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**Professional Summary**

* **AWS (Amazon Web Services)** certified **DevOps Engineer** with around **7 years of experience** in IT industry in administration, automation, and operation across various virtual platforms **(UNIX, LINUX and Windows)** with profile of Software Configuration, Build and Release Management with Continuous Integration (**CI**) & Continuous **Deployment/ Delivery** as an iterative process and Automation of infrastructure including end-to-end code configuration.
* Experience as a developer writing shell **script, Python,** scripts to automate the deployments.
* Expertize in **Amazon AWS Cloud Administration Services:** IAM, EC2, S3, Lambda, EBS, VPC, ELB, Faregate, RDS, Dynamo DB, Auto Scaling, Security Groups, Redis, Cache Redshift, **Amazon AWS IAM Services** in Users, Groups, Policies, Roles, AWS Access Keys and MFA.
* Strong hand-on expertise on configuring and integrating the servers with different environment and creating new machines using configuration management/provisioning tools like **ANSIBLE** (Playbook, inventory).
* Developed Cron jobs and **Shell Scripts and Python** for automating administration tasks like file system management, process management, backup and restore.
* Worked on **GIT** administration including **Branching strategies**, user management, repo migration, repo creation, repository **Hooks** script implementation.
* Hands-on experience in designing **Azure** **Resource** **Manager** **Template** and good experience in designing custom build steps using **PowerShell.**
* Intensive involvement in **Infrastructure** **as** **Code** (**IAC**), execution plans, resource graph and change automation using **Terraform**. Managed AWS infrastructure as code using **Terraform**.
* Experience in Kubernetes to deploy scale, load balance, and manage Docker containers with multiple names spaced versions using **Helm charts**.
* Experience in managing local deployments in **Kubernetes**, creating local cluster, and deploying

application containers.

* Performed database and **SQL/TSQL performance** tuning.
* Experience in configuring and deploying the **Elasticsearch, Logstash, Kibana** (ELK) stack to monitor network and systems logs.
* Experience in working with version control systems/ source code repository tools like **Subversion, Bitbucket, GIT, CVS, GitHub** maintaining/troubleshooting the CM tool in UNIX and Windows environment.
* Worked with **Kubernetes** to manage containerized applications using its nodes, ConfigMaps, selector, Services and deployed application containers as Pods.
* Writing **Terraform** scripts, modules for provisioning cloud aws services and Azure services.
* Developed and designed data pipelines for the applications to scale daily activities and Devops scripts in Groovy to automate and creating Jenkins jobs and pipelines.
* Created **Docker** containers to build, ship and run the images to deploy the applications, and worked on several **Docker** components like **Docker Engine, Docker-Hub, Docker-Compose, Docker Registry** and **Docker** **Swarm**.
* Skilled in maintaining **CI** environments with build automation tools like **Jenkins**, **Bamboo** and extensively used **Jenkins** to streamline **CI/CD** process, automated **Master-Slave** configurations using temporary slaves.

**Technical Skills**

* **Version Control Tools:** Bitbucket, GIT, CVS, GitHub
* **Build Tools:** Ant, Gradle, Maven
* **Continuous Integration Tools:** Drone, Jenkins, Bamboo, Azure devops
* **Configuration Management Tools:** Ansible, Puppet
* **Monitoring Tools:** Elastic Search, ELK, Cloud Watch, Grafana, Splunk
* **Programming and Scripting Languages:** Shell, PowerShell, Python, Ruby, BASH
* **Databases:** SQL, MySQL, RDBMS, Oracle, PostgreSQL, and MongoDB
* **Bug Tracking:** JIRA, Atlassian, Rally
* **SDLC Methodologies:** Agile, Waterfall
* **Cloud Technologies:** Amazon Web Services (AWS), Microsoft Azure
* **Scripting Languages:** Python, Shell Script, terraform and Groovy,.NET, Java Scripting,
* **Web/ Application Servers:** Apache Tomcat, WebSphere, Nginx, NetBeans
* **Artifactories:** Nexus, Artifactory
* **Orchestration Tools:** Terraform, Docker, Kubernetes, Vmware
* **Operating Systems:** Linux (Red Hat, CentOS, Ubuntu), Windows
* **Virtualization Technologies:** VMWare, Virtual Box. Windows Hyper-V.

**Education Qualifications & Certification**

**Master of Science - Computer and Information Sciences** **Jan 2016 - May 2017**

**Bachelors – Electronics and Communications Engineering-JNTU-H July 2010 – June 2014**

**Professional Experience**

**Client: John Deere (Moline, IL). August 2019 - Present**

**Role: AWS Devops Engineer**

**Responsibilities:**

* Development of scripts/tools to ensure streamlined/automated application & infrastructure deployment by using **python, and shell scripting and** developed UI using html
* Developed API for using AWS Lambda to manage the servers and run the code in the AWS and Gitlow methodology.
* Assists with **data warehouse development** and enhancement.
* Upgraded/migrated SQL server Instances databases from older versions SQL servers to new version of SQL servers.
* Experience and in-depth Knowledge in the strategy and practical implementation of **AWS Cloud-Specific technologies and Azure specific technologies** including EC2, EBS, S3, VPC, ECS, RDS, SES, ELB, Redis, Cache, Cloud Front, Cloud Formation, Fargate, Elastic Cache, Cloud Watch, Lambda, SNS, Dynamo DB.
* Converted existing **AWS** infrastructure to server-less architecture (**AWS** **Lambda, Glue**) and deployed it via **Terraform**. **Migrated data from Datacenters and on-premises to Cloud using AWS Import/Export Snowball service.**
* Configured and **maintained SQL server** reporting services
* Upgraded/**migrated SQL server Instances** databases from older versions SQL servers to new version of SQL servers.
* Used **AWS Command Line Interface** (CLI) tool to manage AWS services, automating through scripts.
* Managed **Kubernetes** charts using Helm. Created reproducible builds of the **Kubernetes** applications, managed **Kubernetes** manifest files and Managed releases of Helm packages.
* Experience in managing and setting up **Continuous Integration** using tools like **Drone, Jenkins and Azure devops.**
* **Expert in Agile development processes including Test Driven Development and Test Automation.**
* Setting up automation for **cloud** and on-premises infrastructure, troubleshooting production issues.
* Designing, implementing, and support of **containerized** applications, running on highly available, cloud and physical based nodes as well deployed applications on Elastic Container Services ECS and EKS.
* Provided **24/7 on call support**
* Troubleshooting complex network architecture using technologies like: **proxy**, **firewall**, and **DNS**
* Used Test driven approach for developing the application and implemented the unit tests using **Python** Unit test framework.
* Good understanding **of high-level data architecture, data models** and flow pattern
* **Elasticsearch** and **Logstash** performance and configuration tuning
* Focused on automation and **continuous integration**. Automated local development environment using puppet.
* **Configured service** end points, service objects, deployment objects, Ingress controller for the Kubernetes Cluster; resolved issues with the Kubernetes Master node etcd, scheduler, kubelet services.
* Implementing new projects builds framework using **Jenkins**, Cruise control& **Maven** as build framework tools.
* Implementing a **Continuous Delivery** framework using Jenkins, Ansible in Docker container environment.
* Building/Maintaining Docker container managed **by Kubernetes** Linux, Bash, GIT, Docker, on Virtualization (Vmware) Utilized Kubernetes and Docker for the runtime environment of the CI/CD system to

build, test deploy on amazon ECS and EKS.

* Created and maintained **Python scripts** for Automating Build and Deployment process and Creating Web based Application by Using Django Framework.
* Integrated **AWS** with other systems like **Jenkins**, **Chef** and **HP** service Manager to develop CI/CD pipelines for automating **Prod** deployments using **REST APIs**.
* Developed and designed data pipelines for the applications to scale daily active users.
* Experienced in configuring AWS CDK modules to deploy the code in the cloud.
* Performed database and **SQL/TSQL Queries**, Stored-Procedures, functions and Triggers.
* Launching **Amazon** **EC2** **Cloud** Instances using **Amazon** **Web** **Services** (**Linux**/ **Ubuntu**) and configuring launched instances with respect to specific applications.
* Developed **Microsoft** **Azure** Data Factories to move data within Cloud environment and from cloud to **On** **Premises**, Extraction Transforming data as per business requirement and Resolving Production Issues.
* Extensively Implemented Continuous Integration and deployment using various Continuous Integration tools like **Jenkins, Bamboo**, and knowledge on TeamCity.

**Client: Grainger/Sharp Infotech (Frisco, TX). May 2019- Aug 2019**

**Role: AWS Devops Engineer**

**Responsibilities:**

* Experience in creating Jenkins file in the root of a repository by using Groovy that contains a definition of Jenkins
* Pipeline to automatically manage and execute jobs based on repository branches.
* Written some Groovy scripts for setting up LDAP configuration for Jenkins using security matrix.
* Development of scripts/tools to ensure streamlined/automated application & infrastructure deployment by using python and shell scripting.
* Worked on Ansible playbooks, which were written in YAML and maintain different Ansible roles
* Written some Groovy scripts for setting up LDAP configuration for Jenkins using security matrix.
* Development & implementation of automation solutions, processes and tools in support of the cloud lifecycle; including infrastructure & application uptime, availability, and performance monitoring
* Ensuring all infrastructure components meet proper performance and capacity standards
* Analyzing existing operational procedures and presenting recommendations for the improvement
* Installed and configured the Jenkins, Jenkins’s plugins, job setup, pipeline and delivery pipeline views and also build automation using Jenkins’s server.

**Client: Early Warning Services (Tempe, AZ). Jan 2018- Jan 2019**

**Role: Cloud Engineer.**

**Responsibilities:**

* **Developing automation using python and java,spark for cloud and on-premises infrastructure**
* Experience and in-depth Knowledge in the strategy and practical implementation of **AWS Cloud-Specific technologies** including EC2, EBS, S3, VPC, RDS, SES, ELB, ECS, EKS, Cloud Front, CDK, Cloud Formation, Elastic Cache, Cloud Watch, Fargate**,** Lambda Dynamo DB.
* Development of scripts/tools to ensure streamlined/automated application & infrastructure deployment by using **python and shell scripting.**
* Configured the auto scaling as per the application user traffic and managing the **multi-tier** and multi-region architecture
* using AWS Cloud Formation and utilizing AWS CLI to create and access Resources.
* Worked on creation of **Docker containers** and Docker consoles for managing the application life cycle.
* Development & implementation of **automation** solutions, processes, and tools in support of the cloud lifecycle; including infrastructure & application uptime, availability, and performance monitoring
* Implemented migrations and orchestrated large-scale Infrastructure from **on-premises** to **AWS** Cloud using **Terraform** and **Cloud Formation** templates.
* Responsible for design and maintenance of the **GIT** repositories and the access control strategies.
* Used **Terraform** in **AWS** **Virtual Private Cloud (VPC)** to automatically setup and modify settings by interfacing with control layer.
* Provisioned the highly available **EC2** instances using **Terraform** and **Cloud Formation** and wrote new plugins to support new functionality in **Terraform**.
* Manage code repository, Improve Code Branching & Merging processes.
* Improve application development compliance through **automation.**
* Provide oversight, standardization and validation of system and application architecture.

**Client: Spectra Info Systems Inc Alpharetta, GA Sep 2017- Dec 2017**

**Role: AWS Developer**

**Responsibilities:**

* As member of AWS Developer group, redefined processes and implemented tools for software builds, patch creation, source control, and release tracking and reporting, on UNIX platform.
* Familiar with Atlassian tool stack such as Jira, Bamboo, Bitbucket and confluence.
* Strong experience in System Administration, Installation, Upgrading Patches, Configuration,
* Maintained the various project repositories using the GitHub and GIT.
* Experience and in-depth Knowledge in the strategy and practical implementation of AWS Cloud-Specific technologies including EC2, EBS, S3, VPC, Lambda, RDS, SES, ELB, Cloud Front, ECS Cloud Formation, Elastic Cache, Cloud Watch, RedShift, Lambda, SNS, Dynamo DB.
* Worked in an Agile / Scrum development team to deliver an end-to-end continuous integration and continuous deployment in SDLC.
* Worked on Terraform API modules to manage infrastructure and published a module to the Terraform registry and contributed to end-to-end configuration management and deployed our product inside AWS environment.
* Experience developing with API development including OpenAPI and swagger.
* Wrote Ansible Playbooks with YAML to Manage Configurations of AWS nodes and tested Playbooks on AWS
* instances using Python and scheduling jobs using Ansible Tower.
* Documented project's software release management procedures with input decisions.
* Configured AWS Identity Access Management (IAM) Group and users for improved login authentication
* Creating the Automation Build and deployment process for application, re-engineering setup for better user experience, and leading up to building a continuous integration system.
* Developed Devops scripts in Groovy to automate and creating Jenkins jobs and pipelines
* Established processes and tools to maintain code base integrity, including check-in validation rules and branch/merge processes.

**Client: Global Foundries, Bengaluru, India Jun 2014– Nov 2015**

**Role: Linux Administrator**

**Responsibilities:**

* Involved in installation, configuration and administration of Apache Web server, BEA Web Logic and IBM Web sphere and Samba Server in UNIX, Linux and Windows environment.
* Experienced in installing and configuring SSH (Secure Shell) encryption in order to access securely on Ubuntu and Red hat Linux.
* Installed and configured SSH (Secure Shell) encryption in order to access securely on Ubuntu and Red hat Linux.
* Day to day administration & operation of application components in a PaaS & IaaS environment (Windows & Linux).
* Responsible for configuring and connection to SSH through SSH clients like Putty and Cyber duck.
* Configured and maintained SQL server reporting services
* Configured NFS, NIS, NIS+, DNS, and disk space management on Linux/Unix servers.
* Extensive use of volume management tool using Logical Volume Manager to create disk groups.
* Installation, Configuration and Administration of High Availability using RedHat cluster and Veritas Cluster Servers for failover and redundancy purpose.
* Worked on a project for the Linux system using CloudFormation to allow developers to spin up instances for development without giving them too much control.
* Set up Linux servers for iSCSI LUN boot instead of using local hard disk.
* Experience in Linux Administration (Installation, Configuration, Tuning and Upgrades of Linux (Red Hat, CentOS, SUSE and Ubuntu, Oracle).