

SRIKANTH.K

SR. DEVOPS ENGINEER

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DevOps Engineer | Amazon Web Services (AWS)|Continuous Integration (CI) | Continuous Delivery (CD) | Build & Release Management | Configuration Management (CM) | Infrastructure Management | Automation| Security

PROFFESIONAL SUMMARY

- Over 9+ years of experience as a **Sr. Cloud/DevOps Engineer** for automating, building, releasing, and configuring changes from one environment to another environment.
- Created development and test environments of different applications by provisioning **AWS ECS** using **ECR Docker, Bash, Elastic search** and **CloudFormation**.
- Experience in AWS, which includes CloudFormation, Elastic Load Balancer, CloudWatch, IAM, Route 53, SQS, VPC, S3, DynamoDB, SNS, RDS, Lambda.
- Extensive experience in using Version control systems includes **Subversion (SVN), GIT, Bitbucket**.
- Experience in configuration management tools **Puppet, Chef, Ansible**.
- Proficiency in writing automation scripts using **Shell, PowerShell** in **Puppet** to support infrastructure as code and continuous deployment.
- Experience working on **Docker hub**, creating **Docker images**, and handling multiple images primarily for middleware installations and domain configurations.
- Expertise in using build tools like **MAVEN** and **ANT** for the building of deployable artifacts such as **WAR & EAR** from source code.
- Written scripts in **Ruby** which integrated with **Azure-API** to control instance operations.
- Working with **Azure** Data Factory Data transformations such as Stored Procedure, Databricks.
- Working with **Azure** Data Factory Control flow transformations such as for Each, Lookup Activity, Until Activity, Web Activity, Wait Activity, If Condition Activity.
- Extensively worked on **Jenkins, Hudson, Bamboo** for continuous integration and for End-to-End automation for all build and deployments.
- Experienced in **OpenShift** platform in managing **Docker Containers, Kubernetes Clusters**, and **Mesos** and implemented a production ready, load balanced, highly available, fault tolerant **Kubernetes** infrastructure and created **Jenkins jobs** to deploy applications to **Kubernetes Cluster**.
- Creating **GCP** Firewalls through **GCP** console and defining at the **VPC** network with default and implied rules for sensitive information to restrict the access for data storage on virtual machines.
- Securing the **GCP infrastructure** with Private, Public subnets as well as security groups and leveraging the Google cloud services such as compute, **auto-scaling**, and **VPC** to build secure, Scalable systems to handle unexpected workloads.
- Maintain and enhance automation to support setup and provisioning of new projects in **OpenShift**.
- Extensive knowledge and administration experience in **JIRA** and knowledge on other **Atlassian** products like **Bitbucket** and **Bamboo**.
- Good understanding of full SDLC with Solid expertise on software Build/Release, Configuration process and DevOps Engineering.
- In-depth knowledge of **Agile (SCRUM)**, **SAFE** methodology.

TECHNICAL SKILLS:

Cloud Technologies	AWS, MS Azure, GCP, ON-PREM.
Databases	MySQL, SQL Server, ORACLE, PostgreSQL, Amazon RDS, Amazon Aurora and Amazon Redshift.

Monitoring Tools	Cloud Watch, Elk Stack, Splunk, PROMETHEUS, GRAFANA.
Automation and Build Tools	Bamboo, ANT, MAVEN, Hudson, Jenkins.
Configuration Management Tools	Chef, Ansible, Puppet.
Version Control Tools	Subversion, GIT, Tortoise SVN
Scripting	Bash, Shell, Python, Ruby, Java, JavaScript, HTML
Networking Infrastructure	TCP/IP, DNS, DHCP, R53, LDAP, ADDS, SAN.
CONTAINER&ORCHESTRATION	KUBERNETES, DOCKER.

PROFESSIONAL EXPERIENCE

Master Card St Louis, Missouri.
Sr. AWS Cloud Engineer/ DevOps

Jan 2022 - Present

Responsibilities:

- Design, build and maintain infrastructure on **AWS** environment.
- Responsible for building infrastructure on AWS cloud by generating CloudFormation templates in **YAML** or **JSON** to provision the required infrastructure resources such as Amazon **Lambda**, **S3**, **EC2**, **RDS databases** etc. by creating stack on AWS CloudFormation.
- Monitoring AWS resources and applications that deployed on cloud by creating **alarms**, enabling notification service using **AWS CloudWatch**.
- Created roles in **AWS Identity Access Management**, manage users and groups using permissions to allow and deny access to AWS resources.
- Responsible for analyzing the existing **On-premises** applications, re-engineering the existing services efficiently to migrate from On-premises data center to **AWS cloud**.
- Responsible for writing the logic for **AWS Lambda functions** using python, adding triggers to the AWS Lambda to further process the flow in applications.
- Responsible for creating automated **build** and **deploy** capabilities in the infrastructure and Integrating with **SonarQube** which picks up the code committed and scans for security vulnerabilities, code smells for continuous inspection of code quality.
- Worked on setting up tracking and monitoring services such as **AWS CloudTrail**, **CloudWatch Alarms**, Centralized Logging, Notification and **AWS Config** etc.
- Managing the **OpenShift** cluster that includes scaling up and down the AWS app nodes.
- Installed and configured **OpenShift** container platformv3.9 on RedHat **Linux**.
- Worked with RedHat **OpenShift** Container Platform for Docker and Kubernetes. Used Kubernetes to deploy scale, load balance, scale and manage Docker containers with multiple namespace versions.
- Had done **POC** on implementation of continuous deployment pipeline with **Jenkins** and **Jenkins workflow** on **Kubernetes**.
- POC and architect transition and implementation of **Kubernetes/Docker**.
- Responsible for maintaining deployments across different environments by automating processes using **AWS Code Deploy**.
- Worked on private cloud using **Kubernetes** that supports DEV, TEST, and PROD environments.
- Responsible for creating pipelines using **AWS Code Pipeline** to automate deployment process for different environments.
- Implemented Customers (internal & external) sign in portal by enabling SSO using AWS Route 53.
- Responsible for writing scripts to create **Terraform**, **CloudFormation** templates which bootstrap's **Amazon EC2 instances** to automate the initial installation, configuration of the OS and application stack.
- Responsible for maintaining all the documentation on **Confluence** and Team SharePoint location, maintain change log for better re-usability of the code.

Environment: AWS (CloudFormation, EC2, S3, RDS, CloudWatch, Lambda, R53, VPC, EBS, ELB), Terraform, SonarQube, SAFE Agile, Jira, Linux, Docker, Kubernetes, Bash, Python.

Prime Therapeutics, Minneapolis, MN

Jan 2019 - Dec 2021

SR. Devops Engineer.

Responsibilities:

- Responsible for configuration management, maintenance and troubleshooting of projects, implemented a **Continuous Delivery (CD)** framework using **Jenkins, Chef, and Maven** in Linux.
- Worked on **GIT** and Subversion (**SVN**) version control systems, by setting up the GIT and SVN repositories for Jenkins build jobs, polled Version Control Systems in a periodic manner using Cron Jobs.
- Installed, Configured and Administered Hudson/ Jenkins Continuous Integration Tool, experienced in working with Jenkins to build and test the applications.
- Installed and configured Artifactory for sharing artifacts between the teams internally.
- Setup the **Jenkins jobs** for Continuous integration process and to execute test cases.
- Written PowerShell script to automate Active Directory and server tasks and generate reports for administrators and management.
- • Maintain Requirements traceability in **ServiceNow SDLC** module.
- Designed and administrated databases for Oracle and MYSQL to support various web programming tasks.
- Designed and implemented scalable, secure cloud architecture based on **MS Azure** Cloud platform.
- Developing a Continuous Delivery (**CD**) **PIPELINE** with Docker, Jenkins, **GITHUB** and **Azure** pre-built images.
- Migrated on premises Databases to MS Azure platform.
- Written multiple scripts in Ruby and Bash Shell for different migration tasks in the company on to Azure.
- Strong expertise in Log monitoring using **Nagios** in different work environments.
- Automated the application and MySQL Container deployment in Docker using **Ruby**.
- Build Jenkins jobs to create Azure Infrastructure from GitHub repositories containing Terraform code.
- Written scripts in **Ruby** which integrated with **Azure-API** to control instance operations.
- Working knowledge on **Azure cloud IaaS and PaaS Services, Azure SQL, Azure storage and Azure Services**.
- Configuring and managing in **Hadoop Clusters** for **Spark streaming** jobs using **Microsoft Azure** and along with **SQL**.
- Working with **Azure** Data Factory Data transformations such as Stored Procedure, Databricks.
- Working with **Azure** Data Factory Control flow transformations such as for Each, Lookup Activity, Until Activity, Web Activity, Wait Activity, If Condition Activity.
- Configuring Secret Scope in Databricks Cluster using **Azure Key Vault**.
- Have good experience working with **Azure Blob** and **Azure** data lake storage and loading data into Azure SQL Synapse Analytics (DW).
- Maintain and enhance automation to support setup and provisioning of new projects in **OpenShift**.
- Experienced in **OpenShift** platform in managing **Docker Containers, Kubernetes Clusters, and Mesos** and implemented a production ready, load balanced, highly available, fault tolerant **Kubernetes** infrastructure and created **Jenkins jobs** to deploy applications to **Kubernetes Cluster**.
- Had very strong exposure using Ansible automation in replacing the different components of **OpenShift** like ECTD, MASTER, APP, INFRA, Gluster.
- Strong experience in Cloud application management using **AWS, Microsoft Azure, and OpenStack**.
- Created a Virtual Network on Windows Azure to connect several on-premises servers.
- Handled Jira issues to prioritize and act per issue sensitivity.
- Worked with development/testing, deployment, systems/infrastructure, and project teams to ensure continuous operation of **Dev and Test systems**.
- Ensured **Network Uptime** and troubleshoot any issues or outages to ensure business continuity.
- Involved in 24X7 Production support, Build and Migration Assignments.

Environment: Solaris, SVN, GITHUB, Docker, Ansible, Cloud Watch, Oracle, MySQL, Jenkins, Ruby, PowerShell, Bash, ANT, Maven, PUPPET, MS AZURE, JIRA, Apache Tomcat.

Responsibilities:

- Created, deployed, and tested an End-to-End CICD pipeline for different applications utilizing Jenkins as the Integration server for Dev, QA, Staging, UAT and Prod Environments.
- Created BASH and Python scripts utilizing **lambda** functions for automation of the build and release process.
- Setup VPC's and subnets utilizing CloudFormation for different applications.
- Made customized AMIs based on existing AWS EC2 instances by using create image functionality, subsequently utilizing this snapshot for disaster recovery.
- Build servers utilizing AWS: launching EC2, importing volumes configuring security groups and Elastic IP's, auto-scaling, load balancers, Route 53, SES and SNS in the defined VPC.
- Installed and configured Jenkins and created customized jobs to commencement builds for various environments. Integrated Subversion (SVN) into Hudson / Jenkins to automate the code check-out process.
- Coordinated **Selenium** Testing Framework with Jenkins for different Environments.
- Enabled Logging on EC2, S3, Dynamo DB, RDS, CloudTrail, CloudFront, AWS config, AWS inspector, AWS API gateway, Lambda Application server.
- Worked on Setting the Splunk server and configured Splunk Addon for AWS, Install Splunk Agents and Integrate **Splunk** to get logs.
- Backing up EBS volumes and similar maintenance tasks by writing AWS CLI scripts.
- Utilized Docker in Environment variables, Configuration records, Option sorts and Strings.
- Based on the elastic load balancer traffic, configured auto scaling in customized VPC and using ELB health check to trigger auto scaling actions.
- Google cloud platform using services such as compute, App Engine, Identity Security, Cloud storage, **Kubernetes** engines, databases, Google **Kubernetes** engine (**GKE**).
- Developed **micro service onboarding** tools leveraging **Python** and **Jenkins** allowing for easy creation and maintenance of build jobs and **Kubernetes deploy** and services.
- Used **Google Cloud platform** in the initial stages of project and created multiple **VM's** instances and managed them through **Kubernetes UI dashboard**.
- Used **Kubernetes** to **orchestrate** the deployment, **scaling**, and management of **Docker Containers**.
- Deployed and monitored scalable infrastructure on Google cloud and configuration management using Docker and Google **Kubernetes** Engine (**GKE**).
- Managed **OpenShift** master, nodes with upgrades, decommission them from active participation by evacuating the nodes and upgrading them.
- Deployment of a Dockerized RabbitMQ in **OpenShift** so that we might use the auto-scaling capabilities of OpenShift with a RabbitMQ cluster.
- Creating **GCP** Firewalls through **GCP** console and defining at the **VPC** network with default and implied rules for sensitive information to restrict the access for data storage on virtual machines.
- Securing the **GCP infrastructure** with Private, Public subnets as well as security groups and leveraging the Google cloud services such as compute, **auto-scaling**, and **VPC** to build secure, Scalable systems to handle unexpected workloads.
- Configuring a **Google Cloud Virtual Private Cloud (VPC)** and Database Subnet Group for isolation of resources. Architecting the infrastructure on Google cloud platform using GCP services and automating **GCP** infrastructure using **GCP** Cloud Deployment manager.
- Utilizing **Kubernetes** to deploy, scale, load balance with multiple name-spaced versions, configured private cloud using Kubernetes that supports DEV, TEST, and PROD environments and worked on implementing microservices on various **Kubernetes** Clusters.
- Designing and implementing CI (Continuous integration) system and configuring Jenkins servers and nodes by writing required scripts and creating configuring VMs.
- Using Google **Kubernetes** Engine (**GKE**) to manage clusters and implemented autoscaling conditions to accommodate traffic variance.

- Executed Chef Recipes for Deployment on build on internal Data Center Servers. Additionally, re-utilized and altered same Chef Recipes to make a Deployment straightforwardly into Amazon EC2 instances.
- Wrote Recipes & Cookbooks and uploaded them to Chef-server, Installed Workstation and Bootstrapped Nodes by using chef cookbooks managed on-site applications and EC2, S3 and ELB
- Experienced in setting up **MySQL, SQL, Aurora** on AWS.

Environment: Docker, Chef, AWS tools, SVN, ANT, Jenkins, LAMP, Maven, Apache Tomcat, Shell scripting, Nexus Artifact repository.

Environment: JENKINS, GIT, SVN, SPLUNK, LINUX, CHEF, ANT, MAVEN, RHEL 6.x, CentOS, Ubuntu, Solaris, AIX, VMware, New relic, RHEL 4.x, Windows NT, WebLogic 9.0/8.1, Logical Volume Manager.

Inspira Technologies, Hyderabad, India.
Linux Administrator

April 2012 – Sep 2015

Responsibilities:

- System Installation and configuration (**RHEL, Solaris, Windows Servers**)
- Monitoring, analyzing, and responding to security events utilizing security event management and reporting tools.
- Account, user & group administration, Permissions policy management and quota implementation.
- System performance monitoring, tuning and log management.
- **TCP/IP Networking, Troubleshooting** and Linux Network Administration.
- **Installation, Configuration, support, and security implementation on various services like DHCP, SSH, NFS, SAMBA, DNS, HTTPD, SEND MAIL.**
- Performed OS installations, OS Upgrades, and Server Patching by configuring **PXE and DHCP** server using **Kickstart Configuration** and by using **Red Hat Satellite** server.
- Implemented and configured brand new **VMware virtual infrastructure cluster** running on servers and on storage array.
- Installation and configuration of database systems e.g., **MySQL, Oracle 11g/12g.**
- Involved in creating virtual machine using **Oracle Virtual Manager, Creating server pool, VM Cloning.**
- System monitoring and remote connection management using **telnet and SSH connections.**
- Experience in setup **Storage area Network (SAN) and NAS** and file system backup and restore.

Environment: Sun Solaris, Red Hat Linux (RHEL 4), Oracle 11g/12g, TCP/IP, DNS, DHCP, NFS, SAMBA, Apache, POSTFIX, POP3, SMTP, MySQL, Oracle 11g/12g, VMware.

Education: Bachelor of Technology – Jawaharlal Nehru Technological University, Hyderabad.

Master's in technology: EASTERN ILLINOIS UNIVERSITY.