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## Career Overview:

Successful AWS/ DevOps Engineer around 7+ years of professional Experience dedicated to automation and optimization. Understands and manages the space between operations and development to quickly deliver code to customers. Has experience with the Cloud, as well as DevOps automation development for Linux systems. **Seeking a position in AWS/ DevOps** to contribute my technical knowledge.

**Core Qualifications:**

* Administration and **Architect of public and private cloud platforms (AWS).**
* Experience in **Linux Administration, Configuration Management, Continuous Integration (CI), Continuous Deployment, Release Management and Cloud Implementations**.
* Hands on Experience in using configuration management tools like **Puppet/ Chef/AWS/Openstack**.
* Build servers using AWS, Importing volumes, launching **EC2, RDS,** creating security groups, **auto-scaling, load balancers (ELBs**) in the defined virtual private connection.
* Proficient in AWS Cloud platform and its features which includes **EC2, VPC, EBS, AMI, SNS, RDS, EBS, CloudWatch, Cloud Trail, CloudFormation AWS Config, Autoscalling, CloudFront, IAM, S3, and R53.**
* **Implemented** Amazon **EC2** setting up instances, virtual private cloud (**VPCs),** and security groups.
* Set-up databases in **AWS using RDS**, storage using **S3 bucket** and configuring instance backups to S3 bucket.
* Design **EC2 instance architecture** to meet **high availability** application architecture and security parameters.
* Create AWS instances via **Jenkins with EC2 plugin** and integrated nodes **in Chef via knife** command line utility.
* Worked with **IAM** service creating new **IAM users & groups**, defining roles and policies and Identity providers.
* Manage amazon redshift clusters such as launching the cluster and specifying the node type as well.
* Created **alarms** and trigger points in **Cloudwatch** based on thresholds and monitored the server's performance, CPU Utilization, disk usage.
* Utilized **AWS Cloud watch** to monitor environment for operational & performance metrics during load testing.
* Manage **amazon redshift clusters** such as launching the cluster and specifying the node type as well.
* Define **Chef Server** and workstation to manage and configure nodes.
* Experience in Writing **Chef Recipes** to automate our **build/deployment** process and do an overall process improvement to any manual processes.
* Experience of database technology such **SQL, PLSQL, and MySQL** including **NoSQL databases**.
* Implanted **Continuous Integration** concepts using **Hudson, Bamboo, Jenkins** and **AnthillPro**.
* Extensively worked on **Jenkins/Hudson** by configuring and maintaining for the purpose of continuous integration (CI) and **for End to End automation** for all build and deployments.
* Work on source control tools like **GIT, Perforce on UNIX & Windows Environments** migrated subversion repositories to GIT and integrated Eclipse **IDE** with different versioning tools like Subversion and Git.
* Created and maintained **Branches, labels, work spaces on Git,** Participated in merging of source code.
* Skilled at setting-up Baselines, **Branching, Merging** and **Automation Processes** using **Shell and Batch Scripts** and also supporting the developers in writing configuration-specs.
* Implemented **Docker** based Continues Integration and **Deployment framework**.
* Extensively experienced in using **Build Automation tools** like **ANT, Maven, Gradle** and working knowledge on other build tools like **MS Build Makefile**.
* Install, configure, modify, test & deploy applications on **Apache Webserver, Nginx & Tomcat, JBoss App Servers.**
* Experience in monitoring **System/Application Logs of server using Splunk** to detect Prod issues.
* Broad experience in **Bash, Perl, Python scripting** on Linux. Strong knowledge on **Linux internals**.
* Experience with Bug tracking tool like **JIRA, Bugzilla and Remedy**.
* Developed **Puppet modules** to automate **deployment, configuration**, and **lifecycle management of key clusters.**
* Proposed branching strategy suitable for current application in Subversion.
* Experienced with the understanding of the principles and best practices of **Software Configuration Management (SCM)** processes, which include compiling, packaging, deploying and Application configurations.

**TECHNICAL SKILLS**

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| Cloud Technologies | Amazon Web Services: EC2, S3, ELB, Auto scaling Servers, Glacier, Storage Lifecycle rules, Elastic Beanstalk, Cloud Front, Functional knowledge of Import/Export Snowball, Elasti Cache, RDS, Redshift, VPC, Direct Connect, Route 53, Cloud watch, Cloud trail, ops work, IAM &Roles, SNS subscription service, Dynamo DB, SNS, SQS, S3 |
| Version Control Tools | GIT, GIT Hub, SVN, Perforce, CVS, Harvest |
| Databases | MySQL, MS Access, Oracle, SQL Server 2005, 2008, NoSql Dynamo DB. |
| Application/Web Server | Oracle, Apache Tomcat, Nginx, Oracle Application Server, WebSphere. |
| SDLC | Agile, Scrum methodologies. |
| Deployment Tools | Chef, Puppet, Docker and Splunk |
| IAAS | AWS, OpenStack, Microsoft Azure and Rackspace |
| Scripting Languages | UNIX Shell scripting, Perl scripting, XML, JAVA, PHP, POWERSHELL, Python. |
| Languages | C, C++, java, PHP, T- SQL, JBoss . |
| Operating Systems | Red Hat, UNIX, Linux, WINDOWS, Android. |

## Relevant Experience

**Verizon Telematics, GA, USA 2021 Oct-Present**

**AWS Cloud Engineer**

**Responsibilities:**

* 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.
* Build and configure 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 Tables, Elastic Load Balancer**.
* Continuously managed and improved the **build infrastructure** for global software development engineering teams including implementation of **build scripts, continuous integration infrastructure and deployment tools.**
* Used **AWS BeanStalk** for deploying and scaling web applications and services developed with **Java, PHP, Node.js, Python, Ruby, and**[**Docker**](https://aws.amazon.com/docker/) on familiar servers such as **Apache, Nginx and**[**IIS**](https://aws.amazon.com/windows/) **.**
* Designed AWS Cloud Formation templates to create **custom sized VPC, subnets, NAT** to ensure successful deployment of Web applications and database templates.
* Implemented automated local user provisioning **instances created 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**.
* Provide highly durable and available data by using **S3 data store**, versioning, lifecycle policies, and **create AMIs for mission critical production** servers for backup.
* Maintained the user accounts **(IAM), RDS, Route 53, VPC, RDB, Dynamo DB, SES, SQS and SNS** services in **AWS cloud.**
* Developed critical modules like generating **amazon resource numbers** and integration points with **S3, DynamoDB, RDS, Lamda and SQS Queue.**
* Experience in network related security aspects by **Encryption and Decryption using AES**.
* Implemented rapid-provisioning and life-cycle management **for Ubuntu Linux using Amazon EC2, Chef, and custom Ruby/Bash scripts**
* Designed and **implemented scalable, secure cloud architecture** based on Amazon Web Services.
* Defined **branching, labeling, and merge strategies for all applications** in Git.
* Built Continuous Integration environment **Jenkins and Continuous delivery environment.**
* Utilized Configuration Management tool **Chef & created Chef Cookbooks** using recipes to automate system operations.
* Install, configure, modify, test & deploy applications on **Apache Webserver, Nginx & Tomcat, JBoss App Servers.**
* Responsible in maintaining legacy **bash scripts** used to configure environments not yet converted to **Chef.**
* Deployed applications on **AWS** by using **Elastic BeanStalk**
* Integrated delivery (**CI and CD** process) Using **Jenkins and puppet**.
* Configured plugins for the integration tools to the version control tools.
* Manage source code, software builds, software versioning, & defect tracking on software maintenance tasks/projects.
* Used **AWS Data Pipeline** for creating complex data processing workloads.
* Used **ANT and MAVEN** as a build tools on java projects for the development of build artifacts on the source code.
* Encrypted and Decrypted data using **AES 128 Algorithm** and used **MariaDB** Database for storing Data and all other database interactions.
* Experience in Developing **KORN, BASH, PERL, Python shell scripts** to automate cron jobs and system maintenance. Scheduled cron jobs for job automation.
* Responsible for moving data between different **AWS compute and storage services** by using **AWS Data Pipeline.**
* Created a **Python** processhosted on **Elastic Beanstalk** to load the **Redshift database daily from several source**
* 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 Chef**.
* Administered and Engineered **Jenkins for managing weekly Build, Test** and **Deploy chain, SVN/GIT with Dev/Test/Prod Branching Model for weekly releases.**
* Created monitors, alarms and notifications for **EC2 hosts using CloudWatch.**
* **Migrated applications** to the **AWS cloud.**
* **Involved** in **DevOps processes** for build and deploy systems.
* **Created Python scripts** to totally **automate AWS services** which **includes web servers, ELB, Cloudfront distribution, database, EC2** and **database security groups, S3 bucket** and **application configuration,** this script creates stacks, single servers, or joins web servers to stacks.
* **Grasp the Technical aspects** from **High level** to create **Deployment plans, Contingency Plans** and which direction to go if they hit a snag.
* Planned **release schedules with agile methodology** & **coordinated** releases with **engineering & SQA** for timely delivery.
* **Troubleshoot** the **automation of Installing** and configuring applications **in the test environments.**
* Daily routine is to deploy the code to the lower environments, automating the deployments.

**Environment:** AWS Cloud, Chef, Python, AWC EC2, Ant, Maven, Git, Nagios, Subversion, Jenkins, Unix/Linux, Shell scripting.

**Pfizer, Inc., Groton, CT Nov 2020–Oct 2021**

**AWS Cloud Engineer/DevOps Engineer**

**Responsibilities:**

* **Installed, deployed, and upgraded AWS Cloud-based servers and services in accordance with Federal standards and project guidelines.**
* Creating the **automated build and deployment process** for **application, re-engineering setup** for better user experience, and leading up to building a continuous integration system for all our products.
* Responsible for **Design and architecture** of different **Release Environments** for new projects.
* **Writing Maven and Ant scripts** for application layer modules.
* Implementing new projects **builds framework using Jenkins & maven** as build framework tools.
* Defining **Release Process** & **Policy for projects** early in **SDLC.**
* Implementing a **Continuous Delivery framework** using **Jenkins, Chef, Maven & Nexus** as tools.
* System **monitoring** with **Nagios & Graphite**.
* Business data analysis using Big Data tools like **Splunk,**  **ELK**
* Recorded the state of current directory by using **GIT Stash.**
* Prepared projects, dashboards, reports and questions for all **JIRA related services.**
* Generated scripts for **effective integration of JIRA applications** with other tools.
* Coordinate/assist developers with establishing and applying appropriate branching, labeling/naming conventions using **Subversion (SVN)** and **Git** source control.
* Configured **plugins** for the **integration tools** to the version control tools.
* Maintained build related scripts developed in shell for Maven builds. Created and modified build configuration files including **POM.xml**.
* Worked with **development/testing**, **deployment, systems/infrastructure** and project teams to ensure continuous operation of build and test systems.
* Managed **Git repository**, **code merging**, and **production deployments.**
* Branching and **merging code lines** in the **GIT** and resolved all the conflicts raised during the merges.
* Designed h**ighly available, cost effective** and **fault tolerant systems** using multiple **EC2 instances, Auto Scaling, Elastic Load Balance and AMIs.**
* **Highly skilled** in the usage of **data center automation and configuration management** tool such as **Docker**.
* Responsible for configuring management of different application layer modules.
* Perform **Deployment of Release** to various **QA & UAT environments**.
* Ensured processes are deployed successfully to production environment.
* Supporting different projects **build & Release SCM** effort e.g. **branching, tagging, merge**, etc.

**Environment:** AWS, Jenkins, Maven, Subversion, Ant, Bash Scripts, Git, Stash, Docker, Jira, Implementing a Continuous Delivery framework using Jenkins, Chef, and Nexus in Linux environment. VERITAS Netback up 4.x/5.x/6.x, Solstice Disk Suite, OpenStack.

**Siemens Healthcare, GA Feb 2018–Nov 2020**

**Build & Release Engineer**

**Responsibilities:**

* As member of **Release Engineering group,** **redefined processes and implemented tools for software builds, patch creation, source control, and release tracking and reporting, on UNIX platform.**
* Installed and configured **Jenkins for Automating Deployments** and providing an automation solution.
* Integrated **GIT** into **Jenkins** to **automate the code check-out process**.
* Used **Jenkins** for **automating Builds** and **Automating Deployments**.
* Maintain and track inventory using Jenkins and set alerts when the servers are full and need attention.
* Designed the **Release Plans** while coordinating with **Stake Holders** including **Project Management Lead, Development Lead and QA Team Lead.**
* Experience working with **Puppet Enterprise** and **Puppet Open Source**. Installed, configured, upgraded and managed **Puppet master, agents & Databases**.
* Integration of **Puppet with Apache** and developed load testing and monitoring suites in **Python.**
* Automating the regular tasks in **Subversion** and streamlining the process of **access to SVN**.
* Migrated Projects from **SVN to GIT**.
* Developed **build and deployment scripts** using **ANT and MAVEN** as build tools in **Jenkins** to move from one environment to other environments.
* Installation of **Application** on **production and Test server** for the use of application development and configuration.
* Work with product development to **resolve build-related issues** in all projects provided **support for Application issues.**
* Responsible to perform **Build operations** with **ANT Scripts**, while implementing the required modifications in the **ANT Script** to perform **build operations**, in accordance with requirements.
* Configured the **Hosted, Proxy** and **Virtual repositories** based on the requirements to share artifacts with in company.
* Performed database deployment activities like **execution of Database scripts.**
* Dealt with **Jira as ticket tracking** and work flow tool.
* Releasing code to testing regions or staging areas according to the schedule published.

**Environment:** UNIX, Jenkins, Windows, Subversion, GIT, ANT, MAVEN, Jira, Puppet, Test Manager.

**Virtusa, Hyderabad, India Aug 2017–Feb 2018**

**Client: Lakefront Solutions, Brookyln, MI**

**Linux/Unix Administrator**

**Responsibilities:**

* **Installed/Configured/Maintained/Administrated** the network servers **DNS, NIS, NFS, SENDMAIL**, Involved in Adding new disks, formatting, partitioning, disk space allocation, monitoring system performance, system tuning, server hardening and crash recovery issues.
* Responsible for installing, configuring, maintaining, upgrading and troubleshooting **EMC power path on Solaris 10 and Linux.**
* Implemented security in systems and network for all **Sun Enterprise Servers** & Desktop Servers, Implemented the skills of Load balancing for edge components using **F5's Big IP load sprayer.**
* Installed and configured **Solaris 10 servers** with **Zones and containers** on SUN M5000 and T2000 Servers with **SUN ZFS.** Implemented **SUDO, SSH** and other security tools.
* Administered file system and volumes using **VERITAS Storage** Foundation**, Solaris Volume Manager** **on Solaris** and **Logical Volume Manger on Linux**. Installed and Configured VERITAS Volume Manager for Development, Test and Production environments.
* Key participant in **implementation and integration** of **three new data centers including physical, logical and application level testing** and support and developed and executed test plans for **VERITAS Cluster with Netapp SAN.**
* Installed and configured **Red Hat Satellite server** for package transfer across servers, to store client's system profile and to control other servers in the network.
* Package management like **Install, remove** and update and querying packages using **RPM tool.**
* Maintained **Load balancing, High availability, Failover** functionality and **Disaster recovery** included changing IP address of the web and app server machines, which caused change in the virtual host and http transport configurations.
* Provided **24x7 on-call supports** in debugging and fixing issues related to Linux, Solaris, HP-UX Installation/Maintenance of Hardware/Software in Production, Development & Test Environment as an integral part of the Unix/Linux **(RHEL/SUSE/SOLARIS/HP-UX/AIX)** Support team.
* Monitoring of **space availability** on each file system using the **Shell Scripts**.
* Monitored the performance of the system using **ps, prstat, vmstat, mpstat, perfmeter** and **iostat** to check the **CPU utilization**, bottlenecks of **I/O devices**, Memory usage and Network traffic.
* Responsible for configuring **Postfix mail relays** with **Mail Exchangers**, Bind **DNS Server** and clients, **SNMP v3 and NTP** relays.
* Worked in environment containing Solaris zones/containers and involved extensively in trouble shooting the issues by finding out root causes, analyzing core dumps and resolved system crashes.
* Supporting servers with **Oracle 10g** and **MySQL Databases,** coordinating with DBA's for **Kernel Tuning and performance monitoring.**

**ICICI Bank, Hyderabad, India June 2016-Aug 2017**

**Linux/Unix Administrator**

**Responsibilities:**

* **Installation, configuration and administration** of Ubuntu and Red Hat Enterprise Linux.
* Created User Accounts and Network Shares. Configured SUN Workstations as Domain Clients.
* **Administrated NFS, NIS, DHCP** and DNS Samba services running on AIX, Sun Solaris and Red Hat Linux.
* Worked with Storage team to configure **SAN and NAS configuration**.
* Responsible for installation and upgrade of patches and packages on RHEL 5/6 using **RPM & YUM.**
* Applying web and middleware software upgrades and patches.
* Enable application tracing on the application server level inorder to troubleshoot a problem.
* Schedule maintenance request in **Test, QA** and Production environments in line with change management procedures and guideline.
* Troubleshooting distributed systems at runtime.
* Fundamental understanding of Application and **JVM** Tuning.
* Experience working in a 24x7 Production environment.

**Environmen**t: RHEL, Ubuntu, RPM, YUM, software upgrades, troubleshooting**.**