**Sr.AWS/Devops Engineer**

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**PROFESSIONAL SUMMARY:**

* 7+ Years of professional work experience in **Linux Administration,** **Build and Release Management**, System Engineer and also extensive experience with **Devops** tools**, AWS, CI/ CD, SCM and Containerization.**
* Proficient level of experience on **Devops** essential tools like **Chef, Puppet, Ansible, Docker, Kubernetes, Jenkins, Ant, Maven, GIT.**
* Expertise in writing **Shell** & **Python** scripts for various Systems Administration tasks to automate repeated processes.
* Experience in setup and build **AWS** infrastructure using **EC2**, Auto-Scaling in launching **EC2** instances, **Elastic Load Balancer, Elastic Beanstalk, S3, Glacier, Cloud Front, RDS, VPC, Route53**, **Cloud Watch**, **Cloud Formation**, **IAM, SNS, EBS**.
* Working with the **ELK (Elastic Search, Logstash, Kibana)** stack to analyze log data obtained from **Microsoft Business Intelligence tools**.
* Good hands on knowledge of configuration management and Deployments tools like Puppet, Ansible, Chef, Terraform and octopus Deploy
* Experience in creating life cycle policies in **AWS S3** for backups to **Glacier**.
* Administered **Jenkins** for Continuous Integration and to automate most of the build related tasks.
* Experience with Build tools like **Ant, Maven and Gradle** for writing **build.xmls, pom.xmls** and **build.gradles** on Java projects for the development of build artifacts on the source code.
* Expertise on version control tools like **Subversion, Git** and utilized source code administration customer apparatuses like **GitHub, Git GUI**.
* Experienced in branching, tagging and maintaining the version across the environments using **SCM** tools like **GIT**, Subversion (**SVN**) and **TFS** on **Linux and windows** platforms.
* Experience with setting up **Chef** Infra, Bootstrapping nodes, creating and uploading **Chef** Recipes, **Chef** Node convergence in **Chef SCM**.
* Extensively involved in infrastructure as code, execution plans, resource graph and change automation using **Terraform**
* Automate **AWS**infrastructure through infrastructure as code by writing various Terraform modules, scripts by creating AWS IAM users, groups, roles, policies, custom policies, AWS Glue, Crawlers, Redshift clusters, snapshots of clusters, EC2, S3 buckets.
* Expertise on creation of **Puppet** manifest files to install **Tomcat** instances and to manage configuration files for multiple applications.
* Having experience on DevOps, Configuration, Build & Release Management, Deployment on **C#** and Java Environment.
* Experienced in **Amazon RedShift**clusters such as launching the cluster by specifying the nodes and performing the data analysis queries.
* Hands on Experience with **ETL**tools such as AWS Glue, Using Data pipeline to move data to **AWS RedShift**
* Experience with container-based deployments using **Docker**, working with **Docker** images, **Docker** hub and **Docker** registries, installation and configuring **Kubernetes** and clustering them
* Expensive use of **Kubernetes** 1.9.0 to orchestrate the deployment, scaling, management of **Docker** Containers.
* Experience in Designing ARM Template and extensive experience in designing custom build steps using **PowerShell**.
* Experienced in Gitlab CI and Jenkins for CI and for End-to-End automation for all build and CD.
* Automate **AWS**infrastructure through infrastructure as code by writing various Terraform modules, scripts by creating AWS IAM users, groups, roles, policies, custom policies, AWS Glue, Crawlers, Redshift clusters, snapshots of clusters, EC2, S3 buckets.
* Experience with **Docker** and **Vagrant** for different infrastructure setup and testing of code.
* Proficiency in multiple databases like **MongoDB**, **MySQL**, Apache **Cassandra** and **MS SQL** Server.
* Expertise in system administration with windows, **Linux, Ubuntu, Redhat, Centos and Solaris servers.**
* Positive attitude, strong work ethic, and ability to work in a highly collaborative team environment.

**TECHINICAL SKILLS:**

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| --- | --- |
| **Operating Systems** | **Windows, UNIX, LINUX, RHEL, SOLARIS** |
| **Cloud Technologies** | **AWS, Google Cloud Platform, Azure, OpenStack** |
| **Code Version controls** | **Bit Bucket, Code Commit**, Subversion**, Clear case, GIT and Perforce** |
| **Build Tools** | **ANT, MAVEN, Gradle** |
| **CI Tools** | **Hudson, Jenkins and Build Forge, Cruise control** |
| **Deployment Tools** | **CHEF, PUPPET, ANSIBLE** |
| **Container & container Orchestration Tools** | **Docker, EC2 Container Services, Azure Container Services, Docker Swarm, Kubernetes.** |
| **Repositories** | **Nexus, Artifactory** |
| **Monitoring Systems** | **Nagios, Splunk** |
| **Languages** | **C, C++, Perl, Shell, Python, Ruby scripting, SQL, XML, Java/J2EE** |
| **Tracking tools** | **Jira, Remedy, Clear Quest** |
| **Web servers** | **Web logic, Web Sphere, Apache Tomcat, JBOSS** |
| **Databases** | **Oracle, SQL SERVER, MY SQL, Mongo DB** |

**Professional Experience:

Salesforce July 2021 - Present**

**Austin, TX**

**Sr.Cloud /DevOps Engineer**

**Job Responsibilities:**

* Designed and converted existing **AWS** infrastructure to ‘Server-less’ architecture deployed via **Terraform** which includes **AWS** Elastic Beanstalk for app deployments.
* Configured Continuous Integration and continuous deployment applications
using Team city and octopus deploy to **AWS** cloud
* Automated builds of micro-Services, API’s, UI’s and databases using Team City and deployments using octopus Deploy
* Worked on **AWS** Lambda with Amazon Kinesis and integrated **Dynamo DB** using Lambda for value storage and for streams backup.
* Wrote Pipeline for single click deployments of applications on **AWS EC2** and Kubernetes clusters on **EKS** by writing **CICD** Pipelines using Jenkins
* Scripted **Kubernetes** application stack in Yaml and deployed applications using **EKS** in **AWS**
* Implemented **Terraform** modules for deployment of various applications across
multiple cloud providers and managing infrastructure
* Proficient in writing terraform templates Chef Cookbooks, recipes and pushed them onto **Chef** Server for configuring EC2 instance
* Developed **Terraform** scripts for build, change and version infrastructure as code using **AWS** as provider and launched multi-tiered stack to be provisioned and configured with Terraform scripts.
* Designed **AWS** cloud Formation templates to create custom sized **VPC**, to set up Impolicies for users, subnets, **NAT** to ensure successful deployment of Web applications, database templates and Security groups using Python (**BOTO &amp; AWS CLI**) and JSON Templates.
* Performed Log analysis using **ELK** Stack (Elasticsearch, Logstash, Kibana) and created monitoring charts.
* Performed day-to-day operation and troubleshooting of failed octopus deployments and fixing.
* Created and deployed **Kubernetes** pod definitions, tags, labels, multi-pod container replication. Managed multiple Kubernetes pod containers scaling, and auto-scaling. Used the Kubernetes dashboard to monitor and manage the services.
* Worked on installing, configuring and managing **Docker** Containers, Docker Images for Web Servers and Applications and Implemented Docker-maven-plugin in Jenkins and maven pom to build Docker images for all microservices and later used **Docker** file to build the Docker images from the java jar files.
* Using Deployment tool octopus for the deployments where I have scheduled different projects for deploying provisioning webserver, database deployments, App server, Web API’s.
* Created Docker images using a docker file, worked on **Docker** container snapshots, removing images and managing **Docker** volumes and virtualized servers in **Docker** as per QA and Dev-environment requirements and configured automation using Docker containers.
* Added required images to Vagrant and created servers out of Images for testing and Automated infrastructure build-out and systems provisioning using Ansible and **Ansible** Tower .
* Automated the Migration of the **Jenkins** server to **AWS** and moving of the jobs from the SCM **gitlab**.
* Perform **Splunk** administration tasks such as Installing, configuring, monitoring and tuning
* Worked with different scripting languages such as Groovy, **Python** as a part of writing scripts for the automation tasks like release processes, applications migration, and monitoring application health during migration etc.
* Deployed and configured JIRA, both hosted and local instances for issue tracking, workflow collaboration, and tool-chain automation.
* Well versed with Software development (SDLC), Test life cycle (STLC), and Bug life cycle and worked with testing methodologies like agile methodology (SCRUM) with an in-depth understanding of the principles and best practices of Software Configuration Management (SCM).

**Environment: AWS, MAVEN, OCTOPUS,Nexus, Ansible, Chef, Terraform, Jenkins CI/CD, Nagios, Jira, SHELL**

**Power School Sep 2018 – June 2021**

**Texas, TX**

**Sr.AWS /DevOps Engineer**

**Job Responsibilities:**

* Handled operations and maintenance support for **AWS** cloud resources which includes launching, maintaining and troubleshooting EC2, S3, VPC, Elastic Load Balancers (ELB) and RDS, ELK, LAMBDA.
* Worked with **AWS** services like **EC2, S3, VPC, ELB, Autoscaling Groups, Route 53, IAM, CloudTrail, CloudWatch, CloudFormation, CloudFront, SNS,** and **RDS**.
* Managed multiple **AWS** accounts with multiple VPC's for both production and non-prod where primary objectives included automation, build out, integration and cost control.
* Strong Experience in implementing Data warehouse solutions in **AWS** Redshift, worked on various projects to migrate data from on premise databases to **AWS** Redshift, **RDS** and **S3**.
* Using **Chef** deployed and configured Elastic search, Log stash and Kibana (**ELK**) for log analytics, full text search, application monitoring in integration with **AWS** **Lambda** and **Cloud Watch**.
* Extensively involved in infrastructure as code, execution plans, resource graph and change automation using Terraform.
* Involved in provisioning and Automation servers on **Public Cloud like AWS, AWS and Kubernetes**.
* Created **AWS** Multi-Factor Authentication (**MFA**) for instance RDP/SSH logon, worked with teams to lock down security groups.
* Used **Terraform** to transform the infrastructure from on - premise to cloud.
* Worked on creating the modules driven **AWS** Infrastructure with **terraform**. Created Infrastructure Git repositories for Terraform to launch the stacks.
* Work with **Terraform** key features such as Infrastructure as code, Execution plans, Resource Graphs, Change Automation.
* Used **Kubernetes** to deploy scale, load balance, scale and manage docker containers with multiple name spaced versions.
* Implemented **Kubernetes** to deploy scale, load balance, scale and manage docker containers with multiple names spaced versions.
* Implemented a production ready, load balanced, highly available, fault tolerant **Kubernetes** infrastructure.
* Designed and Develop ETL Processes in AWS Glue to migrate Campaign data from external sources like S3, ORC/Parquet/Text Files into AWS Redshift.
* Worked in all areas of **Jenkins** setting up **CI** for new branches, build automation, plugin management and securing **Jenkins** and setting up master/slave configurations.
* Integrating various Version control tools, build tools, nexus and deployment methodologies (scripting) into Jenkins to create an end to end orchestration build cycles.
* Troubleshoot build issues in **Jenkins**, performance and generating metrics on master's performance along with jobs usage.
* Used JSON for data exchange between browser and server. Used JSR353 for processing and manipulating JSON objects.
* Developed the Pysprk code for AWS Glue jobs and for EMR.
* Developed Java API to interact with the Amazon SQS used in sending bulk emails.
* Worked on a Build pipeline including **Jenkins**, Artifactory and a private **Docker** registry.
* Experience in creating **Docker** containers leveraging existing Linux Containers and **AMI**'s in addition to creating **Docker** containers from scratch.
* Setup **GCP** Firewall rules to allow or deny traffic to and from the VM's instances based on specified configuration and used **GCP** cloud CDN (content delivery network) to deliver content from **GCP** cache locations drastically improving user experience and latency.
* Implemented Automate the Environment provisioning Using **Chef** & **Docker**.
* Dev cloud available with **Chef** Sdk, **Docker** and **RHEL** for creating different Environments (VMs).
* Implemented rapid-provisioning and life-cycle management for Ubuntu Linux using Amazon **EC2**, **Chef**, and custom **Ruby**/**Bash** scripts.
* Implemented and Enhanced the Existing Scripts which are developed in **Shell**, **Power** **Shell**, **Ruby** and **Python**.
* Worked extensively with Terraform and wrapped it and managed the back-end state in S3 Bucket.
* Created and trouble shooted **Ansible** scripts and **Kubernetes** **YAML** files to deploy **SCM/CI/CD** applications automatically and Idempotently to reduce time costs.
* Building/Maintaining Docker container clusters managed by **Kubernetes** Linux, Bash, GIT, Docker, on GCP (Google Cloud Platform). Utilized **Kubernetes** and Docker for the runtime environment of the CI/CD system to build, test deploy.
* Worked with OpenShift platform in managing Docker containers and **Kubernetes** Clusters.
* Building/Maintaining **Docker**container clusters managed by **Kubernetes Linux, Bash, GIT**, **Docker, on GCP**
* Extensively used Google stack driver for monitoring the logs of both **GKE**and **GCP**instances and configured alerts from Stack driver for some scenarios.
* Involved in Setup and Configuration of **Puppet**Configuration Management.
* Design and Implemented Cloud Orchestration solution using **Google Cloud, AWS EC2 & Microsoft Azure, Docker** and **Kubernetes**.
* Initially thought of using **Kubernetes** the finally decided to use **Docker** swarm because **Docker swarm** is integrated with **Docker daemon**.
* Container management using Docker by writing **Docker** files and set up the automated build on Docker HUB and installed and configured **Kubernetes**
* Automated the cloud deployments using **Chef**, **Python** and **AWS** Cloud Formation Templates.
* Experience on Vagrant, AWS and Kubernetes based container deployments to create self-environments for dev teams and containerization of env’s delivery for releases.
* Installed **Chef**-Server Enterprise On-Premise/WorkStation/ Bootstrapped the Nodes using Knife.
* Managed Nodes, Run-Lists, roles, environments, data Bags, cookbooks, recipes in **Chef**.
* Implemented Auto Scaling with **Chef** and Assign **Chef** Roles to **EC2** instances.
* Deployed and configured **Chef** Server and **Chef** Solo including bootstrapping of **Chef** Client nodes for provisioning.
* Worked with automation of OS builds and application installations through **Chef**, **Nagios** for application and Hardware resource monitoring, worked with plugins in **Nagios** for monitoring resources.
* Installation, Configuration of **NFS, DNS, SAMBA, APACHE** severs in **Redhat, Debian, Ubuntu Linux** Servers.

 **Environment & Tools:** Linux, Maven, Chef, Jenkins, Vagrant, Docker, Kubernetes, Nagios, Artifactory, GIT,AWS Cloud Formation ,RDS, Red hat, Linux/Unix, Redshift,Rds, EC-2,AMI,Route 53, S3, VPC, Ruby, Shell Scripts, ELK , Lambda and Cloud Watch , Auto Scaling, Python , Groovy ,RHEL

**AMERICAN EXPRESS, Jan 2017-Aug 2018**

**New York City, New York**

**AWS DevOps /AWSEngineer**

**Job Responsibilities:**

* Coordinate release activities with Project Management, **QA**, Release Management and **Web Development** teams to ensure a smooth and trouble-free roll out of releases.
* Working in setting up Virtual Private **Cloud**, **Subnets**, routing table, internet gateway Access control list and security groups.
* Working on end to end in setting up of environments like **DEV, IT, QA, IQA UAT**andPROD environments in **AWS** **cloud**.
* Experience building microservices and deploying them into **Kubernetes** **cluster** as well as Docker Swarm
* Installed **Kubernetes** clusters in **VMS**, started **Kube** Master and **Kubelets** and added Container Network Interface.
* Involved in data migration processes to migrate historical data from legacy system into AWS Redshift (to S3 as flat files and Redshift as tables) using Python.
* Role required Planning, deploying, monitoring, and maintaining Amazon **AWS cloud infrastructure** consisting of multiple **EC2** nodes and Virtual Machine's as required in the environment.
* Strong hands-on on **AWS** cloud services like **EC2, S3, RDS, ELB,**and**EBS** for installing, configuring.
* Maintained the user accounts **(IAM), RDS, Route 53, VPC, RDB, Dynamo DB, SES, SQS** and **SNS** services in **AWS cloud.**
* Utilize Cloud Formation and **Puppet** by creating **DevOps** processes for consistent and reliable deployment methodology.
* Experience in implementing Data warehouse solutions in AWS Redshift worked on various projects to migrate data from on database to AWS Redshift, RDS and S3.
* Installed and configured Hudson/Jenkins for Automating Deployments and providing an automation solution.
* Provided consistent environment using **Kubernetes** for deployment scaling and load balancing the application from dev through QA
* Integrated GitLab into Jenkins to automate the code checkout process.
* Performed **Build/Release/SCM**engineer duties.
* Implemented **Puppet Master, Puppet Console and Puppet Agents, Create Puppet modules** and Classes.
* Performed code line **GIT** pushes (releases) to production and customer servers and Developed and improved **GIT** push scripts.
* Used Spinaker for **Kubernetes** Continuous Deployment and Rolling Updates
* Written **chef cookbooks** and recipes to Provision several pre-prod environments consisting of Cassandra DB installations, web logic domain creations and several proprietary middleware installations.
* Involved in writing **Python**, **Perl** and **shell scripts** for compilation and deployment process.
* Automated the cloud deployments using **chef, python (boto & fabric)** and **AWS Cloud** Formation Templates.
* Used Gradle and written python scripts to automate the **Build and deployment** process. Used maven for few modules.
* Worked with OpenShift platform in managing Docker containers and Kubernetes Clusters
* Working on **SAST** and **DAST** tools for secure code reviewing and to find potential vulnerabilities.
* Experience in writing **ansible** scripts.
* Utilized **Kubernetes and Docker** for the runtime environment of the CI/CD system to build, test and deploy.
* Used **Ansible** for configure tomcat servers and maintain.
* Worked on Virtualization of build and **SCM** environments.
* Building and Installing Servers through **Azure** Resource Manager Templates or Azure Portal.
* Building/Maintaining **Docker** container clusters managed by **Kubernetes** Linux, Bash, GIT, Docker, on GCP (Google Cloud Platform). Utilized Kubernetes and Docker for the runtime environment of the **CI/CD** system to build, test deploy.
* Performed **SCM**-guru tasks including branching, merging, server recovery, permission handling.
* Building pipelines in **Jenkins** while also fully scripting the creation and provisioning of **Jenkins**.
* Scripting infrastructure and (**Linux**) machine provisioning from scratch using tools such as **bash**and the**Ruby AWS-SDK.**
* Used **Kubernetes** to deploy scale, load balance and manage Docker containers with multiple name spaced versions.
* Collaborate in the automation of **AWS** infrastructure via terraform, ansible, and Jenkins - software and services configuration via **chef cookbooks**.
* Worked in **DevOps** group running Jenkins in a **Docker** container with **EC2** slaves in **Amazon AWS cloud** configuration. Also gain familiarity with surrounding technologies such as **Mesos** (Mesosphere) and **Kubernetes**.
* Worked with the development team to generate deployment profiles (jar, war, ear) using **ANT** Scripts and **Jenkins**.

**Environment:** AWS-CloudWatch, S3, EC2, IAM, AMI, ELB, Auto-scaling, VPC, Docker, Kubernetes, Docker Marthon, Jenkins, Ansible, Git, Github, Python, Nagios, Python, Shell scripts, Ruby, PowerShell, Rundeck, Bash

**Humana Sep 2015 - Dec 2016**

**Louisville, Kentucky**

**DevOps Engineer**

**Job Responsibilities:**

* Develop builds using **CI/CD** tools like **Jenkins**, **IBM RTC**, **puppet**, and worked with different DevOps tools such as **SonarQube**, **Sonatype Nexus**, **GitLab** etc. on **Linux** and PostgreSQL platform.
* Created reusable and tested infrastructure with **Terraform** modules and **Versioned** modules for **Staging, Testing** and **Production** environments in **Azure**.
* Developed Json Scripts for deploying the Pipeline in Azure Data Factory (ADF) that process the data using the Cosmos Activity.
* Building and Installing Servers through **Azure** Resource Manager Templates or Azure Portal.
* Created reusable and tested infrastructure with **q** modules and **Versioned** modules for **Staging, Testing** and **Production** environments in **Azure**.
* Developed customer facing web application using ASP.NET 4.0 C# and convert to XML data file.
* Configuring and updating JSON files to create new stacks for Deployment using **Docker Marathon.**
* Implemented **Puppet Master, Puppet Console and Puppet Agents, Create Puppet modules** and Classes.
* Used **Kibana** to illustrate the data with various display dashboard such as metric, graphs, pia-chart, aggregation table.
* Created **Docker** images using a **Docker** file and worked on **Docker** container snapshots, removing images and managing **Docker** volumes.
* Good experience in **RDBMS** (**Oracle, SQL Server, MySQL, Informi**x) development including **SQL, PL/SQL** programs and stored procedures.
* Provide **Redha**t 6.x and 7.x support on tickets, patching and upgrades in ULA environment.
* Designed and built a Data Discovery Platform for a large system integrator using Azure HdInsight components.
* Modified web services using **C#** to interact with the other applications and exposed them using SOAP and HTTP.
* Created and implemented ARM Templates for deployment of the resources, deployed the resources into Azure using the PowerShell and Continuous Integration by VSTS.
* Implementing various resources in Azure using Azure Portal, PowerShell on Azure Resource Manager deployment models. Experience deploying Infrastructure as Code (I
* oC) applications using ARM Templates (JSON).
* Used **Azure** data factory and data Catalog to ingest and maintain data sources. Security on HdInsight was enabled using **Azure** Active directory
* Clone projects in **Jenkins** for developers and generate builds and store it in **Sonatype Nexus** repository.
* Utilized **Azure Power Shell** to automate backups of ephemeral data-stores to **Azure Storage (Blobs, Tables, Queues, Files**, **Azure Blob Storage** and create nightly **IAAS** and **PAAS** for mission critical production servers as backups.
* Applications logic was developed using **C#** and used HTML helper in a view to render the HTML content.
* Designed, configured and deployed Microsoft Azure for a multitude of applications utilizing the Azure (Resource Groups, Azure SQL, Cloud Services, and ARM) adhering to the SLA by placing them in Availability Sets and scaling them using VMSS (Scale Sets).
* Created **RDD's** Extracting the data from **Azure** Blob Storage (Blobs, Files, Tables and Queues) and making transformations & actions.
* Troubleshooting the connectivity from the Application to **DB**, maintenance of the **DB**'s in server.
* Implemented a **CD** pipeline involving **Jenkins** to complete the Automation from commit to Deployment.
* Created **PowerShell** &**Python** scripts for various Systems Administration tasks to automate repeated processes.
* Developed automation and deployment utilities using **Ruby, Bash, PowerShell, Python and Rundeck**.

**Environment&Tools**: Azure, Jenkins, SonarQube, RDD, PowerShell, python, docker, puppet, SQL, PL/SQL, Terraform, PostgreSQL

**Education:**

**Master:** Master’s of Science in Information Technology Management.

**University:** Campbellsville University, Louisville, KY.