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**RESUME**

**Summary:**

* Proficient experience in IT industry as a **DevOps** and **Cloud Engineer** with major focus on Cloud Resource Utilization, Source Code Management, Infrastructure Automation, Continuous Integration, Continuous Delivery and Continuous Deployment.
* Good understanding of the principles and best practices of **Software Configuration Management** (SCM) in **Agile** (scrum) and Waterfall methodologies.
* Splendid expertise on **AWS** Cloud-Specific services which include IAM, VPC, EC2, RDS, ELB, EMR, ECS, Auto scaling, S3, Cloud Front, Glacier, Elastic Beanstalk, Lambda, Elastic Cache, Route53, Ops Works, Cloud Watch, Cloud Formation, RedShift, DynamoDB, SNS, SQS, SES.
* Experienced in both framework and **Cloud Formation** to automate AWS environment creation along with the ability to deployment on AWS, using build scripts (Boto3 and AWS CLI) and automate solutions using **Shell** and **Python**. Expertise in Shell, Batch, **Python**, **Ruby** and **Perl** Scripting languages.
* Framed Cost Effective, Highly Available and Fault Tolerant AWS systems by the combined effort of Security Groups, **Elastic** **Load Balancer** (**ELB**) and Auto Scaling which allows for automated **Scalability** and Elasticity and **Disaster Recovery.**
* Written **Cloud Formation Templates** to setup **IAM** policies for users created **VPC** from scratch by configuring Internet Gateway, Route Tables, Subnets, Network ACLs, Security groups and used S3 for storage.
* Vigorously worked on **Ansible** playbooks, inventories, created custom playbooks written in **YAML** language, encrypted the data using **Ansible Vault** and maintained role-based access control by using **Ansible Tower**.
* Experienced working on several **Docker** components like **Docker images**, containers, **Docker-Hub, Docker Registry** as well as familiar with advanced technologies like **Docker Compose, Docker Swarm, Docker Weave**.
* Responsible for Continuous Integration **(CI)** and Continuous Delivery **(CD)** process implementation using **Jenkins,** Hudson and Bamboo along with Shell (UNIX) and **Python Scripts** to automate routine Jobs.
* Experience in **branching**, merging, tagging, develop, manage Pre-commit, Post-commit **hook scripts**; maintaining the version across the environments and provide support for parallel development using **SCM** tools like **GIT** (Github and GitLab), Subversion (SVN), Bitbucket.
* Designed **Splunk** Architecture, Queries and created Applications on Splunk to analyze Data.
* Set up and managed **EFK (Elastic Search, FluentD & Kibana)** Stack to collect, search and analyze log files across servers, log monitoring and created geo-mapping visualizations using **Kibana** in integration with **AWS Cloud watch** and **Lambda**.
* Extensively experienced in using build **automation** tools like **Maven** and **ANT** for the building of deployable artifacts such as jar, war and ear from source code to write Pom.xml and Build.xml respectively.
* Experience in installing and configuring the application and **web servers** like **Tomcat**, **Jboss**, WebSphere, Web Logic and deployed several applications on these servers and extensive experience on **bug tracking** tool like **Jira.**
* Experienced in performing installation and configuration of **Windows server 2012 r2** and **Apache** servers and their web development.
* Install, configure, and troubleshoot enterprise-wide **Apache Web Servers** and **Tomcat** application containers in large **Red** **Hat Linux**/**CentOS** environment.

**Education:**

Bachelors in Electrical and Electronics Engineering from JNTU-Anantapur, India 2012

Masters in Computer and Information Sciences, Sacred Heart University CT 2017

**Technical Skills:**

**Operating Systems:** Linux (Red Hat 6/7, CENTOS), Windows servers [2003, 2008, 2008 R2, 2012, 2012R2], Windows 2000, XP, Windows 7, Ubuntu 12/13/14, Solaris 11/10/9/8.

**Cloud Platform:** Amazon Web Services

**Application Servers:** Web Logic Application Server 9.x, 10.x, Apache Tomcat 2.0.x, JBOSS 4.x/5.x, Red Hat.

**Automation Tools:** Docker, Ansible, Jenkins (Cloudbees).

**Virtualization:** VMware Client, Windows Hyper-V, vSphere 5.x, Datacentre Virtualization, Virtual Box, KVM, Power VM

**Volume Manager:** Logical Volume Manager, Solaris Volume Manager

**Version Control Tool:** Git, SVN.

**Database:** Oracle, SQL Server, MySQL, NoSQL, DynamoDB.

**Scripting:** Python, Groovy,Bash Shell scripting, PowerShell, YAML format, JSON format.

**Monitoring tools:** Splunk, EFK, Newrelic, Zabbix and Pagerduty.

**Networking Protocol:** TCP/IP, NIS, NFS, DNS, DHCP, SMTP, FTP/SFTP, HTTP/HTTPS, NDS, Cisco Routers

**Professional Experience:**

**HonorVet Technologies**

**Client(NextEra Energy, Miami –FL) Aug 2019 - Present**

**Role: DevOps Engineer**

**Responsibilities:**

* As a Devops Engineer my responsibility includes creating **infrastructure** for the applications that are hosted in cloud
* Developed and implemented Software Release Management strategies for various applications according to the agile process. Worked with different development teams and multiple simultaneous software releases.
* The infrastructure includes creating **Redshift** clusters, **EMR** clusters through automated approach using **Cloudformation** and **Jenkins**.
* Creating **IAM** roles and policies to promote users to use AWS services and Implementing restriction on S3 bucket access using **S3** bucket polices and **IAM** resources actions.
* Using the **AWS Secret Manager** to **create, manage and access** the secrets of Redshift and Aurora RDS and External API and Lambda Functions and develop IAM policies for related aws services to access Secrets.
* Creating the infrastructure for Migrating the **onprem** databases to **cloud** using Database Migration system and confugring the source and target Endpoints for Oracle and MySql databases to Aws cloud.
* Created the **security** **groups** and Managing the Firewall rules to inbound and outbound the traffic from the resources.
* Developed pipelines for Infrastructure Automation and developing reusable libraries for CI CD pipelines.
* Installing various application and configuring the applications with security certificates using **ssl** encryption.
* Developed **Lambda** functions using **Boto3** **pyhton** libraries for automating AWS services creation.
* Developed an **automated** approach for lisiting out available resources in specified Accounts and creating a list of resources based on tags for Audit and Cost optimization needs.
* Collaborating with teams for implementing **cloudwatch** alarms and creating automated ticket generations for threshold values.
* Developing containerized infrastructure using **Docker** and simplified the process of **microservices** deployment.
* Provided EMR clusters and installed **Talend** Application for running Hadoop jobs and configuring master and core nodes.
* Developing python funbctions using **Boto3** api calls for creating a database of **Inventory**, Which list all the assets in AWS cloud belongs to my team and developing a process to integrate it with Power BI tool.
* Administrating the application services running on linux and windows servers and developing the **monitoring** solutions for the services using application service logs.

**HonorVet Technologies**

**Client(Capitalone, Richmond –VA) May 2018 – Aug 2019**

**Role:** **DevOps Engineer**

**Responsibilities:**

* Involved in **Architect**, build and maintain Highly Available secure multi-zone AWS cloud infrastructure utilizing **Ansible** and  **Terraform** and **Jenkins** for continuous integration.
* Created AWS stacks to provide infrastructure for hosting internal application which is used for file monitoring, file tracking and alerting the users upon the file movements.
* Configured **AWS IAM** polices for users, utilizing Multi Factor Authentication (MFA) service and API Keys for login authentication and protects the data at rest using (**KMS**) **Key Management Service** and data at transit using (TLS) Transport Layer Security protocol.
* Configure and deploy **AWS Lambda** service to run codes in response to events and automatically manage resources. Configured NAT Gateway to provide a route to backend servers with higher level of security to download and update software packages.
* Created **S3 buckets** and configured **bucket policies** to allow Jenkins IAM role and automate the process of data transfer to glacier and restoration of data from glacier.
* Experience in writing **Terraform templates**. Designed **Terraform templates** and **Packer** to configure the instances and by using the launch configuration the application service start is also automated.
* Performed **Database** **migrations** using flyway tool and **Hashicorp** **Valut** to retrieve the secrets of AWS RDS.
* Managed a cluster of **Docker** nodes as a single virtual system using Clustering and Scheduling Tool.
* Created automated pipelines in AWS Code Pipeline to deploy **docker** containers in **AWS ECS** using services like **Terraform**, Code Commit, Code Build, and Code Deploy.
* Worked on providing PostgreSQL database for application and used flyway to manage database using SQL queries and created schemas and access controls to database
* Implemented a **continuous Integration** and **continuous Delivery** Pipeline with **Docker**, **Jenkins** and **GitHub** Web hooks and build a new Docker container from it.
* Implemented **Jenkins** Workflow and Plugins for repeatable deployments of multi-tier applications, artifacts and services to **Docker** and **Red Hat**.
* Implemented **Blue/Green** Deployments with zero downtime where the current environment is replicated to latest version with **Jenkins** and **Terraform templates** to resolve the bug fixes and redirect the traffic to it once the issues are resolved.
* Automated **builds** using **Maven** and scheduled automated nightly builds using **Jenkins.** Built Jenkins pipe line to drive all **microservices** builds out to the **Docker** registry.
* Deployed the generated build to **Web** and **Application Servers** using the **Continuous Integration** (**CI**) process to all environments and coordinated with different teams to deploy builds to environments on parallel development for multiple projects.
* Implemented the use of **Cloud Watch Alarm**, **Datadog** and **App dynamics** tool for application monitoring and analyzing the network loads on the individual machines and worked on bug tracking tools like **Jira** and automated testing of web applications using **Selenium**.
* Integrated Splunk with the application for file monitoring and the experience in writing Splunk search queries
* Involved in process of **Disaster recovery** and **data replication** of S3 over other availability Zones.

**HonorVet Technologies**

**Client(Evariant, Farmington –CT)**  **Sep 2017 – May 2018**

**Role: DevOps Engineer**

**Responsibilities:**

* Involved in migrating the instances from on premise to AWS and architecting the configuration of instances and stacks.
* Created Spot **AWS EC2** instances for production environment using Spot Fleet and Reserve by analyzing capacity pools depending on containers and Big data in **ECS** and **EMR** along with taking backups with the help of **EBS Snapshots.**
* Experience in managing **Ansible Playbooks**, roles and modules. Designed Rapid Application Deployment (**RAD**) methods using **Ansible** to automatically deploy servers as needed and done custom development by taking playbooks from Ansible Galaxy.
* Integrated Jenkins with **Docker** container using Cloud bees Docker pipeline plugin to drive all **microservices** builds out to the **Docker Registry**. Integrated Selenium automation regression test suite in **Jenkins** build pipeline.
* Written **Python** scripts and integrated them with Ansible to configure the AWS Instances.
* Handling the Application Deployment on the servers (DEV,PROD,TEST) developed using java and java script and node.js
* Written Python and Shell Scripts to automate the cron Jobs and system maintenance.
* Created the **ELK** Stack (Elasticsearch, Log stash, Kibana) for Log managing within EC2 for Elasticsearch with **Rest API's** and setup Log Analysis, AWS Logs using ELK and manage searches, dashboards, custom mapping and automation of data.
* Deployed on AWS using build scripts (Boto3 & AWS CLI) and automated solutions using Shell and Python.

**FireStreamWorldWide, Chennai-India**  **Dec 2014 – March 2016**

**Role: Software Engineer**

**Responsibilities:**

* Develop and maintain cooperative and collaborative relationships with networking, storage, software development, and project management teams.
* Automated and maintained essential IT infrastructure including network protocols, system metrics, and applications.
* Monitor production systems, applications and network performance through the use of various Network Management and Application Monitoring Tools.
* Work with software developers and Quality Assurance to seamlessly migrate applications from development to QA and production.
* Provides support to customers running RedHat Enterprise Linux on their workstations and simulation servers.
* Working closely with other IT departments to help determine and develop systems that will be implemented.
* Creating and routing of tickets related to Active Directory issues Administered and Congured Logical Volume Manager which involved create and modify le system, logical volume, Physical volume, Volume groups, mirroring and un-mirroring of volume groups, hot spare physical volume.
* Install and manage security reporting tools used to monitor changes to the Active Directory.
* Implementation and troubleshooting of network services like NFS, FTP, NTP, Telnet, SSH.
* Developed Unix Shell scripts for regular and periodic jobs and also for system admin jobs.
* Scheduled various regular, periodic, future and queue tasks by using crontab.
* Resolved system errors and crashes, disk space problems, huge le sizes, and le system full errors.
* Performed OS upgrades and Patch loading as and when required.Assisting with analysis, evaluation and preparation of recommendations for system improvements, optimization, development, and/or maintenance efforts.