

S DHWANI

(862)-223 8143

developer.dhwani@gmail.com

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 **Lambda** 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:

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
Texas A & M University – Kingsville
GPA: 3.57

Jun 2015-Aug 2017

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

May 2012

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 Identity 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 automate S3 data upload and 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.