**PROFESSIONAL SUMMARY**

* 7+ years of experience in system and network Administration, managing server infrastructure and datacenter operations across multiple platforms such as Windows and Linux.
* Experience in building an automated build pipeline and deployment, by implementing DevOps principles CI, CD, CM and agile and lean software development methodologies to seamlessly deliver high quality software applications to the end users at the speed of need generating value for the company and the customers.
* Experience in working as a DevOps Engineer, Build & Release Engineer, System Administrator operations process and tools area (Code review, unit test automation, Build & Release automation, SCM, Incident and Change Management).
* Conversant with all phases of Agile Software Development Life Cycle (SDLC) involving System Analysis, Design, Development, Testing, Implementation and Technical Support.
* Hands on experience on deploying applications from on premises databases to the AWS cloud infrastructure.
* Experience working with version control systems like Subversion, GIT and used Source code management tools GitHub, GitLab, Bit bucket including command line applications.
* Hands-on experience with Continuous Integration and Continuous deployment using the tools Jenkins, Chef, Git, and Docker.
* Experience in administration and maintenance of source control management systems such as GIT and Sub Version, created tags and branches, fixed merge issues and administration software repositories.
* Experience working on several Docker components like Docker Engine, Hub, Machine, creating Docker images, Compose, Docker Registry and handling multiple images primarily for middleware installations and domain configurations.
* Hands-on experience with Docker Containers and Tomcat servers for application deployment.
* Implemented a CI/CD pipeline involving GitLab, Jenkins, Chef, Docker, and Selenium for complete automation from commit to deployment.
* Experienced in working with IT infrastructure monitoring tools like NagiOS Cloud Watch, Zabbix, Datadog, AppDynamics and Splunk.
* Hands on experience with configuring continuous integration within a development environment using tools such as Jenkins, Puppet, Chef, Git.
* Extensively worked with automation tools like Jenkins, to implement the End-to-End Automation.
* Extensively worked with Puppet on developing modules and manifests to automate infrastructure provisioning and configuration management across multiple nodes in the cluster.
* Installed and Configured Chef Enterprise and Chef Workstation hosted as well as On-Premise, Bootstrapped Nodes, Wrote Recipes, Cookbooks and uploaded them to Chef-server.
* Good knowledge on dockerized deployment of Prometheus and Grafana that sets up Prometheus, Grafana, cAdvisor, Node Exporter, and alerting with Alert Manager.
* Experience in using build tools like MAVEN and ANT for the building of deployable artifacts such as war, jar& ear from source code and experience in configuring, monitoring, upgrading and maintaining IAAS.
* Hands on experience in configuring boot process, partitioning hard drive, creating and mounting file systems/swap storage, configuring networking and software applications management in Linux/Unix and experienced in manipulating and updating files in python.
* Expert in deploying the code through web application servers like Apache Tomcat/ Web Logic/ JBOSS/ IIS application servers.
* Experience in working with Web-Development technologies like HTML, DHTML, Java Script, CSS, and XML.
* Strong coding/scripting skills like Linux BASH Shell, Python to automate various jobs in the build pipeline.
* Proficient in Python, Ruby, Perl, Bash Scripts for on Middleware tools for deployment of Java applications.
* Hands on experience in Deploy, Configure and maintain compute on Azure cloud and trouble-shooted Azure cloud related issues.
* Experience in AWS Cloud platform and its features which includes EC2, S3, Auto Scaling, Route53, VPC, EBS, ELB, IAM, AMI, SNS, RDS, Cloud Watch.
* Experience setting up instances behind Elastic Load Balancer in AWS for high availability and worked extensively with different Bug tracking tools like JIRA, Remedy, HP Quality center.
* Experienced in deploying Database Changes to Oracle, SQL, NO SQL and MYSQL databases.
* Involved in migration of applications with experience of installing, configuring and administrating.
* Installed, Configured, Managed Monitoring Tools such as Splunk, Nagios for Resource Monitoring/Network Monitoring/Log Trace Monitoring.
* Good knowledge and hands on Experience in some monitoring tools like Data log, New Relic, Cacti etc.
* Experience automating deployments on Servers using J Boss, Tomcat, Web Sphere and ability to work closely with teams, to ensure high quality and timely delivery of builds and releases.
* Strong ability to troubleshoot any issues generated while building, deploying and in production support.

**TECHNICAL SKILLS:**

**Build Tools** : ANT, MAVEN, GRADLE

**Version Tools** : SVN, GIT, Perforce, TFS

**CI-CD Tools** : Jenkins, Bamboo, Hudson, Udeploy, Octopus Deploy, Team City, TFS

**Web technologies** : HTML, CSS, XML, JAVA Script, JDBC, Servlets, JSP, JQuery, PHP

**CM Tools** : Puppet, Chef, Ansible, OpsWork

**Provisioning Tools** : Terraform, Cloud Formation

**Languages**  : C, C++, C#, Python, Java, Java Script, HTML, CSS

**Scripting** : Bash Scripting, Python, Ruby, Pearl

**Database** : Oracle 11g, DB2, SQL Server, MySQL, DYNAMODB, Cassandra, Mongo DB

**Operating Systems** : Windows server 2000/2003/2007/2008/ XP, LINUX (RHEL 4/5/6/7)s

**Bug Tracking Tools** : JIRA, Bugzilla, Remedy

**SDLC**  : Agile, Scrum, Waterfall

**Cloud Technologies** : Amazon Web Services (AWS), Open stack, Docker, Azure

**Virtualization** : VMware, Vagrant, Docker, Elastic Container Service, Kubernetes

**Monitoring Tools** : CloudWatch, Nagios, Datadog, Zabbix, Splunk, Sumologic

**Networking/ Protocols** : DNS, Telnet, LDAP, TCP/IP, FTP, HTTP, HTTPS, SSH, SFTP, SCP, SSL, ARP, DHCP and POP3

**App/Web servers** : Apache Tomcat 7/8/9.x, JBoss 7.x, IBM Web sphere, Apache Web Server, Oracle Web logic

**Professional Experience**

**Fannie Mae, Herndon, VA August 2019- Present**

**AWS / DevOps Engineer**

**Responsibilities:**

* Configured a virtual data center in the Amazon Web services cloud to support Enterprise data warehouse hosting including Virtual Private Cloud (VPC), Public and Private Subnets, Security Groups, Route Table, Elastic Load Balancer.
* Leveraged Aws cloud services such as EC2, Auto scaling and VPC to build secure, highly Scalable, high available and flexible systems that can handled expected and unexpected load bursts.
* Created Aws Cloud Formation templates to create custom sized VPC, subnets, NAT instances to ensure successful deployment of web applications and data base templates.
* Created Python scripts to totally automate Aws Services which includes ELB, Cloud front distribution, database, EC2 and database security, S3 bucket and application configuration, this script creates stacks, single servers or join web servers to stacks.
* Setup data dog monitoring across different servers and aws services.
* Created data dog dashboards for various applications and monitored real-time and historical metrics.
* Created system alerts using various data dog tools and alerted application teams based on the escalation matrix.
* Integrated cloudcheckr, Datadog, Splunk Dashboard with aws accounts.
* Utilize AWS CLI to automate backups of ephemeral data-stores to S3 buckets, EBS and create nightly AMI’s for mission critical production servers as backups.
* Worked with managing open stack infrastructure upgrades, expansion, scaling and troubleshooting on the most challenging, complex environments.
* Responsible for documenting the Future State Architecture of application and getting them approved from ARB (Architecture review Board).
* Involved in Architect, Build and maintain Highly Available secure multi-zone AWS cloud infrastructure utilizing Chef with AWS Cloud Formation and the Jenkins& Hudson for continuous integration. Responsible for CI environments (Jenkins, Nexus, Sonar)
* Worked with Go language to build simple reliable and efficient software programs.
* Architecting high available, auto scalable platforms in AWS cloud on windows & Linux, Designing database high availability solutions on MS SQL & My SQL multi AZ RDS.
* Responsible for creating Aws Identity and Access Management (IAM) groups and Users for improved login authentication and providing security Group in both Public and Private Subnets in VPC.
* Experienced in Branching, labeling and Analyzing and resolving conflicts related to merging of source code in GIT and implemented a continuous Integration and Delivery pipeline using Docker, Jenkins and GIT. And also used Jenkins pipeline plugin to analyze the Maven dependencies and the SCM changes.
* Worked on Inbound and Outbound services with automation CHEF. Deployed multiple resources simultaneously, using Cloud Formation templates in AWS.
* Setting up the build and deployment automation for Terraform scripts using Jenkins and Used HCL scripts for writing terraform Scripts.
* Focused on containerization and immutable infrastructure, Docker has been core to this experience, along with Mesos, Marathon and Kubernetes.
* Automated deployment activities in middleware environment which includes portal applications running on Java using Puppet Master and Agent Nodes, Puppet manifests to automate the installations and deployment tasks in service-oriented architecture (SOA).
* Experienced in Troubleshooting. Splunk search, quotas, monitor Inputs, WMI Issues, Splunk crash logs and Alert scripts.
* Involved in using Terraform migrate legacy and monolithic systems to Amazon Web Services.
* Provided high availability for IaaS VMs and PaaS role instances for access from other services in the VNet with Azure Internal Load Balancer.
* Creation and Maintenance of MS Azure Cloud Infrastructure and Virtual Network between MS Azure Cloud and On-premise network for backend communication.
* Wrote Ansible Playbooks with Python SSH as the wrapper to manage the configuration of AWS nodes and test playbooks on AWS instance using Python. Ran Ansible scripts to provision Dev Servers.
* Utilized Jira for Bug Tracking, Nagios & Graphite for System monitoring, Cloud Watch and Cloud Trial for monitoring the cloud environment.

**Environment**: AWS (EC2, VPC, ELB, S3, RDS, Cloud Trail and Route 53), Datadog, VDI, Linux, Ansible, Git version Control, VPC, AWS EC2, S3, Route53, EBS, IAM, ELB, Cloud watch, Cloud Trial, Cloud Formation, AWS CLI, AWS Auto Scaling, Azure, Maven, Jira, Nagios, Subversion, Jenkins, Chef, Puppet, Ansible, Mesos, Docker, Kubernetes, Python, Ruby.

**Centene, St Louis, MO March 2016 – July 2019**

**DevOps Engineer**

**Responsibilities:**

* Managed GIT and SVN as Version Control Systems and used Maven to perform daily and weekly Software Builds.
* Launching Amazon EC2 Cloud Instances using Amazon Web Services (Linux/ Ubuntu) and Configuring launched.
* Build and release software baselines, code merges, branch and label creation in Subversion/GIT and interfaced between development and infrastructure.
* Working for DevOps Platform team responsible for specialization areas related to Chef for Cloud Automation.
* Experience in development, administration, configuration, Implementation, and Support of sales force CRM and Salesforce applications.
* Responsible for CI and CD using Jenkins, Maven and Chef also Wrote Terraform scripts from scratch for building Dev, Staging, and Prod and DR environments.
* Installation and configuration of VM’s with Red Hat LINUX servers and responsible in deploying the application WARs, EARs in Web Logic application servers and troubleshoot any deployment issue.
* Responsible for managing the chef client nodes and upload the cookbooks to chef-server from workstation.
* Leveraged Docker Engine to run Multiple Tomcat Instances as Containerized App Servers.
* Experience working on Docker hub, creating Docker images and handling multiple images primarily for middleware installations and domain configurations.
* Used Chef to automate and deploy application packaging.
* Responsible for creating, managing Docker files for creating necessary base images used for automation of build, deployment environments.
* Helped developers and other project teams to set views and environments and AWS Cloud management and responsible for code build, release and configuration on Amazon EC2.
* Created SNS (Simple Notification Services) and triggering it by Cloud Watch monitoring to send SMS or Email to desired recipients.
* Used IAM to create new accounts, roles and groups and configured S3 versioning and lifecycle policies to and backup files and archive files in Glacier.
* Experience in creating Amazon EBS Snapshots for backups and use of AWS including deploying new server instances through automation with CHEF and Jenkins.
* Implemented Micro services in load balanced, highly available, fault tolerant Kubernetes
* Replicated the Jenkins build server to a test VM using Packer, Virtual Box, Vagrant, Chef, Perl brew and Server spec.
* Experience in integrating Unit Tests and Code Quality Analysis Tools like MS Test, SonarQube, J Unit and Cobertura.
* Worked extensively with different Bug tracking tools like JIRA, Remedy and actively involved in architecture of DevOps platform and cloud solutions.
* Written Python scripts with Cloud Formation templates to Automate installation of Auto scaling, EC2, VPC.
* 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)
* Replicated the Jenkins build server to a test VM using Packer, Virtual Box, Vagrant and created proper documentation for new server setups and existing servers.
* Documenting the process followed for restoration based up gradation of TFS server and creating Disaster Recovery plan for TFS servers.
* Developed installer scripts using Maven, Python for various products to be hosted on Application Servers.
* Developed Pom.xml files for Maven build scripts and developed new build system using Team City, Web Deploy.
* Developed reports, dashboards, and processes to continuously monitor data quality and integrity

**Environment:** DevOps, jQuery, Tomcat, Apache, Jenkins 1.0.5, Python3.6.0, Ruby2.3 Chef12.7.2, JIRA 7.2.x, Confluence6.2, Remedy9.1, Maven 3.0.2, Art factory 5.4.5, GITHUB 2.0., Ubuntu, CentOS, Linux, AWS ELB, AWS SQS, AWS S3, AWS Cloud Formation Templates, AWS RDS, AWS Cloud Watch, PowerShell 4.2.6.

**Macmillan Publishing, Albany, NY December 2014 – February 2016**

**DevOps System Engineer**

**Responsibilities:**

* Worked on setting up Upstream and Downstream Jobs in Jenkins.
* Worked on Multi project jobs in Jenkins and used pipeline plugin to manage them.
* Implemented automated application deployment and written deployment scripts and automation scripts.
* Implemented new process and policies for build process and involved in auditing.
* Worked in designing and implementing continuous integration system using Jenkins by creating Python and Shell scripts.
* Automated the cloud deployments using Puppet, Python and AWS Cloud Formation Templates.
* Created and updated Puppet manifests and modules, files, and packages stored in the GIT repository.
* Lead Automation deployment team and worked with Puppet, written puppet modules for application deployment.
* Created artifact files by using jar files and POM.xml files and created some new plugins by writing the scripts in python language.
* Worked with various AWS, EC2 and S3 Command Line Interface (CLI) tools and used IAM to create new accounts, roles and groups.
* Implemented AWS solutions using EC2, S3, RDS, EBS, Elastic Load Balancer, Auto-scaling groups. Optimized volumes and EC2 instances
* Configured S3 versioning and lifecycle policies to and backup files and archive files in Glacier and created monitors, alarms and notifications for EC2 hosts using Cloud Watch.
* Worked on M-Collective framework for building server orchestration and parallel job-execution systems.
* Planning and implementing VPCs with multiple availability zones and multiple subnets to meet the dynamic IP requirements.
* Maintained and Administered GIT Source Code Tool and created Branches, Labels and performed Merges in Stash and GIT.
* Developed Processes, Tools, Automation for Jenkins based Software for Build system and delivering SW Builds.
* Managed Build results in Jenkins and Deployed using workflows and used elastic search through JSON and Java API.
* Worked on Oracle Databases there by connecting different environments to these databases in lower and production environments.
* System Cloning, System Copy, and Data Refresh as agreed to by the business stakeholders.
* Designed and implemented fully automated server build management, monitoring and deployment by using DevOps technologies like Puppet.
* Designed and implemented scalable, secure cloud architecture based on Amazon Web Services.

**Environment**: Agile, GIT, Maven, Jenkins, Nexus, Puppet, Chef, Jira, Nagios Web Logic, TOMCAT, Python Scripts, Perl Scripts, Ruby Scripts, XML, Unix.

**Education:**

* Bachelors of Computer Science in Dire Dawa University, Ethiopia.