kubernetes native networking policies |
| **Big Data Technologies** | Kafka, Cassandra |
| **Web/App servers** | Apache Tomcat, JBOSS, Web logic, Web Sphere |
| **Database** | Oracle 9i/11g & 12C, SQL SERVER, MySQL, MongoDB |
| **Monitoring Tools** | Splunk,Nagios, Grafana |

**PROFESSIONAL EXPERIENCE:**

**Client: IBM, Austin, TX Jan 2022- Till date**

**Role: DevOps/SRE Automation Engineer**

# Responsibilities

* Worked on **GCP** services like compute engine, load balancing, storage, cloud SQL, Sole-Tenant Nodes, stack driver monitoring and cloud deployment manager. Used **Ansible** for deployment configuration automation on production servers.
* Created **Ansible** playbooks, which are the entry point for **Ansible** provisioning, where the automation is defined through tasks using **YAML** format and Run **Ansible** Scripts depending on provision to servers.
* Implemented GCP Firewall rules to allow or deny traffic to and from the VM's instances based on specified configuration and used **GCP** cloud CDN (content delivery network) to deliver content from GCP cache locations drastically improving user experience and latency. Setup network Servers by programming in Golang.
* Experience in providing highly available and fault tolerant applications utilizing orchestration technologies like

# Kubernetes and Apache Mesos on Google Cloud Platform (GCP) Using Golang.

* Created alerts through monitoring and logging in **GCP**
* Worked on setting up the **CI-CD** pipeline for Numerous App teams and responsible for maintenance and troubleshooting
* Worked on Udeploy as part of Deployments, Experience in configuring env, components, Resources, and configuring the process and also wrote a playbook to add agent into udeploy
* Worked on all kinds of builds like Maven, Gradle, .net, Python, and Utilized **Nexus** artifactory for storing the Artifacts
* Also experience in setting up Jenkins CI using **Kubernetes** and Configuring Pod Templates Based on Key-Value pair
* Experience in working with Maturity and Roadmap for Micro-segmentation (Zero-trust) for Microservice-based Architecture Using Istio Service Mesh.
* For Microservice-based Architecture Using Istio Service mesh to encrypt pod-pod interaction inside the Kubernetes Cluster
* Defined Istio Authentication Policies for Istio Enabled Namespaces Using MTLS
* Setup External Communication Using Istio Ingress Gateway, through Service Account, using service entry as well.
* Define Istio Authorization policies based on global, namespace level policies using services and matching label selectors
* Deployed istio ingress controller, Deployed Ingress gateway on a namespace and defined the virtual service and destination Rules to direct the gateway
* Familiar with helm charts for deployment managers to use charts and templates for listed file names.
* Implemented Pod security policies (PSP) in AKS for required best practices and the ability to control what pods to be controlled, scheduled in AKS clusters, prevents some possible security vulnerabilities or privilege Escalations.
* Implemented HTTPS Ingress controller and use TLS certificate on AKS to provide reverse proxy, configurable traffic routing for individual Kubernetes services.

**Environment:** IBM cloud, Cloud Trail, Jenkins, Kubernetes, Openshift Chef, C#, .NET, Visual Nexus, Linux, ELK, JAVA, Ruby Scripting, Python, Udeploy, PowerShell, Shell Scripting, Istio, Calico, Maven, Ansible, JIRA, Bamboo, Ansible Tower,, DOCKER, VMWare, Splunk, GIT, Web Logic, Puppet, ANT, J2EE, Web sphere, Apache Tomcat, JBoss.

**Client: Humana, Louisville, KY Jul 2021- Dec 2021**

**Role: Azure/Kubernetes DevOps Engineer**

# Responsibilities

* Administering and supporting the company's Azure infrastructure, ensuring it is secure, Resilient in its performance.
* Configured and Deployed GKE clusters and configured Network plugins
* Experience in Designing Cloud Security to obtain Zero-trust network model for security.
* Well versed in Securing the GKE cluster by applying Global Calico Networking policies well as Namespace level Policies and Designed policy for POD to External database communication
* Responsible for Developing a working Networking model for GKE clusters
* Designed Base Calico policies for the app Teams to implement to secure the Cluster from outside or any intended or unintended malicious Activity
* Utilized both Calico as well as Kubernetes native network policies
* Implemented services such as Cluster IP, node port, External Load-balancer, Ingress, to direct the traffic to the Service using Match labels
* Experience in Standardization to Manage, Monitor and Update the Policies.
* Also Worked on Azure shared platform to run multiple applications, RBAC Access, Ability to expose services to the internet
* Experience in working with Single-sign-On with Azure AD & RBAC assignment linking azure AD groups to namespace RBAC
* Worked on Calico policies to enable selective communication across the Namespace
* Experience in working with SSL Certificates using cert manager, Created Kubernetes Secrets and used Hashicorp to retrieve Secrets and managing the Life cycle of Certificates
* Worked on Continuous Monitoring of any Vulnerabilities, malware, crypto mining, Using Twistlock, and other monitoring tools like Splunk.
* Experience in working with Maturity and Roadmap for Micro-segmentation (Zero-trust) for Microservice-based Architecture Using Istio Service Mesh.
* For Microservice-based Architecture Using Istio Service mesh to encrypt pod-pod interaction inside the Kubernetes Cluster
* Defined Istio Authentication Policies for Istio Enabled Namespaces Using MTLS
* Setup External Communication Using Istio Ingress Gateway, through Service Account, using service entry as well.
* Define Istio Authorization policies based on global, namespace level policies using services and matching label selectors
* Deployed istio ingress controller, Deployed Ingress gateway on a namespace and defined the virtual service and destination Rules to direct the gateway
* Familiar with helm charts for deployment managers to use charts and templates for listed file names.
* Implemented Pod security policies (PSP) in AKS for required best practices and the ability to control what pods to be controlled, scheduled in AKS clusters, prevents some possible security vulnerabilities or privilege Escalations.
* Implemented HTTPS Ingress controller and use TLS certificate on AKS to provide reverse proxy, configurable traffic routing for individual Kubernetes services.
* Working in a Robust and Multi-Talented Team in terms of **SRE**, Involved in setting up **SLA, SLO**, Error Budgeting
* Involved in various Automation Activities, Self-Healing Engines, Monitoring
* Configured **K8** clusters in **IBM** cloud using **Ansible** Automation as part of building the Test Environment for testing various Health checks and creating & executing test cases, reporting, and testing bugs
* Also Written **Ansible PLaybooks**, **Modules** and configured **Roles** for Downloading all Dependencies and EXtract packages As part of Server and on Cluster configuration
* Written playbooks and updated various **Run-books** for various Scenarios like Node not Ready.
* Worked on **Openshift** Cluster also as part of CI-CD Jobs running as containers
* Implemented centralized logging system using **Logstash**, configured an **ELK stack** (**Elastic search**, **Logstash** and **Kibana**) to monitor system logs. Involved with index management, shared allocation and snapshot the data to a different repository for disaster recovery in **Elasticsearch**
* Worked on creating **Docker** consoles for managing the application life cycle.
* Utilized **Kubernetes** for the runtime environment of the **CI**/**CD** system to build, test deploy. Used **Kubernetes**

to orchestrate the deployment, scaling and management of **Docker** Containers.

* Used **Helm charts** to package and deploy common applications in Kubernetes.
* Maintained and Debugged Code to meet the required standards by using **SonarQube** and used **Selenium** for testing
* Purposes. Also, monitored system activities to optimize performance and ensure security of systems.
* Scripting in multiple languages on **Linux**, **Shell** scripting, **python** scripting etc.
* Operating and producing systems design specifications for **Linux** and **Windows** based platforms, **MS SQL** and

# MySQL.

**Environment:**GCP, Kubernetes, Azure Devops, Istio, Calico, Twistlock, Splunk, Visual studio 2013, Linux, Ubuntu, Python, PowerShell, Shell, DOCKER, Azure Container registry, GIT, Hashicorp, StrongDM, Apache , JFrog, Network Protocols, SNOW, DNS, and SQL Server, MongDB

**Client: Centene Corporation St Louis, Missouri Sept 2019- Jun 2021**

**Role: Sr.DevOps/Azure Engineer**

# Responsibilities:

* + Worked on Microsoft Azure Cloud (Public) to give IaaS support to customers. Make Virtual Machines through Powershell Script and Azure Portal. Overseen and Created Storage Account and Affinity Group in Azure Portal.
  + Experience in dealing with Windows **Azure** IaaS - Virtual Networks, Virtual Machines, Cloud Services, Resource Groups, Express Route, Traffic Manager, VPN, Load Balancing, Application Gateways, and Auto-Scaling.
  + Expertise in **Azure** infrastructure management (**Azure** Web Roles, Worker Roles, **SQL Azure**, **Azure** Storage,

**Azure** AD Licenses)

* + Created subscription, Storage Account and tables using Windows **PowerShell** using automation in **Azure**.
  + Experience in Deploying and managing microservices on various platforms like **Openshift.**
  + Managed the **Openshift** cluster that included scaling up and down the AWS app notes
  + Experience in working and building comprehensive Azure Ecosystem, implemented Azure provided security and defining Network firewalls.
  + Have very strong exposure using Ansible automation in replacing the different components of **Openshift** like ECDT, MASTER, APP, INFRA, GLUSTER.
  + Generated Google Cloud service account keys using G Cloud vault secrets engine (as well as OAuth tokens) based on IAM policies.
  + Also implemented users to generate GCP credentials instead of authenticating to Vault using a central identity service (such as LDAP)without the need to create or manage a new Service Account for that user
  + Used **Azure** cloud services, **Azure storage**, **Azure active directory**, **Azure Service Bus** and Hybridization Cloud.
  + Led implementation of Office 365 and **Azure Active Directory** for single sign on, authentication, authorization and **Azure Role-based Access Control (RBAC**).
  + Exposed Virtual machines and cloud services in the VNets(Virtual Networks)to the Internet using **Azure** External Load Balancer
  + Used **Terraform** to provision Infrastructure for cloud with Infrastructure as a code (IaaC). Also, created reusable terraform modules.
  + Involved in creation of **Terraform** Templates to automate the Azure Iaas VM's using **terraform** modules and deployed virtual machine scale sets in production environment.
  + Used **Azure Terraform** as well as **Pulumi** to deploy the Azure infrastructure necessary to create development, test, and production environments for a software development project.
  + Implemented **Azure Kubernetes** service to deploy a managed **Kubernetes** cluster in **Azure** and create an **AKS**

cluster in the **Azure** portal, with the **Azure CLI**.

* + Performed code commit, revert, checkout and merge operations on **GIT** and pushed sourced code to **GitHub**.
  + Written wrapper scripts to automate deployment of cookbooks on nodes and running the **chef** client on them in a **Chef**-Solo environment. Converting production support scripts to **Chef** Recipes.
  + Used **Ansible** to deploy applications on all servers through SSH.
  + Gather required configurations of all servers and maintain the playbooks updated using **Ansible.**
  + Build **.Net** applications using **Teamcity** & **Octopus Deploy**, also used spinnaker for deploying in the cloud.
  + Setup Jenkins job for **.Net** applications using MSbuild and **PowerShell** scripting and Used **ANT, MAVEN** as a build tools on java projects for development of build artifacts on the source code.
  + Setup Hybrid connections between **Azure** web pass and on-premise **SQL** databases. Also, involved in Database designing/deploying using **Azure SQL DB** and Azure Storage Services using **C#, .NET**
  + Defined dependencies and plugins in **Maven pom.xml** for various activities and integrated **Maven** with **GIT.**

**Environment:** Azure, Cloud Trail, Jenkins, Chef, C#, .NET, Visual studio 2013, Linux, ELK, JAVA, Ruby Scripting, Python, Cmake, PowerShell, Shell Scripting, Subversion, SonarQube, Maven, Ansible, JIRA, Bamboo, TFS, DOCKER, VMWare, Splunk, GIT, Web Logic, Puppet, ANT, J2EE, Web sphere, Apache Tomcat, JBoss, Network Protocols LDAP, DNS, NIS, NFS, Cassandra, and SQL Server, SSRS.

# Client, Verisk, Jersey City, NJ Jan 2018 – Aug 2019

**Role: DevOps/AWS Engineer Responsibilities:**

* Worked on multiple DevOps and Cloud tools that achieve KPIs. Coordinating with the implementation team, to build and engineer services for **Linux** and Windows OS on cloud (**AWS** & **GCP**) platforms. Provisioned Instances, Storages & monitoring Services and CI/CD pipeline through **Jenkins**.
* Worked with automation of OS builds and application installations through **Chef**, **Nagios** for application and hardware resource monitoring, worked with plug-ins in Nagios for monitoring resources.
* Managed **AWS** infrastructure and automation with **CLI** and **API**. Working on Inbound and Outbound services with automation of **Chef**. Deployed multiple resources simultaneously, using **CloudFormation** templates in **AWS**.
* Handled migration of on-premises applications to the cloud and created resources in the cloud to enable this. All critical **AWS** tools used **ELB** and Auto-Scaling policies for scalability, elasticity, and availability.
* Involved in designing and deploying multitude applications utilizing almost all **AWS** stack (Including **EC2**, **S3, AMI**, **Route53**, **RDS**, **SNS**, **SQS**, **IAM**) focusing on high-availability, fault tolerance, and Auto-Scaling in **AWS** Cloud Formation, Cloud Watch.
* Launched and configured of **Amazon EC2** Cloud Servers using AMI's.
* Configured an **AWS Virtual Private Cloud (VPC**), **NACL**, and Database Subnet Group for isolation of resources within the **Amazon RDS** and **Aurora DB** clusters.
* Designed **AWS** CloudFormation templates to create custom sized **VPC**, Subnets, **NAT** to ensure successful deployment of Web applications and database templates.
* Created function in **Lambda** that aggregates the data from incoming events, then stored result data in **Amazon DynamoDB** and **S3**.
* Used **AWS Beanstalk** for deploying and scaling web applications and services developed with **Java**, **PHP**, **Node**.**js**, **Python** and **Ruby** on familiar servers such as **Apache**, and **IIS**.
* Managed network security using Load balancer, Auto Scaling, Security Groups and NACL's.
* Created scripts in **Python**, which integrated with **Amazon API** to control instance operations.
* Designed and worked with a team to implement **ELK (elastic search, log stash and Kibana)** Stack on **AWS**.
* Installed **UDeploy**, **XL Deploy** server agents and did deployments in various environments.
* Managed different infrastructure resources, like physical machines, VMs and even **Docker** containers using

# Terraform.

* Expertise in Using Elastic search as an open source search engine with REST API building servers.
* Configured and maintained **Jenkins** to implement the CI process. Built Jenkins jobs to create **AWS** infrastructure from SCM repos containing **Terraform** code.
* Configure **Git**, build scripts using **ANT** and **MAVEN** build tools with **Jenkins** and schedule jobs using POLL SCM option and integrated to automate the code checkout process.
* Used **Jenkins** 2.0 and pipelines, which helped us, drive all Microservices builds out to the **Docker** registry and then deployed to **Kubernetes**. Created Pods and managed using **Kubernetes**.
* Built additional Docker Slave nodes for Jenkins using custom built Docker images and instances.
* Created **Docker** images using a **Docker** file, worked on **Docker** container snapshots, removing images and managing **Docker** volumes. Achieved containerization of Web application using **Docker**, **Kubernetes** and Database maintenance.
* Experienced in using **Docker Swarm** and deployed spring boot applications.
* Worked on designing a new platform around application extensibility through orchestration using **Kubernetes** and Istio service mesh. Worked on Calico security network policy for **Kubernetes**.
* Utilized Configuration Management Tool **Chef** and also created and managed **Chef** Cookbooks using recipes to automate system operations. Involved in Configuring, monitoring and multi-platform servers by defining **Chef** Server from workstation to manage and configure **Chef** Nodes.
* Implemented environments, roles, and data bags in **Chef** for better environment management.
* Written **Chef** Cookbooks and recipes in Ruby to Provision several pre-prod environments consisting of **Cassandra**

DB installations, WebLogic domain creations and several proprietary middleware installations.

* Implemented CI process for **Chef** Cookbook’s development workflow with help of Test Kitchen, Foodcritic, and Robocop and **Chef** Spec. Implemented behavior-driven tests for **Chef**-managed infrastructures using Cucumber.
* Used **Chef** for configuring the hosted instances within GCP
* Automated Datadog Dashboards with the stack through **Terraform** Scripts and assisted internal users of **Splunk** in designing and maintaining production quality dashboards
* Managed a PaaS for deployments using
* Ansible Vault comes handy when overcoming and deploying secret files (SSH private keys).
* Created Custom Ansible modules for finding facts about **Cloud watch** alarms and taking actions to pause/unpause those alarms during deployments. **Docker**, **Ansible** and **Mesos**, which reduced considerably deployment risks.
* Experienced with **NOSQL** databases **Cassandra** and **MongoDB**.
* Installed and administered the various virtualization components like **vCenter**, **vSphere**

**Environment:** AWS, GCP, Jenkins, Git, ANT, Maven, Docker, Kubernetes, Istio, Calico, Mesos, Chef, Ansible, Nagios, XL Deploy, Cassandra, MongoDB, Terraform, WebLogic, Shell, Python, Ruby, PowerShell, Groovy, Perl.

# Client: GDIT Rensselaer, NY May 2016 – Dec 2017

**Role: DevOps/AWS/Cloud Engineer Responsibilities:**

* Worked on Multiple **AWS** instances, set the security groups, **ELBs** and **AMIs**, Auto scaling to design cost effective, fault tolerant and highly available systems.
* Launched **LAMP** stacks in multitier **AWS** instances in different subnets in **Amazon VPC**, and Security Groups to maintain high security.
* Handled working with tools for log analysis and alert triggering and connecting them to different monitoring tools (**ELK**, **AWS CloudWatch** and **SCOM**)
* Used CloudFront to deliver content from **AWS** edge locations to users, allowing for further reduction of load on front-end servers.
* Participated in the release cycle of the product, which involves environments like **Dev**, **QA**, **UAT** and production.
* Good experience in **AWS** (**Amazon Web Services)** including deploying new server instances through automation with **Puppet** and **Jenkins**.
* Experienced in Testing/Development/Automation in a DevOps role on an agile project team for the API Gateway.
* Developed Continuous Integration, Nightly and On-demand build system from scratch with **Jenkins**, **ANT**, and

# Maven.

* Responsible for design and maintenance of the **Subversion**/**GIT** Repositories, views, and the access control strategies.
* Developed build and Deployment Scripts using **ANT** and **Maven** as build tools in **Jenkins** to move from one environment to other environments. Integrated Junit tests in **ANT** & **Maven** and configured **Jenkins** to send the Unit test report to the development team.
* Managed the **Maven** Repository using **Nexus** tool and used the same to share the snapshots and releases of internal projects.
* Installed and configured Continuous Integration tools such as **Jenkins** for build and deployment automation.
* Automated application deployment in the cloud using **Docker** technology, Created and managed a **Docker**

deployment pipeline for custom application images in the cloud using **Jenkins**.

* Installed and configured automated tool **Puppet** that included the installation and configuration of the master and agent nodes. Created **Puppet** manifests, classes and modules to automate system operations. Used **Puppet** Dashboard and **Puppet DB** for configuration management to existing infrastructure.
* Automated deployment modules of IIS web applications, bindings and configuration settings using a combination of **PowerShell** scripts and **Puppet**.
* Developed automation and deployment utilities using **Perl**, **Bash**, **PowerShell**, **Python** and **Rundeck**.
* Integrated builds with Code Quality Tools like **Cobertura**, **PMD** and **Checkstyle** to **Maven** projects.
* Created Instances in **Apache**, Web Server and Application servers in QA and Production environments.
* Deployed **JAR**, **WAR** & **EAR** artifacts into WebLogic and **Apache** servers.
* Created the deployment request tickets in Remedy for the deploying the code to Production.
* Managed the development activities for multiple server instances by enabling password less SSH communication between the servers.
* Installed **Oracle** 9i, 10g on the Sun servers running Solaris 10 and **RedHat Linux**.
* Used **Oracle** to connect to various databases and to check the invalid objects after and before each release.
* Documented the SCM process and policies of the company and recommended some process changes.
* Worked with scrum and development teams in overseeing bug tracking, test prioritization, test automation and releases.

**Environment:** AWS, EC2, VPC, AMI, Java/J2ee, ANT, Maven, GIT, Subversion, Jenkins, Docker, Puppet, Jira, Cobertura, Apache, WebLogic, Oracle, SSA, PowerShell, Bash, Python, Perl

**Educational Details**

**BE** in Computer Science from JNTU, Hyderabad, India in 2014

**MS** in Computer Science from Silicon valley university, San Jose in 2016