  **SHARATH S**

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***Professional Summary:***

***8+*** *years of dynamic technical IT experience, with solid knowledge of* ***Configuration Management*** *tools such as* ***Ansible,******Chef and Puppet*** *and* ***Continuous******Integration and Continuous Delivery*** *(CI/CD),* ***Build and Release,******Linux*** *and Cloud-based* ***System******Administration*** *such as* ***Microsoft Azure, Amazon Web Services (AWS), OpenStack*** *with a good understanding of the concepts and best practices* ***of Software Configuration Management (SCM****) in* ***Agile, Scrum, and Waterfall*** *methodologies under the* ***Unix/Linux/Windows*** *platform.*

* Proficient in administrating **Microsoft** **Azure IAAS, SAAS**, and **PAAS** services such as **Virtual Networks**, **Virtual Machines**, **Blob Storage**, **Azure Data Factory**, **Azure Data Lake**, **Cloud Services**, **Resource Groups**, **Express Route**, **Traffic Manager**, **VPN**, **Load Balancing**, **Application Gateways**, **Auto**-**Scaling**, deploying **Web Apps,** monitoring by **Azure Application Insights** and creating **Web-Jobs**.
* Experienced in **Azure Resource Manager (ARM)** to deploy, update and delete multiple resources on Azure and in migrating the on-premise resources to **Azure** with **Azure** site recovery (ASR) and Azure backups. Worked on creating resource group of virtual machines by specifying deployment parameters in **Azure Resource Manager (ARM).**
* Expertise in **AZURE AD Connect** deployment and configuration using **AZURE AD Connect.** Experience with **Azure** **Network Security Groups, Azure Operational Insight**, and **OMS**, **AZURE Premium Storage**, Site Recovery, Virtual Appliance Network, Azure Storage Object **Client-Side Encryption**.
* Hands-on experience in **Azure** Development, Worked on **Azure web application, App services, Azure SQL** **database, Fabric controller, Azure search**, and **notification hub.**
* Experienced in the cloud platform and services of Amazon Web Services (**AWS**) such as **Lambda, DynamoDB**, **EBS, ELB, AMI, Elastic Beanstalk, CloudFront, CloudWatch, Ops Work SNS, Glacier, Auto-Scaling, IAM, Route53, EC2, S3, RDS, VPC, VPN, Security-Groups** and AWS console management.
* Experienced in **PowerShell** scripting for **Patching, Imaging, and Deployments in Azure** also performed the migrating of on-premises applications to Azure and configured **VNETs** and **subnets** according to the project requirement.
* Hands-on experience in implementing CI/CD pipelines using **Azure DevOps (VSTS, TFS)** in both cloud and on-premises with **GIT, MS Build, Docker, Maven along with Jenkins plugins.**
* Expertise in writing **PowerShell** Scripts to automate the Windows patching and created the release in **Azure DevOps** pipeline.
* Experienced in **DevSecOps** security auditing method, continuous monitoring of the entire infrastructure, facilitating improved enforcement, configured **DevSecOps** strategies, used SAST (Static Analysis Security Testing) and DAST (Dynamic Analysis Security Testing) and eliminated security breaches and vulnerabilities.
* Expertise in **Terraform** to efficiently version and develop the **Azure**/**AWS** infrastructure. Created resources, using **Azure**/**AWS** **Terraform** modules and formulated infrastructure management
* Experienced with key **Terraform** features such as **Infrastructure** **as** **Code** (**IaC**), **execution plans, resource graphs, change automation**
* Good experience in Auto Scaling and launched cloud instances when deploying **Microservices** and used **Terraform** to map more complex dependencies and to identify connectivity issues.
* Hands-on experience in using Different triggers and configured different **AWS messaging services** such as **SNS, SQS, SES, Pinpoint,** and database services such as **Amazon Aurora, RDS, DynamoDB, and Redshift**.
* Responsible for the core infrastructure of the **OpenStack** project, including code review, continuous integration systems, and developer tools and **installation, setup** and **administration** of OpenStack **Multi-node**.
* Designed and administered **Jenkins** for automated builds which are responsible for installing **Jenkins** master and slave nodes, developed and maintained Automated **CI/CD pipeline** for code deployment using **Jenkins**. **Jenkins** was used as a Continuous Integration tool: creating new jobs, managing necessary **plugins, build trigger, build system and post-build actions, building scheduled automation.**
* Developed onboard **microservices** tools using **Python** and **Jenkins** for easy development and maintenance of build jobs and deployment and services via **Kubernetes**.
* Experience across Open-Source DevOps tools such as **Chef**, **Jenkins** & **Docker** for **AWS** instances spanning development, test and pre-production and cloud automation.
* Experience in **Kubernetes** using Helm charts to deploy scale, load balance, and manage multi-name spaced versions of **Docker** **containers**.
* Expertise in the use of **Docker Hub, Docker Engine, Docker images, Docker Weave, Docker Compose, Docker Swarm and Docker Registry** and used containerization when moved to various environments to create application platforms.
* Expertise in using **Kubernetes** to **run/manage containers, images and snapshots of containers**, while providing a framework for the **automation**, deployment and scaling of application containers across host **clusters**.
* Experience in working on **Kubernetes** **cluster** management to create Pods, Nodes and deploy **microservices** pulled from **Docker** **Registry** and controlled by **Kubernetes**.
* Implemented & maintained the branching and **build/release** strategies using **SCM** tools **GIT, GitLab, Bitbucket,**

**Subversion** and have experience in **migrating Bitbucket repositories to GitHub.**

* Experience with configuration management tools such as **Chef**, **Ansible**, and **Puppet**. Wrote **recipes** and **cookbooks** with **Chef** in **Ruby** scripting.
* Experienced in **Ansible** **Tower**, creating **Ansible playbooks** for managing GIT hub configuration application/OS files, integrating with Jenkins, and verifying with Jenkin’s plugins, deploying the application in a Linux environment.
* Expertise in the installation, configuration and management of **Puppet** **Ecosystem** Components for **Puppet** open source and enterprise versions, as well as in the design and implementation of **Puppet** with **Orchestration** and **R10K** code manager along with **Git**, **GitLab** and **Git** **Hub**.
* Experience using **Nagios** monitoring system and different Bug Tracking Tools like **Remedy, Jira, ServiceNow**,

 **Clear Quest** & also designed, deployed and coordinated with different teams to enhance the **ELK** platform and took

 ownership of new technologies.

* Automated build and deployment process in various enterprise environments by writing **automation** **scripts** using

 **Python, Ruby, Perl, Shell, C-shell, Bash, Go.**

* Experience in **System Administration, System Builds, Server Builds, Installs, Upgrades, Patches, Migration,**

 **Troubleshooting, Security, Backup, Disaster Recovery, Performance Monitoring** and Fine-tuning on UNIX (**Red Hat**

**Linux**) Systems.

 ***Technical Skills:***

|  |  |
| --- | --- |
| **Cloud Technologies** | Azure, AWS, OpenStack. |
| **Configuration Management Tools** | Chef, Puppet, Ansible |
| **CI/CD Tools** | Azure DevOps, Jenkins, Hudson, Bamboo |
| **Build Tools** | Ant, Maven, Gradle |
| **Databases** | MySQL, Oracle, NoSQL (Cosmos DB, DynamoDB, Mongo DB, Cassandra) |
| **Containerization** | Docker, Docker Swarm, Kubernetes |
| **Source Code Management** | GitLab, Git Hub, Azure Repo, Bit Bucket |
| **Version Control Tools** | GIT, TFS, SVN. |
| **Monitoring Tools** | ELK, Cloud watch, App Dynamics, App Insights, Azure Log Analytics, Nagios, Splunk. |
| **Scripting/Programming Tools** | Bash Shell, Power shell, Perl, C#, .NET, Python, YAML, JSON, Ruby. |
| **Bug Tracking Tools** | JIRA, Service Now |
| **Application Servers** | WebLogic 9.x/10.x, WebSphere 6.x/7.x/8.x, JBOSS 4.1 |
| **Web Servers** | Apache HTTP 3.x, Nginx, Apache TOMCAT |
| **Repository Management** | JFrog, Nexus, Artifactory |
| **Networking** | DNS, DHCP, SMTP, HTTP, SNMP |
| **Operating Systems** | RedHat Linux, UBUNTU, CentOS, UNIX, WINDOWS. |
| **Virtualization Technologies** | VMware vSphere ESXi 5.x/4.x, ESX /3.x, VMware Workstation, Oracle Virtual box, Windows Hyper-V |

***CERTIFICATIONS****:*

|  |  |
| --- | --- |
| **Certificate name** | **Certificate link** |
| **MICROSOFT CERTIFIED: AZURE ADMINISTRATOR ASSOCIATE** | [Azure Administrator Associate](https://www.youracclaim.com/badges/37b55b16-5644-4a9b-a7fc-96bc107ae818/public_url) |
| **MICROSOFT CERTIFIED: DevOps ENGINEER EXPERT** | [Azure DevOps Engineer Expert](https://www.youracclaim.com/badges/333c79cf-be79-4adb-92e0-31300da86b78/public_url) |
| **CERTIFIED KUBERNETES ADMINISTRATION (CKA)** | [Kubernetes Administrator](https://www.youracclaim.com/badges/ce62e4b1-fe06-409c-96a7-9c5884745c71/public_url) |
| **AZ-400 DESIGNING AND IMPLEMENTING MICROSOFT DEVOPS SOLUTIONS** | [Microsoft DevOps Solutions](https://www.youracclaim.com/badges/c0f99029-1460-49a2-b78b-cc795395eced/public_url) |

***WORK EXPERIENCE:***

***Role: Sr. Azure DevOps Engineer*** ***Feb 2019 - Current***

***Delta Airlines | Miami, Florida***

* Implemented **Azure** Active Directory for single sign-on access to thousands of cloud SaaS applications like Office 365, Dropbox. Worked as DevOps Engineer, involved in the configuration of **Web apps/Function apps, V-net integration, HCM, Application gateway, App Insights, Active Directory, Azure Key Vault, Azure Service Fabric, Azure service bus, Azure Cosmos DB, Encryption and Security on Azure**
* Implemented Enterprise Integration architecture using **Azure Service Bus, AppService, Active Directory,** Storage**,**

hybrid connection manager, active directory authentication for **Azure** **SQL** server. Experience in using **Azure service**

**fabric** to package, deploy, and manage scalable and reliable microservices and containers.

* Experienced in **Azure Role-based Access Control (RBAC)** to segregate duties within my team and granted only the

 amount of access to users that they need to perform their jobs.

* Experienced in creating and managing Virtual Machines in Windows **Azure** and setting up communication with the

help of End points. Configured **Shared Access Signature (SAS)** tokens and Storage Access Policies in **Azure**

**Cloud Infrastructure**.

* Used **Python** API for uploading all the agent logs into **Azure blob storage**. Managed internal deployments of

monitoring and alarm services for the Azure Infrastructure (**OMS**). Developed microservice onboarding tools

leveraging **Python** and Jenkins for easy creation and maintenance of build jobs and Kubernetes deploy and services.

* Experience in dealing with Windows **Azure IaaS** - **Virtual Networks, Virtual Machines, Cloud Services, Resource**

**Groups, Express Route, VPN, Load Balancing, Application Gateways, Auto-Scaling, Traffic Manager, App services,**

 **Analyzing Azure Networks.**

* Functioned as a **key** player/coach in the organization in the implementation of the **DevSecOps** model and

implemented security/vulnerability scans at multiple stages.

* Hands on experience with Provisioning **Service Fabric** Clusters and **Application Gateway** using **ARM, PowerShell**

or **Azure Portal** which is a distributed systems platform to deploy and manage Microservices with high availability.

* Configured **VNET Peering** to enable communication between resources across multiple Virtual Networks and

configured **NSGs** for two tiers and three-tier applications to filter network traffic using **Terraform modules**.

* Created **terraform** templates for provisioning virtual networks, **VM Scale sets**, Load balancers and **NAT** rules and

used **terraform** graph to visualize execution plan using the graph command. Used **Terraform** to deploy the

infrastructure necessary to create development, test, and production environments for software development.

* Configured private endpoint for Azure **Cosmos DB** using **Azure Private Link** through automatic approval method,

combined with **NSG** policies to secure data.

* Building and Installing servers through **Azure Resource Manager Templates** (ARM) or Azure Portal. Worked on **Azure**

**VPN-Point to Site, Virtual networks, Azure Custom security, endpoint security and firewall**.

* Deployed and optimized two-tier **.NET** web application to **Azure DevOps** to focus on development by using services

 such as **Repos** to commit codes, **Test Plans** to trigger application and unit test, deployed artifacts to **App Service**,

**Azure Application Insight** collects health performance and usage data of the process.

* Acted as build and release engineer, deployed the services by **VSTS (Azure DevOps)** pipeline. Created and

 Maintained pipelines to manage the **IAC** for all the applications

* Implemented AWS to Azure migration, Jira to **Azure DevOps** Migration, **GitHub** to **Azure DevOps** Migration along

with Experience in configuring and using **PaaS** offerings (like **Azure Database services, Azure Kubernetes, Azure**

**Containers, DNS, Application gateway rerouting, Application Insights, Azure Container Monitors, etc.).**

* Integrated **Ansible** with **Jenkins** to provide automation, **continuous integration** through **Jenkins** and Implemented

 **Jenkins Workflow** and Plugins for repeatable deployments of **multi-tier** applications, **artifacts** and services to **Docker.**

* Set up **Docker** to automate container deployment through **Jenkins** and Dealt with **Docker** **Hub**, making **Docker**

 **Images** and taking care of various Images essentially for middleware establishments.

* Configured applications that run **multi-container Docker** applications by utilizing the **Docker-Compose** tool which

 uses a file configured in **YAML** format and used **Kubernetes** to manage containerized applications using its nodes,

 Config-Maps, selector, Services and deployed application containers as Pods.

* Evaluated **Kubernetes** for **Docker** container orchestration and managed **Kubernetes** charts using **Helm** and

created reproducible builds of the **Kubernetes** applications, templatize **Kubernetes** manifests, provide a set of configuration parameters to customize the deployment and Managed releases of **Helm** **packages**.

* Used **Kubernetes** backed infrastructure to run microservices in production environment deployed on **Kubernetes**

 clusters and developed **Kubernetes** templates for multiple applications.

* Validated deployments in **Kubernetes** by establishing a local development workflow that used **Minikube** and

implemented **Kubernetes** interface by creating **RESTful API 's** to read, delete, store and update the bucket

information on **Kubernetes** Console.

* Designed strategies for optimizing all aspect of the continuous integration, release and deployment processes

using container and virtualization techniques like **Docker** and **Kubernetes.**

* Configured **AppDynamics** cluster agent to monitor **AKS** pod failures and restarts, node starvation, missing

dependencies such as Services, Config Maps and Secrets.

* Integrated **Azure policies** with **Azure Kubernetes Service** (AKS) cluster to apply enforcements and safeguards on the

 cluster in a centralized manner.

* Created **CI/CD** pipelines for .NET, python apps in **Azure DevOps** by integrating source codes **GitHub, VSTS,** **and**

**artifacts**. Created deployment areas such as testing, **pre-production** and production environment in **Kubernetes**

**cluster.**

* Wrote many **Python** Scripts to automate the process such as tagging the resources based on the user input and by processing the **CSV** as well as **YAML** files provided as Inputs.
* Developed **Shell Scripts** for automation of the build and release process. Developed custom solutions in **C#** and **PowerShell** to validate availability, consistency, and compliance with environments
* Integrated GIT with Jenkins using the GitHub plugin to automate the process of source code check-out by providing the URL and credentials of the GIT repository.
* Installed **RedHat** Linux using **kickstart** and applied security policies for hardening the server based on the company policies.
* Configured **Load Test** servers to send the data to Kibana and Created dashboards in Kibana for benchmark **Load Testing** for both **Kafka** and **Cassandra** **Stress**-**Test** which runs once in a week.
* Created **Jenkins jobs** for continuously building the projects. Scheduled jobs to build upon every check in into subversion. Wrote Groovy script in Jenkins jobs to do pre-and post-build operations.
* Hands-on experience on **Ansible** and **Ansible Tower** as Configuration management tool, to automate repetitive tasks, quickly deploys critical applications, and proactively manages change.
* Automated the tasks with **Ansible Playbooks** by using **YAML** functions and migrating the servers with the required configuration changes and testing and deploying the machines using **Ansible** Commands.
* Experience in monitoring with **Nagios** and **Splunk, Elastic search, Log stash, Kibana, Data dog.**
* Implemented and managed **Splunk** monitoring and reporting infrastructure. Design and implementing new procedures for infrastructure migration using **Chef**.

**Environment:** **Azure, Chef, Ansible, Shell, Python, Linux, Jira, Jenkins, Apache Tomcat 7.x, Docker, Virtualization, Kubernetes, NGINX, Data Dog, Splunk, Pager Duty, Slack, Prometheus, ELK**

***Role: Azure Cloud Engineer******Sep 2017 - Nov 2018*** *Toyota | Plano, Texas*

* Migrated on prem to windows azure by building **azure disaster recovery environment, azure recovery vault and azure backups** from the scratch using power shell script.
* Experience in administrating of **IAAS** & **PAAS** Virtual Machines and Web/Worker roles on **Microsoft Azure Classic**, **Resource Manager** and **troubleshooting issues** on **Azure VM**s. Supported technologies, such as **Active Directory Federation Services**, **Azure Active Directory**, and **PowerShell**.
* Setup **Azure Virtual Appliances (VMs)** to meet security requirements as software-based appliance functions (firewall, WAN optimization and intrusion detections) and Implemented **high availability** with **Azure Classic** and **Azure Resource Manager** deployment models
* Experience in designing, configuring, and deploying solutions on Microsoft **Azure** using (Azure Resource Manager) **ARM Templates**, **AZURE PowerShell Module** and, **Azure CLI** focusing on high-availability and auto-scaling.
* Deployed a Jenkins server in **Azure** for autonomous software builds. Expert in deploying Services on **Azure** platform. Solving issues related to **RDP** of **Azure** infrastructure. Also developed different types of **Azure** Functions such as **Http trigger, Timer trigger, service bus trigger, Event-Hub trigger.**
* Configured VMs in Availability Sets using **Azure Porta**l to provide resiliency for IaaS based solution and scale sets using **Azure Resource Manager** to manage network traffic.
* **Azure** Automation through **Runbooks** Creation, Migration of existing scripts, Authorizing, Configuring, Scheduling and involved in administrative tasks that include Build, Design, Deploy of Azure environment.
* Designed **AWS Cloud Formation templates** to create custom sized VPC, subnets, NAT to ensure successful deployment of Web applications and database templates.
* Migrated in-house DB to **AWS RDS** and for **High Availability** clustering used read-replica data stream so that **RDS** automatically creates a primary DB instance and synchronously replicates the data to a standby instance in a different AZ.
* Configured and Integrated **Docker** container orchestration framework using Kubernetes by creating pods, deployments and used Python Scripts to schedule, deploy and manage container replicas onto a node cluster using Kubernetes. Configured **Docker Swarm Cluster** and setup Jenkins inside it to reduce the failover downtime.
* Expertise in using **Docker** to containerize custom web applications and deploy them on Digital Ocean with Ubuntu instances through **SWARM** **Cluster** and to automate the application deployment in cloud using **Vagrant.**
* Developed **Kubernetes** templates for various applications like **Cassandra**, **Grafana**, **Kafka** and setting up Kubernetes Clusters for running micro services and pushed micro services into production with Kubernetes backed Infrastructure. Managed **K8s** charts using Helm and created reproducible builds of the Kubernetes applications
* Experience in using **Kubernetes** for creating new Projects, Services for load balancing and adding them to Routes by accessing from outside, created **Pods** through new application and controlling, scaling and troubleshooting pods through **SSH**, managed manifest files and releases of **Helm charts.**
* Created several pods and services using Master and Minion architecture of **Kubernetes** and developed micro services onboarding tools leveraging **Python** to allow easy creation and maintenance of build jobs and Kubernetes deploy services.
* Used **Terraform** to Setup infrastructure in **PCF** and **Azure** Environments. Converted existing **Terraform** modules that had version conflicts to utilize cloud formation during Terraform deployments to enable more control or missing capabilities.
* Implemented **Terraform** Templates, automated Azure IAAS vm's using terraform modules and deployed virtual machine scale sets in production environment.
* Implemented Jenkins pipeline jobs to create **Azure** Infrastructure from **GitHub** repositories containing **Terraform code** and created on-premises active directory authentication using automation with **ansible play books**.
* Created **terraform** templates for provisioning virtual networks, subnets, VM Scale sets, Load balancers, and **NAT** rules

and used terraform graph to visualize execution plan using the graph command. Configured **BGP** routes to

* enable ExpressRoute connections between on-premise data centers and **Azure** cloud.
* Built CI/CD pipeline with **Azure DevOps** for Kubernetes container environment, utilizing **Kubernetes and docker**

for the **runtime environment** for the CI/CD system to build test and deploy on DEV and PROD environments.

* Experience in writing **Ansible** playbooks for installing WebLogic/tomcat application, deployment of WAR, JAR, and EAR files across all the environments.
* Experience on **Ansible Playbooks, modules, roles**, and used them in Cloud (**AWS, Azure**) environments and experience with **Ansible Tower** to manage multiple nodes and manage inventory for different environments.
* Used **Ansible Galaxy** to pull the reusable modules for ansible and performed the installation and configuration of middleware. Integrated Ansible with **Jenkins** to provide automation, continuous integration through Jenkins and Implemented Jenkins Workflow and Plugins for repeatable deployments of multi-tier applications, artifacts, and services to Docker.
* Configured **Jenkins** on **Kubernetes** container environment, utilizing **Kubernetes** and **Docker** for the runtime environment for the **CI/CD** system to build and test and deploy. Implemented jobs to create **Azure** Infrastructure from **GitHub** repositories containing **Terraform** code and created on-premises active directory authentication using automation with ansible play books.
* Experience in managing software **artifacts** required for development using repository managers like **Nexus** and **JFrog Artifactory** and writing **Jenkins Pipeline** we l; Scripts for Continuous Integration (CI)and built workflows also used **Jenkins** for uploading **Artifacts** into **Nexus Repository.**
* Extensively worked on **Jenkins** by installing, configuring, and maintaining the purpose of **CI** and **End-to-End** automation for all build and deployments implementing **CI/CD** for the database using **Jenkins.** Used **Jenkins API** to query the Jenkins server state and change configuration and automate jobs on nodes.
* Worked on **GitLab Admin Area** to assign permission for Users and created **GitLab System Hooks** for changing the existing information in servers.

**Environment: Azure, Chef, Ansible, Shell, Python, Linux, Jira, Aws, Terraform, Jenkins, Apache Tomcat 7.x, Docker, Virtualization, Kubernetes, NGINX, Data Dog, Splunk, Pager Duty, Slack, Prometheus, ELK**

 ***Role: Cloud DevOps Engineer***  ***Jul 2016 - Aug 2017***

 ***Marsh & McLennan| Houston, Texas***

* Designed highly available, cost-effective and fault-tolerant systems using multiple **AWS EC2 instances, Auto Scaling, AWS Elastic Load Balance** and **AWS Amazon machine image (AMIs), DNS mapping** with subdomain using **Route 53**.
* Designed roles and groups for users and resources using **AWS Identity Access Management (IAM)** and implement **Multi-Factor Authentication (MFA)** on externally available servers and on AWS Console, Monitoring and alerting leveraging **Cloud Watch** and **Cloud Trail**.
* Experienced in implementing Data warehouse solutions in **AWS Redshift**, worked on various projects to migrate data from one database to AWS Redshift, **RDS**, ELB, EMR, **Dynamo** **DB** and **S3**.
* Involved in analysis, architecture Design and creation of **AWS Virtual Private Cloud** (VPC), **Elastic compute cloud** (EC2 instance), **FTP server with Elastic IP**, **AWS Load Balancer**, sending email and pager duty services when new instances launch using cloud watch.
* Hands-on experience in migration of one Business from a physical data center environment to **AWS**. Worked at optimizing volumes and **EC2** instances and created multiple **VPC** instances. And Deploy and monitor scalable infrastructure on **Amazon web services (AWS).**
* Managed multiple **AWS** accounts with multiple **VPC's** for both production and non-production where primary objectives included automation, build out, integration and cost control.
* Expertise in **Terraform** for creating **stacks** of **VPCs, ELBs**, Security groups, **SQS queues, S3 buckets** in **AWS** and updated the **Terraform Scripts** based on the requirement on regular basis.
* Implemented **Terraform** modules for deployment of applications across multiple cloud providers. Worked with **Terraform** key features such as Infrastructure as code, Execution plans, Resource Graphs, Change Automation. Hands on experience in writing **Terraform modules** to manage AWS/Azure infrastructure, for automatic creation of **RDS** instances, **VPCs, Autoscaling groups, Load balancers, SQS, S3 buckets***.*
* Authored Terraform modules for infrastructure management. Authored and published a module to the **Terraform** registry for enterprise customers to deploy our product inside their **AWS** environment.
* Experience in working with **AWS EC2** Container Service plugin in **Jenkins** which automates the **Jenkins** master-slave configuration by creating temporary slaves.
* Experience in working with **EC2 Container Service** plugin in Jenkins which automates the Jenkins master-slave configuration by creating temporary slaves
* Designed end-to-end automation of infrastructure and continuous delivery of the applications by integrating cloud formation scripts**, Jenkins**, AWS & Ansible playbooks.
* Configured and maintained the **AWS Lambda function** to trigger when there is a **Jenkins** build kicked off, which internally gets stored on **AWS S3 bucket** for everybody to access.
* Built end to end **CI/CD** Pipelines in **Jenkins** to retrieve code, compile applications, perform tests and push build artifacts to **Nexus** and Orchestrate changes across servers and components and configured **SonarQube** for code analysis in **Jenkins**.
* Created Docker images from scratch and customizing them as per the requirement, with working on **Docker containers**, Snapshots, managing Docker volumes, directory structure and removing **Docker images**. Setup Docker to automate container deployment through **Jenkins** and Worked on Docker container to create Docker images for different environments.
* Developed microservices on tools leveraging **Python** and **Jenkins** allowing for easy creation and maintenance of build jobs using **Jenkins pipeline** and deployed the services on **Kubernetes**.
* Experience in developing **Cookbooks**, **Recipes**, Resources and Run lists, managing the **Chef Client** nodes, and upload the Cookbooks to chef-server from Workstation using **knife** command, **Berkshelf** dependency manager, and **Test kitchen** to validate **Chef** Cookbooks.
* Experienced in working with configuration management tool **Puppet** that includes the installation and configuration of the **Puppet master**, agent nodes and an admin control workstation along with objects such as **Puppet resource**, **class**, **Manifest**, **modules** and **Forge.**
* Using the **AWS CLI** created deployment command to deploy revision from **GitHub** on behalf on **GitHub** accounts for the specified applications.
* Worked on Client-side hooks such as **GIT** committing and merging, server-side hooks run on network operations such as receiving pushed **GIT** commits.

**Environment: AWS, AMI, Elastic IP’s, Splunk, LDAP servers, Terraform, Docker, Chef, Jenkins, Python, Maven, GIT,**

**ANT, Kubernetes, TCP/IP Network protocols**

***Role: Build and Release Engineer Jun 2015-Jun 2016***

 ***Western Asset Management| Pasadena, CA***

* As member of **Release Engineering** group, redefined processes and implemented tools for software builds, patch

 creation, source control, and release tracking and reporting, on **UNIX** platform.

* Worked in **Agile Project management** Process, **JIRA** for Issue Tracking and monitoring and with the Architects on

**SDLC** process being the owner of post-development environments.

* **Administered RedHat Linux** 4.x/5 servers for several functions including managing **Apache Tomcat Server, Mail**

 **Server, MySQL database** and Firewalls in both development and production environments.

* Developing and maintaining the build environment, the source code control system and managing build packages

 using **GIT and GIT Hub**.

* For check in process used **Tortoise SVN** as a migration tool. Involved in migration of **Bamboo server, Art factory,**

**Perforce & GIT server**.

* Worked on Branching, Tagging and Release Activities on Version Control Tools (**GIT**) and Setting up the **GIT repos**

 for **Bamboo** build jobs.

* Integration of **Puppet** with **Apache** and developed load testing and monitoring suites in **Python**. And Maintained

multiple Modules in **Puppet** by converting production support scripts to **Puppet** **Manifests** to automate the

configurations in servers.

* Created a custom **puppet module skeleton** to use same structure across all **puppet** modules. And Developed

**Puppet scripts** for an automated server provisioning and reducing the time between provisioning and deployment

from over 3 hours to less than 10 minutes

* Worked with **ANT** for building the application, has written **Shell scripts** to automate the build process. Involved in

writing **Ant** and **shell** scripts for compilation and deployment process.

* Maintained build related scripts developed in shell for **ANT** builds. Created and modified build configuration files

including **Build.xml**.

* Converted old builds using MAKE to **ANT** and **XML** for doing **Java** build and Developed build and deployment

scripts using **ANT** as build tool in to move from one environment to other environments.

* Resolved update, merge and password authentication issues in **Bamboo** and **JIRA**.
* Working closely with Web Administrators to understand, participate, and experience the technical architect for

 web sites such as **Apache, JBoss, WebSphere, WebLogic and deploying J2EE** Applications to these environments.

* Installed, configured and upgraded Linux Servers using **Kickstart** as well as manual installations and the recovery

of root password.

**Environment: Linux, Perl, Puppet, Bamboo, Nagios, PHP, Ruby, JIRA, GIT, Vagrant, SVN, Ant, PowerShell, NT Command**

 **Shell.**

***Linux Administrator Apr 2014-May 2015***

***AXIS Bank Pvt Limited| Hyderabad, India***

* Developed automated processes that run daily to check **disk usage** and perform cleanup of file systems on LINUX environments using **shell scripting**.
* Installed, configured, and administered **DNS, NFS, NIS, Mail servers, FTP servers, RPM servers** on Red Hat Linux, Ubuntu, CentOS, Fedora platforms.
* Worked on server-based operating system **kernel** configurations on **RedHat, Centos7, Ubuntu, kernel Parameter & Tuning, Trouble Shooting of System, Network & Performance Issues**.
* Installed numerous **operating systems** (i.e., Windows NT/2000/XP/Vista & Linux) and Configured **Microsoft Outlook** (2003, and '07) and maintained Exchange servers, performed **routine system management, operating system upgrades and software updates**.

**Environment:** **Solaris, Red hat, Linux, HTTP Web Server, Apache Web Server, RHEL servers, RAID, Oracle, Sun Solaris, SSH, Telnet, Rlogin, MySQL, Apache, RPM, YUM**

***.NET Developer Apr 2013 - Mar 2014***

***GSS INFOTECH LTD| Hyderabad, India***

* **Developed .NET** library project using C# and provides middle layer components with HTTP Module and will be distributed to all **DIIT developers via MSI package with full blown MSDN style help document using NDOC 1.3.**
* Created different business classes and interfaces **using .Net** Framework 4.0 with Object Oriented Programming Methodology.
* Designed and developed the web forms using **ASP.Net 2.0.** and used CSS in ASP.Net Pages.