

**Dharm Desai   dharamdesai03@gmail.com   +1(945)-400-8089**  
**Cloud/Devops Engineer**

**Professional Summary**

- 2+ years of experience in DevOps, AWS Cloud platforms and its features, designing Build process, Software Product Development, Process Automation, Build and Deployment Automation, Release Management, Packaging Quality Control, Source Code repository & Environment management, CI/CD (Continuous Integration / Continuous Deployment) process, Strong background in Linux Administration.
- Good Experience on AWS platform and its dimensions of scalability including EC2, S3, EBS, VPC, ELB, AMI, SNS, RDS, IAM, Route 53, Auto scaling, Cloud Front, Cloud Watch, Cloud Trail, Cloud Formation, OPS Work, Security Groups and Proficient in DevOps essential tools like Chef, Ansible, Docker, Subversion (SVN), GIT, Hudson, Jenkins, Ant, Maven.
- Experienced in Writing Chef Recipes to automate build/deployment process.
- Experience in Administration/Maintenance of Source Control Management Systems such as Git, SVN.
- Managing Amazon Web Services (AWS) infrastructure with migration, automation and configuration management tools such as Chef and Ansible.
- Expert in automation (writing Shell, & Python scripts) to monitor LINUX/UNIX production applications.
- Automated the Continuous Build process, monitored, maintained, and controlled software configurations in secured distributed environment.
- Experience in Linux Virtualization implementations such as VMware.
- Experience with automating release process using Maven, Jenkins and Jira as tools in diversified project environment.
- Experience building Micro-services and deploying them into Kubernetes cluster as well as Docker Swarm
- Creating Docker containers for managing the application life cycle. Evaluated Docker Data Center and Kubernetes for Docker Orchestration.
- Extensively worked with Jenkins for CI (Continuous Integration) and CD (Continuous Deployment) methodologies and for end to end automation for all build and deployments
- Configured and maintained Jenkins to implement the CI (continuous Integration) process for major release and integrated the tool with Ant and Maven to schedule the builds
- Build and deployment scripts using Ant and Maven as build tools in Jenkins to move into different environments and create new jobs and branches through Jenkins
- Familiar with designing and deploying container-based production clusters using Docker.
- Creating and managing user accounts, system security, change management, documents and procedures on Linux.

- Scripted internal automation via various scripting languages like Shell and Python.
- Expertise in Application deployment and environment configuration using Ansible.
- Experience in Infrastructure as a Service (IaaS) managing Amazon Web Services infrastructure with automation and configuration management i.e. Ansible.
- Experienced with Docker container service. Creating Docker files, Docker Images & Containers
- Experience with container-based deployments using Docker, working with Docker images, Docker hub and Docker registries, installation and configuring Kubernetes and clustering them.
- Implemented Kubernetes to deploy scale, load balance, scale and manage Docker containers with multiple names spaced versions.
- Automate delivery pipeline using integration and infrastructure tools GIT, Jenkins and Ansible
- Expertise in systems performance monitoring & tuning: CPU, disk, memory and network utilization.
- Actively worked on Docker and deploying and maintaining Micro services in Dev & QA environment using Docker and Terraform.
- Used Terraform for servers/resource provisioning against AWS cloud provider and Ansible for configuration management.
- Experience with AWS services like EC2, VPC, S3, ELB, Route53, SES, SNS, RDS, CloudFront, Elastic Cache, Cloud Watch etc.
- Kubernetes is being used to orchestrate the Deployment, scaling and management of Docker Containers.
- Experience in writing Ansible playbooks, Chef cookbooks and Recipes to manage systems configuration
- Extensively worked on Jenkins for Continuous Integration and for End to End automation for all build and deployments.
- Extensively worked on Jenkins, Docker for continuous integration and for End to End automation for all build and deployment.
- Worked on building and deploying Java code through Jenkins
- Experience in a DevOps Environment on various technologies/applications like Azure, GCP, Puppet, CHEF, GIT, SVN, Jenkins, Docker, AWS, and ANT.
- Worked on micro-services for continuous delivery environment using Docker and Jenkins

## **Technical skills**

Area of work	Deployment/Migrations, Environment management, Configuration management, Production support.
Data Base	SQL, MySQL, Teradata.
Cloud services	AWS, Google Cloud Platform (GCP), Azure.
Configuration management Tools	Ansible, Terraform, Chef.
CI Tools	Jenkins, Bamboo, TeamCity, Git Lab.
Management Tools	JIRA, Scoro.
Monitoring Tools	Nagios, Nagios XI, log stash, Kibana, ELK, Splunk
Version Control Tools	Git/Stash, Git, GitHub, SVN, CVS, beanstalk, Gitbucket, Bitbucket, Git.
Web Servers Tools & Frameworks	Apache tomcat, Nexus, Apache HTTP server, Nginx, Django, Flask
.Net Technologies	ASP.NET,ADO.NET, ASP, Silverlight 4,WPF, Entity Frame Work
Scripting Languages	Python, Groovy, Java, Shell, Ruby
Testing Tools	Selenium, Junit, Load Runner, Jmeter
SDLC	Kanban, waterfall Model , Agile Scrum
Build Tools & Container Services	Ant, Maven, Docker, Kubernetes.
Certification in Aws	Aws Solutions architect - Associate

## **Education**

- Bacolor's in Computer Science's From Texas A&M University- TX, 2021

## **Professional Experience**

### **Responsibilities:**

- Function as an Infrastructure Engineer working closely with multiple teams for automation, managed operations and cloud security.
- Responsible for keeping up multiple environments (Dev, QA, staging, production).
- Automated creation of every resource (EC2 instance, DNS entries, log groups) using Terraform and committed the code to code-commit for future reference.
- Created Palo-Alto firewalls to identify unknown malicious files, often used in targeted attacks, by directly and automatically executing them in a virtual cloud-based environment.
- Installed Nginx web servers and configured redirects.
- Created Cloud Watch alerts to notify support team in the event of high CPU utilization, high disk space utilization, high network utilization etc.
- Experience using GNU tools such as debugging tool GDB, GnuMake build tools
- Utilized Kubernetes and Docker for runtime environment of the CI/CD system to build, test and deploy.
- Container management using Docker by writing Docker files and set up the automated build on Docker HUB, installed and configured Kubernetes.
- Created AWS Config to track resources inventory and configuration changes.
- Integrated AWS infrastructure with Red Lock to alert/notify support team if any of the resources are non-compliant with CIS, HIPPA & NIST standards.
- Implemented Security groups in the infrastructure. Worked with different application SME's to understand what ports are required for application to work.
- Worked with Security Information and event management team (SIEM) and integrated the infrastructure with QRadar to seamlessly ship all the logs.
- Designed, deployed and maintained AWS virtual private cloud (VPC) infrastructure.
- Audit existing AWS security rules and propose changes to enhance infrastructure security.
- Worked with audit team and created artifacts, run-books and POAMs for CIS and NIST Audit controls.
- Responsible for integrating AWS logging components (CloudTrail, CloudWatch) with IBM QRadar.
- Setup and built AWS infrastructure various resources, VPC EC2, S3, IAM, EBS, Security Group, Auto Scaling, and RDS in Cloud Formation JSON templates.
- Configured auto scaling in customized VPC, based on elastic load balancer (ELB) traffic and using ELB health check to trigger auto scaling actions.
- Experience in handling Pop-ups with Selenium using Alert methods. Experience in handling multiple windows in selenium using get window handles method.
- Building/Maintaining Docker Container clusters managed by Kubernetes, Linux, Bash, GIT, Docker.
- Utilized Kubernetes and Docker for the runtime environment of the CI/CD system to build, test and deploy.
- Used Terraform as Infrastructure as a code to build the infrastructure on AWS.

- Migrated present Linux environment to AWS by creating and executing a migration plan, deployed EC2 instances in VPC, configured security groups & NACL's, attached profiles and roles using AWS Cloud Formation templates and Ansible modules. Using Chef, deployed and configured Elastic search, Logstash and Kibana (ELK) for log analytics, full text search, application monitoring in integration with AWS Lambda and Cloud Watch.
- Deployed and maintained production environment using AWS EC2 instances and Elastic Container Services with Docker.
- Worked with various teams to support and optimize the AWS cloud infrastructure for production, staging and development environments, troubleshoot performance issues, and resolve production incidents. Launching Amazon EC2 Cloud Instances using Amazon Images (Linux/ Ubuntu) and configuring launched instances with respect to specific applications.
- Involved in container management using Docker by writing Docker files and enforced setting up the automated build on Docker HUB and worked on Docker container snapshots, removing images and managing Docker volumes.
- Written deployment scripts in Shell and Ruby including shell script in Jenkins jobs to do pre and post build operations.
- Used Jenkins and pipelines to drive all micro services builds out to the Docker registry and then deployed to Kubernetes, Created Pods and managed using Kubernetes.
- Expert Knowledge in Bash Shell Scripting, Automation of cron Jobs.
- Implemented Continuous integration and Continuous Delivery process using Git/SVN, Jenkins, Maven, Chef and Rundeck.
- Used Jenkins pipelines to drive all micro services builds out to the Docker registry and then deployed to Kubernetes, Created Pods and managed using Kubernetes.
- Built scalable Docker infrastructure for Micro services utilizing ECS - AWS Elastic Container service by creating task definition json file.
- Worked on Docker container snapshots, attaching to a running container, removing images, managing directory structures and managing containers in AWS ECS.
- Kubernetes architecture: node, kubelet manages pods, their containers, images, volumes, network etc. kube-proxy is a simple network proxy and load balancer responsible for reflecting services on the nodes.
- Experience in creating Task definitions, which specifies the tasks, Resource allocation (Fargate), services and docker image on which application is built for Elastic Container Service and ALB.
- Developed micro service on boarding tools leveraging Python and Jenkins allowing for easy creation and maintenance of build jobs and Kubernetes deploy and services.
- Involved in Architect, build and maintain Highly Available secure multi-zone AWS cloud infrastructure utilizing Chef with AWS Cloud Formation and Jenkins for continuous integration.
- Written some Templates for AWS infrastructure as a code using Terraform to build staging and production environments and automated infrastructure provisioning occasionally with Terraform and Packer in place of Chef and even automated the image build process using Packer.
- Used Jenkins for enterprise scale infrastructure configuration and application deployments into artifactory.
- Major focus on Configuration, SCM, Build/Release Management, Infrastructure as a code (IAC) and as Azure DevOps operations Production and cross platform environments.

- Implemented maven plug in through Jenkins jobs for deploying the artifacts to artifactory.
- Involved in the centralized logging and monitoring stack of Elastic search, Log stash, and Kibana to build real time monitoring dashboards to ensure high availability of the Cloud Control Plane.

Environment: EC2, ECS, S3, auto scaling, AMI, ELB, EBS, IAM, RDS, DNS, cloud watch, route53, VPC, Terraform, BASH, APACHE/TOMCAT, Ansible, Jenkins, GCP, Docker, Artifactory, Selenium, Kubernetes, Jira, GIT, Azure , Ruby, Python, Shell Scripts, UNIX/Linux Environment.

Citi bank  
2023

Sep 2022 – May2023

DevOps Cloud Engineer

### **Responsibilities:**

- heterogeneous platforms.
- Performed acceptance testing, if the software is good, archiving the files into clear case and informing the software testing department.
- Written shell scripts to automatically label 'required' files/folders based on certain criteria. Worked as a DevOps Engineer with a team that involves different development teams and multiple simultaneous software releases
- Configured, monitored, and automated AWS as well as involved in deploying the content cloud platform on AWS using EC2, S3, and EBS (Elastic Block Store)
- Involved in CI/CD pipeline using Jenkins, Maven, Nexus, GitHub, Chef, Terraform and AWS.
- Performed all necessary day-to-day subversion/Git support for different projects.
- Written Terraform t Worked on Amazon AWS EC2 cloud services for installing, configuring and troubleshooting on various Amazon images like Amazon Linux AMI, RedHat, 5.x.6.x, Ubuntu 12.x, 14.x.
- Involved in supporting cloud instances running Linux and Windows on AWS, experience with Elastic IP, Security Groups and Virtual Private Cloud in AWS.
- Created monitors, alarms and notifications for EC2 hosts using CloudWatch.
- Implemented Jenkins Code Deploy plugin to deploy to AWS and used to automate the build process and deploy the application to Tomcat server.
- Used Bootstrap Script for launching large number of instances in AWS and utilized AWS CLI to automate backups of ephemeral data-stores to S3 buckets, EBS and create nightly AMIs for mission critical production servers as backups.
- Used Ansible for configuration management of hosted Instances within AWS Configuring and Networking of Virtual Private Cloud (VPC) and designed AWS CloudFormation templates to create custom sized VPC, subnets, NAT to ensure successful deployment of Web applications and database templates.
- Setup and build AWS infrastructure various resources, VPC EC2, S3, IAM, EBS, Security Group, Auto Scaling, and RDS in Cloud Formation JSON templates.

- Deployed OpenStack workloads onto AWS. Migrated cloud formation scripts of OpenStack to AWS templates to setup VPC.
- Focused on containerization and immutable infrastructure. Docker has been core to this experience, along with Kubernetes.
- Experienced in using Docker Swarm and deployed spring boot applications.
- Developed container support for cloud environments and Docker.
- Deployed the applications in Docker containers and managed the containers in enterprise level.
- Created Docker images using a Docker file, worked on Docker container snapshots, removing images and managing Docker volumes
- Configured Docker container for branching purposes and Implemented Docker automation solution for Continuous Integration / Continuous Delivery model
- Scheduled jobs using Ansible Tower and have written Python modules for Ansible customizations.
- Wrote Ansible playbooks to setup Continuous Delivery pipeline. This primarily consists of a Jenkins, Sonar server and Vagrant, for the infrastructure to run these packages and various supporting software components such as Maven, etc.
- Utilized SPLUNK for log analyzing and improving the performance of servers and have done Issue identification, data analysis and security analysis.
- Monitored servers using tools like BMC and Nagios and providing 24x7 supports on call rotation basis.
- Configuring and managing an ELK stack, setup the Elastic search ELK Stack to collect, search and analyze log files from across servers. Evaluated system logs using ELK software stack.
- Integrated JIRA with Atlassian Confluence and/or Stash.
- Interfaced and coordinated with management (development managers, QA managers, product managers, project managers) during the entire product development life cycle (development, packaging, installing, Alpha testing, Beta testing, external release, porting) of multiple products on multiple emplates, chef cookbooks, recipes and pushed them into chef server for configuring EC2 instances.
- Worked on infrastructure with Docker Containerization.
- Performed day to day operations and troubleshooting of VMs.
- Created the AWS security groups to enable firewall.
- Created images stored in the Docker container and uploaded to Docker hub.
- Good experience in Amazon Web Services environment and good knowledge of AWS services like Elastic Compute Cloud (EC2), Elastic Load Balancers, Elastic Container Service (Docker Containers), S3, Elastic Beanstalk, CloudFront, Elastic File system, RDS, VPC, Route53, CloudWatch, Cloud trail, Cloud Formation.
- Initiating Amazon EC2 Cloud Instances using Amazon Web Services (Linux/ Ubuntu) and managing and configuring launched instances with respect to specific applications.
- Configuring of Virtual Private Cloud (VPC) with networking of subnets containing servers.
- Built S3 buckets and managed policies for S3 buckets and used S3 bucket and glacier for storage and backup on AWS.
- Work with product development to resolve build-related issues in all projects.

ENVIRONMENT: AWS (EC2, VPC, ELB, S3, RDS, Cloud watch and Route 53), Azure (Azure Active Directory, Jenkins, Docker, Ansible, Splunk, JIRA, UNIX/Linux, Shell scripting, Java, Maven, Nexus, Puppet, Nginix, and GIT.