

SUMMARY

- Over Around 5.6 years of IT Experience and 3.6 years in Multi Cloud/DevOps Engineer with CICD, Configuration Management, Scripting on Cloud, & On Premises.
- Automated the build & deployments for many applications from end-to-end using CICD strategies with various DevOps tools and technologies.
- Experienced as Lead for building backend infrastructure from scratch using core cloud services (AWS – Developer Tools, IAM, CFT, R53, VPC, S3, EC2, ELB, EBS, Lambda, Auto-Scaling, Cloud Watch & Cloud Trail, Azure- Repo, Pipeline, Artifacts, AD, & ARM).
- Expertise in DevOps, Release engineering, Configuration management, Deployment Automation, Cloud Infrastructure, Automation with Agile methodologies which incorporates Azure, Aws, Gcp, Bitbucket, Jenkins, IBM UCD, Nexus, JFrog, SonarQube, Ansible, Chef, Docker, Kubernetes Tomcat, JBOSS, WebLogic, Nginx, Linux & Shell Scripting.
- Experienced in automating the deployment of Nginx, Tomcat, JBoss and Elastic Stack using Ansible.
- Hands-on experience with Docker containers and Kubernetes clusters with its configuration based on requirements and maintaining the Docker hub for container images.
- Expertise in working as Linux Administration & Release Engineer on Multi data centre project for successfully migrating 150+ active Critical Dependency Production applications into secondary data centres and performing the shakeout strategies.
- Actively involved in monitoring system logs, metrics using tools like Splunk, Elk, Hyperic, Nagios, CloudWatch and Zabbix.
- Engaging with Enterprise Shared Services which are dependent on multiple applications and come up with the strategies to implement it for production environment setup and synchronisation with multiple data centres.

TECHNICAL SKILLS and Used Infra:

Software Build Tools	<i>Maven v3.0.3, Nexus Repository Manager v2.1, JFrog v7.7, Nexus IQ Server v1.38</i>
Version & Release Control Systems	<i>SVN 1.8, GIT 2.12 & BitBucket v4.13, Gitlab</i>
Config. Management Tools	<i>Ansible</i>
Cloud & Containers	<i>AWS - CodeCommit, Code Pipeline, EC2, S3, EBS, Lambda, ECR, IAM, VPC, CFT, Cloud Watch, Auto Scaling, R53, Azure – Storage, DevOps, Migrate, Google - Cloud Code, Cloud Build, Cloud IAM, Cloud Storage, Terraform, Docker & Kubernetes</i>
CICD Tools	<i>Cloudbees Jenkins 2.x/Hudson 3.2, IBM Clear Quest 8.0.1, IBM UCD, Bamboo 5.1x</i>
Web & Middleware Services	<i>JBOSS AS 7.1/EAP 6.3, Apache 2.2/4, IBM WebSphere 6.x/7, Nginx 1.12/13, Tomcat 8.x/9, WebLogic 11g/12cR1/R2, VMware ESXi 6.x</i>
DB Technologies	<i>Oracle 12c, MySQL, Cosmos DB</i>
Ticketing/Documentation Tools	<i>JIRA v7.3.1, Bugzilla v4.4, Confluence v5.8.</i>
Operating Systems	<i>RHEL v6.x/7.x, Ubuntu v13.x/14.1, Cent OS v5.x/6.x, Windows Server 2008, 2012, 2016</i>
Business Management	<i>Tableau, iTIL v3 Foundation, Agile Methodology</i>
Monitoring	<i>ELK, Nagios, Zabbix, Cloudwatch</i>
Programming & Scripting	<i>Java, Shell Scripting, Python, Groovy, Go</i>
Infra-provisioning tools	<i>Terraform, ARM Templates, Cloud formation, Python boto 3</i>
Build Tools	<i>Maven</i>

Static-code-analysis	<i>Sonar-qube</i>
Containerization tools	<i>Docker</i>
Image-Building tools	<i>Packer</i>
Application-Monitoring	<i>Elastic search engine, Logstash, Kibana</i>
System-level-monitoring	<i>Prometheus</i>
Visualization tools	<i>Grafana, Kibana</i>
Aws-Services	<i>Ec2, VPC, Subnets, Internet gateway , Route 53, Cloud-watch, SQS, SNS, Cloud-formation,EBS, EFS, Guard-Duty, AWS Config, , Ops-Work, Trusted advisor, Load-Balancer, Launch Configurations, Ansible etc</i>
Virtualization tools	<i>Vagrant</i>
App servers	<i>Tomcat</i>
Web Server	<i>Apache, Httpserver, Nginx</i>
Knowledge on app servers	<i>Web logic, Websphere, Jboss</i>

EMPLOYMENT HISTORY

Worked with NEEVI SYSTEMS PRIVATE LIMITED

Oct 2021- Till date

Worked with GENESIS INFOCOM PRIVATE LIMITED

Jan 2018 – Sep 2021

Client: Farmers Insurance

Jan 2023 to till date.

Role: Aws/DevOps Engineer

Responsibilities:

- Developing the deployment & delivery pipelines in Jenkins using groovy-based DSL and integrating it with various DevOps tool such as Gitlab, Maven, Jenkins, Nexus, UCD, SonarQube, Selenium, for ensuring code quality during continuous delivery.
- Developing Azure ARM in JSON and YAML to automate orchestration and the environment provisioning on cloud to maintain the stability of the applications on each environment.
- Developing Python and Bash scripts for DNS routing & networking to perform post deployment activities on production and trigger the calls to specific target hosts and APIs to retrieve the metadata from the logs and attach to release notes.
- Automated the deployment process by writing Perl, Python scripts in Jenkins.
- Automated the cloud deployments using Ansible, Python and AWS Cloud Formation Templates.
- Administering build & deployment activities for on-premises and cloud applications to troubleshoot critical build & production deployment issues.
- Implementing CICD strategies using Agile methodology by integrating various DevOps tools in the pipelines (Git, Azure Repo, Maven, Jenkins, Nexus, UCD, Ansible, Azure-VM, Blob, ARM, IAM, Terraform, Autoscaling, Docker, Kubernetes) with Python, YAML, Groovy & Go scripting languages for automation of cloud & on-premises applications.
- Working knowledge of web and application server's management and configuration (e.g., Load Balancers, Nginx, Apache)
- 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
- Deploying and managing applications on docker containers using docker images written in Dockerfile, and Kubernetes clusters, hosted on cloud using Kubectl and for inspecting the cluster resources to create, update and delete components.
- Developing Terraform scripts in JSON for configuring the resources, application packages and for building, changing & versioning the infrastructure services to provide the monitoring alarms on cloud and on-premises environments.
- Implemented new ELK cluster for enterprise logging and Maintained Elasticsearch, Logstash, Kibana.

- Used ELK (Elasticsearch, Logstash and Kibana) for name search patterns for a customer.
- Implemented a POC to integrate ELK Stack to an existing framework for real time log aggregation, analysis, and querying (Elasticsearch, Logstash, Kibana).
- Installed Logstash rpm and started the Logstash in our environment.
- Used Elasticsearch for name pattern matching customizing to the requirement.
- Installed Logstash-forwarder and run Logstash-forwarder to push data
- Used Kibana plugin to visualize for Elasticsearch.
- Created different dashboards based upon the level of user and this was integrated with the customer care support UI.
- Troubleshooting any build issue with ELK and work towards the solution.
- Creating Ansible playbooks & roles from scratch and integrating them into Jenkins jobs for continuous delivery framework to automate the deployment process into infrastructure as code strategy.

Environment: Azure - Repo, Pipeline, Artifacts, Blob, ARM, Traffic Manager, Maven, Cloudbees Jenkins, Nexus, JFrog, Terraform, Ansible, Docker, Kubernetes, Service Now, Shell Scripting, Python, JBOSS, Nginx, Tomcat, JIRA, Confluence.

Client: JCPenney

Nov 2021 – Dec 2022.

Role: AWS/DevOps Engineer

Responsibilities:

- Leading multiple teams with around 15 members to perform their everyday activities of cloud environment and support development teams to help troubleshoot the deployment issues and maintain the environments for high availability and data redundancy.
- Utilized Kubernetes and Docker for the runtime environment for the CI/CD system to build, test, and deploy. Created Jenkins jobs to deploy applications to Kubernetes Cluster.
- Mentoring the team members to help them understand the DevOps methodologies with various tools and technologies (Bitbucket, Jenkins, Nexus, JFrog, SonarQube, IBM ICD, Ansible, Python & Shell Scripting).
- Automating continuous integration process with zero manual intervention by integrating Bitbucket, Maven, Jenkins and pushing the build artifacts to JFrog and Nexus.
- Building and managing applications on multi-tier architecture hosted on AWS CodeCommit, CodeDeploy, CodePipeline, EC2, VPC, IAM, S3 and orchestrating the services with auto-scaling technique using Terraform.
- Writing Terraform scripts for providing the monitoring alarms on cloud and on-premises environments.
- Writing Ansible YAML scripts for configuring and patching remote servers using Ansible.
- Configuring and integrating the nodes with various environments to automatically provision new machines with Ansible.
- Automated the scheduling, rollout and rollbacks using Kubernetes to launch container on cluster nodes and bring it to desired state.
- Integrated the deployment of ECK applications with Kubernetes for CICD automation and use webhook for validation and troubleshooting.
- Deployed and managed applications on Kubernetes using Kubectl and for inspecting the cluster resources for creating, updating, and deleting components.
- Design, build and manage the ELK (Elasticsearch, Logstash, Kibana) cluster for centralized logging and search functionalities for the App.
- Used Elasticsearch for powering not only Search but using ELK stack for logging and monitoring our systems end to end Using Beats.

Environment: AWS – Code Commit, Code Pipeline, EC2, S3, VPC, IAM, RDS, R53, Lambda, Maven, Cloudbees Jenkins, Nexus, JFrog, Terraform, Ansible, Docker, Kubernetes, Service Now, Shell Scripting, Python, JBOSS, Tomcat, JIRA, Confluence.

Client: Telecom Italia

Sep 2020 – Sep 2021

Role: Aws/DevOps Engineer

Responsibilities:

- Automating the build and deployments for different platform specific applications from end-to-end on AWS EC2, EBS, S3, IAM,



Route53, Lambda, SNS to reduce manual interventions for application teams in agile environment using DevOps strategies.

- Developing the deployment & delivery pipelines in Jenkins and integrating it with various application specific testing tools (Selenium, Cucumber & SonarQube) for code quality during continuous delivery.
- Implementing CI/CD strategies to advance the DevOps methodologies on cloud & on-prem environment using AWS Lambda as serverless architecture to improve the agile development.
- Written python scripts for performing post deployment actions and trigger the calls to specific hosts or API to retrieve the metadata from the logs and attach to release notes.
- Implemented the rapid application development and iteration by making it easy to deploy, update and manage the applications and services on ECS and EKS.
- Building, publishing the customized interactive reports and dashboards, report scheduling using Tableau server.
- Developing Tableau workbooks, visualizations and dashboards from multiple data sources using Data Blends and using Tableau desktop.
- Worked on providing to manage environment for deploying and scaling the containerized applications using Kubernetes.
- Coordinated in all aspects of production release management lifecycle including development and test activities by engaging with different application teams and provide DevOps solutions to improve their current build & deployment process for automation with various CI/CD tools.

Environment: AWS – Developer Tools, CFT, EC2, S3, IAM, R53, Lambda, Auto scaling, ELB, VPC, Beanstalk, RDS, ECS, EKS, BitBucket, Ant, Maven, Cloudbees Jenkins, Nexus, JFrog, IBM Clear Quest, IBM UCD, Kubernetes, Tableau, Service Now, JIRA, Confluence, Shell Scripting, Python, JBOSS, Tomcat, WebLogic.

Client: Capital One

Sep 2019 – Aug 2020

Role: AWS/DevOps Engineer

Responsibilities:

- Handled the configuration of servers for specified applications on Amazon EC2 Cloud Servers using Linux Amazon Machine Images (AMI).
- Wrote custom cookbooks for automating components that are not available in marketplace.
- Delivered solutions to improve the CI/CD pipeline process, cloud architecture, deployment for AWS Private and Public Cloud and automate the agile methodologies.
- Delivered support for many AWS Services like EC2, EBS, S3, Cloud Watch, Cloud Front, IAM, Security Groups, Auto-Scaling AWS CLI and Cloud Watch monitoring, creation and updating.
- Operated on configuration management tool Chef for Continuous Delivery and rewritten recipes for new environments.
- Automated weekly releases with ANT/Maven scripting to compile, debug Java code and placing builds into Nexus repository.
- Integrated Chef cookbooks into Jenkins jobs for continuous delivery framework by writing Chef cookbooks and recipes to automate the deployment process.
- Installed, configured, and automated the Jenkins build jobs with AWS deployment pipelines using various plugins like Jenkins-EC2 plugin and Jenkins-Cloud Formation plugin.

Environment: AWS - EC2, S3, EBS, VPC, IAM, AWS CLI, Cloud Formation, CloudWatch, SVN, GIT, Jenkins, Chef, Ant, Maven, Nexus, Linux, Ruby, Perl, Shell Scripting, Python, JBOSS, WebLogic, Apache.

Client: Walmart

Nov 2018 – Aug 2019

Role: Aws/DevOps Engineer

Responsibilities:

- Managed virtual Linux and Windows servers on AWS EC2 by creating Chef nodes through open-source Chef-server.

- Incorporated in automated tests using shell scripts and security scans with SonarQube and CloudWatch into CI/CD pipeline in Dev, Test environments on AWS.
- Delivered solutions to improve the CI/CD pipeline process, cloud architecture, deployment for AWS Private and Public Cloud and automate the agile methodologies.
- Expertise in *Identity Access Management (IAM)*, created users, groups and assigned roles based on their duties and generated EC2 instances and installed applications on Amazon VPC.
- Actively participated in ongoing design, implementation and maintenance of systems and tools on AWS cloud environment.
- Experienced in reviewing routine Web Vulnerabilities scans and bringing in resources to remediate any open issues.

Environment: AWS - EC2, S3, EBS, VPC, IAM, AWS CLI, Cloud Formation, CloudWatch, SVN, GIT, Jenkins, Chef, Ant, Maven, Nexus, Linux, Ruby, Perl, Shell Scripting, Python, JBOSS, WebLogic, Apache.

Client: Electronic retailer

Jan 2018 – Sep 2018

Role: Devops Engineer

Responsibilities:

- Provided CM and Build support different applications, built, and deployed to the pre-production environ Responsible for Deployment Automation using multiple tools Chef, Jenkins, GIT, ANT Scripts
- Written Chef Cookbooks and recipes in Ruby to Provision several pre-prod environments consisting of Cassandra DB installations, WebLogic domain creations and several proprietary middleware installations.
- Deployed a centralized log management system and integrated into Chef to be used by developers.
- Educated team about continuous integration and automated testing practices and supported them throughout development.
- Configured Jenkins to implement nightly builds on daily basis and generated change log that includes changes happened from last 24 hours.
- Responsible for nightly and weekly builds for different modules.
- Operations - Custom Shell scripts, Ruby scripts, VM and Environment management.
- Manage configuration of Web App and Deploy to AWS cloud server through Chef.
- Work with different team members for automation of Release components.

Environment: Subversion, Ant, Maven, Jenkins, GIT, SVN, Chef, Puppet, AWS, Python, Shell Scripting.

ACHIEVEMENTS

- Migrated more than 50 Critical Dependency Applications to Multi Cloud environments successfully with proper CICD strategies and enabling the synchronization with Production.
 - Automated the build, test, and deployments with various Devops tools integration on Azure DevOps, AWS Stack and On-prem.
 - Implemented best CICD practices & strategies in multiple portfolios by engaging with Enterprise Shared Services.
 - Delivered solutions to improve cloud architecture, deployment for AWS Private/Public Cloud and Docker containerization.
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Name: Ratnakar Patel

Place: Hyderabad