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**Professional Summary**

Cloud/Devops Engineer with around 7 years of IT industry experience in administration, automation & operation across various virtual platforms (UNIX, LINUX, Windows) with delivery management, design, development, release, deployment and Cloud implementation with **CI & CD.**

* Hands-on experience using Enterprise DevOps technologies and tools, such as **AWS,** **Kubernetes, Docker**, **Jenkins, GIT Lab, Bit Bucket, Maven, Nexus, Selenium, Chef and Ansible.**
* Expertise in **AWS Cloud** that has services **EC2, S3, EBS, VPC, ELB, AMI, SNS, RDS, IAM, Route 53, Auto scaling, Cloud Front, Cloud Watch, Cloud Trail, Cloud Formation and Security Groups**. And updated existing AWS infrastructure to server less architecture (**AWS Lambda**), deployed via **Terraform** and **AWS Cloud formation**.
* Experience in building cluster-based platform in AWS Cloud and wrote **Cloud Formation** Templates for provisioning infrastructure and created custom sized VPC, Subnets, NAT to ensure successful deployment of Web applications.
* Created automated pipelines in AWS **CodePipeline**to deploy **Docker**containers in AWS **ECS**using services like **CloudFormation**, **CodeBuild**, **CodeDeploy**, **S3**and **puppet.**
* Experience dealing with Microsoft **Azure** IaaS – **Virtual Networks, Virtual Machines, Cloud Services, VPN, Resource Groups, Express Route, Load Balancing, Application Gateways, Auto- Scaling and Traffic Manager.**
* Experience in provisioning of **IaaS**, **PaaS** Virtual Machines and Web, Worker roles on Microsoft AZURE **Classic** and Azure Resource Manager (**ARM**), Deployed Web applications on Azure using **PowerShell** Workflow and Used **Jenkins** as Continuous Integration tools to deploy the Spring Boot **Microservices** to **Azure Cloud** and **OpenStack** using build pack.
* Experience in creating **ARM templates** for **Azure** platform and in migrating on premise to Windows Azure using Azure Site Recovery and Azure backups.
* Knowledge on **SaaS**, **PaaS** and **IaaS** concepts of cloud computing architecture and Implementation using **AWS**, **OpenStack, OpenShift, Pivotal Cloud Foundry (PCF)** and **Azure**.
* Experience in using OpenStack CLI to interact with **OpenStack Services** like Nova, Neutron and Keystone and having experience in provisioning and optimizing of compute, network, and storage services with OpenStack through dashboard, command-line and API utilities.
* Strong knowledge on Google Cloud Platform (**GCP**) **Compute** Engine, **Kubernetes** Engine, **App** Engine, **Cloud** Functions, **Datastore**, **Bigtable** and Cloud **storage** services. Hands on experience in cloning an **OpenStack** **mini** Cluster in GCP Compute service.
* Implemented **Continuous Integration** and **Continuous** **Delivery** using **Jenkins, Maven** and **GIT** as well a**s** branching, tagging, merging and maintaining the version across the environments using version control tools such as **GIT**, **Bit Bucket** and **SVN**.
* Extensively worked on **Jenkins** and Bamboo for installing, configuring and maintaining **continuous integration** (CI) and for End to End automation of all builds and **deployments.**
* Proficient in execution of software delivery automation using **Jenkins, Nexus**, and similar tools and demonstrated how coding practices are influenced by **SonarQube code quality scan**.
* Worked with configuration **management tools** such as **Ansible** and **Chef** for process automation and managing infrastructure with strong knowledge on **Ansible Roles**, inventory, **Ansible Tower, Ansible Galaxy** and worked with various aspects of **Chef** such as **chef server**, **workstations**, Nodes, **chef clients** and various components such as push jobs, super market etc.
* Hands on experience with AWS EC2 and developed **Ansible** playbooks to manage systems configuration.
* Advanced knowledge in managing AWS services such as CloudWatch (Events/Logs), IAM, CloudTrail and EC2 Systems Manager.
* Experience working on several Docker components like **Docker Engine, Hub, Machine, Compose and Docker Registry**.Designed **Docker images** & linked Docker containers for secured way of data transfer.
* Experience with **OpenShift,** **Docker swarm, Kubernetes and clustering frameworks**. Automated application deployment in cloud using **Docker’s Elastic Container Service Scheduler.** Experience with application level containerization management with **Docker** and **Kubernetes.**
* Experience in implementing **Kubernetes auth** method to authenticate with **HashiCorp Vault** using a Kubernetes Service Account **Token** then integrates Vault token into a Kubernetes **Pod**.
* Implemented Data storing in MySQL. Vault (by **HashiCorp**) secures, stores and tightly controls access tokens and passwords used by the overall platform, started in the **AWS** cloud and currently integrates with several services like: **AWS IAM, Amazon DynamoDB, Amazon SNS, Amazon RDS**.
* Worked in development, testing and production environment using SQL, PL/SQL procedure, python, Ruby, PowerShell and shell scripts and managed hosting the servers like Tomcat, apache and **NGINX**
* Extensive experience with **Build automation** and standardization tools such as **ANT, Gradle** and **Maven**.
* Experienced in authoring pom.xml files, performing releases with the **Maven release plug-in**, mavenization of Java projects and managing Maven repositories and researched, implemented **code coverage** and unit test plug-ins with Maven.
* Ability to build deployment, build scripts and automated solutions using scripting languages such as **Shell scripting (Bash)** and **python** and having good knowledge **on Groovy scripting.**
* Experience in **Administering Linux** with Exposure to scripting languages such as **Ruby, Perl**, **Power Shell** and wrote multiple scripts in **python** to schedule cron jobs for monitoring server resources, CPU usage.
* Worked on web servers such as **Apache** and application servers such as **Tomcat, Web sphere, IIS and** **JBOSS** to deploy code.
* Experience in Installation, Configuration, Backup, Recovery, Maintenance, support and Creating Linux Virtual Machines using VMware Virtual Centre (ESXI), hypervisor-v and PHP Virtual Box.
* High exposure to ServiceNow, Remedy and **JIRA** defect tracking tools for tracking defects and changes for Change management.
* Experience working with log monitoring tools syslog and **ELK Stack** (Elastic search, Logstash, Kibana), also used **Cloud Watch, Nagios, New Relic** and **Splunk** for monitoring.
* Exposure to development and modification of **SQL** queries and stored procedures to meet business requirements and achieve desired performance.
* Strong ability to troubleshoot any issue generated while building, deploying and during production.

**Technical Skills**

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| --- | --- |
| Cloud Environments | AWS, Azure, Google cloud platform, OpenStack, pcf |
| Containerization Tools | Docker, Kubernetes, Docker Swarm |
| Configuration Management Tools | Chef, Puppet, Ansible, Salt stack, AWS system Manager |
| Monitoring Tools | Splunk, Dynatrace, Nagios, ELK, Datadog, AppDynamics, Grafana, Prometheus, AWS Cloud Watch |
| Databases | Oracle, MySQL, MongoDB, SQL Server, MS SQL, NOSQL, Cassandra, DB2 |
| Build Tools | ANT, MAVEN, Hudson, Jenkins, XL release and XL deploy |
| Version Control Tools | TFS, GIT, GIT Hub, Perforce, BIT BUCKET |
| Web Servers | Apache, Tomcat, Web Sphere, JBOSS, WebLogic Web, Ngnix |
| Languages/Scripts | C, HTML, Shell, Bash, PHP, Python, PHP, Ruby, Java, Yaml, Jason |
| SDLC | Agile, Scrum |
| Operating Systems | Red Hat, Ubuntu, Linux & Windows, CentOS, Debian |

**Experience**

**PNC bank -Pittsburgh, Pennsylvania**

**Sr. Cloud Engineer** 2020 Jan – Present Responsibilities

* Implemented **AWS** solutions managed and created **monitors**, **alarms**, and notifications for **EC2** hosts using **Cloud** **Watch**, created multi **AZ** **VPC** **instances**, configured **Elastic** **Load** **Balancers** with **EC2** **Auto** **scaling** 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**, used **IAM** and its features.
* Designed AWS **CloudFormation** templates to create custom sized VPC, Subnets, NAT to ensure successful deployment of Web applications.
* Used **Cloud Front** to deliver content from AWS edge locations to users, allowing for further reduction of load on front-end servers, Managed and analysed the petabyte-scalable data using **AWS Redshift cluster**.
* **Architected** and configured a virtual data center in the **AWS** cloud to support Enterprise Data Warehouse hosting including Virtual Private Cloud (**VPC**), **Public** and **Private Subnets, Security Groups** and **Route Tables.**
* 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 **Puppet**.
* Used **IAM** for creating roles, users, groups and implemented **MFA (Multi Factor Authentication)** to provide additional security to AWS account and its resources.
* Configured **Kubernetes** **Replication** **controllers** to allow multiple pods such as Jenkins master server in multiple minions.
* Used Jenkins and pipelines to drive all microservices builds out to the **Docker** registry and then deployed **Kubernetes** and Implemented a load balanced, highly available, fault tolerant, auto-scaling **Kubernetes** **AWS** infrastructure and **microservice** container orchestration.
* Created additional **Docker** Slave Nodes for **Jenkins** using custom **Docker Images** and pulled them to Cloud. worked on all major components of Docker like **Docker Daemon**, **Hub**, **Images**, **Registry**.
* Written **Ansible playbooks** which are the entry point for Ansible provisioning, where the automation is defined through tasks using **YAML** format and run **Ansible Scripts** to provision Dev servers.
* Customized **Ansible** modules for finding facts about **AWS CloudWatch** alarms and taking actions to pause/Unpause those alarms during deployments.
* Integrated **Ansible** with **Jenkins** to provide automation, **continuous integration** through **Jenkins** and Implemented **Jenkins Workflow** and Plugins for repeatable deployments of **multi-tier** applications, **artifacts** and services to **Docker.**
* Implemented and maintained **Ansible** Configuration management spanning several environments in VMware and the AWS cloud.
* Planning and design of **ELK (Elastic Search, Logstash and Kibana)** and worked on search API server and client for querying Elastic Search. Monitoring **ELK** to debug production issues and log the AWS S3 storage that stores the sites traffic activity with Experience in setting up Upstream and Downstream Jobs in **Jenkins** for creating **Pipelines** and Design architecture for ELK as Batch Layer.
* Set up build environment integrating with **Git** and **Jira** to trigger builds using **Web Hooks** and **Slave Machines** byintegrating **Docker** container-based test infrastructure to **Jenkins** CI test flow.
* Developed **Docker Images** to support Development and Testing Teams and their pipelines, Jenkins distributed builds, Selenium and **JMeter** images, Elasticsearch, Kibana and Logstash (**ELK** & **EFK**).
* Used **MAVEN** as a build tool on **Java** projects and written maven **POM** files from scratch for multi-modules projects for the development of build artifacts on the source code.
* Wrote Python scripts using **Boto3** to automatically spin up the instances in **AWS** **EC2** and **OPS Works** stacks and integrated with **Auto scaling** to automatically spin up the servers with configured AMI’s.
* Coordinate with developers establishing appropriate branching, labelling/naming conventions using **GIT** source control and analysed and resolved conflicts related to merging of source code for **GIT**.
* Responsible for design, maintenance, and support of **GIT** repositories, and views.
* Created and maintained the **Shell/Perl** deployment scripts for TC Server/Tomcat web application servers.
* Installed and configured monitoring agents on **Linux** and **Solaris** servers. Automate private cloud launch process, including network configuration. Perform Deployment of Release to various **QA** & **UAT** in **Linux** environments.
* Managed **TCP/IP** packets & **DHCP** servers, resolved **TCP/IP** network access problems for the clients and worked with various **TCP/IP** implementations like **NFSv4**, **NIS**, **DNS** and **DHCP**.
* Created custom templates for use within **Confluence** and worked on integrating **JIRA** with **Confluence**.

**Environment:** *Maven, GIT, Apache web server, Apache Tomcat server,**Java/J2EE, AWS, YAML, Shell Scripts, Jenkins, GitHub, Ansible, Docker, Web Logic, Elasticsearch, Kibana, Kubernetes.*

**Humana -Louisville, Kentucky**

**Cloud / Devops Engineer** 2019 Apr -2019 Dec

Responsibilities:

* Setup and built AWS cloud infrastructure resources like **EC2, EBS, S3, VPC, RDS, ELB, Auto Scaling, Cloud Formation, Elastic Cache, Cloud Watch, SNS, AWS Import/Export.**
* Installed, configured and setting up databases in **AWS** using **RDS**, Storage using S3 buckets and configuring instance backups to S3 buckets.
* Design of Cloud architectures for customers looking to migrate or develop new **PAAS, IAAS,** or hybrid solutions utilizing AWS.
* Worked on Migration from **AWS Cloud** to **Azure** and designed terraform templates and modules to build entire Azure infrastructure.
* Used Terraform as infrastructure as code, execution plans, resource graph and change automation. Managed AWS infrastructure as code using Terraform.
* Experience creating cloud big data solutions utilizing **Azure** PaaS solution such as HDInsight, **Azure** Data Warehouse, **Azure** Data Lake, **Azure** Data factory, **Azure** Analytics Services and Setting up Virtual networks for site-to-site, Point-to- Site and Express Route Circuits in **Azure**.
* Implementation of User Defined Routing. Setting up **Azure** network Security with NSG and Endpoint ACLS.  Assigned Roles and Policies to Users by using **Identity and Access Management** (IAM).
* Responsible for creating and implementing branching and merging strategy with multiple branches. Used Git as source code management repository to keep track of version changes. Implemented and maintained the Branching and **Build/Release** strategies utilizing **GIT** source code management.
* Deployed and configured **Elasticsearch**, **Logstash and Kibana** (ELK) for log analytics, full text search, application monitoring in integration with AWS Lambda and Cloud Watch. Then store that logs and metrics into S3 bucket using Lambda function.
* Created scripts for system administration using languages such as **Shell** and **Python**. Also developed and maintained **Shell** scripts for build and release.
* Worked on creating the **Docker** containers and **Docker consoles** for managing the application life cycle and Used Docker for container snapshots, attaching to a running container, removing images, managing directory structures and managing containers in **Docker registry**.
* Automated application deployment in cloud using Docker technology using **Elastic Container Service Scheduler.**
* Automated various infrastructure activities like Continuous Deployment, Application Server setup, Stack monitoring using **Ansible playbooks** and has Integrated Ansible with **Jenkins**.
* Wrote Ansible Playbooks with Python SSH as the Wrapper to Manage Configurations of **AWS nodes** and Tested Playbooks on AWS instances using Python. Run Ansible Scripts to Provide Dev Servers.
* Written Terraform templates, Chef cookbooks pushed them onto Chef for configuring EC2 Instances and Solved Gateway time issue on ELB and moved all the logs to S3 Bucket by using Terraform.
* Configured Generic data source, Multi data source using configuration management Process using **Ansible**.
* Created reproducible builds of the **Kubernetes** applications, managed **Kubernetes** manifest files and managed releases of Helm packages. Scheduled, deployed and managed Container replicas onto a node cluster using **Kubernetes**.
* Created and automated the **Jenkins pipeline** using pipeline groovy script for the applications and Built upstream and downstream jobs in **Jenkins** to build and deploy into different environments.
* Developing **Maven scripts** to automate the compilation, deployment, testing of Web, J2EE applications as well implementing project builds framework using **Jenkins** & **Maven** as build framework tools.
* Deployed application using **Jenkins** server and troubleshoot build and release job failures, resolve, work with engineers on resolution. Configured **GIT** with Jenkins and automated jobs using Build trigger option.
* Worked on monitoring tools and code coverage tools like **ELK, Splunk, and Amazon CloudWatch** to maintain various systems in different environments.
* Involved in developing custom scripts using Python, **JSON, Ruby, PowerShell, yaml, Perl,** Shell (bash) to automate jobs.
* Worked on variety of Linux platforms **RedHat Linux, Solaris** which includes installation, configuring and maintenance of applications on this environment.

**Environment:** *AWS (Auto Scaling, Cloud Formation, ELB, RDS, EC2 S3, VPC, Cloud Watch, Cloud Formation, AMI, Subnets, ELK), Docker, VMware, GIT, Maven, Jenkins, Chef, PowerShell, Shell Scripting, Java, Json, MySQL, Dynamo DB, Oracle DB, Linux, JIRA.*

**CtrlS Datacenters ltd -Hyderabad, India**

**DevOps Engineer** 2016 Jun – 2018 Nov

Responsibilities

* Installed Workstation, Bootstrapped Nodes, wrote Recipes, and Cookbooks and uploaded them to **Chef**-**server** and managed **AWS**for **EC2/S3 & ELB** with **Chef** Cookbooks.
* Expertise in converting existing **AWS** infrastructure to Server-less architecture (AWS Lambda, Kinesis) deployed via **CloudFormation.**
* Deployed **Chef** **Recipes**, automation tools and Builds, and did an overall process improvement to any manual processes and evaluated **Chef Recipes** with the concept of Test-Driven Development for Infrastructure as a Code.
* Developed **Chef** **Recipes** in **Ruby** to configure, deploy and maintain software components of existing infrastructure to cloud and bootstrapped chef client nodes.
* Implemented continuous integration using **Jenkins** master and slave configuration and configured security to Jenkins and added multiple **nodes** for continuous deployments.
* Configured the users accounts for continuous integration and created Upstream and Downstream jobs using build Pipeline in **Jenkins**. Configured **SVN** with **Jenkins** and scheduled periodic builds.
* Installed and configured **Jenkins** and created parameterized jobs to kick off builds for different environments. Managed the team's source repository through **SVN** and continuous integration system using **Jenkins**.
* Maintained Artifacts in binary repositories using **JFrog Arifactory** and pushed new Artifacts by configuring the **Jenkins** project **Jenkins Artifactory** plugin. Solely admin the **Artifactory**, and responsible for backing-up/upgrading to latest **Artifactory** versions and granting the require access to the authorized people.
* Managed a private **SVN** version controlling server for developer teams to commit code.
* Worked on the installation and configuration of the monitoring tool **Nagios**, updated monitoring parameter with active and passive check and monitored network devices and reviewed network logs to identify potential problems.
* Developed **Ant** and **Maven** scripts to automate the compilation, deployment and testing of Web and **J2EE** applications.
* Setup **Maven** Remote Internal Secure Repository with access restricted to team members.
* Automated **Nagios** alerts and email notifications using **python** script and executed them through **Chef**.
* Responsible for Building and configuring Redhat Enterprise Linux systems over the network, implementing automated tasks through crontab, resolving tickets according to the priority basis.
* Deployed **MySQL** queries for database update and maintained the MySQL server issues.
* Experience in Creating and managing users and groups accounts, passwords, permissions, logging, disk space usage and processes via Disk Quota, PAM Limits, **ACL**s, **LDAP**.
* Responsible for patches for the operating system, building startup shell scripts, managing the automation of **CRON** jobs and managing file systems.
* Configuration and administration of **DNS**, **Web**, **Mail**, **DHCP** and **FTP** Servers. Managed users and groups on a large scale in **NIS** and **LDAP** environments.
* Configured applications in **virtual private cloud**(VPC) and hardened it from malicious attacks using **2-layer protection**from security groups (at instance level) and **network access control lists**(NACL, at subnet level) and using **network access translator**(NAT) instance.

**ENVIRONMENT**: *Chef, Ruby, Puppet, IAC, TDD, RedHat Enterprise Linux, Jenkins, SVN, Nagios, ANT, MAVEN, JAVA, J2EE, MySQL, Oracle WebLogic, LDAP, ACL, NIS, DNS, DHCP, FTP.*

**Eidiko Systems Intergrators -Hyderabad, India**

**Build and Release Engineer** 2015 Jan - 2016 May

Responsibilities

* Worked with **QA** to facilitate verification of releases and was involved in running multiple builds at a time and Gathered Information from Clients, performed POC and setup Build/ Deployment Automation and Release Management for Java base project using JENKINS and Maven.
* Involved in installing, updating and configuring **UNIX** and Windows build release of Cloud products in Linux and Windows environments, using **Power Shell, TFS** and **Python Scripting**
* Created **GIT** configuration record for builds, using derived objects generated during build audit process implemented and maintained the branching and build/release strategies utilizing **GIT**
* Managed Builds on Daily, Weekly, Nightly and fortnightly basis and documented all build and release process related items; provided Level-1 support for all build and deploy issues encountered during the build process.
* Converted old builds using MAKE to **Ant** and **XML** for Java build; deployed Java app in Jboss web Server.
* Installed and configured **Puppet** Enterprise with Puppet DB for configuration management of existing infrastructure and developed **Puppet** **modules** and **manifests** to automate deployment, configuration, lifecycle management of key clusters, wrote **puppet** manifests for configuration management and deploy .Net applications.
* Responsible for installing **Jenkins** master and slave nodes and also involved in plugin Git and schedule jobs using Poll SCM option and also Creating the build scripts using **Maven** for Java projects.

**Environment:** *GIT, TFS, Maven, Docker, Puppet, Web server, Apache JMETER, Meta Case, Bamboo, Python, Perl, Shell, Power shell.*

**Linkwell Telesystems Pvt Ltd -Hyderabad, India**

**Linux Administrator** 2013 Jan – 2014 Dec

**R**esponsibilities

* Hands on **VMware** for installing Linux and SUSE Linux and windows on virtual machines.
* Installation and configuration of **CYGWIN** on Windows in order to access **UNIX** system from Windows Operating Systems.
* Providing 24 x 7 supports to various application level server level & network level Monitoring & troubleshooting of any data centre outages.
* Installation and Administration of **Red Hat** Enterprise Linux 3, 4, 5 SLSE10 using Kick start including monitoring, scaling and capacity planning and hardware maintenance of Sun fire servers.
* Building **Sun Solaris** Servers from scratch with Jumpstart and Flash Archives for upcoming projects.
* Developed Linux, **UNIX, Perl** and **Shell Scripts** and AWT programming for manual deployment of the code to various environments.
* Installed, configured, performance tuning, security, backup, recovery and upgrade/patches of Linux and UNIX servers using **Crontab**.
* Maintain file system and host security using **chmod, chown, chgrp**, immutable bit, iptables and tcp wrappers and Perform software package installation, upgrades and updates using yum and rpm commands. Apply system patches and updates

**Environment:** *RedHat Enterprise Linux 5.x, YUM, RPM, User & Group management, Bash, Firewall, Apache, Volume Groups, LVM, NFS, FTP, SAMBA, SSH, DHCP, DNS, VERITAS Cluster Server(VCS), Windows Server 2003 Active Directory, Kickstart server, TCP/IP, IP addressing &Subnetting, routing, Nagios.*