**S DHWANI**

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**PROFESSIONAL SUMMARY:**

* Having over 7 years of IT experience as a, Cloud Ops Engineer, DevOps Engineer and System Administrator.
* Experienced in managing servers, building new servers.
* Good experience in Amazon Web Services such as **EC2, VPC, S3, IAM, EBS, RDS, ELB, VPC, Route53, Dynamo DB, Auto Scaling, Cloud Trail, Cloud Watch, Cloud Formation, Elastic search, Elastic File system (EFS), Elastic Beanstalk, Code Commit, Code Pipeline, Code deploy, Code build, AWS SNS.**
* Having experience in automating infrastructure IAC provisioning using **Terraform** on AWS.
* Experience with designing, building, and operating solutions using Virtualization by using private hybrid/public cloud technologies.
* Experience in Migrating a production infrastructure into an Amazon Web Services utilizing **AWS Cloud formation**.
* Expertise in configuration and automation using **Chef, Jenkins, Ansible** and **Docker**.
* Experience in configuring **Docker Containers** for Branching and deployed using **Elastic Beanstalk**.
* Experience in using build utilities like **Maven, Ant** for building of jar, war, and ear files.
* Expertise AWS **Lambada** function and **API Gateway**, to submit data via API Gateway that is accessible via Lambda function.
* Managed configuration of Web App and Deploy to AWS cloud server through Chef.
* Developed AWS **Cloud Formation** templates and set up Auto scaling for EC2 instances.
* Created **Kubernetes cluster** with objects like Pods, Deployments, Services and Config Maps and created reproducible builds of the Kubernetes applications, managed Kubernetes manifest files and Helm packages and implemented Kubernetes to deploy scale,
* Worked on Installing, Configuring and administering **Jenkins CI** tool.
* Having hands on experience in creating jobs and **pipeline jobs** in Jenkins.
* Involved in Linux Administration activities like troubleshooting of regular issues, configuration issues, applying patches, package management and file system issues.
* Experience in working with linking of applications in AWS with websites using DNS service **Route53**.
* Experience in administering, installation, configuration, support and maintenance of Linux.
* Working knowledge in Virtualization Technologies **vSphere, VMware, Virtual Box.**
* Expertized in implementing Spark using **Scala**and **Spark SQL** for faster testing and processing of data responsible to manage data from different sources.
* Developed an **Azure** based high performance compute environment to support the massive computational requirements of client congressional redistricting Azure application.
* Solutions Consultant responsible to work on Azure services including SaaS, PaaS and IaaS while contributing architecture decisions and tasks for ongoing migration efforts using services Virtual Machines, Cosmos DB, API Management, Content Delivery Network, Storage Blob.
* Converted existing **Terraform** modules that had version conflicts to utilize **Cloud formation** templates during deployments, worked with Terraform to create stacks in AWS, and updated the Terraform scripts based on the requirement on regular basis.
* Used **Kubernetes** to manage containerized applications using its nodes, Config Maps, selector, Services and deployed application containers as Pods.
* Utilized **Kubernetes** for the runtime environment of the CI/CD system to build, test deploy.

**TECHNICAL SKILLS:**

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| --- | --- |
| **Cloud** | AWS, Microsoft Azure |
| **Containerization Tools** | Docker, Docker Swarm, Kubernetes |
| **Configuration Management Tools** | Chef, puppet, Ansible |
| **CI/CD Tools** | Jenkins, Circle CI, Bamboo |
| **Build Tools** | Maven, Ant, Gradle |
| **Version Control Tools** | Git, GitHub, Bitbucket, SVN |
| **Monitoring Tools** | Splunk, Cloud Watch, New Relic, Datadog, Nagios |
| **Languages & Scripting** | Python, Ruby, Bash, Shell scripting, Java Script, HTML, CSS |
| **Web Servers** | Apache Tomcat, Nginx, JBOSS |
| **Artifact Repository** | Nexus |
| **Ticketing Tools** | JIRA, Rally |
| **Database** | MySQL, PostgreSQL, Aurora DB, MongoDB, Dynamo DB |
| **Networking Protocols** | TCP/IP, VPC, subnets, VPN |
| **Operating Systems** | Windows, Unix/Linux, CentOS, Ubuntu |

**EDUCATION:**

**Master of Science in Computer Science** August 2018 – May 2020

Texas A & M University – Kingsville  **GPA: 3.57**

**Bachelor of Engineering in Instrumentation & Control**  Jan 2017

Gujarat Technological University, Gujarat, India  **CGPA: 6.9**

**EXPERIENCE:**

**Senior AWS Engineer**

**PayPal – Timonium, MD Feb 2020 – Present**

**Responsibilities:**

* Analysed, Designed and Setup **IAM** Users, Roles, Policies as per the Organization Security Standard.
* Proficient in **AWS** services like **VPC, EC2, S3, ELB, Autoscaling Groups (ASG), EBS, RDS, IAM, CloudFormation, Route 53, CloudWatch, CloudFront, CloudTrail.**
* Built CloudFormation templates for **SNS, SQS, Elasticsearch, DynamoDB, Lambda, EC2, VPC, RDS, S3, IAM, CloudWatch** services implementation and integrated with Service CatLog.
* Built **AWS Lambda** function with python language to monitor the new resources creation with the organization standards and enabled notification and appropriate action to taken.
* Experienced in creating multiple **VPC**’s and public, private subnets as per requirement and distributed them as groups into various availability zones of the VPC.
* Created **NAT** gateways and instances to allow communication from the private instances to the internet through bastion hosts.
* Configure the repository to periodically run an AWS Lambda function. The function should check the repository and start the pipeline when changes are detected.
* Configure the repository to publish an SNS notification upon changes. Subscribe the pipeline to the Amazon SNS topic.
* Used **SonarQube** for continuous inspection of code quality and to perform automatic reviews of code to detect bugs. Managing AWS infrastructure and automation with **CLI** and **API**.
* Building/Maintaining **Docker** container clusters managed by **Kubernetes**.
* Collaborated in the automation of AWS infrastructure via **Terraform**, including provisioning AWS environments using **Ansible Playbooks**.
* Used Ansible Playbooks to setup and configure Continuous Delivery Pipeline and Tomcat servers. Deployed Micro Services, including provisioning AWS environments using Ansible Playbooks.
* Set up an Amazon **CloudWatch** Events rule triggered by a Code Commit Repository State Change event for the master branch and add an Amazon SNS topic as a target.
* Implemented Amazon Macie, Guard Duty, Centralized **CloudTrail**, Centralized Cloud Config integration with AWS resources.
* Creation of **RDS database** instances Postgres SQL in AWS cluster making use of EC2 and VPC and launched via Cloud Formation template.
* Used **AWS Beanstalk** for deploying and scaling web applications and services developed with Python.
* Implemented and maintained the monitoring and alerting of corporate servers/storage using AWS Cloud Watch.
* Integrated the **AWS S3** logs with Athena service, exported the data in csv format by leveraging the Lambda with python code.
* Build, Deploy and Monitor Micro services in Amazon Cloud Services AWS.
* Worked in implementing the AWS organizations in current environment, effectively leveraged the features in managing the centralized billing and new account setups. Experience with EMC storage arrays, such as Isilon, Unity and ECS.
* Deploying Docker container on AWS ECS.
* Hands-on experience on Container Orchestration like AWS ECS, Kubernetes.
* AWS ECS and EKS for docker image storage and deployment.

**Environment/Tools: EC2, Elastic Load Balancing, Cloud Front, Cloud Formation, Lambda, Elastic Cache, Cloud Watch, Route 53, Lambda and Dynamo DB, Nagios, Terraform, Kubernetes, Docker, Jira**, **Ansible, Maven, Groovy Bash scripts.**

**DevOps AWS Engineer**

**Blink Health – New York Aug 2019 – Till Date**

**Responsibilities:**

* Involved in AWS Environment, Worked on Various Services like **EC2, IAM, VPC, S3, EBS, RDS, KMS, ELB, Route53, Auto Scaling, SQS.**
* Used Identify and Access Management **(IAM)** to assign roles and to create and manage AWS users and groups, and user permissions to **AWS** resources.
* Worked on Setting up private networks and sub-networks using **Virtual Private Cloud** and created **Security Groups** to associate with the networks.
* Used **Terraform** Modules for Creating Users in **AWS.**
* Worked on Enabling **S3** Intelligence Tiering for Terraform and non- terraform managed buckets in Dev, Ops, Prod environments in **AWS.**
* Worked on Tooling, Building and improving **Infrastructure** to runs our Applications.
* Maintained Artifacts in binary repositories using **JFrog** and pushed new Artifacts by using Jenkins Artifactory Plugin.
* Used Docker by writing **Docker files**and set up the automated build on Docker hub and configured Kubernetes.
* Created **Docker** Registry and handled multiple images primarily for domain configurations.
* Used **Kubernetes** to manage the containerized applications, deployments, secrets and services.
* Created **Ansible** playbook files for windows server builds and used yaml packages for installing, configuring push to make changes in time.
* Worked on end to end automation of infrastructure and continuous delivery of the applications by integrating **Jenkins.**
* Used **GitHub** repository to keep track of all changes in source code.
* Created **Python** scripts to automateS3 data uploadand control instance operations with **AWS API.**
* Worked on **Shell scripting** for Automating the build and release process.
* Configured **Datadog** dashboards to monitor real time granular metrics of all the **AWS.**
* Worked on Automation by creating Users, teams, Services, Schedules and escalation policies in **PagerDuty** and integrated with slack for alerts.
* Created alerts, Schedule searches using **Splunk to** monitor application and server logs.
* Created AWS RDS **MySQL DB** cluster and connected to the database through an Instance using the Amazon RDS Console.
* Worked on **Packer** file creation and added docker daemon json file for **Ubuntu** 18.04.
* Worked on managing user accounts, security, disk space and process monitoring in **Linux.**
* **Troubleshoot** and debugged environment and resolved **Infrastructure** problems found in the production and non-production environments.
* Maintained **JIRA** for tracking and updating project defects and tasks.
* Involved in **Sprints** and planned releases with the team.

**Environment: AWS (EC2, IAM, VPC, S3, EBS, RDS, KMS, ELB, Route53, Auto Scaling, SQS), Docker, Kubernetes, Ansible, Jenkins, Git, Python, Shell, Datadog, Splunk, PagerDuty, MySQL DB, PostgreSQL, Packer, Linux, Jira.**

**DevOps Engineer**

**Walmart – Reston, VA Jun 2016 – Apr 2017**

**Responsibilities:**

* Involved in the Study of the business logic and coordinate with the client to gather the requirements.
* Documented the **SCM** process and policies of the company and recommended some process changes.
* Configured internode communication between **Cassandra nodes** and client using SSL encryption.
* Installed and configured Cassandra cluster and **CQL** on the cluster.
* Hands on experience in containerized based deployments using **Docker**.
* Experienced in Automating application deployment in the cloud using Docker technology using **Amazon EC2.**
* Worked with developing Chef Recipes to perform deployments onto application servers like **Tomcat** and **Nginx**.
* Written Chef Cookbooks, recipes and pushed them onto Chef Server for configuring EC2 Instances
* Building and configuring of EC2 instance on AWS cloud platform, Configuration of Elastic Load Balancer (**ELB**) for traffic control for the EC2 and S3.
* Created network architecture on **AWS VPS, subnets, Internet Gateway, Route Table** and **NAT** Setup.
* Used AWS lambda to run servers without managing them and to trigger to run code by S3 and SNS.
* Implementation, configuration, and administration of Layer 7 **API Gateway** and Portal.
* Built and developed various Continuous Integration and Continuous Deployment CI/CD pipelines from the scratch according to the developer's requirements on top of AWS cloud infrastructure using Jenkins.
* Used groovy scripts to develop scripted continuous delivery pipelines in Jenkins and have integrated them with **Maven**.
* Defined dependencies and plugins in Maven pom.xml for various activities and integrated Maven with **GIT** to manage and deploy project related tags.
* Integrate existing performance tools with Jenkins for (**CI/CD**) as part of DevOps Chef and Packer to build **Jenkins** master AMI. This includes Groovy to configure plugins
* Performed system monitoring using Nagios and Cloud Watch in AWS Cloud.
* Involved in setting up **JIRA** as defect tracking system and configure various workflows, customizations and plugins for JIRA bug/ issue tracker.
* Created Bash, Shell & Python scripts for various Systems Administration tasks to automate repeated processes.
* Configured Jenkins to implement nightly builds on daily basis and generated changes happened from last 24 hours.

**Environment:** **Maven, Docker, Jenkins, GIT, Chef, cloud watch, AWS (EC2, VPC, ELB, S3, RDS, Cloud Trail and Route 53), Python, Cassandra, Shell Scripting, Ruby, PUTTY.**

**DevOps AWS Engineer**

**GE Digital – San Ramon, CA Feb 2019 – Aug 2019**

  **Responsibilities:**

* Involved in **AWS** provisioning and managing services like **EC2, Elastic Load Balancers, VPC, Cloud Watch, Cloud Front, Elastic Container Service, S3, Dynamo DB, Cloud Trail, IAM, SQS.**
* Used **GitHub repository for** storing Terraform files and maintaining versioning.
* Wrote **Terraform scripts** to automate builds and deployments. Created Terraform script to register image to ECR.
* Wrote terraform scripts to create an **ECR Repository** and ECR policies and roles in AWS Environment.
* Created **Terraform modules** for AWS automation within the Production, Staging, and Development environments.
* Maintained user account **AWS IAM roles, Groups, Policies,** assuming roles cross-account, as well as maintaining the trust relationships between accounts.
* Implemented standards for **"Labels", "Branches", "Tags", "Executables"** and other Naming Conventions.
* Wrote **shell scripts** to push the **Docker Images** into AWS ECR.
* Installed **Docker Registry** for local upload and download of Docker images and even from Docker hub.
* Collaborated with Development and Support teams to setup a **Continuous Delivery** environment with the use of **Docker,** continuous build and delivery tools.
* Created two separate **Jenkins pipelines** for running Terraform scripts and the other to Push the Docker Images and Update the latest Image.
* Deployed Dockers in **AWS FARGATE** by using ECS Orchestrator.
* Configured backend to all Terraform environments and directories using **S3** and **Dynamo DB.**
* Used **Parameter Store** which consists of information where **Rabbit MQ** to read IAM Role, Username and

Passwords.

* Created **Chef** Cookbooks to automate system operations. Created monitors, alarms and **notifications** for **EC2 hosts** using Cloud Watch.
* Worked closely with the **Splunk** monitoring team to set up various **logging metrics** including **Cloud Watch, Kinesis Streams** all logging to **S3 destinations** using Terraform scripts.
* Implemented and maintained the **monitoring and alerting** of production and corporate servers or storage using **AWS cloud watch**.
* Developed **UNIX** and **Shell Scripts** for the purpose of manual deployment of the code to the different environments.
* Defined and Implemented Software Configuration Management Standards based on **Agile/Scrum methodologies**, in line with organization.
* Conduct daily **SCRUM meetings**, to address issues and build issues in **Dev/QA**.
* Handled daily urgent tasks using **Rally Dashboard.**

**Environment: AWS (EC2, S3, ECR, VPC, IAM, ELB, Fargate, Cloud Watch, Kinesis, Cloud Trail, Dynamo DB, Rabbit MQ), Git, Jenkins, Chef, Docker, Docker Registry, Terraform, Shell, Splunk, Unix, Rally.**

**DevOps AWS Engineer**

**WHOLE FOODS – Austin, TX Mar 2015 – Oct 2016**

**Responsibilities:**

* Designed, configured and managed public, private cloud infrastructures utilizing AWS including **EC2, Auto-Scaling** in launching EC2 instances, **Elastic Load Balancer, Elastic Beanstalk, S3, Glacier, Cloud Front, RDS, VPC, Direct Connect, Route53, Cloud Watch, Cloud Formation, IAM, SNS**.
* Used **AWS CLI** command line client and management console to interact with AWS resources and APIs.
* Implemented and maintained Monitoring and alerting of production and configuration such as EC2 and Storage as S3 buckets using AWS **Cloud watch**.
* Managed Amazon **Redshift** clusters such as launching the cluster and specifying the node type and used **AWS Beanstalk** for deploying and scaling web applications and services developed.
* Implemented multi-tier application provisioning in OpenStack cloud, integrated it with **Chef/Puppet**.
* Used Open-stack to download and install an OpenStack distribution within the internal network to see distributions.
* Designed **Terraform templates** to create custom sized **VPC, subnets, NAT** to ensure successful deployment of Web applications and database templates and migration from traditional to cloud environment.
* Created **Jenkins** job to build the artifacts using maven and deploy the Terraform templates to create the stack.
* Worked on **Docker** open source b the deployment of applications inside software containers.
* Implemented new Docker container creation process for each **GitHub** branch gets started on **Jenkins** as **CI server**.
* Worked on **Kubernetes** to deploy scale, load balance, and manage docker containers with multiple name spaced versions.
* Implemented Chef best practices and introduced test kitchen to facilitate a more natural cookbook development work flow. Configured multiple cookbooks, recipes, templates and attributes on workstations to be deployed to various **Chef Nodes**.
* Worked with **Ansible playbooks** for virtual and physical instance provisioning, configuration management, patching and software deployment.
* Used Ansible to manage web applications, configuration files, used mount points, packages and Worked on playbooks for Ansible in **YAML**.
* Worked with Jenkins for any automation builds which are integrated with GIT as part of infrastructure automation under continuous integration (CI).
* Extensively worked on Jenkins, CI/CD pipeline jobs for end-to-end automation to build, test and deliver artifacts and troubleshoot the build issue during the Jenkins build process.
* Implemented a GIT mirror for **SVN** repository, which enables users to use both GIT and SVN and used **Maven** as build tool on Java projects for the development of build artifacts on the source code.
* Worked with **New Relic** monitoring and alerting services for servers, switches, applications and services.
* Used **JIRA** Confluence for handling documentation, running automated tests, JIRA bug tracking management.
* Migrated on premise MySQL environments to **MySQL** on Amazon **EC2** and Amazon **Aurora MySQL** with ongoing Database replication.
* Installed, configured and administrated all Linux servers, includes the design and selection of relevant hardware to Support the installation/upgrades of **Red Hat** (6/7), **CentOS** 6/7, operating systems.

**Environment: AWS, OpenStack, Terraform, Chef, Ansible, Docker, Kubernetes, Jenkins, Maven, Git, New Relic, Python, Apache Tomcat, JIRA, Java, Database, Linux.**