**Faizan Ghaffar Ph.no** **(214) 903-4851**

**Sr. DevOps/AWS/Azure Engineer Email:** **faizanghaffar.devops@gmail.com**

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**EDUCATION**

* Bachelor’s in software engineering from Richland College Dallas Texas - 2018

**SKILLS**

**Configuration management Tools :** **Ansible**, **Chef**, **puppet**

**Continuous integration Tools :** **Jenkins**, Bamboo, Team city, Servlet container, Glassfish, **Apache** **Tomcat**, JBoss, Jetty, WebLogic, IBM WebSphere

**Version control tools :** **Git**, Subversion **SVN**, Bitbucket, TFS, CVS.

**Cloud Technologies : AWS** (all **AWS** core services), **GCP**, Rackspace, OpenStack, **Azure**

**Application Servers :** Oracle WebLogic, **Tomcat**, WAS

**Build Tools :** **Maven**, Ant

**Virtualization Tools :** Oracle virtual box, VMware, Hyper-V

**Containerization services : Docker**, EC2 Container (**AWS**)

**Monitoring tools :** **Nagios**, CloudWatch, ELK (Elasticsearch, Logstash, Kibana), Splunk, **JIRA**.

**Programming Languages :** Python, Yaml, **Shell**, script

**Databases :** Oracle, IBM DB2, MYSQL, SQL Server 2008

**Networking :** TCP/IP, DNS, NFS, NIS, LDAP, SSH, SSL, SFTP, SMTP, SNMP, VPC(**AWS**)

**Operating System : Linux**, Windows, iOS Mac

**SUMMARY:**

* Around **7 years** of experience in IT industry as a **DevOps** Engineer/ **Linux** System Administrator with responsibilities comprising of Development, Systems Administration and Software Configuration Management (SCM). Good working Knowledge in **Clouds, OpenShift and RedHat.**
* Hands-on experience on **AWS** and its infrastructure including EC2, AMI, ECS, Elastic Cache, Elastic Search, RDS, VPC implementation, **IAM, KMS,** WAF, **Cloud** Trail, **Cloud** Watch, S3, **Cloud** Front, CLI **scripting**, ELB, Route 53, Lambda, Dynamo DB, Elastic Beanstalk, SQS, SNS and Security group management Developed tools to automate manual tasks using **shell** **scripting**, Python and integrated them in **CI/CD** pipeline through **Jenkins** Experienced on Red Hat Satellite Server with custom repositories to provide a stable management solution for the **Linux** environment..
* Hands on experience of Build & Deployment phase and usage of Continuous Integration (**CI/CD**) tools, build configuration, change history for releases, Maintenance of build system, automation & smoke test processes, managing, configuring, and maintaining source control management systems. Installed Red Hat Satellite server and Capsule server for managing **servers** in different domain.
* Wrote **Ansible** Playbooks with Python to manage Configurations of nodes and Tested Playbooks on instances using Python and documented all infrastructures and application dependencies into **Git** repo using **Ansible** Install and update OS packages/patches using YUM and Red Hat Satellite
* Extensively worked on **Jenkins** for continuous integration and for End to End automation for all build and deployments. I was created **Jenkins** Pipelines using Groovy script to automate the process to deploy. Experienced in pivotal **cloud** Foundry and OpenStack for continuous automated deployment. Wrote **puppet** manifests for deploying, configuring and managing collected for metric collection and monitoring.
* Designed, Architected and implemented the Platform as a service built for multi-tenant platform within the Hybrid **cloud** infrastructure within **AWS** and **GCP**. Created Terraform **scripts** to launch the platform common services like **CI/CD** tool **Jenkins**, Secrets management tool Vault.
* Monitored and managed the **cloud** infrastructure within **AWS** and Google **cloud** infrastructure and configured the **AWS** DNS to route the traffic between **AWS** and **GCP** configured each tenant on the platform. Experience in **Shell** **scripting** using sh, ksh, bash and PERL.
* Worked extensively on building and maintaining clusters managed by Kubernetes, **Linux**, Bash, **GIT**, **Docker**, on **GCP** (Google **Cloud** Platform).
* Setup the private **Docker** registry using the Nginx and Jfrog Artifactory, managed major architecture changes from single server large software system to a distributed system with **Docker** and **Kubernetes** orchestration. Responsible for installing **Kubernetes** and deploying application on containers in Kubernetes. Organized different infrastructure resources like physical machines, VMs and even containers using Terraform.
* Experience with **Chef** Enterprise and hosted as well as on premise. Installed Workstation, Bootstrapped Nodes, Wrote Recipes, and Cookbooks and uploaded them to **Chef**-server. Achieved **CI/CD** Pipeline by using the **GitHub**, **Jenkins**, Artifactory, and **Ansible** Playbooks.
* In-depth understanding of the principles and best practices of Software Configuration Management (SCM) processes, which include Compiling, Packaging, Deploying and Application configurations. Integration and Continuous Deployment (**CI/CD**) in **AWS**, **DevOps** for Continuous
* Experience setting up **Azure** Migrate and ASR **servers** using OVF templates in the Skilled enough to build deployment, build **scripts** and automated solutions using **scripting** languages such as **Shell**, Python, Ruby, Perl etc. Strong experience in Automating **Azure** resources Manager templates.
* Installed and managed the configuration of middleware tools such as **Apache**, **Tomcat**, JBOSS GA7/ EAP6, WebSphere Application Server 7.x/8. x.
* Built and managed a large deployment of Red Hat **Linux** instances systems with Terraform Automation and provision virtual **servers** using vagrant and kitchen in Oracle VM virtual box, provisioned **servers** in Amazon EC2.
* Setup and Configured Red Hat Satellite and Foreman/Kickstart **Servers** for Red Hat Enterprise **Linux**/CentOS 5/6/7 installs, maintain repositories and leveraging **Ansible** for patching cycle across all environments (DEV, STAGE, and PROD) both on-prem
* Good knowledge on managing **cloud** providers for **Amazon Web Services** like **EC2, S3 bucket, ELB, Auto-Scaling, AMI, IAM through Console.** Written **Shell** **scripts** to create users on multiple **servers**. Performed Root password recovery in the **Linux** **servers**.
* Experience in providing highly available and fault tolerant applications utilizing orchestration technologies like **Kubernetes** and **Apache** Mesos on Google **Cloud** Platform (**GCP**).Experience in Package Management using Red Hat RPM/YUM and Red Hat Satellite server.
* Experience in creating **DevOps** strategy in a combination of mixed environments of **Linux** with creating and implementing a **cloud** strategy based on Amazon Web Services. Experience is using **Tomcat**, JBOSS, Web Logic and WebSphere Application **servers** for deployments.
* Worked in infrastructure team on Installation, Configuration, Upgrading, Support, and Maintenance of various **Linux** flavors like Red Hat **Linux** 8/9, RHEL 5.x/6.x/7, CentOS 5.x/6.x/7, Debian, Ubuntu, and **UNIX** flavors like Sun Solaris, and Windows **Servers**.
* Extensively worked on **Jenkins**, Udeploy, AnthillPro, **Docker**, Team City and Build forge for continuous integration and for End to End automation for all build and deployments. Extensively worked on **DevOps** essential tools, like **Jenkins**, **Bamboo**, **AWS** Code Pipeline for Continuous
* Experience in **AWS** **Cloud** platform and its features which includes **EC2, VPC, EBS, AMI, SNS, RDS**, **Cloud** Watch, Autoscaling, **Cloud** Front, IAM, S3. Experience in **Ansible** playbooks for virtual instance provisioning, configuration management, patching and software deployment.
* Experience in **Cloud** Administrator on Microsoft **Azure**, involved in configuring virtual machines, storage accounts, resource groups, Function applications, application insights, Service Bus, VM scale set with custom script, App service deployment and **Azure** SQL server.
* Experience in Converting existing **AWS** Infrastructure to Server less architecture (**AWS** **Lambda**, **Kinesis**), deploying via **Terraform** and **AWS** **Cloud** Formation templates. Built S3 buckets & managed policies for S3 buckets and used S3 bucket & Glacier for storage and backup on **AWS**.
* Supported, configured, troubleshoot, and maintained multiple server environments like Windows and **Linux** (Ubuntu, CentOS, RHEL (Red Hat Enterprise **Linux**)). Installed, upgraded and configured **Linux**/**Unix** systems (Red Hat **Linux** 4.x, 5.x, and 6.x) using Kick start **Servers**.
* Management, and **Docker**, Kubernetes, **AWS** Elastic Container Services (ECS), **Kubernetes** Services (AKS), Helm for Containers and Container Orchestration, and Splunk, Prometheus, **Nagios**, **Cloud** Orchestrating **CI/CD** processes. **CI/CD** tools Dockerized and infrastructure setup in Vagrant and VPCs. Deployed **Azure** IaaS virtual machines (VMs) and **Cloud** services (PaaS role instances) into secure VNets and subnets.
* Watch for monitoring the Environment, and New Relic, Grafana, Elastic Search for Analytics and Visualization, and **Jira** for Collaboration and bug tracking and reporting, and **Maven**, Ant for Build Management, and **Git**, **SVN** for Version Controlling, and most of the **Cloud** Resources available in **AWS** clouds. Transformed traditional environment to virtualized environments with **AWS**-EC2, **Docker**, Vagrant and VMware.
* Hands-on experience in **Ansible**  as Configuration management tool to automate repetitive tasks, quickly deploy critical applications and proactively manage change. Experience on Power **Shell** **scripts** to automate the **Azure** **cloud** system creation including end-to-end infrastructure, VMs, storage, firewall rules. Integration and Continuous Deployment (**CI/CD**), and Terra form, **Ansible**, **Puppet** for Configuration
* Had hands-on experience in Configuring, automation and maintaining build and deployment **Docker** registry/daemon, Nexus and **JIRA** for Multi-Environment (Local/POC/NON-PROD/PROD) with high degrees of standardization for both infrastructure and application stack automation in **AWS** **cloud** platform.. Experience in system monitoring with **Nagios**, CloudWatch, ELK (Elasticsearch, Logstash, Kibana), Splunk, **JIRA**.
* Implementing new projects builds framework using build tools like **MAVEN** and ANT for the building of deployable artifacts (jar, war & ear) from source code. Wrote **UNIX** **shell** **scripts** for automated installations, to extract logs using C, Bash, Perl and Python.
* Worked in installing Firmware Upgrades, Installations, administration, kernel patches, upgrade, configuration, performance tuning, troubleshooting, and backup and Recovery of **Unix**/**Linux** systems. Experienced in setting up **CI/CD** pipelines using **Jenkins** and building the art factories.
* Experience in developing **scripts** in Ruby, Bash, Perl, **Shell**, and Python, to automate the process involved in administrative tasks and management using CRON. Installing and applying security policies on Red Hat **Linux** for hardening the server based on the company's policy.
* Experience in **DevOps** - Build and Release Engineer includes automating, building, deploying, managing and releasing of code from one environment to other, tightly maintaining Continuous Integration, Continuous Delivery and Continuous Deployment in multiple environments like (DEVEL/ TEST/STAGE & PROD).Managing DNS, LDAP, FTP, **Apache** **Tomcat** /MySQL/PHP web **servers** on **Linux** **servers**.
* Experience in implementation, maintenance and configuration of **Apache** Http, SMTP, DHCP, NFS, NIS, NIS+, LDAP, DNS, SAMBA, SQUID, Postfix, send mail, FTP, Remote Access, Security Management & Security trouble shooting.
* Worked with **Ansible** Playbooks for virtual and physical instance provisioning, Configuration management, patching, and software deployment.· Good experience in automating **CI** and **CD** pipelines. Used Ticketing & Project Management tools like **Jira**, Team Foundation Server in **DevOps**, Service Now, and HPQC. Extensively worked on Hudson, **Jenkins** for **CI** and for End-to-End automation for all build and deployments.
* Experience in using **Ansible** to setup Continuous Delivery Pipeline. Deployed micro services, including provisioning **AWS** environments Strong knowledge on source controller concepts like Branches, Merges and Tags. Expertise in working with Bug Tracking Tool like **JIRA**.
* Had experience in Writing Terraform modules to provision VMs and physical machines and Wrote **Jenkins** jobs to tie **Ansible** and Terraform together to provide a smoother deployment process for Operations. Knowledgeable on **scripting** languages as Python hands on experienced.
* Creating fully automated **CI** build and deployment infrastructure and processes for projects Using **Docker**, VMware, RHEL, Satellite, Open Stack, Kubernetes, Artifactory, &GitLab Installed and Managed user accounts, security, rights, disk space and process monitoring in Red Hat **Linux**..
* Expertise in Amazon **Cloud** Services and its features (VPC, EBS, AMI, snapshots, Auto scaling, **Cloud** Formation, Lambda, SES, SQS, SNS, RDS, ELB, EBS, **Cloud** Watch, S3 etc.).Expert level knowledge on **Cloud** Integration of **Maven**/Nexus, **Jenkins**, **Git**, Confluence, **JIRA** and **Cloud** Foundry.
* Handled operations and maintenance support for **AWS** **cloud** resources which includes launching, maintaining and troubleshooting EC2 instances, S3 buckets, Virtual Private Clouds (VPC), Elastic Load Balancers (ELB) and Relational Database Services (RDS).
* Automated the infrastructure using terraform and making it audible by storing all the infrastructure changes in a version control system like **GIT**.
* Experience in designing end to end automation of infrastructure and continuous delivery of the applications by integrating **cloud** formation **scripts**, **Jenkins** and **Chef** Cookbooks and recipes. Experienced in setting up Amazon EC2 instances, virtual private **cloud** (VPCs), and security groups.
* Developed **Puppet** modules to automate deployment, configuration and lifecycle management of key clusters.

**WORK EXPERIENCE**

**U.S. Eagle Federal Credit, Albuquerque, New Mexico**

**Sr. DevOps/AWS/Azure Engineer**

**November 2021 to Present**

* Configured Centralized log collection using Fluentd, Logstash, Elastic search and Kibana (ELK) stack for parsing common web server, app server logs, Syslog for intrusion detection. Automated applications and MySQL container deployment in **Docker** using Python and monitor them using **Nagios**.
* Virtualized **servers** in **Docker** as per test environments and Dev-environments requirements and configured automation using **Docker** containers.
* Responsible for MongoDB installation, configuration and administration. Also ensured connection to RDS database is running on MySQL engines.
* Designed and implemented by configuring Topics in new Kafka cluster in all environment. Successfully secured the Kafka cluster with Kerberos
* Implemented Kafka Security Features using SSL and without Kerberos. Further with more grain-fines Security I set up Kerberos to have users and groups this will enable more advanced security features. Imported and managed multiple corporate applications into Tortoise **SVN**.
* Working on migrating legacy, on premise applications on various **cloud** platforms like **Azure**, Open Shift. Experience in dealing with Windows **Azure** IaaS - Virtual Networks, Virtual Machines, **Cloud** Services, Resource Groups, Express Route, Traffic Manager, VPN, Load Balancing, Application Gateways, and Auto-Scaling. Template **AWS** infrastructure as a code using Terraform to build staging and production environments.
* Expertise in migrating the existing v1 (Classic) **Azure** infrastructure into v2 (ARM), **scripting** and templating the whole end to end process as much as possible so that it is customizable for each area being migrated. Created **AWS** Route53 to route traffic between different regions.
* Collaborating with development teams to enhance deployment processes by implementing Continuous Integration and Continuous Delivery (CI/CD). Implemented and maintained the continuous integration and deployment systems using Jenkins, Maven, Nexus, Ansible and Rundeck.
* Expertise in **Azure** infrastructure management (**Azure** Web Roles, Worker Roles, SQL **Azure**, **Azure** Storage, **Azure** AD Licenses).
* Experience in architecting **Azure** IaaS, **Azure** Hybrid Identity, **Azure** Governance, **Azure** web jobs, **Azure** search.
* Involved in designing and deploying multitude applications utilizing almost all of the **AWS** stack (Including EC2, Route53, S3, RDS, Dynamo DB, SNS, SQS, IAM) focusing on high-availability, fault tolerance, and auto-scaling. Created and wrote **Azure** Resource Manager Templates in JSONeditor.
* Managing **AWS** infrastructure and automation with CLI and API. Working on Inbound and Outbound services with automation **CHEF**. Deployed multiple resources simultaneously, using CloudFormation templates in **AWS**. Experience in deploying using **Docker** Container.
* Created and design the Terraform templates to create custom sized VPC, NAT subnets, for deployment of Web applications and databases. Created **Shell** and Python **Scripts** to automate creation of AMI's through pre-boot and bootstrapping techniques.
* Worked on creation and managing IT infrastructure and application stack using **AWS** **Cloud** Formation and writing the template file using JSON.
* Handled migration of on premises applications to **cloud** and created resources in **cloud** to enable this. Used all critical **AWS** tools, used ELBs and Auto-Scaling policies for scalability, elasticity, and availability. Configured **AWS** IAM and security group in VPC (Public and Private Subnets) using **Chef**. Used Splunk to monitor the system logs as well as notify the incident management system upon exceeding thresholds.
* Experience in migrating on premise to Windows **Azure** using **Azure** Site Recovery and **Azure** backups. Experienced in authoring and building **Azure** Logic apps, Logic App integration, Publishing and monitoring Logic Apps and Logic App diagnostics. Managed the configurations of multiple **servers** using **Ansible**. Experienced on creating and managing **Azure** Virtual Machines, **Cloud** Services and Storages by using **Azure** Power-**shell** **scripting**. Involved in the implementation of analysis, optimization, troubleshooting and documentation of LAN/ WAN networking systems.
* Automated the build and release process by using **shell** **scripting**, **Maven** and **Jenkins** in non- production environments and managed the team's source repository through **SVN**. Experienced developing web applications with a Dynamo DB, Mongo DB, Elastic Search or similar data store.
* Working with broad range of **AWS** **Cloud** Services like EC2, ELB, Glacier, **Cloud** Front, Code Deploy, Elastic Beanstalk, Auto Scaling, Route53, AMI, SNS, SQS, DynamoDB, Elastic search and CloudWatch and have in depth practical knowledge on other **cloud** services.
* Created Python **scripts** to automate **AWS** S3 data upload/download and control instance operations with **AWS** API Development of automation using **Kubernetes** clusters with **Ansible**, writing playbooks. Managed **Chef** Cookbooks, recipes, nodes, environments and data bags with Knife.
* Built **Jenkins** jobs to create **AWS** infrastructure from **GitHub** repos containing Terraform code and integrated SonarQube with **Jenkins** for Continuous code quality inspection Provided end-users training for all Tortoise **SVN**, **JIRA**, and Terraforms users to effectively use the tool.
* Worked on with build tools such as **Maven**, Gradle, and Bazel used **Git** for revision control; Gerrit for code review. Created & maintained cookbooks and recipes in **Chef**, playbooks in **Ansible** for continuous deployment of resource Involved in developing the **Azure** Solution and Services like IaaS and PaaS. Build server deployment on **Cloud** (EC2) **servers** with help of **DevOps** tools like **Puppet**.
* Utilized agile software development methodologies including pair programming, continuous integration, and scrum events.
* Worked on and run agile projects for a **DevOps** team to help deliver critical functionality to a **cloud**- based service. Developed and performed unit testing using JUnit framework in a Test-Driven environment (TDD) Worked with **Docker** for convenient environment setup on Test environments on **Linux**. Used **Kubernetes** to deploy scale, load balance, scale and manage **docker** containers with multiple names spaced versions.
* Good experience in developing web applications implementing MVT/**MVC** architecture using Django, Flask, Webapp2 and **spring** web application frameworks. Experience on creating **Azure** VM, **Cloud** services and Storages by using **Azure** Power-**shell** Script.
* Automated various infrastructure activities like Continuous Deployment, Application Server setup using **Ansible** playbooks and has Integrated **Ansible** with **Jenkins**. Refined automation components with **scripting** and configuration management (**Ansible**). Created **scripts** for system administration and **AWS** using languages such as BASH and Python. Used SQL queries to check the data integrity on an Oracle database.
* Application Version Management in **Git**-Lab repositories and migrating source code from **Git**-lab to Artifactory.
* Applied **AWS** Solutions such as EC2, Lambda, AMI, Elastic Load Balancing and **Cloud** Watch. Environment: **AWS**, Office 365, Mendix, Flask, **Ansible**, **Chef**, **Docker**, Kubernetes, Nexus, **Git**, Bash, Python, HTTP web server, Polarion Developed automation **scripting** in Rubyin, **Puppet**, **Chef** to deploy and manage across **Linux** **servers** **GIT** mirror implementation for **SVN** repository, enabling users to work on **GIT** and **SVN** simultaneously. Writing **Chef** Recipes for automating tasks and managed **Chef** to configure Web Apps and deploy them on **AWS** server.
* Direct and establish the team in creating product as an artificial intelligence (AI) native application to provide service to the insurance and financial verticals on the ServiceNow platform Built **Jenkins** jobs to create **AWS** infrastructure from **GitHub** repos containing terraform code.
* Drafted and executed Perl, Bash & **Maven** **scripts** in QA, Staging and Production environments. Modified build configuration files including POM.xml. Experienced in using Splunk- DB connect for real-time data integration between Splunk Enterprise and rest all other databases.
* Responsible for installation & configuration of **Jenkins** to support various **Linux** builds and **Jenkins** plugins to automate continuous builds.
* Used **Ansible** Python Script to generate inventory and push the deployment to **AWS** Instances. Written multiple manifests and also customized facts for efficient management of the **Ansible** clients. Created deployment tickets using **Jira** for build deployment in production.
* Interfaced with system infrastructure, deployment and project teams to ensure continuous operation of build and test systems and assisted in incident management for **Unix** **Servers**. Used **Chef** Server and workstation to manage and configure node, recipes and cookbooks.
* Installed and configured SCM tools, **Chef** on AmazonEC2.Created alarms, monitored & collected log files on **AWS** resources using CloudWatch on EC2 instance which generates Simple Notification Service (SNS). Designing, optimizing, and executing Splunk-based enterprise solutions.
* Involved in implementing **Ansible** configuration management and maintaining them in several environments on **AWS** **cloud** and VMware
* Worked on multiple **AWS** instances like Elastic Load Balancer (ELB), AIML,Security groups, and AMIs, Autoscaling to design cost effective strategies.
* Setup managed and scaled Amazon Elastic Search cluster and used Logstash along with Kibana (ELK Stack), to analyze the logs and found out the outages and issues. Experience in creating, managing, and utilizing S3 buckets and Glacier for archival storage and backup on **AWS**.
* Instituted configuration and systems management via **Ansible**, inventoried and standardized system configurations and package installations trained other team members in the use of **Git** and **Ansible**. Worked on integrated **JIRA** with subversion and Jerkins to automate the weekly build process.
* Worked with development, QA, and Automation engineers to research, design, and develop test automation units.
* Experience in Implementation of **MVC** architecture using **Spring** **MVC** and SOAP web service and SOAPUI and Creating data pipelines using **Apache** Spark, a big-data processing and computing framework. Using **Jenkins** **AWS** Code Deploy plugin to deploy and **Chef** for unattended bootstrapping in **AWS**. Involved in editing the existing ANT/**MAVEN** files in case of errors or changes in the project requirements.
* Worked in the **DevOps** team, delivered new agile environments & build/release/configuration and deployment automation/monitoring using **Jenkins**, ant, **maven**, antifactory, **chef**, custom **scripting** and **Jira** for ticketing. **Jenkins** is used as a continuous integration tool for automation of daily process. Implemented continuous delivery framework using **Jenkins**, **Puppet**, **Chef**, and **Maven** on multiple environments.
* Involved with continuous integration system with **GIT** version control repository and continually build as the check-in's come from the developer.
* Managed datasets using Panda data frames and MySQL, queried MYSQL database queries from python using Python-MySQL connector and MySQL dB package to retrieve information. Developed the project in **Linux** environment and Used Agile Methodology and SCRUM Process.
* Worked on creating documents in Mongo database and maintained the versions using **GIT** and sending the release notes for each release.

**Environment: AWS, S3, EC2, Lambda, CloudFront, IAM, VPC, RDS, Windows R2 Servers, Linux, GIT, Maven, Chef, Elasticsearch, Logstash and Kibana, Microsoft Azure, Docker, Jenkins, PowerShell, Python, Ruby, Perl, Bash, Nagios, JIRA, DynamoDB, MongoDB.**

**Cirrus Logic Inc, Austin, Texas**

**DevOps Cloud engineer**

**June 2019 to October 2021**

* Experience in Amazon **Cloud** Formation **scripts** to orchestrate the end to end infrastructure for disaster recovery, cost saving and patching purposes. Utilized **AWS** Lambda to run without using **servers** and to prompt to run code using S3 and SNS.
* Helped in migration the existing MYSQL and ORACLE databases to the **cloud** using Database Migration service and schema conversion.
* Created **Docker** images using a **Docker** file, worked on **Docker** container snapshots, removing images and managing **Docker** volumes. Expertise in setting up **Docker** Host, **Docker** Registry, RHEL/ Centos Atomic Host, **Docker** images (Centos, RHEL and **Ubuntu** instances).
* Implemented Lambda functions to run **scripts** in response to event in Amazon Dynamo DB table or S3 bucket or to HTTP requests using Amazon API Gateway. Monitoring the **Azure** infrastructure utilization and optimizing/reclamation
* Developed Open Stack API to integrate with Amazon EC2 **cloud**-based architecture in **AWS**, including creating machine Images
* Creating **Cloud** Formation **scripts** for hosting software on **cloud** and automating the installation of software through PowerShell **scripts**.
* Experience as **DevOps** Engineer for project teams that involved different development teams and multiple simultaneous software releases.
* Working on Continuous Integration/Continuous Delivery (**CI/CD**), Test Driven Development (TDD) and Agile methodologies.
* Built **servers** using Amazon Web Services  by importing volumes, launching EC2, RDS, S3, IAM, Route53, VPC, Code deploy creating security groups, auto- scaling, lambda, ELBs in the defined virtual private connection.
* Launched Amazon EC2 **Cloud** Instances using Amazon Images ( **Linux**/ Red Hat) and Configuring launched instances with respect to specific applications. Creation of Build &Release Plan, collection, analysis & presentation of Project Metrics on weekly basis.
* Creating Amazon EC2 instances using command line calls and troubleshoot the most common problems with instances and monitor the health of Amazon EC2 instances and other **AWS** services. Developed PowerShell, Python and **Linux** **scripts** for **Chef** to build end to end automations
* Involved in supporting **cloud** instances running **Linux** and Windows on **AWS**, experience with Elastic IP, Security Groups and Virtual Private **Cloud** in **AWS**. Monitored the server's performance, CPU Utilization, disk usage etc. by creating alarms in CloudWatch service.
* Worked on google **cloud** platform (**GCP**) services like compute engine, **cloud** load balancing, **cloud** storage, **cloud** SQL, stack driver monitoring and **cloud** deployment manager. Continuous Integration implemented and promoted use of Bamboo within the developer community.
* Setup **GCP** Firewall rules to allow or deny traffic to and from the VM's instances based on specified configuration and used **GCP** **cloud** CDN (content delivery network) to deliver content from **GCP** cache locations drastically improving user experience and latency.
* Worked on GKE Topology Diagram including masters, slave, RBAC, helm, kubectl, ingress controllers GKE Diagram including masters, slave, RBAC, helm, kubectl, ingress controllers Involved in Setup and Configuration of **Puppet** Configuration Management. Experience in Microsoft **Azure** **Cloud** Computing development and support. Moderate and contribute to the support forums (specific to **Azure** Networking, **Azure** Virtual Machines, **Azure** Active Directory, **Azure** Storage).
* Experience in using **Cloud** Infrastructure management and Implementation Working experience on various **Azure** services like Compute (Web Roles, Worker Roles), **Azure** Websites, Caching, SQL **Azure**, NoSQL, Storage, Network services, **Azure** Active Directory, Scheduling, Auto Scaling, and Power **Shell** Automation. Used **Ansible** Tower for scheduling playbooks and used Bit bucket to store our playbooks.
* Bamboo plan creations and tasks configuring with automatic bamboo deployments Setup **maven** archive internal repository and maintaining local repositories on Build agents. Responsible for large- scale **Chef** Implementation and maintenance, **Chef** Cookbook's creation, testing and implementation. Used Splunk to monitor the system logs as well as notify the incident management system upon exceeding thresholds.
* Developed build using **MAVEN** as build tools and used **CI** tools to kick off the builds move from one environment to other environments.
* Coordinate/assist developers with establishing and applying appropriate branching, labeling/naming Designing and implementing for fully automated server build management, monitoring and deployment By Using **DevOps** Technologies like **Chef**, **Puppet**.
* Create **Puppet** manifests and modules to automate system operations. Created monitors, alarms and notifications for EC2 hosts using CloudWatch.Developed automation and deployment utilities using Bash, Python and **Shell**. Used **Docker** to containerized Micro services in **cloud** and managed clusters using **Docker** Swarm and Kubernetes. Developed Private **cloud** system solution on CoreOS using Kubernetes..Used **Shell**/ Python **scripts** to automate the deployment process.
* Coordinated software application and database deployments across several environments and provided feedback and training to other full-time release engineering staff for production releases during off hours. Experience fixing the release issues which are raised during the deployment.
* Created monitors, alarms, and notifications for EC2 hosts using **Cloud** Watch, creating automated build and release environment using **CI/CD** Tools like **Jenkins** Route 53. Good working experience in **Azure** Logic apps, service Bus, Document DB and SQL Database.
* Extensive working experience with different SDLC methodologies such as Agile and Waterfall with an ability to be creative and to take self-initiatives to execute/manage multiple projects in parallel during time critical situations.
* Deployed **Azure** IaaS Virtual Machines (VM’s) and PaaS role instances (**Cloud** Services) into secure VNet’s and subnets, designed VNet’s and Subscriptions to confirm to **Azure** Network Limits. By using **Docker** Swarm clustered the **Docker** containers into a single virtual **docker** engine.
* Extensive experience on configuring Amazon EC2, Amazon S3, Amazon Elastic Load Balancing IAM and Security Groups in Public and Private Subnets in VPC and other services in the **AWS** Managed network security using Load balancer, Auto-scaling, Security groups and NACL.
* Utilized **AWS** CLI to automate backups of ephemeral data-stores to S3 buckets, EBS and create nightly AMIs for mission critical production **servers** as backups. Build release of **Cloud** based products containing **Linux** and Windows environments, using Python **Scripting** and PERL.
* Maintained and developed **Docker** images for a tech stack including Cassandra, Kafka, **Apache**, and several in house written Java services running in Google **Cloud** Platform (**GCP**) on **Kubernetes**. Experienced in working on **Scripting** languages Python, Ruby,**Shell**, Bash.
* Extensively used Google stack driver for monitoring the logs of both GKE and **GCP** instances and configured alerts from Stack driver for some scenarios. Worked in environment, instrumental in utilizing Compute Services (EC2, ELB), Storage Services (S3, Glacier, Block Storage)
* Installed and configured an automated tool **Puppet** that included the installation and configuration of the **Puppet** master, agent nodes and an admin control workstation. Developed and implemented Software Release Management strategies for various applications according to the agile process.
* Initiated Micro services application through **Docker** and **Kubernetes** cluster formation for scalability of the application, and creation of **Docker** images. Deployed all API's on **Docker** containers. Implemented a centralized logging system using log stash configured as an ELK stack (Elastic search, Log stash, and Kibana) to monitor system logs, , VPC Flow Logs, **Cloud** Trail Events, changes in S3 etc.
* Deployed and configured **CHEF** Server and **CHEF** Solo including bootstrapping of **CHEF** client nodes for provisioning; Created roles, cookbooks, recipes, and data bags for server configuration, Deployment and app stack build outs.
* Administered **Docker** swarm mode using CLI for natively managing clusters of **Docker** engines and deploy application services to swarm.

**Environment: AWS, Jenkins, GCP, OpenShift, Puppet, Chef, Docker Python, Ruby, Linux, Unix, Apache Tomcat**

**Nexidia, Atlanta, Georgia**

**Devops Engineer**

**September 2017 to May 2019**

* Develop installer **scripts** using Ant, Python, **Unix** for various products to be hosted on Application **Servers** Troubleshoot Build and Deploy Issues, with little downtime. Create and maintain AD environment management documentation on as as-necessary basis.
* Perform Active Directory Services administration and management to include design, cleanup and routine maintenance and configuration.
* Organize and Co-ordinate Product Releases, work closely with product development, QA, Support across global locations to ensure successful releases Implemented rapid-provisioning and life-cycle management for **Ubuntu Linux** using, **Chef** and custom Ruby/Bash **scripts**
* Written Lambda functions in Python for **AWS** Lambda, Kinesis, and Elastic Search, which invokes python and Bash **Shell** **scripts** to perform various transformations and analytics on large data sets in EMS clusters. Worked on Managing the Private **Cloud** Environment using **Chef**.
* Configured and maintained **Jenkins** to implement the Continuous Integration (**CI**) process and integrated the tool with **Maven** to schedule the builds and store Artifacts. Assist and guide application integration into Directory service including LDAP and service account management.
* Manages to use ANT and **MAVEN** as a build tool on **Linux** projects for the development of build artifacts on the source code like **GitHub** and Subversion (**SVN**). Migrated on-premises **CI/CD** environment to **GCP**-based deployment at a point-of-sale technology client.
* Responsible for knowledge transfer (KT) and on-boarding support for the different Developer teams on Bit bucket, Bamboo, Crucible, **Jira**, and MS Build. Utilized Bit bucket, Bamboo, and Crucible and integrated with **Jira** and Confluence. Dockized applications by creating **Docker** images from **Docker** file. Experience on config mgmt. & infrastructure automation tools like **Ansible**, **Chef**, SaltStack, CF Engine etc.
* Also developed **CI/CD** pipeline with **Jenkins** on Google's **Kubernetes** container environment, utilizing **Kubernetes** and **Docker** for the runtime environment for the **CI/CD** system to build, test, and deploy. Planning, deploying, monitoring and maintaining Amazon **AWS** **cloud** APM
* Used security groups, network ACLs, Internet Gateways, NAT instances and Route tables to ensure a secure zone for organizations in **AWS** public **cloud**. Developed web pages using **spring** framework (**Spring** **MVC**, **Spring** Core, **Spring** AOP) and Struts Document release metrics, software configuration process. Automated the local dev environment using Vagrant/**chef**-solo.
* Implemented services that would route messages to different JMS queues based on message properties. These messages would be picked up by the appropriate ESB service which would in turn call the third-party partner web services  Installed and configured SaltStack for auto-provisioning the **Linux** machines on **AWS**. Created User defined types to store specialized data structures in Cassandra
* Installed and configured code rules, keys of Sonar for code analysis and created of Sonar Qube dashboards for different team members based on their roles to monitor the progress of project source code. Evaluated Mesos/Marathon for **Docker** container orchestration
* Led "Continuous Delivery" project, streamlining Dev workflow, integrating automated QE validation, and delivering standardized releases based on **Docker** to Operations for deployment. Created data-models for customer data using the Cassandra Query Language
* Implemented a **GIT** mirror for **SVN** repository which enables users to use both **GIT** and **SVN**. Experimented with **Docker**, by using **Docker**-compose implemented a Continuous Delivery pipeline with Kubernetes, Microservices, **Jenkins** & **GitHub**, **Maven**, **Ansible**.
* Developed build and deployment **scripts** using ANT and **MAVEN** as build tools in **Jenkins** to move from one environment to other environments.
* Involved in building own Paas with **Docker** deployed various applications through **Dockers** containers. Develop Custom **Scripts** to monitor repositories, Server storage Automated the **cloud** deployments using **chef**, python (boto & fabric) and **AWS** **Cloud** Formation Templates.
* Developed procedures to unify streamline and automate applications development and deployment procedures with **Linux** container technology using **Docker** swarm. Working with **DevOps** practices using **AWS**, Elastic Bean stalk and **Docker** with Kubernetes.
* Run **Jenkins** on-top of **Kubernetes** to drive all automation with web-hooks tied into our **Git** system. Written python **scripts** to containerize **Dockers** and orchestrate it using Kubernetes. Developed automation framework for Application Deployments to the **cloud** environments
* Virtualized the **servers** using the **Docker** for the test environments and dev-environments needs and configuration automation using **Docker** containers.  Implemented a Continuous Delivery pipeline with **Docker**, and **GitHub** and **AWS**  Provide stable build environments for product development Implemented multi-tier application provisioning in OpenStack **cloud**, integrating it with **Chef**
* Deployed Applications into PROD & Pre-Prod environments with various Application server technologies like WebLogic, JBOSS& **Apache** **Tomcat**.
* Managed and optimize the Continuous Delivery tools like **Jenkins** Install, Configure, Administer Hudson/**Jenkins** Continuous Integration Tool
* Automate Continuous Build and Deploy **Scripts** for Hudson/**Jenkins** Continuous Integration tool Branching, Tagging, Release Activities on Version Control Tools: **SVN**, **GIT** Member of the Technical Design team, Build and Release Module for Development of new products.

**Environment: Java, Eclipse, Toad, Git, Tomcat, Apache, Sonar, Ansible, Oracle 12c, Jenkins,Marathon, Python, Ruby Chef, JIRA, Maven, Art factory, Ubuntu, CentOS, Linux, AWS, AWS Cloud Formation Templates, AWS RDS, AWS Cloud Watch, Spock, Ruby, Chef-solo/server**

**Epic Systems Corporation, Madison, Wisconsin**

**Linux administrator**

**February 2016 to August 2017**

* Worked on daily basis for **Linux** server maintenance and support to developer's team for their issues with application, tuning, troubleshooting, and software running. Applied patches every quarter regularly to meet audit requirements using Red Hat Satellite server, YUM, RPM tools.
* Installing operating systems, patches, hardware, vendor software packages, system customization and documentation of all departmental **UNIX**, PC-based workstations and Terminal. Configured and Installed SAMBA Server in **Linux** for accessing the shared files from the windows environment.
* Configured auto mounts/maps for the user accounts and over networks. Creation of Logical Volume Manager (LVM) for **Linux** operating systems.
* Install and configure Ubuntu, Centos on remote **servers** and Desktop **servers**. Installed and configured **Apache**/ **Tomcat** web server.
* Extensive use of Korn **shell**, Bash for **scripting**. OS upgrades and installation of third party software, packages and patches as per requirement.
* Installation, administration of VIO Server and VIO client LPAR's, Upgrading VIO **Servers** and **AIX** **Servers**, Upgrading **AIX** TL from **AIX** 5.3 TL8 to **AIX** 5.3 TL9 and from 5.4 to 6.1. Responsible for configuring and connection to SSH through SSH clients like Putty and Cyber duck.
* Administration of multiple **AIX** machines, **AIX** clusters, and SP nodes from any client platform through WebSM, implemented PLM (Partition Load Manager) on **AIX** 5.3.Good LVM skills, using LVM created VGs, LVs then crated file systems and disk mirroring.
* User Administration duties such as user account management, managing passwords setting up quotas and support, changing user attributes. Setup and configured network TCP/IP at all levels on **Linux** **servers**. . Creation and administration of Virtual Machines using VMware and virtual box.
* Worked with object oriented software development methodologies and practices across all phases of the Software Development Lifecycle.
* Worked on **Unix**/**Linux** user's creation, file/dir. level permissions, sudo permissions.  Worked on Updating/patching **Linux** **Servers** with latest rpm packages. Created and modified users and groups with SUDO permission. Responsible for setting up Cron jobs **scripts** on production **servers**.
* Involved in the installation, monitoring and support of **Unix** based **servers**, firewalls, Cisco networks, perimeter security technologies, Internet technologies and remote office WAN/ LAN connectivity.  Extensively Worked on **Apache** webservers and **Nagios**.

**Environment: RHEL 5.x/6.x, Apache 2.2.x, SuSE EL 9/10, WebLogic 10/11g, WebLogic 8.x/9.x, HP C BladeSystem, BL460c, BL420c EMC, Switches, Oracle, Veritas Storage Foundation 5, Active Directory, Veritas Cluster Server 5.1, VMware.**