**Mukesh**

**DevOps Engineer**

* IT Professional with 6+ years diversified experience in Software Configuration and Build/Release Management, Change/Release/Build Management, System Administration, Support and Maintenance in Red Hat Enterprise Linux 4.x/5.x/6.x/7.x, CentOS 5.x/6.x/7.x environments.
* Well versed in agile software development methodologies and participated in weekly sprint planning and execution standups.
* Experience in using Data Pipeline for moving the data between AWS services (Storage, Compute) as well as the on-premise data sources.
* Experience in Creating secured cloud infra using Virtual Private Cloud (VPC) for Staging and Development environment on AWS
* Experience on container management tools Docker, Mesos, Marathon and Kubernetes. Also, used to manage clusters of nodes using Docker swarm, compose, DC/OS and kubernetesandDeisclusters.
* Familiar with 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.
* Proficient in using openstack core services such as Nova, Neutron, Glance, Cinder, Swift and Keystone.
* Expertise in deploying, managing, and operating scalable, highly available, and fault tolerant systems on Amazon Web Services (AWS) platform using PYTHON AWS SDK BOTO3
* Proficiency in setting up Security and Identity across the Azure through Active Directory (AD) including Key Vault, AD B2C and security center.
* Extensively experienced in using Build Automation tools like Maven, Ant, Gradle and frameworks like Spring Boot, Spring MVC with Jenkins for build and deployment.
* Extensively used to write PowerShell scripts for automating the services inside the Azure.
* Hands on experience with Chef and OpsWorks in AWS cloud environment.
* Configured and monitored distributed and multi-platform servers using Chef. Defined Chef Server and workstation to manage and configure nodes.
* Developed Chef Cookbooks and Recipes to manage systems configuration.
* Knowledge of puppet as Configuration management tool, to automate repetitive tasks, quickly deploys critical applications, and proactively manage change.
* Experience writing various custom Ansible Playbooks and modules for Deployment Orchestration.
* Experience in Terraform Infrastructure as code in AWS.
* Good command in working with Tracking Tools JIRA and IBM Rational Clear Quest.
* Good knowledge in Continuous Integration and Continuous Deployment methodologies
* Configured DOCKER Containers for Branching purpose and deployed using Elastic Beanstalk.
* Worked on Azure Storage Services (Storage, Data Lake Store, Backup), Database (Document DB, SQL Data Warehouse) and Networking services (Vnet, LB, DNS and CDN).
* Extensive experience in continuous integration tools like Bamboo, Jenkins and Build Forge involved in JAVA and J2EE programming.
* Expertise in writing ARM templates and well-versed in using the AzureCompute Services.
* Worked with repository managers like SonatypeNexus and Artifactory.
* Expertise in working under Azure Active Directory for creating roles, tenants, and assigning various security policies.

TECHNICAL SKILLS

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| Operating Systems | RHEL, RH Linux CentOS, Ubuntu, Apache Mesos, Unix, Windows |
| Version Control Tools | GIT, Bitbucket, SVN and IBM Rational Clear Case |
| Web/Application Servers | WebLogic, Apache Tomcat, Nginx, LAMP, WebSphere, IIS and JBoss |
| Database Analytics | Amazon RedShift, MemSQL, Greenplum, Teradata and IBM Netezza |
| CI Tools | Jenkins/Hudson, Build Forge, Capistrano, IBM Urban Code deploy and Bamboo |
| Workflow and Job Scheduling | Apache Oozie, Apache Airflow, Kibana, RUNDECK, Log stash |
| Build Tools | Maven, Ant, Gradle, Java Spring Boot and MS Build |
| Configuration Tools | Chef, Puppet, Ansible, Salt, Foreman, UCS Director and Terraform |
| Bug Tracking Tools | JIRA and IBM Clear Quest |
| Scripting | Shell, Ruby, Power Shell, Perl, JSON and Python |
| Virtualization Tools | Oracle VM Virtual Box, Vagrant, Hyper-V and VMware |
| Container Platforms | Docker, Kubernetes, ECS, Packer, Mesos, Marathon and CoreOS, Deis |
| Monitoring Tools | Nagios, AppDynamics, Cloud watch, DataDog, Elasticsearch, Sensu, SolarWinds and Splunk |
| Cloud Platform | AWS, Microsoft Azure, Google Cloud, openstack |
| Paas | Openshift, Cloud Foundry, Heroku |

**Client: Siemens, Princeton, NJ** **Dec 2021 – Till now**

**Role: DevOps Engineer**

**Responsibilities:**

* Analyse the existing on-premise architecture and come up with cloud architecture and list all services needed to migrate the current architecture including price estimation of resources on AWS.
* Involved in designing and deploying multitude applications utilizing almost all the AWS stack (Including EC2, Route53, S3, SNS, SQS, IAM) focusing on high-availability, fault tolerance, and auto-scaling in AWS.
* Wrote custom Modules and Manifests, downloaded pre-written modules from puppet-forge and upgradation or Migration of Puppet community and Puppet Enterprise.
* Extensively used Ruby scripting on Chef Automation for creating cookbooks comprising all resources Data bags, templates, attributes.
* Automated the continuous integration and deployments using Jenkins. Built end to end CI/CD Pipelines in Jenkins to retrieve code, compile applications, perform tests and push build artifacts to Nexus.
* Deployed a centralized log management system and integrated into Puppet to be used by developers.
* Utilized S3 bucket and Glacier for storage and backup on AWS Set up Jenkins server and build jobs to provide continuous automated builds based on polling the GIT during the day and periodic scheduled builds overnight to support development needs using Jenkins, JUnit, Selenium and Maven.
* Worked on chef cookbooks to install tools like new relic and Sumo logic for both instrumentation and enabling and disabling logs.
* Experience with data flows and relationships, data integration analysis, data mapping across multiple systems, data quality for ETL processes, and file transfer of external data.
* Worked with Chef Enterprise Hosted as well as on premise. Installed Workstation, Bootstrapped Nodes, Wrote Recipes, cook books and uploaded them to Chef-server.
* Setup and maintained automated environment using Chef Recipes and good understanding on Knife, Chef Bootstrap process etc.
* Extensively Worked on Hudson and Jenkins for Continuous integration and for End to End automation for all Build and Deployments.
* Integrated Jenkins with various DevOps tools such as Nexus, Sonar Qube, and Puppet etc.
* Administered and Engineered Jenkins for managing weekly Build, Test and Deploy chain, SVN/GIT with Development/Test/Production Branching Model for weekly releases.
* Automated Weekly releases with ANT/Maven scripting for Compiling Java Code, Debugging and Placing Builds into Maven Repository.
* Write Puppet manifests in Ruby for deploying, configuring and managing collected for metric collection and monitoring.
* Deployment of syslog server and client configurations through version control **(subversion)** managing through Puppet.
* Responsible for automated installation of Puppet Enterprise 2.7 and configuring Puppet Master and Puppet Agents (both Windows and Linux) in AWS VPC.
* Implemented multi-tier application provisioning in open stack cloud, integrating it with puppet, migrating the application using Maven as build tool.
* Responsible for automated identification of application server and database server using puppet scripts.
* Extensive experience implementing Puppet modules to automate the installation and configuration for a wide range of services.
* Responsible for ordering necessary equipment, access, admin rights, application installs, Creation of Active Directory Groups, decommissioning of server environments, setting up VPN events and conference meetings between multiple Global endpoints and various other actions via Requests.
* Automated Nagios services for database server, web-server, application-server, networks, file sizes, RAM utilization, Disk performances using Python script in Chef.

**Environment:**Chef, Git, Subversion, Apache Tomcat, Bamboo, Splunk, Jenkins, Maven, Artifactory, Jira, CentOS, Yum, Shell Scripts.

Client: Premera BCBs, Mountlake Terrace Oct 2020 – Nov 2021

DevOps Engineer

Responsibilities:

* Setup and build AWS infrastructure various resources VPC EC2, S3, IAM, EBS, Security Group, Auto Scaling, and RDS in Cloud Formation JSON templates.
* Build servers using AWS, importing volumes, launching EC2, RDS, creating security groups, auto-scaling, load balancers (ELBs) in the defined virtual private connection.
* Deployed applications on AWS by using Elastic Beanstalk.
* Participated in SCM tool evaluation selection and implementation. Proactively identified, implemented process and other operational improvements for build/release/deployment.
* Worked closely with multiple development and test teams to provide process design, management, and support for source code control, code compilation, change management, and production release management.
* Experience with Linux systems, virtualization in a large-scale environment, experience with Linux Containers (LXC) and Docker.
* Used ANT, Ansible Scripts to build the application and deploy.
* Resolved update, merge and password authentication issues in Gitlab and Jira.
* Extensive experience in Application Deployments and Environment configuration using Ansible.
* Responsible for build and deployment automation using VM Ware ESX, Docker containers and Hudson.
* Designed AWS Cloud Formation templates to create custom sized VPC, subnets, NAT to ensure successful deployment of Web applications and database templates.
* Experience executing the CI Jenkins build job for both Android and iOS application builds. Using GIT (Stash) tool as the source code repositories for all projects and Artifactory for all builds (ipa/apk) release repository.
* Manage AWS EC2 instances utilizing Auto Scaling, Elastic Load Balancing and Glacier for our QA and UAT environments as well as infrastructure servers for GIT and ansible.
* Created Python scripts to totally automate AWS services which includes 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.
* Worked as Admin on JIRA tool. Customized the dashboard based on team's requirement.
* Added users, implemented Security and added new projects on JIRA.

Environment:AWS, Git, Maven, Ansible, Jenkins, VDI, VPC, VPN, Route53, EBS, SQL, ELB, Cloud watch, Dynatrace, Docker, Jira, Kubernetes, AWSCLI, SPLUNK, Sonar, AWS Auto Scaling, Unix/Linux, Ruby

**Client:** Biztegy Inc, Hyderabad. India Oct 2017 – Sep 2020

**Role: DevOps Engineer**

**Responsibilities:**

* Performed configuration, deployment and support of cloud services including Amazon Web Services (AWS).
* Creating Amazon EC2 Cloud Instances using Amazon Web Services and configuration of launched instances with respect to specific applications.
* Involved in creation of virtual machines and infrastructure in the Azure Cloud environment.
* Creating Cloud Watch alerts for instances and using them in Auto-scaling launch configurations.
* Implemented Docker containers to create images of the applications and dynamically provision slaves to Jenkins CI/CD pipelines.
* Worked on Group and User administration, startup &amp; shutdown scripts, Crontab, File system maintenance, Backup scripts and Automation.
* Experience in administration of web server like Apache Tomcat.
* Create a Virtual Network on Windows Azure to connect all the servers
* Defined AWS Security Groups which acted as virtual firewalls that controlled the traffic allowed to reach one or more AWS EC2 instances.
* Working on Multiple AWS instances, set the security groups, Elastic Load Balancer and AMIs, Auto scaling to design cost effective, fault tolerant and highly available systems.
* Created scripts in Bash to automate log rotation of multiple logs from web servers.
* Experience in administration of web server like Apache Tomcat.
* Deployed and designed pipelines through Azure data factory and debugged the process for errors.
* Created and maintained Maven Pom.xml for performing the builds.
* Experience in administering Linux, such as Installation, Configuration, Backup, Recovery.

**Environment**: Docker, Jenkins, RHEL, OpenShift, Artifactory, Azure, Ansible&GitLab.