**Azmath Ulla Baig Mirza Ph.no. 312-685-4358**

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**Summary**

* Around **10++ Years** of IT industry experience as **Linux**/**Unix** Systems Administration, **AWS** **Cloud** **Engineer**, **DevOps** automation **Engineer**. Worked extensively in many technical roles in **Linux** and **Windows** environments. Capable of quickly learning and delivering solutions as an individual and in a team Experienced with **Jenkins** as **Continuous Integration** / **Continuous Deployment** Tool.
* Expertise in improving build, **deployment** tools in **DevOps** through automation using scripting languages such as **JavaScript, Shell, Bash, Perl, JSON,** Ruby and **Python** etc. Experience in handle tasks in **Red** **Hat** **Linux** including **RPMS using YUM and LVM file system.**
* Exposure to Code Quality Analysis Techniques like Check styles, Find Bugs, PMD, Cobertura with CI tools like **Hudson**/**Jenkins**.
* Very good knowledge in **AWS** **Cloud** IaaS platform with features **EC2**, **VPC, ELB, Auto-Scaling**, **Security Groups, Route53, IAM, EBS, AMI, RDS, S3,** SNS, SQS, CloudWatch, CloudFormation, CloudFront, and Direct Connect. Extensively worked with Configuration Management tools like **Ansible**, **Chef** Extensive experience in setting up the **CI/CD** pipelines using **Jenkins**, **Maven**, Nexus, **GitHub**, **CHEF**, **Terraform** and **AWS**.
* Installed and configured an automated tool **Puppet** that included the installation and configuration of the **Puppet** master, agent nodes and an admin control workstation. Set up Alerting and monitoring using Stack driver in **GCP** and Chat boot **Engineer**.
* Using **Docker** to implement a high-level API to provide lightweight containers that run processes isolation.
* Experience in Designing, Architecting and implementing scalable **cloud**-based **web** applications using **AWS** and **GCP**.
* A **cloud** enthusiastic team player having experience as a **DevOps** **Engineer** with proven expertise in Automation, Build/Release Engineering and **Software** development involving **cloud** computing platforms like Amazon **Web** Services (**AWS**) , **Azure** and Google **Cloud**.
* Experience in writing **server**-side code for Google Platform (**GCP**) based applications, create robust high –volume production applications and develop prototypes quickly. Expertise in WAMP (**Windows**, **Apache**, MYSQL, and **Python**) and LAMP (**Linux**, **Apache**, MySQL, and **Python**)
* Experienced with **Web**/Enterprise Application **Deployment** Technology specifically including **Windows**, **Linux**/**Solaris**, **Apache**, **Tomcat**, **Jboss**, WebLogic, MS **SQL**, and **Oracle**. Worked on the Deployment, Configuration, Monitoring and Maintenance of OpenShift Container Platform.
* Expertise in migration and up gradation of WebLogic **Server** and updating JDK versions, applying patches and installing service packs for WebLogic **server**. On-board new applications into Dynatrace, profile configuration, agent setup, instrumentation.
* Experience in working with container-based deployments using **Docker**, **Docker** images, **Docker** file, **Docker** Hub, **Docker** Compose and **Docker** registries. Handled large volumes of container **clusters** with **Docker** swarm, **Kubernetes**.
* Experienced in configuring Volume Management by using Logical Volume Manager (LVM) in **Linux**, Veritas Volume Manager (VxVM), and **Solaris** Volume Manager (SVM) in **Solaris**. Successfully automated processes to support **continuous software** deployments.
* Excellent working knowledge in finding Memory Leaks and adjusting JVM Heap Size and Garbage Collector parameters during performance monitoring and performance tuning of WebLogic serve. Managed **Docker** orchestration and **Docker** containerization using **Kubernetes**.
* Set up a **GCP** Firewall rules in order to allow or deny traffic to and from the **VM**`s instances based on specified configuration and used **GCP** **cloud** CDN(content delivery network) to deliver content from **GCP** cache locations drastically improving user experience and latency.
* Hands on experience in **GCP** services like **EC2**, **S3, ELB,RDS,SQS, EBS,AMI,SNS,RDS,EBS,Cloud** **Watch**,, **Cloud** Trail, **Cloud** Formation **GCP** Config, Autoscaling, **Cloud** Front, IAM, R53. Diagnose, troubleshoot, and resolve Dynatrace issues.
* Experienced in installation, configuration, usage and management on **AWS** (Amazon **Web** Services), **Jenkins** and **GIT** for application **server**.
* Good understanding of Pivotal **Cloud** Foundry (PCF) Architecture (Diego Architecture), PCF components and their functionalities. Used Pivotal **Cloud** Foundry (PCF) CLI for deploying applications and other **Cloud** Foundry (CF) management activities.
* Experience in **Docker** Container, **Docker** Swarm for creating **Docker** images and handling multiple images primarily for middleware installations and domain configurations. Used **Kubernetes** to orchestrate the deployment, scaling, auto-scaling and management of **Docker** Containers.
* Experience in managing **Ansible** Playbooks with **Ansible** roles, group variables, inventory files, copy and remove files on remote systems using file module. Hands-on Experience in converting the **agile** process to the **DevOps** Framework.
* Involved heavily in setting up the **CI/CD** pipeline using **GitHub**, **Jenkins**, **Maven**, Nexus, **Chef**, CloudFormation and **AWS**.
* Experience in process automation from system administration tasks to **Continuous integration** and **Continuous Deployment** (**CI/CD**) with **Jenkins** build tools. Experience in **Linux** Administration (Installation, Configuration, Tuning and Upgrades of **Linux** (**Red** **Hat** and **Oracle**).
* Involved extensive work towards code compilation, packaging, building, debugging, automating, managing, tuning and deploying code across multiple environments and **Linux** Administration. Strong hands on Experience with scripting languages like **Python**, bash, Perl.
* Outstanding facility with load balancers, routers and switches and excellent knowledge of **database** installation and configuration principles. Familiarity with the **AWS** and Google **Cloud** Platform (**GCP**). Experience using **Terraform** for **Server** Provisioning.
* Extensive experience in Atlassian, ticketing and tracking tools like **JIRA**, REMEDY, ClearQuest, Redmine, Bugzilla for Production hotfixes and bugfixes. Sound knowledge in **Continuous Integration** systems such as **Jenkins**, Bamboo, and Team City.
* Expertise in deploying and configuring **Chef** **Server** including bootstrapping of **Chef** Client nodes for provisioning and creating roles, recipes, cookbooks, and Data Bags for **server** configuration. Knowledge of using Routed **Protocols: FTP, SSH, HTTP, TCP/IP, and HTTPS.**
* Responsible for Setup and build **AWS** infrastructure using resources VPC, **EC2**, **S3, RDS, Dynamo DB, IAM, EBS, Route53, SNS, SES, SQS, CloudWatch,** CloudTrail, Security Sound knowledge in Configuration management using **Chef** and **Ansible**.
* Deploy and Monitor scalable infrastructure on **AWS** and configuration management instances and Managed **servers** on the **AWS** platform using **Chef** Configuration management tools and Created instances in **AWS** as well as migrated data to **AWS** from On-premises data Center.
* Developed strategy for **Cloud** migration and implementation of best practices using **AWS** services like **database** migration service, **AWS** **server** migration service from On-Premises to **cloud**. Experienced with Handling **Cloud** environments (**AWS** and Google **Cloud** Platform)
* Implemented and maintained the monitoring and alerting of production and corporate **servers**/storage using **AWS** CloudWatch / **Splunk** and assigned **AWS** elastic Utilized **Kubernetes**, Team City and **Docker** for the runtime environment of the **CI/CD** system to build, test and deploy.
* Managed **AWS** infrastructure as code (IaaS) using **Terraform**. Expertise in writing new **python** scripts in order to support new functionality in **Terraform**. Provisioned the highly available **EC2** Instances using **Terraform** and **cloud** formation and Setting up the build and **deployment** automation for **Terraform** scripts using **Jenkins**. Developed background process infrastructure on top of **Windows** **Azure** Queue
* Worked on Google **cloud** platform (**GCP**) services like compute engine, **cloud** load balancing, **cloud** storage, **cloud** **SQL**, stack driver monitoring and **cloud** **deployment** manager. Experienced in writing Bash/Shell scripts for automating Back-ups and setting up CRON Jobs.
* Worked on GKE Topology Diagram including masters, slave, RBAC, helm, kubectl, ingress controllers GKE Diagram including masters, slave, RBAC, helm, kubectl, ingress controllers. Created projects, VPC's, Subnetwork's, GKE **Clusters** for environments QA3, QA9 and prod using **Terraform** Created projects, VPC's, Subnetwork's, GKE **Clusters** for environments. Extensive experience in using **Ansible** for managing deployments in large number of **servers**. Installed, configured and administered **Continuous Integration** tools such as **Hudson** and **Jenkins** for automated builds.
* Written Templates for **AWS** infrastructure as a code using **Terraform** to build staging and production environments.
* Worked on **Jenkins** file with multiple stages like checkout a branch, building the application, testing, pushing the image into GCR, Deploying to QA3, QA9, Acceptance testing and finally Deploying to Prod. Extensive experience in implementing **DevOps** tools and pipelines using **Jenkins**, Nexus Artifactory, TeamCity, **Chef**, **Puppet**, **Docker** and Packer etc. for **continuous integration** and delivery.
* Created **Docker** images using a **docker** file, worked on **Docker** container snapshots, removing images and managing **Docker** volumes and also virtualized **servers** in **Docker** as per QA and Dev-environment requirements and configured automation using **Docker** containers.
* Worked on **Docker**-Compose to create **Docker** containers for testing applications in the QA environment and automated the deployments, scaling and management of containerized applications. Experience in working on source control tools like Tortoise **SVN**, and **GIT**.
* Designed fully automated **server** build management, monitoring, and **deployment** by using **Ansible** playbooks using **Ansible** role created an **ELK** **cluster** for non-log purposes to search and analytics of product and pricing data. Developed build and **deployment** scripts using **MAVEN** as build tools in **Jenkins** to move from one environment to other environments and Supporting **Maven** multi-module builds and store artifacts in a remote repository in artifacts. Solid understanding of **Linux** Shell and Perl scripting, **UNIX**, **Windows**, build and release engineering principles.
* Experience **DevOps** **Engineer** with Technical expertise in the areas of **Deployment** management with over emphasis on Installation, Configuration, Management of **Linux** OS (**RHEL**, CentOS, Ubuntu, SUSE **Linux** 10.x/11/12), Amazon **Web** Services, **Windows** **Servers** in an **Agile** environment, and 3 Years of engineering the automation of OS in a **DevOps** environment such as (DEV, TEST, STAGE & PROD).
* Experience in System Administration, System Builds, **Server** builds, Installs, Upgrades, Patches, Migration, Troubleshooting, Security, Backup, Disaster Recovery, Performance Monitoring and Fine - tuning of **Red** **Hat** **Linux** Systems.
* Experience with working on various middleware, DB and Network technologies - **DNS, LDAP, FTP,** **Tomcat** & **Apache** HTTP **servers**.
* Experience in Working with infrastructure team support in installation, and configuration of CentOS 5.x/6.x/7, **RHEL** 5.x/6.x/7, **Red** **Hat** **Satellite** 6, **Windows** **Server** 2008/2012, and SUSE **Linux** 10.x/11. Expertise in working on source control tools like **GIT**, GitLab and BIT Bucket.
* Extensive experience using **Maven** and Gradle as build tool for the building of deployable artifacts (jar, war and ear) from source code.
* Administrating and supporting **Kubernetes** (AKS) infrastructure ensuring it is secure, resilient and performance and responsible for complete **Devops** activities. Experience in **DevOps** practices, **Azure**, **AWS**, **Terraform**, **Jenkins**, **Ansible**, **Docker** and **Kubernetes**.
* Implemented **cluster** services using **Docker** and AKS services to manage local deployments in **Kubernetes** by building a self-hosted **Kubernetes** **cluster**. Involved in designing and deploying a large application utilizing almost all the **AWS** stack (including IAM, **EC2**,S3, Route 53, ELB, RDS, Glue, Dynamo DB, SNS, SQS, EBS) focusing on high availability, fault tolerance.

***Technical Skills***

**Operating System :** Windows, Mac, Ubuntu, Linux (RedHat) VMware ESX, Hardware.

**Configuration Management :** Ansible, Chef, Puppet.

**Monitoring Tools :** Splunk, Nagios, ELK.

**Version Control Tools :** Git, GitHub, Bit Bucket, SVN, TFS.

**Programming languages :** Shell scripting, Unix Bourne shell, Korn shell, basic Perl, Python.

**Application Servers :** Apache Tomcat, WebLogic, WebSphere, Jboss.

**Cloud :** AWS, Microsoft Azure, Google Cloud Platform (GCP).

**Build Tools :** Maven, Ant, Docker, GIT.

**Continuous Integration Tools :** Hudson, Jenkins

**Web Tools :** JSP, PHP, XML, Spring Boot. Databases MYSQL, NOSQL.

**Databases :**MySql, MongoDB, Cassandra, PostgreSQL, SQL Server

***Education***

* Bachelor's in Engineering & Technology,JNTU University, India - 2012

***Work Experiences***

**Photronics, Inc,Brookfield, Connecticut**

**Sr. DevOps and Cloud Engineer**

**August 2020 to Current**

* Deployed **Cloud** services (PaaS role instances) and **Azure** IaaS Virtual machines (VMs) into secure subnets and VNets and designed Network Security Groups (NSGs) to control inbound and outbound access to network Interfaces (NICs), subnets and VMs.
* Provided high availability for IaaS VMs and PaaS role instances for access from other services in the VNet with **Azure** Internal Load Balancer.
* Handled migration of on-premises applications to **cloud** and created resources in **cloud** to enable this and expert in deploying of OpenStack on **Azure** platform and handling issues related to RDP of **Azure** Infrastructure. Migration Wizard and used **Python** API to upload agent logs into **Azure** blob storage. Worked on Google **Cloud** Platform(**GCP**) services like compute engine, **cloud** load balancing, **cloud** storage, **cloud** **SQL**
* Created and configured HTTP Triggers in the **Azure** Functions with Application insights for monitoring and performing load testing on the applications using the **Azure** **DevOps**. Involved on migrating **SQL** **Server** **databases** to **SQL** **Azure** **Database** using **SQL** **Azure**
* Hands-on experience with Amazon **Web** services (**AWS**) and implemented solutions using **EC2**, S3, and RDS in **cloud** formation JSON templates, EBS, Elastic Load Balancer, Auto Scaling Groups, Auto scaling Launch Configuration and Auto scaling Lifecycle Hooks.
* Worked on **Continuous** Delivery project, streamlining Dev workflow, integrating automated QE validation, and delivering standardized releases based on **Docker** to Operations for deployment. Configured and monitored multiple **servers** using Teamcity and **Chef**.
* Virtualized the **servers** using the **Docker** for the test environments and dev-environments needs. And, configuration automation using **Docker** containers. Implementing **Docker** based containers maintaining Micro services using **Docker**.
* Used **Kubernetes** as an open-source platform for automating deployment, scaling and operations of applications containers across **clusters** of hosts, providing container centric infrastructure. Developed startup and shutdown scripts for the WebLogic **servers**.
* Develop **CI/CD** system with **Jenkins** on Google **Kubernetes** container environment, utilizing **Kubernetes** and **Docker** for the runtime environment for the **CI/CD** system to build and test and deploy. Extensive experience with **Linux** environments like centos, **RHEL**, Ubuntu.
* Managed **Kubernetes** charts using Helm, and Created reproducible builds of the **Kubernetes** applications, managed **Kubernetes** manifest files and managed releases of Helm packages. Automated setting up **server** infrastructure for the **DevOps** services, using **Chef**, shell and **python** scripts.
* Extensively worked with version control systems like **GIT**, CVS, Perforce version, Subversion control systems.
* Developed **Python** career path through professional development while working on **Python** projects.
* Completely responsible for automated infrastructure provisioning (**Windows** and **Linux**) using **Chef** Scripts.
* Designed and implemented **Chef**, including the internal best practices, cookbooks, automated cookbook CI and CD system.
* Migrated application specific Parameter into **AWS** Parameter Store which provides highly secures hierarchical storage for configuration data management and secrets management. Worked on Configuration management tool **Chef**, Teamcity and **Docker** for **continuous** delivery.
* Created spec tests to test the **Ansible** code and to test all the parts of the code are working as expected.
* Experience with **Ansible** Tower to manage Multiple Nodes and Manage Inventory for different Environments. And also used **Ansible** to orchestrate **software** updates and verify functionality. Experience in architecting **Azure** IaaS, **Azure** Hybrid Identity, **Azure** Governance, **Azure** **web** jobs, **Azure** search. Create RunDeck jobs to integrate with our **Jenkins** CI process and call **Chef** on the **deployment servers**.
* Made use of **Jenkins** for **Chef** CI, Thor for versioning, Berkshelf for dependency management, and Test-Kitchen for testing and development.
* Set up a **GCP** Firewall rules in order to allow or deny traffic to and from the **VM**`s instances based based on specified configuration and used **GCP** **cloud** CDN (content delivery network) to deliver content from **GCP** cache locations drastically improving user experience and latency.
* Provide the permissions and required access to all the pub/sub topics (**GCP**) and sinks to push/write the data to Stack driver.
* Involved in the functional usage and **deployment** of applications in **Web** **Logic**, **Web** Sphere, IIS and **Apache** **Tomcat** **Server**. Experience in using **Tomcat** and **Apache** **web** **servers** for deployments and for hosting tools. Used Amazon **web** **servers** for **continuous** delivery systems.
* Prototype **CI/CD** system with GitLab on GKE utilizing **kubernetes** helm and **Docker** for the runtime environment for the **CI/CD** systems to build and test and deploy. Implemented **AWS** Code Pipeline and Created **Cloud** formation JSON templates in **Terraform** for infrastructure as code.
* Create custom log metrics using Stack driver logging (**GCP**) and create chats and alerts using the custom log metrics.
* Automate **Datadog** Dashboards with the stack through **Terraform** Scripts. Written **terraform** scripts for CloudWatch Alerts.
* Used **Kubernetes** to manage containerized applications using its nodes, Config Maps, selector, Services and deployed application containers as Pods. Provisioned load balancer, auto-scaling group and launch configuration for micro-services using **Ansible**.
* Worked with **Terraform** to create **AWS** components like **EC2**, IAM, VPC, ELB, Security groups.
* Good in Manage hosting plans for **Azure** Infrastructure, implementing & deploying workloads on **Azure** virtual machines (VMs), Design and implement **VM** storage & good understanding on Implementing images/disks.
* Worked on Configuration of Internal load balancer, load balanced sets and **Azure** Traffic manager.
* Hands on experience on Backup and restore **Azure** services. Designed and configured **Azure** Virtual Networks (VNets), subnets, **Azure** network settings, DHCP address blocks, DNS settings, security policies and routing. Defined **Chef** **Server** and Workstation to manage and configure nodes.
* Installed **Chef** **Server** Enterprise on premise/workstation/bootstrapped the nodes using knife and automated by testing **Chef** recipes/cookbooks with test-kitchen/**chef** spec. Automated the **cloud** deployments using **Chef** and **AWS** **Cloud** Formation Templates.
* Migrated a production infrastructure into an Amazon **Web** Services (**AWS**) utilizing **AWS** **Cloud** formation, Code Deploy, **Chef** and EBS.
* Extensively worked on creating zero down time build and deploy process for application using **Ansible**, **Jenkins** and **Terraform**.
* Created a **CI/CD** pipeline to deploy containerized applications using **Docker** in the **AWS** **cloud** for Dynamic scaling capabilities.
* Maintained high availability clustered and standalone **server** environments and refined automation components with scripting and configuration management using **Ansible**. Managed the configuration of **Web** App and Deployed to **AWS** **cloud** **server** through **Chef**.
* Create develop and test environments of different applications by provisioning **Kubernetes** **clusters** on **AWS** using **Docker**, **Ansible**, and **Terraform**. Responsible for creating **Jenkins** pipeline for **deployment** using **Ansible**.
* Created **Docker** containers leveraging existing **Linux** Containers and AMIs in addition to creating **Docker** containers. To achieve **Continuous** Delivery (CD) goal on high scalable environment, used **Docker** coupled with load balancing tool Nginx 1.5.9.
* Integrated **Terraform** with **Ansible**, Packer to create and Version the **AWS** Infrastructure. Created **Docker** images that handled **Tomcat** installation using major versions on the existing **Maven** - based image and tested these images.
* Adapted **web** application to run in **Windows** **Azure** against **SQL** **Azure** using **Azure** Queues for background processing.
* Designing reusable APIs and build repeatable templates for common functions by utilizing **Ansible**, **Chef**, **Terraform**, etc.
* Experience in Migration & **deployment** of Applications with upgrade version of Application & Hardware, MS build, batch script, IIS and **Jenkins** Administrator. Experience with configuration management automation tool **Ansible** and has worked on integrating **Ansible**
* Experience in several **AWS** services **EC2**, VPC, S3, **Cloud** **Watch**, Auto scaling configurations etc.
* Experience in using Build Automation tools and **Continuous Integration** concepts by using tools like **ANT**, **Jenkins**, Teamcity, Quick Build, **Docker**, Build forge and **Maven**. Worked in **SCM** tools - **Chef** and **Puppet** for **Deployment** on Multiple platforms.
* Inventoried and administered **Red** **Hat** Enterprise **Linux** (**RHEL**), FreeBSD, and **VMware** ESXi **servers**, writing several utilities to manage them simultaneously.

**MBIA Inc, Purchase, New York**

**Cloud Engineer**

**March 2018 to July 2020**

* Manage source control repository in Subversion- controlling and monitoring check-in's & create tags for builds. Involved in **Chef**-infra maintenance including backup/monitoring/security fix and on **Chef** **Server** backups. Implemented **Azure** APIM modules for public facing subscription-based authentication. Deployed **clusters** using Json template and power shell in **AZURE**.
* Helped setting up highly scalable, high performance **continuous** delivery pipeline for **AWS** ECS using **Jenkins**, **GitHub**, and **AWS** ECR.
* Helped navigating the tricky waters of **continuous deployment** using **Jenkins** build pipelines and **database** migrations to strive for zero downtime deployments. Lead for migration from on-premises to **Azure** **Cloud** and created customer images for **VM**’s.
* Proficient in integrating TFS with share point SSRS and project **server**. Handled **Azure** administration and **continuous** integration.
* Solving various .net application issues and providing various technical solutions for .net TFS and Microsoft IIS.
* Administrator of user accounts and managing their permissions, hands on experience on troubleshooting the connection issues of users with TFS.
* Configured **Jenkins** to implement nightly builds on daily basis and generated change log that includes changes happened from last 24 hours.
* Installed **Jenkins** and operated master and slave configuration to implement multiple parallel builds through a build farm. Extensively worked on **Jenkins** for **continuous integration** and for End to End automation for all build and deployments and managed artifacts generated by **Jenkins**.
* Played a key role in automating the deployments on **AWS** using **GitHub**, **Terraform**, **Puppet**, **Chef** and **Jenkins**.
* Installed and configured Cassandra **cluster** and CQL on the **cluster**. Involved in automating and implementing **Apache** Cassandra on all the nodes in the production. Worked in setting up Cassandra wide monitoring scripts and alerting system.
* Exposed Virtual machines and **cloud** services in the VNets to the Internet using **Azure** External Installed, configured, administered, monitored **Azure**, IAAS, PAAS and **Azure** AD. Used **Windows** **Azure** portal to manage Virtual Network and Traffic Manager.
* Supported and deployed network infrastructure in a multi-vendor environment including Cisco, 3Com routers, switches, and remote **servers**.
* Worked on **DevOps** essential tools like **Chef**, **Puppet**, **Ansible**, **Docker**, **Kubernetes**, Subversion. Created, managed, monitored **Web** site using **Windows** **Azure** portal admin. Have good knowledge in utilizing **Cloud** **software** like open stack and **Cloud** stack.
* Worked on container-based deployments using **Docker** and **cluster** management environment **Kubernetes**. Created **Docker** images using a **Docker** file, worked on **Docker** container snapshots, removing images and managing **Docker** volumes
* Experienced in all phases of the **software** development **life** **cycle** (**SDLC**) with specific focus on the build and release of quality **software**.
* Excellent experience in documenting and automating the build and release process using **GIT**, **Jenkins**, **Ansible**, and **Chef**.
* Involved in the functional usage and **deployment** of applications in **JBoss**, WebSphere and **Apache** **Tomcat** **Server**.
* Experience in working on version control systems like Subversion (**SVN**) and **GIT**, ClearCase, Stash used Source code management client tools like Visual **SVN**, Tortoise **SVN**, Stash, Source Tree, **Git** Bash, **GitHub**, **Git** GUI and other command line applications etc.
* Extensive experience includes **SCM**, Change/Incident Management, **VMware** and **AWS** **Cloud** computing.
* Responsible for design, implementation and success of **Terraform** Infrastructure as Code to migrate automation of very large
* Experienced in implementing **AWS** services like **S3, IAM, VPC, Route53, ELB, EBS, CloudFront, Glacier, CloudWatch, SQS, SNS, CloudTrail, RDS.**
* Experienced in assisting Application Teams across remote and local geographical locations as part of Support experience in creating complex IAM policies for delegated administration within **AWS**. Worked on setting up **life** **cycle** policies to back up the data from **AWS** S3 to **AWS** Glacier.
* Experienced in **Waterfall**, **Agile**/**Scrum**, Lean and most recently **Continuous Integration** (CI) and **Continuous Deployment** (CD) practices.
* Administration of **Red** **Hat** Enterprise **Linux** 6.x/7.x and CentOS includes installation, testing, tuning, upgrading, patching and troubleshooting day-to-day issues. Deployed Different kinds of **AWS** storage gateways for moving the on-prem data to **AWS** and utilize various services like S3, Glaciers, EBS volumes. Worked at optimizing volumes and **EC2** instances and created multiple VPC instances.
* Migrated on premise **database** to **AWS** **Cloud** and designed, built, and deployed a multitude of applications utilizing the **AWS** stack (Including **EC2**, R53, S3, RDS, SNS, and IAM), by focusing on high-availability, fault tolerance, and auto-scaling with OpsCode **chef** cookbooks and recipes. Used **Chef** to manage **Web** Applications, Config Files, **Data Base,** Commands, Users, Mount Points, and Packages.
* Defined **AWS** Security Groups, which acted as virtual firewalls that controlled the traffic allowed reaching one or more **AWS** **EC2** instances. Worked on Multiple **AWS** instances, set the security groups, Elastic Load Balancer and AMIs, auto scaling to design cost effective, fault tolerant and highly available systems. Developed **terraform** scripts to build, change and version infrastructure as code using **AWS** as provider and launch multi-tiered stack to be provisioned and configured with **terraform** scripts. Created, managed, monitored **VM** using **Windows** **Azure** portal admin.
* Configured the **Server** less architecture using **AWS** Lambda and worked on Application Migration and Data Migration from On-Premises to **AWS** **Cloud**. 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. Experience in administering and automation using **Puppet**, **Chef**, **Ansible** and Salt stack.
* Using Amazon **Web** Services (**AWS**) console and **AWS** CLI to launch and manage **VM**'s with Public/Private subnet and setup load balancing, security groups etc. Created **Cloud** Formation templates and deployed **AWS** resources like **EC2**, **Auto scaling, EBS, S3.**
* Installed, configured, and managed the **Ansible** Configuration Management Tool and manage the configurations of multiple **servers** using **Ansible**.
* Created and managed **Azure** AD tenants and configured application with **Azure** AD. Integrated on-premises **Windows** AD with **Azure** AD Integrating on-premises identity with **Azure** AD. Knowledge in configuring **Azure** API Management, Traffic Manager and Resource Manager
* Hands-on experience Administering Microsoft **Azure** services like **Azure** **Web** Application, App Services, **Azure** Storage, **Azure** **SQL** **Database**, Virtual Machines, Fabric Controller, **Azure** AD, **Azure** Search and Notification Hub. Created a **cloud** build environment with **continuous integration** with **GIT**. Experienced in writing scripts for creation of new snapshots and deletion of old snapshots in **S3 using S3 CLI tools.**
* Creating from scratch a new **continuous integration** stack for a **web** application based on **Docker** and **Jenkins**, allowing transition from dev stations to test **servers** easily and seamlessly. Deployed **Jenkins** for **CI/CD**, creating jobs with DSL plugin and automate the jobs using polling techniques. Experience in configuring and maintaining LAMP stack on production and staging **servers**.
* Involved in **continuous integration** and **continuous deployment** system with **Jenkins** on Google's **Kubernetes** container environment, utilizing **Kubernetes** and **Docker** for the runtime environment for the system to build and test and deploy.
* Involved in configuration of EMX XtremIO and provisioned storage to ESX and **RHEL** **servers** using XtremIO storage Management Application. Leveraged **Docker** Engine to run Multiple **Tomcat** Instances as Containerized App-**Servers**
* Worked on **web** **servers** like **Apache** and application **servers** like **Web** **logic**, **Tomcat**, WebSphere, **JBOSS** to deploy code and integrate with (CI) for End-to-End automation for all build and deployments. Experience in creating alarms and notifications for **EC2** instances using **Cloud** **Watch**
* Installed and set up **Nagios** monitoring system on a dedicated Amazon **EC2** **server**, developed several custom plugins for monitoring availability and performance of **AWS** **EC2** instances, integrating Pingdom checks, monitoring MySQL **databases** and results of execution of certain queries, etc.
* Managed and installed Monitoring Tools like **Nagios**, **Cloud** **Watch**, **Splunk** to monitor the log files, Network Monitoring, Log trace monitoring and the hard drive status. Utilized **continuous integration** and automated deployments with **Jenkins**, **Ansible** and **Docker**.
* Working Knowledge of Cisco UCS (Unified Computing System), created a Service Profile on UCS Blade and used it to Kickstart the **Server**. Actively participated and supported in the migration of production **servers** from old data center to New Data Center.

**Garmin Ltd.Olathe, Kansas**

**Devops & AWS Engineer**

**May 2015 to February 2018**

* Developed and implemented **Software** Release Management strategies for various applications according to the **agile** Implementing a **Continuous** Delivery framework using **Jenkins**, **CHEF**, **Maven**, Nexus in **Linux** environment. Done POC on **Kubernetes** and created **Kubernetes** **cluster**
* Create and maintain highly scalable and fault tolerant multi-tier **AWS** and **Azure** environments spanning across multiple availability zones using **Terraform** and CloudFormation. Used **python** scripts to update content in the data base and manipulate files.
* Used **Cloud** Front to deliver content from **AWS** edge locations to users, allowing for further reduction of load on front-end serve. Accountable for **AWS**/ Amazon **Cloud** **Watch** and other proprietary systems in **cloud** infrastructure. Automated **AWS** S3 data upload / download using **Python** scripts. Worked on installation of **Docker** using **Docker** toolbox and **Docker** Engine.
* Created **Python** and Bash tools to increase efficiency of application system. Developed tools using **Python**, Shell scripting, XML to automate some of the menial tasks. Interfacing with supervisors, artists, systems administrators and production to ensure production deadlines are met.
* Worked on multiple **DevOps** and **Cloud** tools that achieve KPIs. Coordinating with implementation team, to build and **engineer** services for **Linux** and **Windows** OS on **cloud** (**AWS** & **Azure**) platforms. Provisioned Instances, Storages & monitoring Services and **CI/CD** pipeline through **Jenkins**.
* Used **Ansible** /**Ansible** Tower as Configuration management, to automate repetitive tasks, quickly deploy critical applications, and proactively manages change and wrote **Python** Code using **Ansible** **Python** API to Automate **Cloud** **Deployment** Process.
* Implemented **Continuous Integration** by integrating with different tools like **Maven**, **GIT**, SonarQube, Nexus with **Jenkins**. Involved in Installing **Jenkins** on **Linux** environment and implemented master - slave configurations to run multiple build operations in parallel.
* Installed and configured an automated tool **Puppet** that included the installation and configuration of the **Puppet** master, agent nodes and an admin control workstation. Development of automation of **kubernetes** **cluster** with **ansible**, writing playbooks.
* Worked with **Docker** and **kubernetes** on multiple **cloud** providers, form helping developers build and containerize their application (**CI/CD**) to deploying either on public or private **cloud**. Installed, Configured and Administered **Hudson**/**Jenkins** **Continuous Integration** Tool.
* Responsible for Design and architecture of different Release Environments for new projects. Writing **Maven** and **Ant** build tools for application layer modules. Defining Release Process & Policy for projects early in **SDLC**. Worked on creating and deploying Microservices using **Docker**.
* Worked with **Docker** Management platform, leveraged Custom **Docker** Images as Containerized Apps with in the **Docker** Engine as Multi Stack Application like LAMP. **Deployment** automation and Job Orchestration tooling through **Python**, **Ansible**.
* Day to day activities like building and deploying code in different environments like DEV, SIT, UTA, Pre-Prod and Prod using **Jenkins**, **Docker**, **Kubernetes** and ARM, **CHEF** and **Ansible**. Implemented scheduled downtime for non-prod **servers** for optimizing **AWS** pricing.
* Automated deployments, scaling, and operations of application containers across **clusters** of hosts, provided container-centric infrastructure by **Kubernetes**. Used Composer, **Git** and Configuration Management to Push Changes from Development to Production. Used for faster **server** provisioning and configuration though Salt stack configuration management tool.
* Used **Docker** for packaging applications and designed the entire **cycle** of application development and used Virtualized Platforms for **Deployment** of containerization of multiple apps. Deployed **Docker** Engines in Virtualized platforms for containerization of multiple apps. Automated the build and **deployment** of middleware applications using UDeploy. Perform **Deployment** of Release to various QA & UAT in **Linux** environments.
* Deployed J2EE applications to WebSphere Application **Server** in an **agile** **continuous integration** environment and automated the process with scripts using **Ant** and **Maven** build tools in **Jenkins**, Sonar to move from one environment to other environments.
* Utilized **Jenkins** for enterprise scale infrastructure configuration and application deployments - checking out code from **Svn**/**Git** and use **Ant**/**Maven** to build War/Ear artifacts. Strong knowledge on Source Code Management concepts like Branches, Merges and Tags.
* Worked on creation of custom **Docker** container images, tagging and pushing the images to the repo **Docker** hub.
* Virtualized the **servers** using the **Docker** for the test environments and dev-environments needs. And also configuration automation using **Docker** containers. Implemented a **Continuous** Delivery pipeline plugin with **Docker**, and **GitHub** and **AWS**.
* Hands on experience in Subversion administration. Coordinating with Different Project teams on Build &release planning and efforts.
* **Integration** of Automated Build with **Deployment** Pipeline. Currently installed **Chef** **Server** and clients to pick up the Build from **Jenkins** repository and deploy in target environments (Integration, QA, and Production).
* Expertise in configuring **Azure** **DevOps** portal and repositories created for source code management, **Azure** pipelines configured for build operations, artifacts configured in **Azure** **DevOps** to store artifacts, and cards configured for daily scheduling, ticketing, and update.
* Creating the LVM, resizing the logical volume and volume group for adding the additional disk space as per the production changes
* Monitored and managed tickets for production and pre-production **servers** using the Rally ticketing service.
* Installed and designed different administrations like DNS, LDAP, DHCP, RPM, Send letters, **Apache** **Web** **Server**, **Web** **Logic**, NIS, SSH, **Tomcat**, Telnet, HTTP, HACMP, GPFS, SSL, NetApp, RPM Package Management and others.
* Completing programming constructs and rises, making catalogs and security gatherings, and reproducing earlier forms. Checked programming, equipment, and additionally middleware refreshes and using advancements like **Hudson**, **Ant**, MS Build, and Subversion.
* Excellent working background of **GIT** expanding/labeling, making new and overseeing existing Repository, Team Foundation Version Control. Made Build Jobs and Deployments in **Hudson**. Developed **Hudson** occupations to naturally oversee, test, and send code and applications

**Change Healthcare, Nashville, Tennessee**

**LINUX Administrator**

**June 2012 to April 2015**

* Worked with Blade Chassis Enclosure HP with BL460c, BL680c, and BL485c, BL420c **servers** for the establishment of **RHEL**, **OEL, CentOS 4.x, 5.x, 6.x,** 7.x and **VMware** **ESX 3.5 and 4.0, 5.0. 5.5 And 6.0.** Strong working information of Routers and Switches, VLAN, TCP/IP, VPN, OSI demonstrate,
* Extensively chipped away at BEA **Web** **Logic** 8i/9i **Server**, **JBoss** EAP 4.x/5.x/6.x **Server**, **Apache** HTTP and **Apache** **Tomcat** 6.x/7.x/8.x **Server** as an Administrator for **Server** Installations, Configuration, arrangement, Performance, tuning including investigating and upkeep.
* Managing frameworks routine reinforcement, planning employments like handicapping and empowering cron occupations, empowering framework logging, arrange logging of **servers** for support, execution tuning, testing. Performances, CPU and Memory monitoring of **Red** **Hat** Enterprise **Linux**.
* Installed **Red** **hat** enterprise **Linux** (**RHEL** 6). Configuration and troubleshooting for **Red** **Hat** **Linux**, Package installation and installation through YUM. Created cron jobs for updating the users in groups for each **server** and for cleaning the disk space weekly.
* Managed company DNS **servers** such as adding new domains, creating new A, PTR, CNAME entries, replication, etc.
* Performed **server** maintenance including applying patches, checking **server** logs, directory security. IP bonding for balancing load and fail over, Firewall, SELINUX. Hosting **web** pages using **Apache** (httpd) **web** **server** and ssl..
* Performed OS establishments, OS Upgrades, and **Server** Patching by designing PXE and DHCP **server** utilizing Kickstart Configuration and by utilizing **Red** **Hat** **Satellite** **server**. Troubleshooting the system with the assistance of net detail, ping, nslookup and follow course devices.
* Responsible for designing and association with SSH through SSH customers like Putty Remotely adapting records utilizing SFTP, FTP, SCP, WinScp, and FileZilla. Configuration and administration of LDAP, NFS, FTP, SAMBA and POSTFIX **Servers** in **Red** **Hat** Enterprise **Linux**.
* Worked with **Database** managers to tune part for **Oracle** establishments.
* Administrated perforce and made clients and give access to them considering their parts. Composed shell and **Python** contents to take programmed reinforcement consistently. Installed, updated and oversaw bundles by means of RPM and YUM bundle administration.
* Designed, and sent **VMware** View VDI work area bolster for inward and outside end -clients. Environment: **Red** **hat** **Linux** 5/6.x, TCP/IP, **UNIX**/**LINUX**, Oracle10g, Kernel, **Windows**, TCP/IP, **GIT**, **Hudson**, Java, **Ant**, WebLogic **Server** 11g, RAID, Shell, **Python**, **Web** Sphere, Load Balancers, WLST, **Apache** **Tomcat** 5.5.