**S DHWANI**

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**PROFESSIONAL SUMMARY:**

* Over 7 years of IT experience as a Cloud Ops Engineer, DevOps Engineer, and System Administrator.
* Experienced in managing servers, building new servers.
* Quality 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 builds, AWS SNS.**
* Experience with designing, building, and operating solutions using Virtualization by using private hybrid/public cloud technologies.
* Hands-on proficiency with Migrating a production infrastructure into an Amazon Web Services utilizing **AWS Cloud formation**.
* Proficiency in configuration and automation using **Chef, Jenkins, Ansible**, and **Docker**.
* Knowledge in configuring **Docker Containers** for Branching and deployed using **Elastic Beanstalk**.
* Ability to build utilities like **Maven, Ant** for the 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.
* Supervised configuration of Web App and Deploy to AWS cloud server through Chef.
* Developed AWS **Cloud Formation** templates and set up Autoscaling for EC2 instances.
* Designed **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 with **Kubernetes** for the runtime environment of the CI/CD system to build, test deploy.
* Operated on Installing, Configuring, and administering the **Jenkins CI** tool.
* Experienced in creating jobs and **pipeline jobs** in Jenkins.
* Familiarities with **Linux Administration** activities like troubleshooting of regular issues, configuration issues, applying patches, package management, and file system issues.
* Skilled in utilizing **Continuous Integration and Continuous Deployment** through Agile Methodology to deliver weekly software deployments through **Bamboo.**
* Efficient grasp in Virtualization Technologies **vSphere, VMware, Virtual Box.**
* Mastery in implementing Spark using **Scala**and **Spark SQL** for high-speed testing and processing of data responsible to manage data from different sources.
* Expanded an **Azure**-**based** high performance compute environment to help the massive computational specification of client congressional redistricting Azure application.
* Experience in Configuring and maintaining Networking services and protocols such as **LDAP, DNS, NFS, DHCP, and SSH.**
* Having involvement in automating infrastructure IAC provisioning using **Terraform** on AWS.
* Transformed existing **Terraform** modules that had version dispute 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 a regular basis.

**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, JavaScript, 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 Jun 2015-Aug 2017**

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

**Bachelor of Engineering in Instrumentation & Control May 2012** Gujarat Technological University, Gujarat, India  **CGPA: 6.9**

**EXPERIENCE:**

**AWS DevOps Engineer**

**KROGER- Blue Ash, Ohio March 2019 – Present**

**Responsibilities:**

* Analysed, Designed, and Setup **IAM** Users, Roles, Policies as per the Organization Security Standard.
* Accomplished 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.
* Professional in creating multiple **VPC**’s and public, private subnets as per demand and dispersed them as groups into various availability zones of the VPC.
* Featured **NAT** gateways and instances to permit communication from the private instances to the internet through bastion hosts.
* Configure the repository to issue an **SNS** notification upon changes. Support the pipeline to the Amazon SNS topic.
* Used **SonarQube** for uninterrupted inspection of code quality and to perform automatic reviews of code to discover bugs. Directing 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**.
* Hands-on with **Ansible Playbooks** to setup and configure Continuous Delivery Pipeline and Tomcat servers. Deployed Micro Services, with 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.
* Formation 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 evolved with Python.
* Executed and preserved 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 **Microservices** in Amazon Cloud Services AWS.
* Worked in implementing the AWS organizations in the current environment, effectively leveraged the features in managing the centralized **billing** and **new account setups**.
* 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.**

**AWS DevOps Engineer**

**Fifth Third Bank – Cincinnati, OH Dec 2017 – Feb 2019**

**Responsibilities:**

* Involved in AWS Environment, Worked on Various Services like **EC2, IAM, VPC, S3, EBS, RDS, KMS, ELB, Route53, Auto Scaling, SQS.**
* Worked with Identify and Access Management **(IAM)** to allocate 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.
* 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.
* Fabricated **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 improving project defects and tasks.
* Included 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**

**ITCC – Reston, VA Jun 2016 – Nov 2017**

**Responsibilities:**

* Involved in the Study of the business logic and synchronized with the client to gather the requirements.
* Registered the **SCM** process and policies of the company and suggested some process changes.
* Configured internode conveyance between **Cassandra nodes** and client using SSL encryption.
* Installed and worked with Cassandra cluster and **CQL** on the cluster.
* Experience in containerized based deployments using **Docker**.
* Hands on experience in automating application deployment in the cloud using Docker technology with the help of **Amazon EC2.**
* Operated on developing Chef Recipes to perform deployments onto application servers like **Tomcat** and **Nginx**.
* Noted Chef Cookbooks, recipes and pushed them onto Chef Server for configuring EC2 Instances.
* Assembling and configuring of EC2 instance on AWS cloud platform, Configuration of Elastic Load Balancer (**ELB**) for traffic control for the EC2 and S3.
* Generated network architecture on **AWS VPS, subnets, Internet Gateway, Route Table** and **NAT** Setup.
* Utilized AWS lambda to run servers without managing them and to trigger to run code by S3 and SNS.
* Implemented, configured, and administrated Layer 7 **API Gateway** and Portal.
* 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.
* Produced **Bash, Shell & Python scripts** for various Systems Administration tasks to automate frequent 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.**

**Build & Release Engineer**

**ICICI Bank – Gujarat, India Dec 2013 – March 2015**

  **Responsibilities:**

* Involved in automating **Build** and deployment processes for each **release** and backup, restore and upgrade.
* Involved in Building and configured **Chef Server** and workstation environment and worked on **chef cookbooks** to install tools like new relic and Sumo logic for both instrumentation and enabling and disabling logs.
* Setup Chef and performed tasks like **Chef Node Setup** and **Bootstrapping,** DNS Mapping of the newly created node, Certificate Management, Licensing and registering VMS to manage chef.
* Setup and Configured the **continuous build** system using **Jenkins** and running automation smoke.
* Used various plug-ins to extend the base functionality of **Bamboo** to deploy, integrate tests and display reports.
* Integrated Subversion into **Jenkins** to automate the code check-out process.
* Maintained and executed build scripts using by **Maven** and coordinating with development and quality assurance teams in **Linux** environments.
* Developed build scripts using **ANT** as the build tool for the creation of (**WAR files)** build artifacts.
* Configured **pom.xml** with the Build, test and source directories, with the modules and their dependencies.
* **Pom.xml** is configured to compile the source code of the project and test the compiled source code using **JUnit test.**
* Developed and implemented **Software Configuration Management** strategies for various applications according to the agile process.
* Administered **Git** repositories and managed account administration, **branching, merging, patch fixes and snapshots.**
* Deployed the static content into the web servers like **Tomcat, IBM HTTP Server**.
* Worked on **JIRA** to capture, organize and prioritize issues and partially administered Jira for issue management.
* Written **Shell** and **Groovy** scripts to automate the deployments to Application Servers.
* Built and Deployed **Java/J2EE** to Tomcat Application servers in an **agile continuous integration** process and automated the whole process.

**Environment:** **Chef, Jenkins, Bamboo, Maven, Ant, Git, Junit, Apache Tomcat, HTTP, Jira, Shell scripting, Perl, Java/J2EE, Linux.**

**Linux System Administrator**

**InfoDesk - Gujarat, India Dec 2012 – Nov 2013**

**Responsibilities:**

* Worked on installation, Configuration of **Linux**, **Solaris operating systems** on different hardware environments and configured **Solaris, Red hat Linux Servers** with **Jumpstart and kick start.**
* Created and managed user accounts, security, Access Control Limits (ACL), permissions, disk space and process monitoring in **Red hat Linux, Centos.**
* Worked on Installation of **Patches** on the servers running different applications and validating that the server is fully patched with all firmware and OS critical updates.
* Administered, maintained **Red Hat 4.0**, **5.0** AS, **CentOS 5.3/5.4** troubleshooting hardware, operating system, applications & network problems and performance issues.
* Installed and configured **DHCP, DNS, Apache, SMTP**, and file servers on Linux servers.
* Migrated database applications from Windows 2000 Server to **Linux** server.
* Installed and set up Oracle9i on **Linux** for the development team. Provided production support of **Apache** and **JBoss** including installation, configuration, and management and troubleshooting.
* Worked on creating workflows on **TeamCity** for setting up automated pipelines for **CI/CD**.
* Implemented day-to-day tasks in Red Hat Linux that include upgrading rpms, kernel, HB, configuring SAN Disks, multipath and **LVM file system**.
* Worked on Webservers, **JBoss, Tomcat** 5.x/4.x/3.x & **Apache server** 2.x/1.x.

**Environment: Red Hat Linux 4.0, CentOS 5.1/5.2/5.3, Solaris10, Net backup, SAN Storage, 4.5.5, Oracle 9i, WebSphere, Web Logic 8.1, VMware ESX 2.x, Tomcat, Apache Server 1.x,2.x, JBOSS 5.0.**