**Syed Imthiyas**

**Cloud AWS / DevOps Engineer**

**PROFESSIONAL SUMMARY**

* **Sr Cloud DevOps engineer** with over 10+ years’ experience in **Cloud** (Azure & AWS), **DevOps, Configuration management, Infrastructure automation, Continuous Integration and Delivery** (CI/CD). I can implement effective strategies for Multi - Tier application development in both **Cloud and On-premises** environments. Experience in dealing with **Unix/Linux and Windows** server administration.
* Good Experience in automation and securing the infrastructure on AWS using **Cloud Formation**, **Terraform** and AWS **Lambda** and building CI/CD on **AWS** environment using AWS **Code Commit**, **Code Build**, **Code Deploy,** and **Code Pipeline**. Expertise in **Systems Administration, Upgrades, Automation, Performance Tuning, Capacity Planning, Contingency Planning, Disaster Recovery and Fault Tolerant Planning in WINDOWS and Linux Environments.**
* **Private Cloud Environment** - Leveraging **AWS** and **Puppet** to rapidly provision internal computer systems for various clients.
* Develop **Puppet modules** and role/profiles for installation and configuration of software for required for various applications/blueprints.
* Expertise working with EC2 instances ECS, Beanstalk, lambda, RDS, **DynamoDB,** CloudFront, CloudFormation, 53, Athena. SNS, SQs, X - ray, Elastic load balancing(ELB), creating auto-scaling groups.
* Wrote **python** scripts to manage AWS resources from API calls using **BOTO** SDK and also worked with **AWS CLI**. Wrote **Ansible** playbooks to launch **AWS**instances and used **Ansible** to manage web applications, configuration files, used mount points and packages.
* Highly proficient in writing lambda functions to automate tasks on AWS using CloudWatch triggers, 53 events as well as **DynamoDB** streams and kinesis streams.
* Setup **Puppet** Master, client and wrote scripts to deploy applications on Dev, QA, production environment.
* Experience in IT comprising of **Designing, Development,**Integration of DevOps tools with**Cloud platforms, Configuration Management, Build and Release, Continuous Integration/Deployment, Delivery management, system administration,**and **Cloud Migration.**
* Administrating and supporting Azure **Kubernetes infrastructure**, ensuring it is secure, resilient and performance and responsible for complete DevOps activities and coordinating with development team.
* Hands-on experience in **Azure** Cloud Services **(PaaS&IaaS**), Storage, Web Apps, Active Directory, Azure Container Service, VPN Gateway, Content Delivery Management, Traffic Manager, **Azure Monitoring,** OMS, Key Vault, Visual Studio Online (VSO), Cognitive Services (LUIS) and SQL Azure.
* Experience in Setting up the build and deployment automation for **Terraform** scripts using Jenkins. Provisioned the highly available **EC2** Instances using **Terraform** and cloud formation and wrote new plugins to support new functionality in Terraform.
* Implement a standard **DEVSECOPS** pipeline cross multiple application development teams. Responsible to develop Confidential approved **DevSecOps** environment to fulfill Software Deployment Framework-SDFSkills in containers, **DevOps &DevSecOps**, Secure Coding practices, and the Solutions Development Framework (Docker, Jenkins, GitLab).
* Experience with container-based deployments using **Docker**, working with **Docker images, Docker hub and Docker registries**, installation and configuring **Kubernetes** and clustering them.
* 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**. Utilized **Kubernetes**for the runtime environment of the **CI/CD**system to build, test deploy.
* Consulting in the areas of Continuous Integration, Build Automation, DevOps, Deployments, VM Ware, UNIX/LINUX, Jenkins, Subversion, **Git, GitLab, GitHub**, Java, and related tools/technologies.
* Used Maven dependency management system to deploy snapshot and release artifacts to **Nexus** to share artifacts across projects and environments. Experienced in authoring **pom.xml** files, performing releases with the **Maven release plugin**, **Mavenization**of Java projects and managing **Maven repositories**.
* Experience working with Amazon Cloud Administration which includes services like**: EC2, S3, EBS,**
* **VPC, ELB, SNS, RDS, IAM, Route 53, Auto scaling, Cloud Front, Cloud Watch, Cloud Trail,**
* **Cloud Formation, OPS Work, Security Groups** by focusing on high-availability, fault tolerance.
* Installing, configuring and administer Jenkins CI tool on Linux machines. Configured Jenkins for doing builds in all the non-production and production environments. Worked extensively on Subversion as Version Control.
* Installing, configuring and administer **Jenkins** CI tool on Linux machines. Worked on **Jenkins**, GitHub, **Jenkins**, Artifactory and all internal build systems for the core development team on an enterprise-level Java-based cloud orchestration/automation tool.
* Configured multiple Windows and Linux bamboo agents for master in Bamboo to distribute the load across a Farm of machines. Configuring New **Bamboo** Plans or cloning and modifying Existing Bamboo plans for multiple parallel releases.
* Configuring, Automating and Deploying **Chef, Puppet and Ansible** for configuration management to existing Infrastructure. Implemented Ansible to manage all existing servers and automate the build/configuration of new servers.
* Development of **Puppet modules with Jenkins for continues integration and continues deployment of managed products**, and related services. Experienced with Configuration Management automation tool **Ansible** and has worked on integrating **Ansible YAML Scripts**.
* Experience with **Windows 2000/2003/2008 server** administration and **Active Directory** administration. Administrating production servers/network infrastructure that includes Windows Administration of **Domain Controllers, IIS Web Servers HTTP/S, FTP and SMTP, Exchange 2003/2010 Mail Servers, NAS, File and print Servers, RADIUS, Blackberry Enterprise Server and Terminal Servers on Windows 2003/2008/2010**.
* Installing and configuring of **Linux (RHEL4, 5, Ubuntu and Fedora,)** on servers and workstations. Manage user accounts, groups, printers, file systems and security. Configuring NFS clients, Secured FTP servers, Web Server (Apache), Squid Proxy with access control lists and proxy filtering., configuring LVMs. Adding and configuring disks and creating new file systems.
* Created **PowerShell scripts** to constantly monitor the health of the Exchange messaging infrastructure and notify my teammates or myself in the event of a problem.
* Good Experience in **Shell Scripting** for Automation.Work Extensively in Shell Scripting for Run book Automation purposes.

**TECHNICAL PROFICIENCY**

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| --- | --- |
| Operating systems | Unix, Ubuntu, Centos, RHEL, Windows |
| Cloud environments | Microsoft Azure,Amazon Web Services |
| Containerization tools | Docker, Kubernetes, Aws ECS |
| Configuration tools | Ansible, Chef, Puppet |
| Continuous Integration tools | Jenkins, Bamboo |
| Build/Project tools | Apache Ant, Apache Maven, Gradle |
| Version control tools | GitHub, Atlassian Bitbucket, SVN |
| Repositories | Antifactory, Nexus, Jfrog |
| Monitoring/logging tools | Splunk, Nagios, Elastic Search |
| Collaboration tools | Jira, ServiceNow, Slack |
| Scripting | Shell, Bash, YAML |
| Databases | MySQL Server, Oracle, DynamoDB |
| Virtualization Technologies | Oracle VirtualBox, VMware Workstation |
| Web services | Rest API, JAX-RS, JAX-WS, SOAP |
| Networking/Protocol | NFS, NIS, DNS, DHCP, IP, TCP, FTP, HTTP, HTTPD, SSH |
| Web Technologies | HTML, CSS, Bootstrap, XML, JSON, XSD, XSL, XPATH. |
| Application/Web servers | WebSphere, WebLogic Server, Red Hat JBoss, Apache Tomcat |

**PROFESSIONAL EXPERIENCE**

**Cloud DevOps Engineer Syneos Health, Morrisville- North Carolina. Aug2019 – Till date**

**Responsibilities:**

* + Created **AWS**Launch configurations based on customized AMI and use this launch configuration to configure **auto scaling groups**and Implemented AWS solutions using **EC2**, **S3**, **RDS**, **DynamoDB**, **Route53**, **EBS**, **Elastic Load Balancer**, **Auto scaling groups**
  + Involved in reviewing and assessing current infrastructure to be migrated to the **AWS**cloud platform.
  + Configured **AWS**IAM and Security Group in Public and Private Subnets in **VPC**
  + Worked with IAM service creating new IAM users & groups, defining roles and policies and **Identity providers.**
  + Created **AWS**Route53 to route traffic between different region Involved in reviewing and assessing current infrastructure to be migrated to the **AWS**cloud platform.
  + Responsible to maintain the networking form cloud back to On-Prem connectivity and no direct internet access from cloud VPC to the Internet.
  + Used **AWS**Beanstalk for deploying and scaling web applications and services developed with Java, PHP, Node.js, **Python**, **Ruby**, and **Docker**on familiar servers such as Apache, and IIS.
  + Designed **AWS**Cloud Formation templates to create custom sized VPC, subnets, NAT to ensure successful deployment of Web applications and database templates.
  + Used AWS services such as EC2, ELB, Auto-Scaling, S3, IAM, VPC, RDS, **DynamoDB**, CloudTrail, CloudWatch, **Lambda**, Elasticache, SNS, SQS, CloudFormation, CloudFront, Beanstalk, EMR, AWS Workspaces.
  + Manage **AWS**EC2 instances utilizing Auto Scaling, Elastic Load Balancing and Glacier for our SIT, UAT, Prod and DR environments as well as infrastructure servers for **GIT**and **Puppet**.
  + Experience in Setting up the build and deployment automation for **Terraform**scripts using Jenkins.
* Provisioned the highly available EC2 Instances using **Terraform**and cloud formation and wrote new plugins to support new functionality in **Terraform**
* Converted **DevOps** methodologies in to **DevSecOps** model by introducing **security/vulnerability** scans different phases of DevOps like clear text password scan during the build and packaging phase of application.
* Designed Document Data Model for **DynamoDB** and participated in the Capacity Planning.
* Brought security standards in data management by applying **KMS** encryption strategy to encrypt the data at rest and implemented SSL encryption layer to encrypt the data during transport and plotted workflow for **DevSecOps** operating model.
* Designed NoSQL Document Data Model for **DynamoDB**.
  + Experience in Build and Release, SCM, GCP, AWS, Environment Management, Continuous Integration (CI), Continuous Delivery (CD) and Devops Methodologies
  + Involved in using **Terraform**migrate legacy and monolithic systems to Amazon Web Services.
  + Deploy and monitor scalable infrastructure on Amazon web services (AWS) & configuration management using chef. Collaborate in the automation of AWS infrastructure via **Terraform**and Jenkins - software and services configuration via chef cookbooks.
    - Maintained and developed **Docker images**for a tech stack including Cassandra, Kafka, Apache, and several in house written Java services running in **Google Cloud Platform (GCP)**on Kubernetes.
  + Development of several **Python APIs and harassers that works both in Linux and windows** and maintaining them using the revision control SVN.
* Implemented **CI/CD** using **Jenkins** and configured **DevSecOps** strategies, used **SAST** (Static Analysis Security Testing) and **DAST** (Dynamic Analysis Security Testing) to eliminate security flaws, vulnerabilities present in the source code and running application.
  + Development of **Python** APIs to dump the array structures in the Processor at the failure point for debugging
  + Knowledge of **Chef**and **Puppet**as Configuration management tool, to automate repetitive tasks, quickly deploy critical applications, and proactively manage change. Manage deployment automation using **Puppet**, MCollective, Hiera, Custom **Puppet**modules, Ruby.
* Worked on implementing test cases to follow **DevSecOps** strategy model that supports microservice applications via **Jenkins** pipelines.
  + Designing and building multi-terabyte, full end-to-end **Data Warehouse** infrastructure from the ground up on Confidential Redshift for large scale data handling Millions of records every day.
  + Implementing and Managing **ETL solutions** and automating operational processes.
  + Optimizing and tuning the **Redshift** environment, enabling queries to perform up to 100x faster for **Tableau** and **SASVisual** Analytics
  + Experienced in extract transform and load (ETL) processing large datasets of different forms including structured, semi-structured and unstructured data.
  + Wrote various data normalization jobs for new data ingested into **Red shift**
  + Advanced knowledge on **Confidential Redshift** and MPP database concepts.
  + Migrated on premise database structure to Confidential **Redshift data warehouse**
  + Implementing a Continuous Delivery framework using Jira, SVN, Bamboo, maven & **Nexus**, **Puppet**in Linux environment.
  + Extensive experience in using Build Automation tools like, **ANT**, **Maven, Artifactory**and **Jenkins**.
  + Extensively worked on for **Jenkins**continuous integration and for End-to-End automation for all build.
  + Performance monitoring, tuning and troubleshooting WebSphere, WebLogic, **JBOSS**, Tomcat and Apache server instances.
  + Installed, configured and managed the RDBMS databases like MySQL, DB2, PostgreSQL, and NoSQL databases like **MongoDB, DynamoDB**
  + Experience on complete software development life cycle (SDLC) with software development models like **Jira**, Agile Scrum Model, Prototype model & RUP, Waterfall model.
  + Secured **JBOSS**EAP 6 by configuring security domains, security realms, and LDAP authentication Actively worked on DR exercise and brought up applications successfully during DR exercise.
  + Installation & Configuration of **Apache**Webserver and make junction works for the transportation of application through a Webserver.
  + **Azure** experience - extended working knowledge in **cloud service, IaaS& pass services, worker role, service bus, queue, azure blob storages and API Management**. Configured **NSGs** for two tier and three tier applications. Experience in integrating on premises servers to Azure. Configured **VNETs and subnets** as per the project requirement. Configure **Azure blob storage and Azure file servers. Configured private and public facing Azure load balancers** etc.
  + Process and Implementation - Extensive experience implementing software throughout the **SDLC process**, deep hands-on experience of networking, migration, and implementation in Azure.
  + Designed and configured **Azure Virtual Networks (VNets)**, **subnets, Azure network settings, DHCP address blocks, DNS settings, security policies and routing**.
* Deployed **Azure IaaS virtual machines (VMs) and Cloud services (PaaS role instances)** into secure VNets and subnets.
* Experience in cloud technologies on both **GCP** and **AWS** Platforms.
* Experience in reducing the cost for compute engines in **GCP** as per utilization of services.
* Experience in working on **TERRAFORM** for provisioning the Environments in **GCP**.
* Design & implement migration strategies for traditional systems on Azure (Lift and shift/Azure Migrate, other third-party tools. Migration of on-premises data (Oracle/ SQL Server/ DB2/ MongoDB) to **Azure Data Lake Store (ADLS**) using Azure Data Factory (ADF V1/V2). Azure Automation through Runbooks Creation, Migration of existing .PS1 scripts, Authorizing, Configuring, Scheduling
* Worked with **Terraform Templates** to automate the Azure**Iaas** virtual machines using terraform modules and deployed virtual machine scale sets in production environment.
* Used **Azure Kubernetes Service** to deploy a managed Kubernetes cluster in Azure and created an AKS cluster in the Azure portal, with the Azure CLI, also used template driven deployment options such as Resource Manager templates and terraform.
* Deployed the services to **AKS.**Created CICD pipelines with azure devops Deployed Services into Kubernetes Using Helm Charts
  + - Extensively used Google stackdriver for monitoring the logs of both **GKE**and **GCP**instances and configured alerts from Stackdriver for some scenarios.
* Created **Ansible** cloud modules for interacting with Azure services which provides the tools to easily create and orchestrate infrastructure on Azure and automated cloud-native applications in Azure using Azure microservices such as **Azure functions and Kubernetes on Azure.**
* Involved in using **Terraform and Ansible**, migrate legacy and monolithic systems to Azure and managing Ubuntu and RHEL virtual servers on Azure by creating Ansible Nodes.
* Created a **Nagios** instance to help monitor the production provider portal which gave business deep insight into the overall health of the production environment.
* Worked on **Power Shell scripts** to automate the Azure cloud system creation of **Resource groups, Web Applications, Azure Storage Blobs & Tables, firewall rule**s.
* Experience troubleshooting skills in a **Windows 2012 environment** - Event log analysis, installation, and administration of Windows Server 2012, including user setup and **defining roles, performance tuning, backup and restore, security monitoring, registry for the Application Specific Servers**.

**DevOps Engineer – Nokia Inc – Coppell, Texas Feb 2018-July 2019**

**Responsibilities:**

* + - Managed network security using **Load balancer**, **Auto-scaling**, **Security groups**and **NACL**.
    - Utilized **AWS**CLI to automate backups of ephemeral data-stores to **S3 bucket**, **EBS**and create nightly **AMIs**for mission critical production servers as backups.
    - Involved in Setup and Configuration of **Puppet**Configuration Management.
    - Installed and configured an automated tool **Puppet**that included the installation and configuration of the **Puppet**master, agent nodes and an admin control workstation.
    - Involved in **Chef**and **Puppet**for Deployment on Multiple platforms.
    - Implemented **Chef**Cookbooks for OS component configuration to keep AWS server's template minimal.
    - Written **Chef**Cookbooks for various DB configurations to modularize and optimize end product configuration.
    - Worked on M5SQL, **DynamoDB**, PostgreSQL Database for multiple environments and Projects.
* Added security layer on top of **DevOps** methodology and implemented **security/vulnerability** scans at every phase of DevOps life cycle starting from design to monitoring like FOSS, Fortify and DAST to create **DevSecOps** operational model.
  + - Worked on **Openshift**PaaS product architecture and worked on creating **Openshift**namespaces for on-prem applications migrating to cloud.
    - Hands-on experience Designing, planning and implementation for existing on-premises applications to **AZURE Cloud (ARM),** Configured and deployed **Azure Automation Scripts** utilizing **Azure stack Services** and Utilities focusing on Automation.
    - Migrated moderate workloads from on premise to Azure laaS. Published web services APIs using **Azure API management service.** Handle escalated Support tickets till closure **for MS Azure PaaS platform**. Involved in creating the Azure Services with Azure Virtual Machine.
    - Worked Hands on with **Azure MFA (Multi Factor Authentication) Servers and Phone factors for 2 step Security**.
    - Experience on **Azure Site Recovery, Operations Management Suite, Power shell Scripts and ARM templates.**
    - Analyzed, Strategized & Implemented Azure migration of Application & Databases to cloud.
    - Implemented a CI/CD pipeline using **Azure DevOps (VSTS, TFS)** in both cloud and on-premises with **GIT, MS Build, Docker, Maven along with Jenkins’s plugins**.
    - Used MySQL, **DynamoDB** and Elasticache to perform basic database administration.
    - Experience with **Azure DevOps, CI/CD Pipeline, Build and release management, Azure Administration.**
    - Creating and deploying **Web Apps to Azure/Azure VM with Azure Devops/ VSTS CI/CD**.
    - Installing and configuring Terraform and building the infrastructure using **terraform configuration file**.
    - Built **Jenkins** jobs to create AWS infrastructure from GitHub repos containing terraform code.
    - Experience executing the **CI Jenkins** build job for both **Android and iOS application builds**. Using GIT (Stash) tool as the source code repositories for all projects and Artifactory for all builds (IPA/APK) release repository.
    - Hands on working experience with **Jenkins continuous integration Tools** including installation, configuration of jobs, pipelines, security set up etc.
    - Used Data-pipeline to off-load the **DynamoDB** to 53 at scheduled intervals.
    - Used **Gradle build** tool to automate the process of generating Docker files, building Docker Images, and pushing them to Docker Private Registry.
    - **Source code management** is performed using **GIT** from master repository and knowledge on container management using **Docker** in creating images.
    - Used Jenkins pipelines to drive all micro services builds out to the Docker registry and then deployed to **Kubernetes**, Created Pods and managed using **Kubernetes**.
    - Utilized **Kubernetes and Docker** for the runtime environment of the CI/CD system to build, test deploy.
    - Changing the AWS infrastructure **Elastic Beanstalk** to **Docker** with Kubernetes.
    - Created **Ansible** roles in **YAML** and defined tasks, variables, files, handlers, and templates. Created inventory and configured the Ansible files for parallel deployment in Ansible for automating the Continuous delivery process.
    - Used **Ansible** as Configuration management tool, to automate repetitive tasks, quickly deploys critical applications, and proactively manages change.
    - Creation and setting up migration from Gitlab to **GitHub Enterprise.**
    - Creation of the Jenkins Continuous Integration process for Drupal 8 with **GitHub Enterprise**.
    - Expertise in writing **MAVEN/ANT** scripts for automation of build and deployment. Maintain a Live Like environment to test any production issues on the setup and push it into production.
    - Installed, tested, and deployed monitoring solutions with **Splunk services**.
    - Established infrastructure and service monitoring using Prometheus.
    - Improved overall AD replication health by developing an automated process using **PowerShell** to ensure that the organizations site-link topology was consistent with intended design, resulting in stable and efficient replication environment.
    - Responsible for production support of **Active directory (AD), GPO, ADFS, GPP, Domain users, Users and groups and given appropriate permissions, shares and privilege to access LAN/WAN and Domain environment**.
* Helped **Scrum master** across the company to customize **JIRA** for their requirements. Took the overall responsibility for the Jira configuration and be the go-to person for any Jira issues, enhancements, or best practice question.
* Maintain operational service for **Service-Now Application** and workflows Incident Mgmt., Problem Mg, Change Mgmt., Self- Service, Service Request Mgmt., Knowledge Mgmt., Asset Management, Discovery/CMDB, SDLC Scrum Process, Custom Apps, Report, User account administration, user roles and permissions.

**DevOps Engineer –USAA, Pleasanton CA July 2016- Jan 2018**

**Responsibilities:**

* Worked on various **Azure services** like **Compute (Web Roles, Worker Roles), Azure Websites, Caching, SQL Azure, NoSQL, Storage, Network services, Azure Active Directory, API Management, Scheduling, Auto Scaling, and PowerShell Automation**.
* Building and Installing servers through **Azure Resource Manager Templates** or Azure Portal. Migrating an On-premises virtual machine to **Azure Resource Manager** Subscription with **Azure Site Recovery**.
* Virtual Machine Backup and Recover from a Recovery Services Vault using **Azure PowerShell** and Portal. Manage the Windows Azure infrastructure for our customers depends on their requirement.
* Used the AWS-CLI to suspend an **AWS Lambda** function. Used AWS CLI to automate backups of ephemeral data-stores to **S3 buckets and EBS**.
* Configured alarms in **CloudWatch** for monitoring the server's **performance, health, CPU utilization, Memory and disk usage** of AWS resources using **AWS CloudWatch**.
* Responsible for designing and deploying best SCM processes and procedures with **Subversion (SVN),Bitbucket**, **GitHub, Git & eclipse.**
* Experience executing the CI **Jenkins** build job for both Android and iOS application builds. Using GIT (Stash) tool as the source code repositories for all projects and Artifactory for all builds (IPA/APK) release repository
* Wrote **Maven** and **Gradle** Scripts to automate the build process. Developed build workflows using Gradle, Gitlab-CI, Docker and OpenShift.
* Use of **Docker** and **Kubernetes** to manage micro services for development of continuous integration and continuous delivery. Environment, utilizing Kubernetes and Docker for the runtime environment for the **CI/CD** system to build and test and deploy.
* Used **Kubernetes** to deploy scale, load balance, scale and manage docker containers with multiple names spaced versions.
* Implemented **Kubernetes** to deploy scale, load balance, scale and manage docker containers with multiple names spaced versions.
* Created a Continuous Delivery process to include support building of **Docker Images** and publish into a private repository- Nexus v3. Used CI/CD tools **Jenkins, Git/Gitlabs, Jira and Docker registry/daemon** for configuration management and automation using Ansible. Created Containers in Docker
* Setting up the build and deployment automation for **Terraform scripts** using Jenkins. Provisioned the highly available **EC2** Instances using Terraform and Ansible Playbooks. Managed AWS infrastructure as code using **Terraform**.
* Used **Ansible** and Ansible Tower as Configuration management tool, to automate repetitive tasks, quickly deploys critical applications, and proactively manages change. Used Ansible Playbooks to setup Continuous Delivery Pipeline. Deployed **micro services**, including provisioning **AWS environments** using Ansible Playbooks.
* Worked with **Dynatrace** Guardian to obtain, debug and update custom monitors and plug-ins. Integrated Dynatrace with Active directory, Email Servers, and event management.
* Experience in UNIX **shell scripting** and configuring Cron jobs for Informatica job scheduling, backup of repository and folder.
* Installation of patches and packages using **RPM and YUM in Red hat Linux**. Installed and configured **SAMBA server** for Windows and Linux connectivity. Creation of **Logical volumes (LVM)** for Linux operating systems. Worked with DBA team for database performance issues, network related issues on Linux Servers.

**DevOps Engineer –Harvest-Soft technologies Pvt Ltd – India April 2015- Jun 2016**

**Responsibilities:**

* Designed and implemented AWS Solutions using **EC2, S3, EBS**, **Elastic Load balancer** (ELB), **VPC**, Amazon **RDS**, **CloudFormation**, Amazon **SQS**, and other services of the AWS infrastructure.
* Created users and groups using Identity Access Management (**IAM**) and assigned individual policies to each group. Setup specific **IAM** profiles per group utilizing newly released APIs for controlling resources within AWS based on group or user.
* Created AWS **Route53** to route traffic between different regions. Created configuration for establishing a VPN tunnel between on premise network and AWS**VPC**
* Configured alarms in **CloudWatch** for monitoring the server's performance, health, CPU utilization, Memory and disk usage of AWS resources using AWS **CloudWatch**.
* Worked with Atlassian tools like **Bamboo**& Jira. Designed and Developed Bamboo Build deployments on Docker containers.
* Wrote Docker images for **Bamboo**& Nexus. Developed bamboo Plans for Maven builds, creating them on bamboo and running them.
* Proposed branching strategies for using Version Control Systems like **GIT, Stash, GitHub & Subversion**. Created branches, performed merges in version control systems **GIT, GitHub, SVN, Stash**.
* Debugging the failure issues by capturing the array and register dumps using **Python** scripts, traces and performing several experiments by interacting with the design team.
* Maintained build related scripts developed in **ANT**, **shell and WLST/Python**. Created and modified build configuration files including Ant's build.xml. Worked with development team to migrate Ant scripts to Maven.
* Installation, Configuration and administration of **DNS, LDAP, NFS, NIS, NIS and Send mail on RedHat Linux/Debian Servers.**
* Configured yum repository server for installing packages from a centralized server. Configured, managed **ESX VM's with virtual center and VI client**.
  + - Creating Amazon **EC2**instances using command line calls and troubleshoot the most common problems with instances and monitor the health of Amazon EC2 instances and other **AWS**services.
    - Involved in supporting cloud instances running Linux and Windows on **AWS**, experience with Elastic IP, Security Groups and Virtual Private Cloud in **AWS**.
    - Developing the **Python APIs** which represent the memory subsystem.
    - Extensive experience on configuring Amazon EC2, Amazon S3, Amazon Elastic Load Balancing IAM and Security **Groups**in Public and Private Subnets in **VPC**and other services in the **AWS**
    - Managed network security using **Load balancer**, **Auto-scaling**, **Security groups**and **NACL**.
    - Utilized **AWS**CLI to automate backups of ephemeral data-stores to **S3 bucket**, **EBS**and create nightly **AMIs**for mission critical production servers as backups.
    - Maintained and developed **Docker images**for a tech stack including Cassandra, Kafka, Apache, and several in house written Java services running in **Google Cloud Platform (GCP)**on Kubernetes.
    - Involved in Setup and Configuration of **Puppet**Configuration Management.
    - Installed and configured an automated tool **Puppet**that included the installation and configuration of the **Puppet**master, agent nodes and an admin control workstation.
    - Involved in **Chef**and **Puppet**for Deployment on Multiple platforms.
    - Implemented **Chef**Cookbooks for OS component configuration to keep AWS server's template minimal.
    - Written **Chef**Cookbooks for various DB configurations to modularize and optimize end product configuration.
    - Worked on **OpenShift**PaaS product architecture and worked on creating **OpenShift**namespaces for on-prem applications migrating to cloud.
    - Virtualized the servers using **Docker**for the test environments and dev-environments needs, also configuration automation using **Docker**containers.
    - Experience in creating **Docker**Containers leveraging existing Linux Containers and AMI's in addition to creating **Docker**Containers from scratch on both Linux and Windows servers.
    - Container clustering with **Docker Swan Mesos**/ **Kubernetes.**
    - Worked with Amazon **AWS/EC2**, and Google's **Docker**based cluster management environment **Kubernetes**.
    - Creating **Jenkins**jobs and distributing load on **Jenkins**server by configuring Jenkins’ nodes which will enable parallel builds.
    - Extensively worked on **Jenkins CI/CD pipeline**jobs for end-to-end automation to build, test and deliver artifacts and troubleshoot the build issue during the Jenkins build process.

**DevOps Engineer - Redd Apps –IndiaJan 2014 – Dec 2014**

**Responsibilities:**

* + Used **AWS**Beanstalk for deploying and scaling web applications and services developed with Java, PHP, Node.js, **Python**, **Ruby**, and **Docker**on familiar servers such as Apache, and IIS.
  + Designed **AWS**Cloud Formation templates to create custom sized VPC, subnets, NAT to ensure successful deployment of Web applications and database templates.
  + Manage **AWS**EC2 instances utilizing Auto Scaling, Elastic Load Balancing and Glacier for our SIT, UAT, Prod and DR environments as well as infrastructure servers for **GIT**and **Puppet**.
  + Experience in Setting up the build and deployment automation for **Terraform**scripts using Jenkins.
  + Provisioned the highly available EC2 Instances using **Terraform**and cloud formation and wrote new plugins to support new functionality in **Terraform**
* Design and implementation of a **Puppet-based configuration management system** for all new Linux machines. Installed, configured, and managed **Puppet Master and Agent.**
* Setup **puppet master, client and wrote scripts** to deploy applications on **Dev, QA, production environment.**
* Administered **Puppet Enterprise** to provision multi-platform virtual machine configurations across infrastructure. Infrastructure consists of multiple-platform environment servers dedicated for building, deploying as well as for development, test, and production systems.
* Experience configuring and managing **Puppet master server, updating, and creating modules and pushing them to puppet clients**.
* Setup Continuous integration with **Jenkins** and make use of wide range of plugins available to setup smooth developer friendly workflows.
* Made use of **Gradle and maven** for building applications and written structured pom which can be consumed by Jenkins.
* Extensively worked on Jenkins to implement **continuous integration (CI)** and **Continuous deployment (CD)** processes.
* Developed custom **Jenkins’s** jobs/pipelines that contained **Bash shell scripts** utilizing the AWS CLI to automate infrastructure provisioning.
* Responsible for Administering and maintaining **Jenkins** and Jenkins slaves on windows and Linux (Debian/Ubuntu). Created many Jenkins slaves and setup jobs on master to run on slaves.
* Worked with development team to migrate **Ant scripts**to**Maven.** Experienced in authoring **pom.xml** files, performing releases with the **Maven release plugin**, and managing **artifacts in Sona type NEXUS repository.**
* Extensively worked with Version Control Systems like **CVS, SVN (Subversion), GIT, IBM Rational Clear Case and Harvest**. Experience with additional version control tools such as **Git, Subversion (SVN), Perforce, TFS and UCM ClearCase**.

**System Engineer - CSS Corp (Google Inc)– India – March 2011 - Dec 2013**

**Responsibilities:**

* Install and configure various services like **DHCP**, **NFS**, **DNS, Apache Web Server**, **NIS**, **LDAP**, **Samba**, **SSH**, **FTP/SFTP**, **Sendmail**/**SMTP**, **Telnet**, **RPM Package Management**, **File System Management**.
* Installation/Administration of **RHEL 5.6** and **Fedora**on Multiple Servers configuration, testing on both physical and virtual machines. Perform day to day **Linux administration** such as **user accounts, logon scripts, directory services**, **file system shares**, **permissions**. Support **Oracle database**.
* Installing & Configuring **Samba, NFS Clients, Secured**

**FTP server, Printers with CUPS and LVM’s.**

* Resolving technical issues of **Google Employees.** Managing **user accounts, Groups, printers, file systems and security.** Troubleshooting **Hardware and Software** issues
* Responsible for **disaster recovery**, **closing security loopholes** and **access levels.**Perform day to day **Linux administration** such as **user accounts, logon scripts, directory services**, **file system shares**, **permissions**. Support **Oracle database**.
* Installing and configuring **VPN client and Corp hosting**. Producing **documentation on operational system** and user procedure guidelines.
* **Designing, implementing**, and managing **Active Directory.**Maintaining maximum availability of supported services for users.
* Excellent in **patches** and **packages installation** on **Linux/Unix Environment**. Updating **YUM Repository** and **Redhat Package Manager RPM.**Automated server building using **System Imager**, **PXE,Kickstart** and **Jumpstart**, for **Solaris** and **RHEL Servers**.
* Experience in Managing various Network related tasks such as **TCP/IP, NFS, DNS, DHCP and SMTP**.Configuring and Administering **NIS, LDAP and FTP** on Linux and Sun Solaris server environment.

**Education:Bachelor of Computer Application from William Carey universityin 2009. (India)**