**Mian Kakahel**

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**Sr.Devops Architect/Cloud /AWS /Linux**

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**Education**

* **Bachelor's in Business Administration from COMSATS University Islamabad- 2011**

**Technical Skills**

**Operating System**  : **Linux** (Red Hat, CENTOS), **Unix**, Solaris, Ubuntu, **Windows** NT, **Windows**, MacOS.

**Cloud Platforms** : **AWS** (**EC2**, S3, Lambda, CloudWatch, RDS, SNS, Route53) **GCP**.

**Web Technologies** : HTML, CSS, XML, AJAX.

**Automation/Configuration Tools** : **Jenkins**, **Chef**, **Puppet**, **Ansible**, Kickstart, Jumpstart.

**Virtualization Technologies** : **Windows** Hyper-V, **VMware** ESXi, Virtual Box, vCenter, vSphere, Power VM.

**Containerization Tools**  : **Kubernetes**, **Docker**, OpenShift, Spinnaker, PaaS, Open stack.

**Application/Web Server**  : **Tomcat**, Apache, Application **Server**, IIS, **Oracle** WebLogic **Server** 11g

**CI and Build Tools**  : **ANT**, **Maven**, Hudson, Bamboo

**Testing and ticketing tools** : SonarQube, Selenium, **JIRA**, ServiceNow, Remedy, Connect Wise,

**Monitoring and Logging Tools** : **Nagios**, **Splunk**, ELK, Datadog, Dynatrace

**Version Control Tools** : **GIT**, GitHub, Subversion, Bit-Bucket, CVS, Clear Case

**Scripting**  : Python, Shell Scripting, Ruby Scripting, Power Shell, YAML Perl

**Database Systems** : **Oracle**, **SQL** **Server**, **MySQL**, **SQL** **Server**, NoSQL, Mongo DB, Cassandra

**Networking/Protocol**  : DNS, DHCP, Cisco Routers/Switches, NIS, NFS, WAN, SMTP, LAN, FTP/TFTP, TCP/IP

**Summary**

* **11** Years of Experience in various **AWS** and **GCP** services. Architecture scalable and cost-efficient multi- **cloud** backend using both **AWS** and **GCP**.
* Experience in **AWS** platform and its dimensions of scalability including **EC2**, **Lambda, S3, s3, VPC, ELB, AMI, SNS, SES, SQS, RDS, IAM, Route 53, Elastic** **Container Service (Docker Containers), Elastic Beanstalk, Auto scaling, CloudFormation, CloudFront, CloudWatch, Redshift, Direct Connect, API Gateway,** and other services of the **AWS**. Used **Terraform** to create **AWS** components like **EC2**, IAM, VPC, **ELB**, security groups.
* Experienced with deployment automation of all the micro-services to pull the image from the private **Docker** registry and deploy to **Docker** Swarm **cluster** using **Ansible**. Created and managed a **Docker** deployment pipeline for custom application images in the **cloud** using **Jenkins**.
* Experience in working on **Ansible** Playbooks, Inventory files, Vault feature to configure the **servers**, deploy **software**, encryption of **data** file and orchestrate continuous deployments or zero downtime rolling updates. Worked on **Ansible** Tower which provides an easy-to-use dashboard, and role-based access control. Working experience in **DevOps** concepts like Continuous Integration, Continuous delivery. Experience in using **JIRA** and confluence.
* Exposed to all aspects of **software** development **life** **cycle** (**SDLC**) such as Analysis, Planning, Developing, Testing, and implementing and Post-production analysis of the projects. Automated application deployment in the **cloud** using **Docker** technology using Elastic Container Service scheduler.
* Experience working in a **DevOps** Environment as a **DevOps** **engineer** working on various technologies/applications like **Puppet**, **CHEF**, **GIT**, SVN, **Jenkins**, **Docker**, **AWS** and **Maven**. Experience on **AWS** Directory Service, **AWS** Domain Services and **AWS** SNS (Simply Notification Service)
* Experience in installation, configuration, tuning, security, backup, recovery and upgrades of **Linux** (**Red** **hat**, Centos, Ubuntu Created build pipeline for application versions, using **Jenkins** Continues Integration. Experience in **AWS** firewall, **Cloud** security, and **Azure** firewall.
* Used Groovy **scripts** for **CI**/**CD** pipeline builds and actively involved in the entire pipeline setups using **Jenkins**, Nexus, GitHub, **Terraform**, **AWS**, XL Deploy and XL Release. Good experience on **DevOps** tools such as **Chef**, Vagrant, Virtual Box, **Puppet**, **Ansible**, **Jenkins**, **Maven**, **ANT**, SVN, **GIT**, and **Docker**. Experienced with **Docker** container service. Dockerized applications by creating **Docker** images from Dockerfile.
* Implemented **puppet** modules to automate the installation and configuration for a broad range of services. Well versed with creation of **puppet** profiles and role modules. Good experience working with container orchestration tools Apache Mesos, Marathon, and **Kubernetes**.
* Implemented **Chef** Recipes for Deployment on build on internal **Data** Centre **Servers**. Also re-used and modified same **Chef** Recipes to create a Deployment directly into Amazon **EC2** instances. Written **Chef** Cookbooks for various DB configurations to modularize and optimize end product configuration Strong experience in working in **Linux** and **Windows** environments.
* Development and version control of **Chef** Cookbooks, testing of Cookbooks using Food critic and Test Kitchen and running recipes on nodes managed by on premise **Chef** **Server**. Well versed with **Ansible** Playbooks, modules and roles. Leveraged Hiera to create various re - usable **puppet** modules.
* Experience in Infrastructure Development and Operations involving **AWS** **Cloud** platforms, **EC2**, EBS, S3, VPC, RDS, SES, **ELB**, Autoscaling, CloudFront, CloudFormation, ElacticCache, CloudWatch, SNS. Used **Chef** for **server** provisioning and automating infrastructure.
* Ensure **data** integrity and **data** security on **AWS** technology by implementing **AWS** best practices. Ability to identify and gather requirements to define a solution to be build and operated on **AWS**. Experienced in **cloud** automation using **AWS** **cloud** Formation Templates, **Chef**, **Puppet**.
* Worked with Build and Release automation framework designing, Continuous Integration and Continuous Delivery, Build and Release Planning, Procedures, scripting and automation. Experience in creating ARM templates for **Azure** platform and in migrating on premise to **Azure**.
* Hands-on experience in bootstrapping the nodes using knife and automated by testing **Chef** Recipes, Cookbooks with test-kitchen and **chef** spec.
* Experience in Build & Release, ALM, TFS, VSTS Administration and Configuration management. Proficient in integrating TFS with SharePoint, SSRS and Project **server**. Strong Experience on **AWS** platform and its dimensions of scalability including VPC, **EC2**, **ELB**, S3, and EBS, ROUTE 53.
* Expertise in Using **AWS** services including **EC2**, Auto Scaling in launching **EC2** instances, Security Groups, **ELB**, Elastic Beanstalk, S3, EBS, AMI, Glacier, **Cloud** Front, RDS, VPC, **Cloud** Watch, **Cloud** Formation, **Cloud** Trail, **Cloud** Front, MI, Route 53, IAM, SNS, SQS and Security Groups.
* Experience in working on version control systems like Subversion, **GIT**, TFS and used Source **code** management client tools like GitBash, and GitHub.
* **Software** Configuration Management Support with Branching and Merging strategies, Tags, Version Control Systems, Integration Management, Build/Release Management and Requirement Management. Extensive experience with **software** builds tools like Apache **Maven**, Apache **Ant**.
* Expertise in using build tools like **MAVEN** and **ANT** for the building of deployable artifacts such as jar, war and ear from source **code** and plugin management as per requirements. Experience in building **Server** using Jumpstart, Kickstart, NIM, and Ignite Process.
* Experienced in **Azure** IaaS, Provisioning VM's, Virtual Hard disks, Virtual Networks, Deploying **Web** Apps and Creating **Web**-Jobs, **Azure** **Windows** **server** 2008/2012/R2, Microsoft **SQL** **Server**, Microsoft Visual Studio, **Windows** PowerShell, **Cloud** infrastructure. Well versed with Openstack based **cloud** infrastructure. Integration, deployment and automation of application **servers** **Tomcat**, WebLogic across **Linux** platforms.
* Experienced in configuring **Cloud** platform such as Virtual Networks Multi-site, Cross-site, VMs, **Azure** AD, Load Balancers, **Azure** **SQL**, **Cloud** Services, etc.
* Experience writing **Ansible** playbooks to deploy automated tasks to multiple **servers** using Python, Managing Configurations of **AWS** Nodes and Test Playbooks on **AWS** instances using Python and written **Ansible** **Scripts** to assist Dev **servers**. Experience in extending **Active** Directory Domain Service(AD) into VPC Extensively worked on **Jenkins** for continuous integration and for End-to-End automation for all build and deployments.
* Hands on experience in writing **Terraform** API modules to manage infrastructure, for automatic creation of RDS instances, VPCs, Autoscaling groups, Load balancers, SQS, S3 buckets. Expertise in Application Deployments & Environment configuration using **Chef**, **Terraform** and **Puppet**.
* Experience in designing **AWS** **cloud** models for Infrastructure-as-a-Service (IAAS), Platform-as-a- Service (PAAS) and **Software**-as-a-Service (SAAS). Implementing **Data** warehouse solutions in **AWS** Redshift worked on various projects to migrate **data** from on **database** to **AWS** Redshift, RDS and S3.
* Experience in Clusters using **Kubernetes** and worked on creating many pods, replication controllers, services, deployments, labels, health checks. Proficient knowledge with Mesos providing the fine- grained resource allocations for pods across nodes in a **cluster**.
* Set up Continuous Integration for major releases in **Jenkins**. Knowledge and experience in creating **Jenkins** Pipeline. Experienced with build automation tools like **Ant** and **Maven**. Setup automated alerting of OpenStack Control Plane services using Zabbix triggers and templates.
* Experienced in Branching, Merging, Tagging and maintaining the version across the environments using SCM tools like **GIT** and Subversion (SVN) on **Linux** platforms. Experience in deployment Management process using shell **scripts**, **windows** batch, and python with Run Deck and **Jenkins**.
* Used **GIT** to keep track of all changes in source **code** extensively experienced in Bash, Perl, Python, Ruby scripting on **Linux**. Experience in Swagger, Dropwizard, Ratpack. Used Python fabric for **AWS** instance provisioning. knowledge on ITSM based tool solutions and process related tasks
* Solid understanding of **Unix**/**Linux** operating systems, networking, architecture, and core **web** technologies (such as DNS, Routing, TCP/IP, VPN, and Load Balancing) Deploying applications using **Jenkins** **server** and Troubleshoot build and release job failures, resolve, work with engineering on resolution.
* Hands-on in using OpenShift for container orchestration with **Kubernetes**, container storage, automation, to enhance container platform multi-tenancy. Experience with OpenShift, **Kubernetes** architecture and design, troubleshooting issues and multi-regional deployment models and patterns for large-scale applications. Expertise in configuring ELK (Elasticsearch, Logstash & Kibana), **Nagios** and **Splunk** for Log monitoring of various applications.
* Experience in **Jenkins** by installing, configuring and maintaining the purpose of Continuous Integration (**CI**) and End-to-End automation for all build and deployments implementing **CI**/**CD** for **database** using **Jenkins**. Worked in container-based technologies like **Docker**, **Kubernetes** and OpenShift.
* Supported **server**/VM provisioning activities, middleware installation and deployment activities via **Ansible** and Written **Ansible** playbooks Provision several pre-prod environments. Wrote **Puppet** manifests for deploying, configuring, and managing collected for metric collection and monitoring.
* Experience creating, managing and performing container-based deployments using **Docker** images Containing Middleware and Applications together.
* Performed automation tasks on various **Docker** components like **Docker** Hub, **Docker** Engine, **Docker** Machine, Compose and **Docker** Registry.
* Experienced in Installation of Operating Systems, Packages and Patches, adding peripherals, maintaining user accounts, System Security maintenance, backup/recovery, performance tuning, troubleshooting at various levels etc. Experience in using Bug Tracking tools like **JIRA** and HP Quality center.
* Excellent experience and knowledge with designing installing and implementing **VMware** ESX **server**, **VMware** virtual center, setting up V-Motion, HA, DRS. Created the naming strategy for branches and labels and implemented continuous integration system with **Git** version control repository.
* Experience in orchestration and Migration of **CI**/**CD** processes using **Cloud** Formation, **Terraform** Templates & Containerization of Infrastructure using **Docker**, which was set up in Vagrant, **AWS** and VPC's. Experience in administrating, deploying and managing UBUNTU and centOS **servers**.
* Proficient in Ruby, Perl, Power Shell, JSON, YAML, Groovy, Bash/Shell, Python. Developed python, and shell **scripts** for automation of the build and release process. Experience in using build tools like **MAVEN** and **ANT** for the building of deployable artifacts such as war & ear from source **code**.
* Experience in working with **SQL** **database** like **MySQL**, **Oracle** 10i/9i/8i, **SQL** **Server** and NoSQL databases like MongoDB, DynamoDB and Cassandra.
* Automated **AWS** resources like **EC2** instances, Security groups, **ELB**, RDS, and IAM through **AWS** **cloud** Formation templates and used **Ansible** Tower to manage and configure nodes. Also, implemented the ITIL process and was responsible for configuration management in **aws**.
* Experience in Installations/Deployments, and troubleshooting enterprise **web** applications like Apache **Tomcat**, IBM WebSphere, Nginx, **JBOSS** and **Oracle** WebLogic. Automated the process of launching and stopping/terminating **EC2** instances on Amazon **AWS** with BOTO.
* Good Working knowledge of Build **scripts** & automated solutions using various scripting languages like Shell, Python, Bash, Perl, Ruby, PowerShell, and YAML. Experience in implementing and administering monitoring tools **Splunk** and **Nagios**. Expertise in enterprise Spring
* Expertise in **Agile** Testing Methodologies &**Software** Test **Life** **Cycle** (STLC). Experience in **CI** (Continuous Integration) and **CD** (Continuous Deployment) methodologies using **Jenkins**. Extensive experience in scripting languages including Shell Scripting and Ruby Scripting.
* Experience in creating, debugging, diagnosing and troubleshooting, build **scripts** written in **ANT**, **Maven** on **Linux** platform. Experienced working with a configuration management tools like **Git**, CVS, and Tortoise SVN. Extensive experience in **UNIX** performance tuning and Capacity Planning.
* Hands on experience in configuring and maintaining webservers like Apache **Tomcat**, and Application **servers** like WebLogic, WebSphere and **JBoss**.
* Experience in implementing merging strategies, Tagging and delivering using **Git** as source control.
* Experience in setting up **Puppet** master, **Puppet** agents for managing enterprise policies, configurations.
* Experience of the full **Software** Development **Life** **Cycle** (**SDLC**) and Methodologies & Validations to ensure the Quality Assurance Control.
* Experience in deploying system stacks for different environments like Dev, UAT, Prod in both on premise and **cloud** infrastructure.
* Good analytical, problem solving, communication skills and have the ability to work either independently with little or no supervision or as a member of a team. Excellent written and verbal communication skills, strong organizational skills, and a hard-working team player

**Work Experience**

**National Life Group, Montpelier, Vermont**

**Sr. DevOps /AWS/Ansible Engineer**

**August 2020 - Present**

* Built and configured a virtual **data** center in the **AWS** **cloud** to support Enterprise **Data** Warehouse hosting including Virtual Private **Cloud** (VPC), Public and Private Subnets, Security Groups, Route Tables and Elastic Load Balancer.
* Collaborating with development teams to enhance deployment processes by implementing Continuous Integration and Continuous Delivery (**CI**/**CD**).
* Created **AWS** CloudFormation templates to create custom-sized VPC, subnets, **EC2** instances, **ELB**, security groups. Worked on tagging standard for proper identification and ownership of **EC2** instances and other **AWS** Services like **Cloud** Front, **cloud** watch, RDS, S3, Route53, SNS, SQS, **Cloud** Trail.
* Configured the Auto scaling and **ELB** groups in **AWS** to main high scalable and secure environment.
* Experience working on several **Docker** components like **Docker** Engine, **Docker** Hub, **Docker** Machine, **Docker** Compose and **Docker** Registry.
* Created multiple Containers with Specific Run Times and Proxying using NGINX for Virtual Hosting of Multiple Containers in Single **Docker** Host.
* Proof of Concept (POC) on building/maintaining **Docker** container clusters managed by **Kubernetes**, **Linux**, Bash, **GIT**, **Docker**, on **AWS**.
* Utilized **Cloud** Watch to monitor resources such as **EC2**, Amazon RDS DB services, Dynamo DB tables, EBS volumes, to set alarms for automated actions, and to monitor logs for a better understanding and operation of the system. Deployed applications on **AWS** by using Elastic Beanstalk.
* Written **Chef** Cookbooks for various DB configurations to modularize and optimize end product configuration, converting production support **scripts** to **Chef** Recipes and **AWS** **server** provisioning using **Chef** Recipes Developing **Web** Application in Groovy/Grails with Mongo DB as a **data** store
* Installed and configured configuration tool such as **Chef** **Server** / workstation and nodes via CLI tools to **AWS** nodes Moving Opsview/**Nagios** Alerting system to Sensu and handoff to NOC for managing alerts/incidents. Provisioned the highly available **EC2** Instances using **Terraform** and CloudFormation on **AWS**. Worked on bootstrapping instances using **ansible** and integrating it with auto-scaling.
* Developed internal tool Quick Deploy for runbook automation, and automated release and deployment Management process using shell **scripts**, **windows** batch, and python with Rundeck and **Jenkins**. Configured plugins for the integration tools to the version control tools.
* Analyze and correct order flow exceptions by implementing changes to our OMS, WMS/**Agile**, and customer checkout via a **JIRA** process.
* Manage **AWS** **EC2** instances utilizing Auto Scaling, Elastic Load Balancing and Glacier for our QA and UAT environments as well as infrastructure **servers** for **GIT** and **Chef**. Used **ANT** and **MAVEN** as a build tools on java projects for the development of build artifacts on the source **code**.
* 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 Setting up continuous integration and formal builds using **Jenkins** with Artifactory repository.
* Build **servers** using **AWS**, Importing volumes, launching **EC2**, RDS, creating security groups, auto-scaling, load balancers (ELBs) in the defined virtual private connection(VPC).  Collaborated with conferring and managing services to construct and execute migration designs.
* Involvement in arranging custom **Ansible** playbooks and **Puppet** modules to organize the machines in various environments with proper versions.
* Experience in creating RDS **database** instances, configured snapshots to take backups of volumes and images to store launch configurations of the **EC2** instances. Created EBS volumes for storing application files for use with **EC2** instances. Work on building and deploying Java **code** through **Jenkins**.
* Scripted Templates for **AWS** infrastructure as a **code** using **Cloud** Formation / **Terraform** templates to build staging and production environments.
* Worked with **AWS** services like Glacier, **ELB** (Elastic Load Balancer), RDS, SNS, SWF, Lambda, IAM and hands on experience with Amazon **Web** Services provision. Configured Environment to run Unit tests via **Ant** in the project. Used **JIRA** and triaged the issues and maintained bugs.
* Deployed and configured **Git** repositories with branching, forks, tagging, and notifications. Experienced and proficient deploying and administering GitHub. Create various **Maven** **scripts** to create multiple deployment profiles and deploy the applications to Apache **Tomcat**.
* Managed **data** warehouse using Amazon RedShift to analyze all **data** using **SQL** & existing business intelligence tools. Converted existing **AWS** infrastructure to serverless architecture (**AWS** Lambda, Kinesis) deployed via **Terraform** & **AWS** **Cloud** formation.
* Integrated **AWS** Dynamo DB using **AWS** lambda to store the values the items and backup the Dynamo DB streams and implemented **Terraform** modules for deployment of applications across multiple **cloud** providers. Work closely with development team and SQA team for product releases.
* Planned and configured network infrastructure within the VPC with public and private subnets and configured routing tables and internet gateways, Security Groups in **AWS**. Implemented Micro-services using Pivotal **Cloud** Foundry (PCF) platform build upon Spring Boot Services and created workflows on TeamCity for setting up automated pipelines for **CI**/**CD** with PCF. Application Deployment on PCF using CF push and Urban **code** deploy. Also, PCF backup for all the environments and set-up **Jenkins** **maven** build automation with uploads to Pivotal **Cloud** Foundry (PCF).
* Developed and implemented **Software** Configuration Management strategies for various applications according to the **agile** process using **Git**/GitHub.
* Using **Ansible** deployed and configured Elasticsearch, Logstash and Kibana (ELK) for log analytics, full text search, application monitoring in integration with **AWS** Lambda and CloudWatch. Setting up subversion repositories, track instances and configuring **Jenkins**.
* Implemented **Jenkins** as Continuous Integration **Server** for Installation, Configuration, Design and Administration, and integrating tools with other systems Managed different infrastructure resources, like physical machines, VMs and **Docker** containers using **Terraform**
* Managed to develop a Continuous Deployment/Continuous Integration environment using **GIT**, Bitbucket, **Jenkins**, **Chef**, **Maven** and **Docker** to complete automation from commit to deployment. Work on integrating **GIT** into the continuous Integration (**CI**) environment along with Anthill-Pro,
* Configured Elastic Load Balancer for Internet Facing and Register **EC2** instances Using Target Groups and the target group is configured with the HTTPS protocol. Created VPCs, Public and Private Subnets and secured Amazon **Cloud** by controlling ports in Security Groups
* Deployed and optimized multi-tier .Net application to **Azure** Pipelines for Continuous Integration and Continuous Delivery jobs to build, test, and deploy NuGet Packages to the **Azure** Artifact Repository. Utilized SonarQube for **code** analysis and **code** review.
* Experience in accessing **Azure** Resource Manager for provisioning resources using **Azure** Portal, **Azure** PowerShell, **Azure** CLI and Rest APIs.
* Created **Ansible** Playbooks to provision Apache **Web** **servers**, **Tomcat** **servers**, Nginx, Apache Spark and other applications. Used **Ansible** Tower to streamline the applications delivery and services to **AWS** in a cost-effective, Simple and Secure manner.
* 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**. Create and maintain continuous build and continuous integration environments in **Scrum** and **Agile** projects. Developed **scripts** for build, deployment, maintenance and related tasks using **Jenkins**, **Docker**, Python and Bash Installation, set-up, and management of build **servers** and management using **Jenkins** as Continuous Integration tool.
* Created additional **Docker** Slave Nodes for **Jenkins** using custom **Docker** Images and pulled them to **Cloud**. Worked on all major components of **Docker** like **Docker** Daemon, Hub, Images, Registry, Swarm. Develop a continuous deployment pipeline using **Jenkins**, Ruby/shell **scripts**.
* Worked and Installation of complex packages in **Kubernetes** by using Helm Package Management and experienced **cluster** metrics monitoring with Prometheus and Grafana. Implemented Session management for **Web**-Applications by enabling Sticky Session in **ELB**
* Worked in all areas of **Jenkins** setting up **CI** for new branches, build automation, plugin management and securing **Jenkins** and setting up master/slave configurations. Used **MAVEN** as a build tool for projects and written **Maven** POM files from scratch for multi-module projects for the development of build artifacts on the source **code**. Wrote PowerShell **scripts** for automating time-consuming specialty needs for external clients.
* Developed Python, Perl and shell/bash **scripts** for TC **Server**/**Tomcat** **web** application **servers** and automation of the build and release process and to automate certain processes for the smooth process of build tool like **Maven**. Imported and managed multiple corporate applications in **GIT**.
* Executed and managed the automate **cloud** deployments using **Ansible**, python (Boto and Fabric) and **AWS** **Cloud** Formation Templates.
* Good knowledge in customizing and compiling the **Linux** kernel according to the requirements also good in networking concepts and various communication protocols. Managing **DATA** Center Inbound and outbound services. Working on **Ansible** automation tool.
* Experience in leading the efforts of Deployment and Build Engineers for **Linux** Environment. In-depth knowledge of **AWS** automation services - **Cloud** Formation templates, **Terraform** Worked on managing DNS zones using Route53 and gave public DNS names to elastic load balancers.

**CyberArk Software, Newton, Massachusetts**

**DevOps Cloud Engineer**

**March 2018 – July 2020**

* Implemented new build automation solutions for products and provide ongoing support and administration for **software** build and build automation using **ANT**, **Maven**, Shell **Scripts**, **Jenkins**, and Apache **Tomcat**. Configured **AWS** IAM and Security Group in Public and Private Subnets in VPC.
* Created **AWS** Route53 to route traffic between different regions. Involved in extending **Active** Directory Domain Services(AD) into **cloud**
* Designed **AWS** **Cloud** Formation templates to create custom sized VPC, subnets, NAT to ensure successful deployment of **Web** applications and **database** templates. Used **Kubernetes** to deploy scale, load balance, scale and manage **Docker** containers with multiple name spaced versions.
* Implemented automated local user provisioning instances created in **AWS** **cloud**.
* Setup and build **AWS** infrastructure various resources, VPC **EC2**, S3, IAM, EBS, Security Group, Auto Scaling, and RDS in **Cloud** Formation JSON templates.
* Detailed technical knowledge and hands-on experience of **DevOps**, Automation, Build Engineering and Configuration Management.
* Extensively worked on Amazon **AWS** **Cloud** Services, **EC2**, S3, EBS, **ELB**, **Cloud** Watch, Elastic IP, RDS, SNS, SQS, Glacier, IAM, VPC, **EC2** Container Service and managing security groups on **AWS**. Involved in configuring, User Management and Plug-in Management for **Jenkins** **CI** **server**.
* Automated and implemented the **Cloud** Formation Stacks (JSON **Scripts**) for creating/administrating the **AWS** resources like **EC2**, RDS, Auto-Scaling, Elastic-Load-Balancers (**ELB**), IAM, Route53, S3 and many others across different Availability Zones.
* Worked with **Terraform** **scripts** for instance provisioning and configuration management
* Responsible for building **AWS** infrastructure VPC, **EC2**, S3, IAM, EBS, Auto scaling and RDS in **cloud** formation using JSON templates.
* Configuring S3 versioning and lifecycle policies to and backup files and archive files in glacier.
* Working as a **DevOps** **engineer** for automating the build, configuration, deployment and testing of enterprise level **software** applications on premise and on **cloud** Created Apache Directory **Server** for local network and Integrating **RHEL** instance with **Active** Directory in **AWS** VPC.
* Configure and Manage **EC2**, Elastic Beanstalk, RDS, S3 Buckets, VPC, Security Groups, **ELB**, Auto scaling, Elastic Cache, Glacier, SNS, SQS, SES, CloudWatch, ECS, CloudTrail, CloudFormation Created local repository to connect **Linux** **server** to **RHEL** site for downloading packages and patches.
* Configuring and Networking of Virtual Private **Cloud** (VPC) Written CloudFormation templates and deployed **AWS** resources using it.
* Knowledge of Node.js and frameworks available for it Integration of user-facing elements developed by front-end developers with **server** side logic using Node.js. Wrote PowerShell **scripts** for automating time consuming specialty needs for external clients.
* Strong experience utilizing **Jenkins** for enterprise scale infrastructure configuration and application deployments - checking out **code** from svn/**git** and use **ant**/**maven** to build war/jar artifacts and creating pipelines Automated deployment of builds to different environments using **Jenkins**
* Used **MySQL**, DynamoDB and Elasticache to perform basic **database** administration. Build out **server** automation with Continuous Integration - Continuous Deployment tools like **Jenkins**/**Maven** for deployment and build management system Defined branching, labeling, and merge strategies for all applications in **Git**.  Utilized Configuration Management tool **Chef**& created **Chef** Cookbooks using recipes to automate system operations.
* Analyzed various distributed file systems suitable for a **cloud** storage using a storage benchmark. Tested a private storage **cloud** using OpenStack SWIFT **software** and worked as well with OpenStack Multi-node installation, Configuration and Administration
* Worked with **AWS** **Code** Pipeline and creating CloudFormation YAML templates to create custom VPC. Migrated production infrastructure into **AWS** utilizing **Code** Deploy, **Code** Commit, Ropeworks. Knowledge of Amazon ECS Clusters and able to manage containers in it
* Centos, Ubuntu as well as used corporate based VM images which includes complete packages to run build and test in those **EC2** Instances.
* Troubleshooted issues along the **CI**/**CD** pipelines. Built Continuous Integration environment **Jenkins** and Continuous delivery environment.
* Utilized security groups, network ACLs, Internet Gateways, NAT instances and Route tables to ensure a secure zone for organizations in **AWS** public **cloud**.
* Worked with **Chef** Enterprise Hosted as well as On-Premise, Installed Workstation, Bootstrapped Nodes, Wrote Recipes and Cookbooks and uploaded them to **Chef**-**server**, Managed On-site OS/Applications/ Services/Packages using **Chef** as well as **AWS** for **EC2**/S3/Route53 & **ELB** with **Chef** Cookbooks.
* Designed User Defined Routes with custom route tables for specific cases to force tunneling to the Internet via On-premise network and control use of virtual appliances in the customer's **Azure** environment. Created and configured **AWS** **EC2** instances using preconfigured templates such as AMI, **RHEL**,
* Extensively worked with **Jenkins** API's to know various things like build status, count of builds, **GIT** commit version used by **Jenkins** builds etc. using Python. Utilized **Kubernetes** and **Docker** for the runtime environment of the **CI**/**CD** system to build, test deploy.
* Executed a **Kubernetes** POC (proof of concept) to demonstrate the viability of container orchestration.
* Deployed Java J2EE applications to Application **servers** in an **agile** continuous integration environment and automated the whole process. Build **scripts** using **ANT** and **MAVEN** build tools in **Jenkins**, Sonar to move from one environment to other environments.
* Created **Terraform** modules to create instances in **AWS** & automated process of creation of resources is **AWS** using **terraform**.
* Used **Docker** to containerize custom **web** applications and deployed on Digital Ocean with Ubuntu instances through SWARM **Cluster** and automated application deployment in **cloud** using **Docker** HUB, **Docker** Swarm, and Vagrant.
* Developed automated processes that run daily to check disk usage and perform cleanup of file systems on **LINUX**. Environments using shell scripting. Applied appropriate support packages/patches to maintain system integrity. Used Apache **Tomcat** as application **server** for deploying the artifacts.
* Implementing **Docker** containers leveraging existing **Linux** Containers and AMI's in addition to creating **Docker** containers from scratch.
* Managing the OpenShift **cluster** that includes scaling up and down the **AWS** app nodes.
* Had very strong exposure using **ansible** automation in replacing the different components of OpenShift like ECTD, MASTER, APP, INFRA, Gluster.
* OpenShift virtualized PaaS provider - useful in automating the provisioning of commodity computing resources for cost and performance efficiency
* Integrated **Jenkins** with various **DevOps** tools such as Nexus, SonarQube, **Ansible** and used **CI**/**CD** system of **Jenkins** on **Kubernetes** container environment, utilizing **Kubernetes** and **Docker** for the runtime environment for the **CI**/**CD** system to build and test and deploy.
* Good exposure to Configuration Management policies and practices with regards to **SDLC**; along with automation of scripting using BASH/Shell scripting
* Orchestrated and migrated **CI**/**CD** processes using **Cloud** Formation, **terraform** templates and Containerized the infrastructure using **Docker** setup in Vagrant, **AWS**, and Amazon VPCs. Worked on Networking (DNS, TCP/IP, HTTP, SSL), Support / Troubleshooting.
* Created **Ansible** with multiple modules as per component like Kafka, Zookeepers, **MySQL**, Logstash, HTTP collectors & Schema registry to configure **EC2** instances to create/update Kafka **cluster**. Worked with Site Reliability **Engineer** to implement **Data** dog system metrics, analytics.
* Built a deployment pipeline for deploying tagged versions of applications to **AWS** Beanstalk using **Jenkins** **CI**.
* Worked with **Agile** tools, Atlassian **Jira**, **Scrum** and Continuous delivery tools Nexus, Nexus Pro, Run deck, Mesos, Marathon.
* Used **Ansible** **server** to manage and configure nodes, Managed **Ansible** Playbooks with **Ansible** roles.
* Worked on **Jenkins**, GitHub, Artifactory and all internal build systems for the core development team on an enterprise-level **cloud** orchestration/automation tool. Created **Web** Apps (PaaS solutions) on **Azure** portal for deploying **web** applications using **Azure** **DevOps** pipelines
* Built **Jenkins** jobs to create **AWS** infrastructure from GitHub repos containing **Terraform** **code** and administered/engineered **Jenkins** for managing weekly builds. Migrated legacy applications to Microsoft **Azure** **Cloud** PaaS by setting up **CI**/**CD** pipelines in AzureDevOps
* Development of automation of **Kubernetes** clusters with Configuration management, writing playbooks. Deployed **code** on **Web** Logic Application **Servers** for UAT and Development environments. Providing documentation on Install, Upgrade release guides for application to documentation team.
* Used **JIRA** tool to create and update stories and for tracking project status.
* Worked with development/testing, deployment, systems/infrastructure and project teams to ensure continuous operation of build and test systems. Coordinate with Release Management regarding appropriate system releases among other development platforms.

**Polaris Inc. Medina, Minnesota**

**Build & Release/VMware Engineer**

**May 2015 – February 2018**

* Responsible for daily Build & Release of applications, writing automation **scripts**. Build of **Database** products & troubleshooting.
* Developed and implemented **Software** Release Management strategies for various applications according to the **agile** process. Installed, Configured and Administered Hudson/**Jenkins** Continuous Integration Tool. Worked on Managing the Private **Cloud** Environment using **Chef**.
* Developed build and deployment **scripts** using **ANT** and **MAVEN** as build tools in **Jenkins** to move from one environment to other environments.
* Developed automation framework for Application Deployments to the **cloud** environments. Defining the Complete Branching Strategy.
* Making daily night build & weekly Build for the product. Performed Branching, Tagging, Release Activities on Version Control Tools: SVN, **GIT**.
* Developed Perl and shell **scripts** for automation of the build and release process, developed Custom **Scripts** to monitor repositories, **Server** storage.
* Automated the **cloud** deployments using **chef**, python (Boto & fabric) and **AWS** **Cloud** Formation Templates. Used **Maven** as build tool on **Linux** projects for the development of build artifacts on the source **code**. Deployed the Python applications into **web** application **servers** like **JBoss**.
* Performed and deployed Builds for various Environments like QA, Integration, UAT and Productions Environments
* Used **JIRA** as ticket tracking and work flow tool. Created **JIRA** Support Project/**Agile** board to track support issues.
* Worked on configuring the **Jenkins** to use MetaCase **Software** to build **Linux** **code** and also to do the whole C.I process on the Python **code** generated by Meta Case. Experience in trouble shooting and automated deployment in house device panel. Building & Deploying Restful **Web** Services in **Cloud** Platform Pivotal. Develop build **scripts** using **Jenkins** as the build tool for creating Artifacts
* Perform manual builds to troubleshoot issues occurring from inconsistent codes on the different environments and email the team when the build and deployment is completed. Actively participate in production support to fix bugs in products environment.
* Completing **software** builds and elevations, creating directories and security groups, and recreating prior versions. Monitored **software**, hardware, and/or middleware updates and utilizing technologies like **Jenkins**/Hudson, MS Build, TFS Team Explorer, and SVN.
* Work with Project teams to create the documentation and training videos for testing team and support team on the application.
* Document all post-deployment issues in a log and assist in resolving these issues where applicable, maintaining timely updates within the log. Manual and Automation process of creating branches tags and **code** merging. Created **JIRA** Work flows for multiple projects as per business needs.
* Configurations, setup and building of interfaces and modifying the flow to give the opportunity for reusability, scalability and functionality.
* Troubleshoot and resolved Build failures due to infrastructure issues reduced by 95% stabilizing the build process. Setup and executed process to **code** review system effectively. Responsible for writing Python **Scripts** for Build & Release as and when necessary.
* Built **scripts** using **ANT** and **MAVEN** build tools in **Jenkins** to move from one environment to other environments. Configured **GIT** with **Jenkins** and schedule jobs using POLL SCM option. Deployed the applications to **Tomcat** Application **Server** and static content to apache **web** **servers**.
* Configured and maintained user accounts for development, QA, and production teams and created roles for **EC2**, RDS, S3, **Cloud** Watch, EBS resources to communicate with each other using IAM and performed S3 buckets creation, policies and on the IAM role base policies and customizing the JSON template.
* Used **Cloud** Watch for monitoring **AWS** **cloud** resources and the applications that deployed on **AWS** by creating new alarm, enable notification service.
* Experience in Technical and Functional side of the Team Foundation **Server** Components (Source Control, Work Items, TFS Builds, Reporting, SharePoint)
* Handled continuous integration with **Jenkins** by using various plugins like Global Build Stats, Multiple SCMs, Parameterized Trigger and Configuration Slicing to increase the productivity. Involve in release planning and executed the release build request from the project team through **JIRA** Ticket.
* Created **scripts** in Python to automate log rotation of multiple logs from **web** **servers**. Working with Python ORM Libraries including Django ORM to create **Web** applications. Setup SCM Polling for Immediate Builds with **Maven** and **Maven** Repository by installing **Jenkins** Plugins for **GIT** Repository.
* Configure continuous integration (**CI**) from source control, setting up build definition within Visual Studio Team Services (VSTS) and configure continuous delivery (**CD**) to automate the deployment of ASP.NET MVC applications to **Azure** **web** apps. Developed and tested many features for dashboard using Python. Work closely with development teams and architects to debug **software** and system problems and resolve the issues.
* Generated reports using **JIRA** for creating projects, assigning permissions to users and groups for the project and created mail handlers and notifications schemes for **JIRA**. Involved in the functional usage and deployment of applications in WebLogic, WebSphere, IIS and Apache **Tomcat** **Server**.
* Manage users and groups in Solaris **Linux** **servers** to create, modify and delete users/groups and troubleshooting user related issues and involved in Troubleshooting **Linux** Systems identifying Hardware, **software** (both OS and Application level) and networking issues.
* Written various **Docker**-Compose files in YAML to run multi-containers applications. Worked on **Docker** Version Manager to switch between **Docker** Clients. Worked on **Docker**, OpenShift to manage micro services for development and point team player on OpenShift for creating new projects, services for load balancing and adding them to routes to be accessible. Involved in setting up **Kubernetes** (k8s) to **cluster** & orchestrate **Docker** containers for running microservices by creating Pods. Took several microservices into production with **Kubernetes** backed Infrastructure.
* Build, manage and continuously improve the build infrastructure for global **software** development teams including implementation of build **scripts**, continuous integration infrastructure and deployment tools. Managed builds and made necessary changes to **Ant** build **scripts** for Java/ Websphere based applications. Created custom sized **EC2** instances, VPC, subnets, NAT, **ELB** and Security groups using **AWS** **Cloud** Formation templates
* Maintain build related **scripts** developed in **ANT**, **Maven**, Shell and Python. Created and modified build configuration files including **Ant**’s build.xml.
* Configuring Hudson for developers to bounce the application container, to get the application, container, and access logs by using **ANT** **scripts**.

**Commonwealth Credit Union, Frankfort, Kentucky**

**Unix/Linux Admin**

**June 2012 – April 2015**

* Involved in evaluating existing **server** and virtualization environments for needed and useful upgrade opportunities. Installed and configured of Kickstart and Jumpstart for **Red** **Hat** **Linux** 10 **servers**. Maintained and patched **servers**, printers, copiers, and fax machines.
* Routed in LAN/WAN, Ethernet Port, Patch Panel virtual networking, wire and wireless networks and configuration switches and routers of networks, TCP/IP, VPN, VLANs. Installed, monitored and managed several virtual hosts on **VMware** ESXi using the **software** vSphere client.
* Installation and configuration of **VMware** workstation on **Linux** platforms. Involved in automating builds and deployment process using **Linux** scripting.
* Created continuous integration system using SVN, **Ant**, **Jenkins**, **chef** full automation. Responsible for managing more than 600 **Linux** **servers** through virtualization. Managed Security, Backup, Disaster Recovery, Performance Monitoring and Fine-tuning on **Linux** (**RHEL**) systems.
* Administered RHEL4.x, 5.x, 6.x **servers** which include installation, testing, tuning, upgrading and loading patches, and troubleshooting virtual **server** issues. Installed VCenter **server** on a physical machine and made that system as a virtual **server** to connect and maintain several ESXi **servers**.
* Wrote **UNIX** shell **scripts** for provisioning **data** in the **database** like default announcements. Involved in designing of API's for the networking and **cloud** services. Vulnerability findings, **Server** Hardening, Troubleshoot Application on Nix OS. Edit **scripts** for job scheduling.
* Involved in complete Administration tasks on **Red** **Hat** **Linux** and documentation for the projects executed. Experience with **VMware** Virtualization using ESX 4.0, XEN and Virtual box hypervisor of vSphere. Wrote Shell Scripting to check security setting of the **server** and to change the **server** settings.
* Performed configuration of standard **Linux** and network protocols, such as SMTP, DHCP, DNS, LDAP, NFS, SMTP, HTTP, and SNMP.
* Responsible for installing, integrating, tuning and troubleshooting Apache, **Tomcat**, WebSphere and **Web** logic application **server**.
* Collaborate on monitoring and troubleshooting **Servers** using various third-party tools like **Nagios**. Troubleshooting tickets using BMC remedy. Developed bash shell **scripts** to automate routine activities. Worked on Applying patches, installed monitoring tools, and upgraded BIOS on HPC Clusters.
* Scheduled users to perform High Performance Computing activities on the **Linux** **cluster**. Created users and groups and assigned them appropriate quotas and ACLs as per company requirement. Experience managing and tuning **MySQL** and writing **SQL** **scripts**.
* Identified and solved any issues or errors. Installed and configured **Nagios** monitoring tool to manage infrastructure.
* Applied patches and supported **Linux** **Servers** with **Oracle** **Database** **servers**. Worked on Kernel tuning and Kernel patching.
* Monitored System Performance, Tuned and optimized systems for better performance. Managed Disk using LVM, resized disk space when required. Managed disk space from NetApp filers Setup NTP **server** and synchronized clients with NTP **server**.
* Troubleshoot application problems by diagnosing issues. Provided 24/7-support coverage, pager support and weekend support.
* Managed and administrated of all **UNIX** **servers**, includes **Linux** operating systems by applying relative patches and packages at regular maintenance periods using **Red** **Hat** **Satellite** **server**, YUM, RPM tools. Planned and performed the upgrades to **Linux** (**RHEL** 5x, 6x, SUSE10, 11, CENTOS 5, 6, operating systems and hardware maintenance like changing memory modules, replacing disk drives. Handling NFS, Auto Mount, DNS, LDAP related issues.
* Monitoring CPU, memory, physical disk, Hardware and **Software** RAID, multipath, file systems, network using the tools **NAGIOS** 4.0 monitoring.