**Kazi Shihab**

**Sr. AWS Devops Engineer**

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**Summary**

* Over 10+ Years of professional work experience as **Linux Admin**, **Build & Release/DevOps Engineer** with **AWS Cloud** platform experience with mentoring skills and good understanding of the principles. Experienced in **Continuous Integration, Continuous Deployment/Delivery integration pipelines.**
* Experienced with Interpreted languages including Perl and Python Understands Compiled languages including **C, C++, C#, Dot Net** and **JAVA**.
* Strong use of **Shell** scripting languages including BASH for **Linux** and Mac platforms and Power**Shell**for Windows systems.
* Facility with development methodologies including**Waterfall, Scrum, Kanban, Agile, and hybrid**. Excellent configuration management utilizing **Puppet**, **Chef** and **Ansible** Manage **Amazon**Redshift clusters such as launching the cluster and specifying the node type as well.
* Experienced in Configuration Management, **Cloud** Infrastructure, and Automation utilizing **Amazon Web Services** (**AWS**), Ant, **Maven**, **Jenkins**, **Chef**, SVN, **Git**, **GitHub**, Clear Case and Tomcat. Developed Python modules to automate processes in **AWS** (**AWS** **Cloud** Formation)
* Expertise in installing, configuring and managing Web Logic, Apache, **VMWare** **Server** in clustered environments for High Availability, Load balancing and fault tolerant. Transfer **data** from Datacenters to **cloud** using **AWS** Import/Export Snowball service.
* Setup and build **AWS** infrastructure various resources like **VPC, EC2, RDB, S3, IAM, EBS, Security Group, Auto Scaling, SES, SNS and RDS** in **Cloud** Formation JSON templates. Experienced in designing and distribution of **Data** across all the nodes and Clusters on different availability zones in **AWS** Redshift. Implemented Micro-services using Pivotal **Cloud** **Foundry** (**PCF**) platform build upon **Spring Boot Services.**
* Used **Amazon** Route53 to manage DNS zones and also give public DNS names to elastic load balancers IP's and **AWS** **Beanstalk** for deploying and scaling web applications and services Strong expertise in designing **Micro** **Services** bases solutions utilizing **Cloud**-**Native** **Architecture**.
* Expertise in **Amazon AWS** **Cloud** Administration which includes services like **EC2, S3, EBS, VPC, ELB, AMI, SNS, RDS, IAM, Route 53, Auto scaling,** **Cloud** Front, **Cloud** Watch, **Cloud** Trail, **Cloud** Formation, OPS Work, Security Groups, etc. Experienced in setting up TERRAFORM continuous build **integration** system Deployed and monitored scalable infrastructure on **Amazon Web Services** (**AWS**) & configuration management using **Puppet**.
* Designed highly available, cost effective and fault - tolerant systems using multiple EC2 instances, Auto Scaling, Elastic Load Balance and AMIs and Glacier for QA and UAT environments as well as infrastructure servers for **GIT** and **Chef**. Experienced in architecting and managing **AWS** **cloud** infrastructure.
* Build security utilities and tools for internal use that enables Engineers to operate at high speed and wide scale. Expertise in Application Deployments & Environment configuration using **Chef**, **Puppet**. Expertise in writing Automation **scripts** in Selenium using C Sharp, Dot NET, and **Java**.
* Extensive experience in **Linux**/**Unix** system Administration, System Builds, **Server** Builds, Installations, Upgrades, Patches, Migration, Trouble shooting on **RHEL** **4.x/5.x** Experience in **Querying RDBMS such as Oracle, DB2,** **MY SQL and SQL Server by using SQL for data integrity.**
* Good knowledge of **AWS** **services** like **Glacier, ELB (Load Balancers), RDS, SNS, SWF, and IAM** and hands on experience on **Amazon Web Services** (**AWS**) provision. Knowledge in using ANT and **MAVEN** as build tools on **java** projects for the development of build artifacts on the source **code**.
* Extensive experience in **Server** infrastructure development on **AWS** **Cloud** by using **AWS** services like **EC2, ECS, EBS, ELB, Lambda, S3, RDS, Glacier, DynamoDB, VPC, Route53, CloudWatch, CloudFormation, IAM,** Certificate Manager, SNS and Auto Scaling in a scalable production environment.
* Extensively worked on **CI** tools like **Jenkins**, Hudson, Team City, and Bamboo for **continuous** **integration** and for end-to-end automated build and deployments. Experience in logging, monitoring and maintaining application/servers using tools such as **Nagios**, Zabbix, and **Splunk**.
* Strong Experience in implementing **Data** Warehouse solutions in **AWS** Redshift Worked on various projects to migrate **data** from on-premise databases to **AWS** Redshift, RDS and S3. Good experience working with container orchestration tools Apache Mesos, Marathon, and **Kubernetes**.
* Hands-on Experience of the **J2EE Framework** and its components as related to **Java** build, test, deployment and release management initiatives.
* Skilled at **AWS** **Cloud** platform and its features which include **EC2, VPC, EBS, AMI, SNS, RDS**, **Cloud** **Watch, Route53, Auto Scaling, Security Groups, Redshift,** and **Cloud** **Formation**. Configured **DOCKER** Containers for Branching purpose and deployed using Elastic Beanstalk.
* Exposed to all aspects of the software development life cycle (SDLC) which includes Analysis, Planning, Developing, Testing and Implementing and Post-production analysis of the projects. Involved in migrating version management systems from CVS to SVN, SVN to CVS, and SVN to **GIT**.
* Experience working on **Docker** hub, creating **Docker** images and handling multiple images primarily for middleware installations and domain configuration. Experience in configuration and implementation of Elastic Search and Kibana. Maintained ElasticSearch, Logstash, Kibana.
* Experienced in migrating on-premises applications, **DevOps** platform to **Azure** **DevOps** **CI/CD** processes by utilizing ARM templates, **Azure** CLI, App services like Repos, Pipelines, Web Apps, Power **Shell** and to monitor applications with Application Insights.
* Proficient in administrating **Azure** IaaS, SaaS and PaaS services **Azure** Virtual Machines, Virtual Network, Blob storage, Application Services, Resource Groups, AKS, Express Route, Traffic Manager, Load Balancers, Application Gateways, Auto-Scaling, deploying Web Apps, monitoring by **Azure** Application Insights. Customized reports in **JIRA** for different teams to represent Agile board project statuses and key metrics.
* Deployed application which is containerized using **Docker** onto a **Kubernetes** cluster which is managed by **Amazon** Elastic Container Service for **Kubernetes** (EKS). Configured ‘Kubectl’ to interact with **Kubernetes** infrastructure and used **AWS** **Cloud** Formation Templates (CFT) to launch a cluster of worker nodes on **Amazon** EC2 instances. Build Apache Kafka multi node Cluster and used Kafka Manager to monitor multiple Clusters.
* Worked on designing, maintaining and deploying various applications using various **AWS** **cloud** services EC2, Route 53, S3, EKS, VPC, Auto scaling and Elastic Load Balancing, **Cloud** Front, **Cloud** Formation, **Cloud** Trail, Elastic Cache, **Cloud** Watch, Redshift, Lambda, API Gateway, Directory services, Cognito, SQS, SNS, Dynamo DB, Elastic search, Elastic Beanstalk. Administrator and Architect of **Cloud** platforms(**AWS**)
* Experienced in managingEC2 instances by creating AMIs and performing administration and monitoring of **Amazon** instances using **Amazon Cloud** Watch. Enforced best security practices to secure containerized environment using Seccomp, Se **Linux**, and security features of **Kubernetes**.
* Experienced in using IAM which was used to maintain the user credentials and involved in creating custom IAM policies to various groups defined within the organization. Experience in setting up Nginx Ingress controller to manage the ingress/egress routing rules for **Kubernetes**.
* Experienced in working extensively with Scheduling, deploying, managing container replicas onto a node using **Kubernetes** and experienced in creating **Kubernetes** clusters with Helm charts running on the same cluster resources. Setup and managed light weight **Kubernetes** K3s for self-healing and high availability. Experienced in designing and deploying custom **JIRA** Exporter for Prometheus to generate appropriate **data** points.
* Experienced in providing solutions on new technologies based on the proof of concepts to deploy on **Kubernetes** cluster for edge/IOT environment.
* Managed **Kubernetes** deployments, objects for high availability and scalability using horizontal pod scaler and resources management.
* Created development and test environments for different micro services by provisioning **Kubernetes** clusters using **Docker**, **Ansible**, and Terraform.
* Experienced in creating Terraform modules to manage configurations, applications, services and setup infrastructure in **AWS**/**Azure**.
* Proficiency in using **Docker** Hub, **Docker** Engine, **Docker** images, **Docker** Weave, **Docker** Compose, **Docker** Swarm, and **Docker** Registry and used containerization to make applications platform when moved into different environments.
* Experience in using **Jenkins** and in creating various build and deployment jobs to build various branches, deploy tasks to development **server** or QA **server** or Staging/Production **server**. Experienced in automating **CI** /**CD** pipeline with **Code** Pipeline, **Jenkins** and **Code** Deploy.
* Hands on experience working on **Azure** SaaS offerings like App Services, Web Apps, and SQLdatabase etc.
* Extensive experience in setting up **CI/CD** pipelines using tools such as **Jenkins**, **Maven**, **Docker**, Nexus, and Artifactory, Slack and **Azure** pipelines.
* Expertise in delivering Agile projects from end-to-end **CI/CD** by **integration** of tools like **Jenkins**, **Chef** and **AWS** for VM provisioning. Integrated **Jenkins** with **Docker** container using **Cloud** bees **Docker** pipeline plugin and provisioned the EC2 instance using EC2 plugin. Implemented **CI** build and deployments using **Jenkins** and Octopus Deployment. Strong experience in migrating applications to both **AWS** and **Azure** **Cloud** platforms.
* Setting up **AWS** and Microsoft **Azure** with Databricks, Databricks Workspace for Business Analytics, Manage Clusters in Databricks, Managing the Machine Learning Lifecycle. Worked with the development team to deploy new libraries with Micro Services Architecture using REST APIs & Spring Boot.
* Built DRI’s interactive website - using ASP.Net - that permitted users to enter a specific set of criteria for retrieving **data** and send their queries to the underlying database on the web **server**. Utilized ASP.NET, VB.NET, AJAX, and Microsoft Visual Studio 2005 for development.
* Experience in installing, configuring & managing monitoring tools **Splunk**, **Nagios** for Resource Monitoring/Network Monitoring/Log Trace Monitoring and **Cloud** Watch and ELK to monitor OS metrics, **server** health checks, file system usage etc. Experience in load balancing and monitoring with **Nagios**.
* Experience in **Azure** Development and worked on **Azure** web application, App services, **Azure** storage, **Azure** **SQL** Database, **Azure** Virtual Machines, **Azure** AD, **Azure** search, **Azure** DNS, **Azure** VPN, Gateway, and Notification Hub. Configured Elastic Load Balancers with EC2 Auto Scaling groups.
* Good experience **Azure** platform development, deployment concepts, hosted **cloud** services, platform service and close interface with Windows **Azure** Multi-Factor Authentications. Experience in Private **Cloud** and Hybrid **Cloud** configurations, patterns, and practices in Windows **Azure** and **SQL** **Azure** and in **Azure** web and database deployments. Installing, configuring and administering **Jenkins** **CI** tool on **Linux** machines.
* Experience in Infrastructure Development and Operations involving **AWS** **Cloud** Services, EC2, EBS, VPC, RDS, SES, ELB, Auto scaling, CloudFront, **Cloud** Formation, Elastic Cache, API Gateway, Route 53, **Cloud** Watch, SNS. Experience in using configuration management tools like **Puppet**.
* Expertise in building **CI/CD** on **AWS** environment using **AWS** **Code** Commit, **Code** Build, **Code** Deploy and **Code** Pipeline and experience in using **AWS** CloudFormation, API Gateway, and **AWS** Lambda in automation and securing the infrastructure on **AWS**.
* Extensively worked on architecting Serverless design using **AWS** API, Lambda,S3 and Dynamo DB with optimized design with Auto scaling performance.
* Experience in changing over existing **AWS** infrastructure to Serverless architecture (**AWS** Lambda, **AWS** Kinesis) through the creation of a Serverless Architecture using **AWS** Lambda, API gateway, Route 53, S3 buckets. Experience in creating **Amazon** EC2 instances and setting up security groups.
* Experience in **Kubernetes** to deploy scale, load balance, and manage **Docker** containers with multiple names spaced versions using Helm charts.
* Experience in managed **Kubernetes** services such as Google **Kubernetes** engine (GKE), **AZURE** **Kubernetes** and **AWS** Elastic container service.
* 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. Creating snapshots and **Amazon** machine images (AMIs) of the instances for backup and creating clone instances.
* Proficiency in using **Docker** Hub, **Docker** Engine, **Docker** images, **Docker** Weave, **Docker** Compose, **Docker** Swarm, and **Docker** Registry and used containerization to make applications platform when moved into different environments.
* Proficient in creating **Docker** images using **Docker** File, worked on **Docker** container snapshots, removing images, and managing **Docker** volumes and implemented **Docker** automation solution for **CI/CD** model Optimized volumes and EC2 instances & Created multi AZ VPC instances.

**Technical Skills**

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| **Operating Systems** | **Red** **Hat** **Linux** 8/7.x/6.x, CentOS 6 & 7, Ubuntu12.x, 13.x, 14.x, Windows **Server** 2008, 2012, 2016. AIX |
| **Application/Web Server** | Apache Tomcat, WebLogic, JBoss 6.x/7.x, Web Sphere Application **Server**, IIS and Nginix. |
| **Version Control Tools** | Subversion, **GIT**, SVN, Bitbucket |
| **Configuration Management** | **Ansible**, **Chef**, **Puppet** |
| **Cloud Environments** | **Azure**, **AWS**, **Kubernetes**. |
| **CI/CD Tools** | **Cloud** Bees, **Jenkins**/Hudson, uDeploy, Spinnaker, IBM Urban **code**, deploy, **Maven**, SonarQube, Nexus Artifactory. |
| **Monitoring Tools** | Dynatrace, Grafana, **Nagios**, **Splunk**, Dynatrace, **AWS** **cloud** watch, ELK |
| **Databases:** | Oracle, **MySQL**, MongoDB, PostgreSQL, RDS, Elastic cache |
| **Scripting Languages** | Python, Golang, groovy, **Unix** **Shell** scripting, PowerShell, JSON, YAML, **AWS** Lambda. |

**Work Experiences**

Technical Resource int , Lisle, Illinois

Sr. AWS Devops Engineer

Aug 2022 to Present

* Created the ANT **scripts** and extension of existing ANT **scripts** for deployment of applications to HUDSON. Used ANT and **MAVEN** as a build tools on **java** projects for the development of build artifacts on the source **code**. Worked in setting up the repos to various projects in **GIT**.
* Using Confluence for technical documentation, setting up a knowledge base, setting up an intranet and Confluence for software teams.
* Install and configuration of Dockers. Responsible for build and deployment automation using VM Ware ESX, **Docker**, **Kubernetes** containers and **Chef**.
* Research and implement new tools such as **Kubernetes** with **Docker** to assist with auto-scaling, continuous **integration**, rolling updates with no downtime.
* Setting up Change Management process and standardizing the policies for various applications. Involved in migration from SVN to **GIT** repos and worked with **Linux** sys admins for the same. Monitoring - **Nagios**, artifactory, Custom checks, Zabbix, App Dynamics, **Splunk**.
* Udeploy is used for continuous **integration**, fast feedback and udeploy (urban (**code**)) pipeline is a multi-tool pipeline. Developed **Linux**, **UNIX**, Perl and **Shell Scripts** for manual deployment of the **code** to various environments. Hands on experience in monitoring EC2 instances using **Nagios**.
* Worked in creating, uploading new **cookbooks**and recipes. Worked on scheduling the **Chef** Nodes convergence using **Linux** Cron jobs.
* Worked on **Chef** cookbooks/recipes to automate Infrastructure as a **code**. **AWS** **Cloud** management and **Chef** Automation.
* Configured **Nagios** to monitor EC2 **Linux** instances with **puppet** automation. Configured and monitored distributed and multi-platform servers using **Nagios**. Manage configuration of Web App and Deploy to **AWS** **cloud** **server** through **Chef** Managed the software configurations using Enterprise **Chef**. Setup the **Chef** Workstation, **Chef** **Server** and **chef** nodes. Worked on Atlassian Tools and bootstrapping the nodes.
* Creating the automated build and deployment process for application and leading up to building a continuous **integration** system for all our products using **Jenkins**. Implementing a Continuous Delivery framework using **Jenkins**, **Chef**, and **Maven** & Nexus in **Linux** environment.
* **Integration** of **Maven**/Nexus, **Jenkins**, **GIT**, Confluence and **Jira**. Using **Jenkins** **AWS** **Code** Deploy plugin to deploy to **AWS**. Defining Release Process & Policy for projects early in SDLC. Perform Deployment of Release to, various QA & UAT in **Linux** environments.
* Responsible for Database build, release and configuration. Responsible for nightly and weekly builds for different modules.
* Implemented **AWS** solutions using EC2, S3, RDS, ECS, EBS, Elastic Load Balancer, Auto scaling groups, Optimized volumes and EC2 instances.
* Understanding of secure-**cloud** configuration, (CloudTrail, **AWS** Config), **cloud**-security technologies (VPC, Security Groups, etc.) and **cloud**-permission systems (IAM). Configured S3 versioning and lifecycle policies to and backup files and archive files in Glacier.
* Created monitors, alarms and notifications for EC2 hosts using **Cloud** Watch. Troubleshoot the build issue during the **Jenkins** build process.
* Setup various non-production environments for validating various applications. Creating the **SQL**, PL/**SQL** **scripts** (DML and DDL) in oracle database and revising them in SVN. **DevOps** and **AWS** **cloud** Engineer for a team that involved different development teams and multiple simultaneous software releases. Created multiple Ruby, **maven**, Perl and **UNIX** **shell scripts** for various application level tasks. Developed Shell/Perl **Scripts** for automation purpose. Responsible for the Plugin Management, User Management and END-END build and deploy setup using **Jenkins**.
* Expertise in **Docker** architecture to build, ship and deploy application and used **Kubernetes** with it. Automated Builds using Subversion (SVN), **Maven** and Visual studio as part of continuous **integration**. Worked on OpenStack and its components in building and deploying applications.
* Implemented **AWS** solutions using EC2, S3, RDS, IAM (Identity and Access management), Elastic Beanstalk, **Amazon** Lambda, Route 53, Elasticsearch, and **Cloud** front, EBS, Elastic Load Balancer, and Auto scaling groups, Optimized volumes and EC2 instances using API Gateway.
* Used Terraform in **AWS** Virtual Private **Cloud** to automatically setup and modify settings by interfacing with control layer.
* Created users, manage user permissions; maintain User & File System quota on **Red** **hat** **Linux** (RHEL). Extensively worked on CloudFormation templates in creating **cloud** infrastructure using JSON and YAML. Experience in monitor Agile teams and performed log analysis on ELK Stack.
* Performed Log analysis using ELK Stack (Elasticsearch, Logstash, and Kibana) and created monitoring charts. Developed a fully automated continuous **integration** (**CI**) system and custom tools developed in python. Worked on Sonarqube in establishing action plans and configurations as part of **code** quality analysis. Expertise in Installation, Configuration, administration, troubleshooting and maintenance of **VMware** virtual infrastructure platform.
* Designing and implementing fully automated **server** build management, monitoring and deployment by Using Technologies like **Splunk**, **Shell scripts**, **GIT**, **Maven**, Bitbucket, **Jenkins**, Selenium, Sonarqube, Nexus, Bamboo, **Chef** & **Ansible**.
* Used Elastic Load balancer (ALB & CLB) for pinging Ec2 instances in round-robin process and health checking of EC2 instances along with Route 53.
* Experience in IAM (Identity and Access management) in creating policies and roles, writing **Amazon** Lambda functions, **Cloud** watch in EC2 instance monitoring, API Gateway in managing API Keys, Elasticsearch for indexing, **Amazon** S3 for storage, Elastic Beanstalk in infrastructure deployment, **Cloud** front for accessing and content delivery(CDN) and VPC for network security access as per requirement.
* Worked on Experience in **Docker**, **Docker** swarm, **Kubernetes** & **Ansible** in build automation pipeline and production deployment.
* Administered **Linux** servers for several functions including managing Apache/Tomcat **server**, mail **server**, and **MySQL** databases in both development and production. Created users, manage user permissions, maintain User & File System quota on **Red** **Hat** **Linux**.
* Designing and implementing fully automated **server** build management, monitoring and deployment by Using Technologies like **Chef**.
* Extensively used **Jira** and Kanban boards for work flow visualization in agile development. Automated testing using Selenium integrating with Continuous **Integration** tools **Jenkins** and Bamboo. **Linux** kernel, memory upgrades and swaps area. **Red** **hat** **Linux** (RHEL) Kickstart Installation.
* Created **scripts** in Python which integrated with **Amazon** API to control EC2 instance operations. Worked on OpenStack in dynamic management of virtualization, storage and networking. Installed and Configured the Nexus repository manager for sharing the artifacts within the company.
* Perform capacity analysis of existing physical production environment using **VMware** vCenter Operations Manager.
* Responsible for designing and deploying best SCM processes and procedures with Subversion(SVN), Bitbucket, **Github**, **Git** & eclipse.
* Experience in writing **Amazon** Lambda functions and CloudFormation templates, Elasticsearch for indexing, **Amazon** S3 for storage, **Cloud** front for accessing and content delivery (CDN) and VPC for network security access as per requirement.
* Worked on **Aws** RDS DB instances in setting up and monitoring and dynamo DB (DDB) for speed and flexibility. Analyze and resolve conflicts related to merging of source **code** for Subversion (SVN). Improved the performance of **SQL** **scripts** by using Object Role Modeling methodology.
* Implemented the setup for Master slave architecture to improve the Performance of **Jenkins**. Expertise in **jira** in issue tracking and project management, Change Management and Release Management. Supported and developed tools for **integration**, automated testing and release management.
* Involved in Research of the project application architecture to support/resolve build, compile, and test issues/problems.
* Created a Python Script to stop all the instances with a specific tag in **AWS** Instance using Lambda functions and made it into **Cloud** Watch Scheduler to schedule it every night. Installed and configured **Splunk** to monitor EC2 **Linux** instances with **puppet** automation. Created indexes and generated reports.
* Installed and configured **KUBERNETES**, **Chef** **Server**/workstation and nodes via CLI tools and wrote **Docker** files to create new images based on working environments for testing purposes before deployment. Created **Chef** **Cookbooks** to provision Apache Web servers, Tomcat servers, Nginx, Apache Spark and used GZIP to forward compressed files to destination node/instances. Used **Git** as a version control tool and maintained Source **code** in the **GitHub** repository. Integrated **Jenkins** with Ant and **Maven** for builds and wrote **scripts** using **Shell**and Python for automation of various tasks.
* Installed and configured latest version of **Docker** Datacenter including universal control plane (UCP) and **Docker** trusted registry (DTR) on a cluster of hosts. Performed tasks on F5 load balancer like ordering new certs, installing and renewing SSL certificates, bouncing servers with performance issues after taking them out of the **server** pools, ID maintenance, User, Group management for all the **UNIX** servers.
* Written **Chef** **Cookbooks** and recipes to automate the deployment process and to integrating **Chef** **Cookbooks** with **Jenkins** jobs for a Continuous Delivery framework. Used **JIRA** for creating bug tickets, storyboarding, pulling reports from dashboard, planning sprints.
* Written **Chef** **Cookbooks** for various DB configurations to modularize and optimize product configuration, converting production support **scripts** to **Chef** Recipes and **AWS** **server** provisioning using **Chef** Recipes .

**Environment: Maven, Subversion(SVN), Chef, Docker, EC2, Elk Stack, Kubernetes, Agile, Openstack, Elastic Beanstalk, CloudFormation, Ansible, Red Hat, Marathon, Confluence, Aws ELB, sonarqube, Selenium, Terraform, VMware, Dynamo DB, Jira, Linux, Aws lambda Cloud watch, RHEL**

Accenture federal Service (AFS) , Herndon, VA

Sr. DevOps/Cloud Engineer

Sep 2018 to Aug 2022

* Responsible to equip the in-house applications with **DevOps** Automation, **Cloud** Modernization, Automating digital applications by Migration of legacy platforms to **AWS** **Cloud**. Managed **Amazon** Web Service (**AWS**) projects while coaching the agile process and help implement agile methodology.
* Understanding of secure-**cloud** configuration, **cloud**-security technologies (VPC, Security Groups, etc.) and **cloud**-permission systems (IAM).
* Add project users to the **AWS** account with multifactor authentication enabled and least privilege permissions.
* Leveraged **AWS** **cloud** services such as EC2, auto-scaling and VPC to build secure, highly scalable and flexible systems that handled expected and unexpected load bursts. Implemented **Elastic search, Logstash and Kibana for the Sales and Audit application.**
* Created **Docker** images using a **Docker** file, worked on **Docker** container snapshots, removing images and managing **Docker** volumes.
* 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. Implemented automated local user provisioning instances created in **AWS** **cloud**.
* Designed **AWS** **Cloud** Formation templates to create custom sized VPC, subnets, NAT to ensure successful deployment of Web applications and database templates. Maintained the user **accounts (IAM), RDS, Route 53, VPC, RDB, Dynamo DB, SES, SQS and SNS services** 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.
* Provided **DevOps** teams with clear direction - including appropriate governance and decision making. Worked on setting up **Jenkins** **server** and integrated with, **Git** **Maven**, **JIRA** and Email Servers. Used and configured different plugins like Delivery Pipeline Build var, Env Inject plugins for **Jenkins**.
* Designed Delivery pipeline in **Jenkins** based on different Environments like Dev, SIT, UAT and Production. Configured **Jenkins** Master and Slave for RPD and deployment on Weblogic and Oracle Enterprise Manager. Have also worked on writing python **scripts** to integrate **Git** and **Jenkins** with **JIRA**.
* Used and written Python **scripts** to deploy build artifacts to Weblogic WLST (Weblogic Scripting tool). Setup and Configured BitBucket **server**.
* Developed branching model in BitBucket using **Git** Flow. Integrated BitBucket **Server** with PostgreSQL and LDAP **server**. Experience with automation/configuration management using **Puppet**. Experience with Pivotal Tracker. Worked with **Docker** containers and created **Docker** images from **Docker** file. Experience creating and working with API webhooks to pull **data** from **cloud**-based applications such as Pro core
* Scheduler for periodic backups of **Jenkins**, **JIRA** and PostgreSQL. Worked on integrating Selenium with **Jenkins**. Written Cronjobs to automate daily and weekly jobs. Also written **shell scripts** to automate the Deployment of Artifacts to **Linux** boxes. Deployed and maintained Micro services using **Docker**.
* Integrated Dockers with **Jenkins** using the Dockers plugin Support containerization through Dockers and maintain snapshots of **Jenkins**.
* Owner of **Jenkins**, **GitHub**, **Puppet**, Artifactory, and all internal build systems for the core development team on an enterprise-level **Java**-based **cloud** orchestration/automation tool. Involved in **DevOps** migration/automation processes for build and deploy systems.
* Working with **git** hub enterprise to manage source **code** repositories and performed branching, merging, and tagging depending on the requirement.
* Write and maintain webhooks and Lambda functions to audit infrastructure, create KPIs, and automate content delivery **CI/CD** pipeline using **AWS** **Code** Pipelines. Write and implement automated tests for **Git** webhooks that run with every Dev's PR . Container clustering with **Docker** Swan Mesos / **Kubernetes**. Deployed and configured **Git** repositories with branching, forks, tagging, merge requests, and notifications.
* Implemented **AWS** **Code** Pipeline and Created **Cloud** formation JSON templates to create **AWS** resources using Terraform for infrastructure as **code** (IAC).
* Automate provisioning and repetitive tasks using Terraform and Python, **Docker** container, Service Orchestration.
* Used CloudFormation for creating subnets, security groups, route tables and ACL's for VPC creation. Created **Docker** containers and building **Docker** images and pushed those images to **Docker** registry Scheduled, deployed and managed container replicas onto a node cluster using **Kubernetes**.
* Worked on **Docker** container snapshots, performed the job of attaching them to a running container, removing images, maintaining dimension structure and managing containers. Used **Ansible** to manage all existing servers and automate the build/configuration of new servers.
* Used **Kubernetes** for cluster management that runs **Docker** containerized applications in a cluster of EC2 instances in **Linux** Environment.
* Involved in writing various custom **Ansible** playbooks for deployment orchestration and developed **Ansible** Playbooks to simplify and automate day-to-day **server** administration tasks. Implemented a Continuous Delivery pipeline with **Docker**, **Jenkins** and **GitHub**.
* Involved in setting up **Jenkins** Master and multiple slaves for the entire team as a **CI** tool as part of Continuous development and deployment process.
* Used **Nagios** as a monitoring tool to identify and resolve infrastructure problems before they affect critical processes.
* Created **Amazon** VPC to create public-facing subnet for web servers with internet access, and backend databases & application servers in a private-facing subnet with no Internet access. Used Bugzilla as the bug tracking tool, AppDynamics for application performance management.
* Created **AWS** Launch configurations based on customized AMI and use this launch configuration to configure auto scaling groups.
* Worked with developers, testing team, and peers to design and develop automated solutions for continuous build, test, and deployment.
* Created and managed a **Docker** deployment pipeline for custom application images in the **cloud** using **Jenkins** and implemented a Continuous Delivery framework using **Jenkins**. Automated setting up **server** infrastructure for the **DevOps** services with **Ansible**, shell, python **scripts**.
* Monitored the **server** and network infrastructure using **Nagios**. Collaborated with key stakeholders, including Scrum and Delivery teams to meet business goals. Performed and deployed Builds for various Environments like QA, **Integration**, UAT and Productions Environments.
* Creating **Jenkins** jobs and distributing load on **Jenkins** **server** by configuring **Jenkins** nodes which will enable parallel builds.
* Extensively worked on **Jenkins** **CI/CD** pipeline jobs for end-to-end automation to build, test and deliver artifacts and troubleshoot the build issue during the **Jenkins** build process. Worked with **Amazon AWS**/EC2, and Google's **Docker** based cluster management environment **Kubernetes**.
* Managing **Jenkins** artifacts in Nexus repository and versioning the artifacts with time stamp, Deploying artifacts into servers in **AWS** **cloud** with **ansible** and **Jenkins**. Worked on installation, configuration, and maintenance Debi an/Redhat, CentOS and Suse Servers at multiple **Data** Centers.
* Created continuous **integration** system using Ant, **Jenkins**, **Puppet** full automation, Continuous **Integration**, faster and flawless deployments.
* Installed and administered **GIT** source **code** tool and ensured the reliability of the application as well as designed the branching strategies for **GIT**.
* Installed/Configured and Managed **Nexus Repository Manager** and all the Repositories, Created the Release process of the artifacts.
* Experience on working with on-premises network, application, **server** monitoring tools like **Nagios**, **Splunk** , AppDynamics and on **AWS** with **CloudWatch** monitoring tool . Experienced in working on **Scripting languages Python, Ruby,Shell, Bash.**

**Environment: Docker 1.11, Docker Swarm 1.1, Kubernetes 1.2, ELK 5.0, Jenkins 1.6, Chef 11, Ansible 2.0, Splunk 6.0, Git 2.8, YAML 1.2, JSON 1.8, AWS, Nginx 1.9, Nagios 4.1.1, Linux, Java 1.6, Bugzilla 5.0.3, Python 3.3, Spring Boot 1.2, Amazon SNS, Amazon SWF**

Lockheed Martin, Arlington, VA

DevOps Engineer

Sep 2015 to Aug 2018

* Worked with **AWS** services like **EC2, S3, VPC, ELB, Auto Scaling Groups, Route 53, IAM, CloudTrail, CloudWatch, CloudFormation, CloudFront,** SNS, and RDS. Experience in automation and continuous **integration** processes with TeamCity, **Puppet**.
* **Code** repository management, **code** merge and quality checks with various tools, especially **Git**, nexus, etc. Architect Development, Test, **Integration**, and Production **AWS** environments. **AWS** EC2, EBS, Trusted Advisor, S3, **Cloud** Watch, **Cloud** Front, IAM, Security Groups, Auto-Scaling.
* **AWS** CLI Auto Scaling and **Cloud** Watch Monitoring creation and update. Solid understanding of **Linux** OS, including security, compilation, and installation of third-party software and networking. Experience with web deployment technology specifically **Linux/Nginx/Apache/Tomcat/Java.**
* Continuous **integration** and automated deployment and management using Team City, **Puppet**, **Maven**, Ant and comparable tools.
* Setup and build **AWS** infrastructure various resources, VPC EC2, S3, IAM, EBS, Security Group, Auto Scaling, and RDS in **Cloud** Formation JSON templates.
* Performed **code** line **GIT** pushes (releases) to production and customer servers and Developed and improved **GIT** push **scripts**.
* Redesigned infrastructure for high availability using multiple **AWS** availability zones. Development, Acceptance, **Integration**, and Production **AWS** Endpoints. Working on end to end in setting up of environments like **DEV, IT, QA, IQA UAT and PROD** environments in **AWS** **cloud**.
* Responsible for mentoring and cross-resource platform standardization of Web Stack technology and development and implementing of policies and procedures. Experience in analyzing and monitor performance bottlenecks and key metrics to optimize software and system performance.
* Coordinate release activities with Project Management, QA, Release Management and Web Development teams to ensure a smooth and trouble-free roll out of releases. Working in setting up Virtual Private **Cloud**, Subnets, routing table, internet gateway Access control list and security groups.
* Role required Planning, deploying, monitoring, and maintaining **Amazon AWS** **cloud** infrastructure consisting of multiple EC2 nodes and Virtual Machines as required in the environment. Strong hands-on on **AWS** **cloud** services like EC2, S3, RDS, ELB, and EBS for installing, configuring.
* Maintained the user accounts (IAM), RDS, Route 53, VPC, RDB, Dynamo DB, SES, SQS and SNS services in **AWS** **cloud**. Utilize **Cloud** Formation and **Puppet** by creating **DevOps** processes for consistent and reliable deployment methodology. Performed Build/Release/SCM engineer duties.
* Written **chef** cook books and recipes to Provision several pre-prod environments consisting of Cassandra DB installations, web logic domain creations and several proprietary middleware installations. Implemented **Puppet** Master, **Puppet** Console and **Puppet** Agents, Create **Puppet** modules and Classes.
* Involved in writing Python, Perl and **shell scripts** for compilation and deployment process. Experience in writing **ansible** **scripts**
* Automated the **cloud** deployments using **chef**, python (boto & fabric) and **AWS** **Cloud** Formation Templates. Used Gradle and written python **scripts** to automate the Build and deployment process. Used **maven** for few modules. Used **Ansible** for configure tomcat servers and maintain.
* Working on SAST and DAST tools for secure **code** reviewing and to find potential vulnerabilities. Worked on Virtualization of build and SCM environments. Performed SCM-guru tasks including branching, merging, **server** recovery, permission handling.
* Building pipelines in **Jenkins** while also fully scripting the creation and provisioning of **Jenkins**.. Scripting infrastructure and (**Linux**) machine provisioning from scratch using tools such as bash and the Ruby **AWS**-SDK. Dynamically add and remove servers from **AWS** production environment
* Collaborate in the automation of **AWS** infrastructure via terraform, **ansible**, and **Jenkins** - software and services configuration via **chef** cookbooks.
* Worked in **DevOps** group running **Jenkins** in a **Docker** container with EC2 slaves in **Amazon AWS** **cloud** configuration. Also gain familiarity with surrounding technologies such as Mesos (Mesosphere) and **Kubernetes**. Used **Ansible** and **Ansible** Tower as configuration management tool to automate repetitive task. Worked with the development team to generate deployment profiles (jar, war, ear) using ANT **Scripts** and **Jenkins**.
* Created Python **scripts** to: Totally automate **AWS** services which include web servers, ELB, **Cloud** front distribution, database, ec2 and database security groups, S3 bucket and application configuration, this script creates stacks, single servers, or joins web servers to stacks.
* Experience running LAMP (**Linux**, Apache, **MySQL**, and PHP) systems in agile quick scale **cloud** environment.
* Designed **AWS** **Cloud** Formation templates to create custom sized VPC, Subnets to ensure successful deployment of Web applications and database templates Automation of **java** applications to achieve continuous **integration** and continuous delivery (**CI** and **CD**).
* Created new jobs in **Jenkins** and built pipeline for Continuous Integra on and migrated applications to the **AWS** **cloud**.
* Setting up the **scripts** for creation of new snapshots and deletion of old snapshots in s3 worked on setting up the life cycle policies to back the **data** from **AWS** s3 to **AWS** glacier worked with **amazon** IAM console to create custom users and groups worked with various **AWS** ec2 and s3 CLI tools.
* Expertise in **AWS**, experience in implementing new **AWS** instances and working with EBS and s3 storage, IAM.
* Launching and configuring of amazonec2 **cloud** servers using AMI's (**Linux**/Ubuntu) designed and implemented scalable, secure **cloud** architecture based on **amazon** web services. Supporting an **AWS** **cloud** environment with 1000+ **AWS** instances and configured elastic IP and elastic storage.
* Responsible for a boarding application team to build and deploy their **code** using **GitHub**, **Jenkins** and **Ansible**.
* Wrote **Ansible** Playbooks with Python SSH as a wrapper to manage configurations of **AWS** nodes and Test Playbooks on **AWS** instances using Python.
* Managing **Amazon Web Services** (**AWS**) infrastructure with automation and configuration management tools such as **Ansible**, **Puppet**, or custom-built. Designing **cloud**-hosted solutions, specific **AWS** product suite experience. Automating backups by **shell** for **Linux** to transfer **data** in S3 bucket.
* Designing the application layer of the product with ec2, rds, and elastic cache, and Configuring **AWS** **cloud** watch for application monitoring.
* Establishing both automated build processes and release management processes for their LMS platform using **Jenkins**, ant, **maven**, and **chef**.

**Environment: AWS Cloud, Linux, Apache, MySQL, GIT, Jenkins, Puppet, Maven, Ant, JSON, Python and Shell.**

Panasonic, Peachtree City, GA,

Linux Admin/Jr. DevOps Engineer

Feb 2014 to July 2015

* Implement, maintain and support reliable, timely and reproducible builds for project teams. Worked as a Systems Administrator on **Red** **Hat**, CentOS and Ubuntu (6.06,7.04). 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**.
* Installed, upgraded, and configured SUN Solaris 9/10on Sun Servers using Jumpstart and **Red** **hat** Enterprise **Linux** 5/6 using Kickstart.
* Installed &amp; configured Guest operating system like **Red** **hat** on **VMware** ESX 5.x. Implemented Kick start for **Red** **hat** environments.
* Configured, maintained, applied changes and fail-over schedules of HA servers running Veritas Cluster **Server** and RedHat Cluster **Server**.
* Involved in complete Administration tasks on SUN Solaris, **Red** **Hat** **Linux** and documentation for the projects executed.
* Installed, monitored, and supported Web servers and Application Servers on Solaris and **Linux** environments.
* Hardened the new AIX, HP-UX and **Linux** systems because of the newly installed defense-based software systems.
* Manage to install A5200 arrays, new HP-UX systems, SAN and configured LUN for 100 HP-UX systems,60 AIX and 30 Solaris systems.
* Assisted in configuring the application servers with other components such as database, web servers, Active Directory, etc.
* Perform regular system administration tasks and perform troubleshooting to keep the **UNIX**/**Linux** environments running smoothly.
* Implement change management requests; resolve incident tickets through ‘HP Service center’ ticketing system. Complete **UNIX**/**Linux** related projects on a timely manner. 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.
* Upgraded current **Linux** version to RHEL version 5.6.

**Environment: MySQL, Shell Scripts, SQL Scripts, Oracle Database, Kernel, Ubuntu, Linux Cluster**