*Sai Bharghav Reddy (DevOps Engineer)* A picture containing text, clipart

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**PROFESSIONAL SUMMARY**

* 10 years of IT experience which includes 6 years of experience as DevOps automation engineer & CI/CD (Continuous Integration/Continuous Deployment) engineer with around working on DevOps/Agile operations process and as Developer around tools (Code review, unit test automation, Build & Release automation, Environment Management) along with Kubernetes Cluster Administration. 4 years of experience on Linux Administrator.
* Experience in Linux System Administration, Build Engineering & Release Management process, including end-to-end code configuration, building binaries & deployments and entire life cycle model in Enterprise Applications and Cloud Implementation all within that suit the needs of an environment under DevOps Culture.
* In-depth knowledge of DevOps management methodologies and production deployment Configurations.
* Skilled in Software Development Life Cycles and Agile Programming Methodologies.
* Well Versed in building and deploying applications on to different environments such as QA, UAT, and productions by developing utilities in **Shell and Python scripting**
* Creation of infrastructure in AWS & Azure using Infrastructure as Code with help of Terraform Scripts.
* Competent extent of skills on DevOps essential tools like **Docker, Git, Bit Bucket, Jenkins, Maven, ADO pipelines, Terraform, Ansible.**
* Set-up CI/CD pipelines with Jenkins and hands-on experience in building freestyle projects, pipeline, multi-branch pipeline Jobs through Jenkins file.
* Defined dependencies and plugins in Maven pom.xml for various activities and integrated Maven with GIT to manage and deploy project related tags
* Authorized pom.xml, build.xml files performing releases with the Maven, ANT release plugin, and managing artifacts, performed .Net build.
* Managed Maven environment by setting up local, remote, and central repositories with required configuration in maven configuration files
* Experience with containerization using Docker, generation of Docker images from Docker file and pushing that image to private registries.
* Well experienced in using Kubernetes and Docker for the runtime environment for the **CI/CD system to build,** test, and deploy
* Experience in all the prominent AWS services like Cloud Watch, Trail, and Cloud Formation and worked on Azure & AWS DevOps tools like **ADO pipelines &** **AWS Code-Pipeline** to build a continuous integration or continuous delivery workflow using AWS Code-Build, AWS Code-Deploy, and worked with many other AWS tools to build and deploy a microservices architecture using ECS.
* Orchestrated and migrated CI/CD processes using Cloud Formation and Terraform Templates and Containerized the infrastructure using Docker, which was set up in Azure & AWS and VPCs.
* Expertise in using Ansible to manage Web Applications, Config Files, Data Base, Commands, Users Mount Points, and Packages. Ansible to assist in building automation policies
* Maintained high availability cluster and standalone server environment and refined automation components with scripting and configuration management (Ansible) and experienced in writing Ansible scripts
* Profound experience in Configuring and management of cloud infrastructure using Azure which includes virtual machine, App service & AKS, Amazon Web Services (AWS) including EC2, Auto Scaling, EBS, Elastic Beanstalk, S3, VPC, Elastic Load Balancer, Cloud Watch, Cloud Formation, SNS, IAM, and SES
* Management of Azure & AWS storage infrastructure systems and configuring cloud platform such as virtual network multi-site, cross-site, VM's, AWS Active Directory, Elastic Load Balancers
* Optimized volumes and EC2 instances, set up Security groups & Created multi-AZ VPC instances
* Performed Capacity planning & Performance Analysis, Uptime & Response time analysis
* Experience in Installing, Configuring and Administration of Windows, Red Hat Linux, Unix, CentOS, and VMware Environments
* Ample knowledge in using Tomcat, IIS Application servers for deployments
* Experience with MS SQL Server DB Tasks (DML, DDL Executions, Log Rotations, Tablespace adjustments, client administration, and so forth.)
* Exposure to Remedy, ALM, JIRA tracking tools for tracking defects and changes for Change Management.
* Major strengths are familiarity with multiple software systems, ability to learn quickly new technologies, adapt to new environments, self-motivated, team player, focused adaptive and quick learner with excellent interpersonal, technical, and communication skills.
* Experience in gathering and defining functional and user interface requirements for software applications.

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| Operating Systems | Linux, WINDOWS, Unix |
| Languages | YAML, SHELL, PYTHON, |
| Databases | MySQL, Mongo DB, PL/SQL |
| Artifactory Repositories | ACR, ECR, Jfrog, Artifactory |
| CM Tools | Ansible, Terraform |
| Web/Application Servers | Tomcat, IIS |
| Build Tools | MAVEN, Dot Net |
| CI Tools | Azure DevOps Pipelines, AWS DevOps Code Pipeline, Jenkins, Github Actions |
| Automation container | Docker, Kubernetes. |
| SCM Tools | Atlassian Bitbucket, Azure Repos and Gitlab |
| Bug Reporting Tools | JIRA, ServiceNow |
| System Monitoring Tools | Splunk, CloudWatch, Prometheus and Log Analytics work Space |
| Methodologies | Agile/Scrum, Waterfall |
| IAC tools | Terraform |
| Cloud | Amazon Web Services: EC2, ECS, S3, ELB, Autoscaling, KMS, Elastic Beanstalk, VPC, Direct Connect, Route 53, Cloud trail, Lambda  Azure: VM, Blob Storage, VMSS, App Service, ACR, AKS |

**TECHNICAL SKILLS**

**EDUCATION**

* Bachelors in Computer Science Engineering – India.

**CERTIFICATION**

* Microsoft Certified Azure Administrator
* Certified Kubernetes Administrator
* AWS Developer – Associate

**EXPERIENCE**

***Client: William Scotsman, SFO, CA, USA Dec 2020 - Present***

***Role: Azure DevOps Engineer***

***Responsibilities:***

* Create CI/CD pipelines for the deployment of services and tools to the Kubernetes cluster hosted on Bare metal.
* Deployment of CNF on Kubernetes clusters using Helm charts and TCA tool.
* Create Value files based on test deployments done on test clusters and elevate them to production clusters.
* Install and configure ELK stack on the environment to ship logs from applications hosted on a cluster
* Configured and automated the Azure DevOps Pipelines & Jenkins Pipelines/Build jobs for Continuous Integration and Deployments Dev to Production environments.
* Worked on continuous integration and continuous delivery jobs for several teams in dev and test environments using shell, Groovy.
* Setup Bugzilla on Linux VM to keep track of bugs in deployment cycle and environment issues.
* Created an automation script to take backup of Bugzilla data at night and store the backups on a specific storage location.
* Enabled security parameters by using ACL and Gossip encryption key features on Console.
* Creation of CI/CD pipelines to integrate with vault and retrieve secrets to be used in pipeline jobs.
* Worked on continuous integration and continuous delivery jobs for several teams in dev and test environments using shell, Groovy.
* Worked on automating cron jobs which aid in scheduling dev, model, and prod jobs and disables the job after execution, as self-service to developers.
* Restricted user access/service accounts access over jobs on Jenkins using Assign and managing roles for security purposes in development and test environments.
* Monitoring and maintaining disk space issues on nodes connected to Jenkins for dev and test environments.
* Generated reports on Jenkins for jobs executed for each channel of business for a period in aiding metrics review.
* Creation of hooks on Bitbucket repositories in aiding to automation of Jenkins jobs.
* Creation of jobs to handle F5 balanced load environments deployments in dev environment.
* Configuring of Fortify Static code analysis on Azure DevOps/Jenkins jobs in dev and test.
* Configuring Azure Key Vault services to development teams for handling secrets in dev, test, and production environments using both UI and CLI in Jenkin jobs.
* Configuring on-prem servers on Jenkins to aid in dev and test deployments for several teams, managing and maintaining credentials on Jenkins.
* Created Bitbucket projects and repositories based on the taxonomy standards set by the architecture department. Migrated repositories and Jenkins jobs from git, svn to bitbucket.
* Create and manage the Azure & AWS cloud infrastructure for applications from various channels in the organization using Terraform.
* Certs monitoring on various applications maintained on Cloud to keep check of expiring certs and renewing them to avoid application failure.
* Configured Azure VM & EC2 instances and launched the new instances with the same configuration using AMIs.
* Provisioned VM & EC2 instances of different types by creating security groups and managing EBS volumes.
* Worked on Auto Scaling for providing high availability of applications and EC2 instances based on a load of applications by using Cloud Watch in AWS.
* Deploy the artifacts to staging and Production environments from artifact tools like ECR, ACR. Build the docker image, publish it to a DTR repo.
* Monitor the deployed applications using performance monitoring tools like ELK and Grafana.
* Management and monitoring of cloud resources and services in AWS using CloudWatch.
* Created alarms and trigger points in Cloud Watch based on thresholds and monitored the server’s performance, CPU Utilization, disk usage in Dev and test environments.
* Monitors the Kubernetes Cluster jobs and performance.
* Working on upgrading Kubernetes cluster, commissioning & decommissioning of Nodes, Pods

**Environment**: Jira, Confluence, Bitbucket, Jenkins, AWS Cloud (VPC, EC2, S3, Autoscaling, ECS, CloudWatch, Elasticsearch), Azure Cloud (VM, Blob, VMSS, VNET, AKS), Elasticsearch, Kibana, Linux, Windows, Terraform, Python, shell scripting, Gitlab CI/CD, Kubernetes, Vault, Shell scripting, YAML, TCA, Linux – RHEL, Grafana

***Client: Rocket Homes, Detroit, MI, USA Jan 2019 – Nov 2020***

***Role: AWS DevOps Engineer***

***Responsibilities:***

* Automated Build and Deployment process-setup **Continuous Integration** and **Continuous Deployment** of applications onto different environments like **Dev, QA, and Production**.
* Designing, deploying and maintaining the application servers on AWS infrastructure, using services like EC2, S3, Glacier, VPC, Lambda, Route53, SQS, IAM, Code Deploy, Cloud Front, RDS, and CloudFormation etc.
* Implemented the various services in AWS like VPC, Auto Scaling, S3, Cloud Watch, EC2.
* Worked with the different instances of AWS EC2, AWS AMI’s creation, managing the volumes and configuring the security groups.
* Experience in creating AWS AMI, have used Hashi corp Packer to create and manage the AMI's.
* Developed Chef Recipes to configure, deploy and maintain software components of the existing infrastructure.
* Deployed Docker Engines in AWS platforms for containerization of multiple applications, dockerized application which included packaging, tagging and pushing the image to the Jfrog/nexus Artifactory.
* Used Maven to build rpms from source code checked out from Subversion repository, with Jenkins and Artifactory as repository manager.
* Implemented automation of AWS infrastructure via Terraform and Jenkins - software and services configuration via Ansible playbooks.
* Worked on the Cloud Watch to monitor the performance environment instances for operational and performance metrics during the load testing.
* Designed the data models to be used in data intensive AWS Lambda applications which are aimed to do complex analysis creating analytical reports for end-to-end traceability, lineage, definition of Key Business elements from Aurora.
* Worked with the AWS S3 services in creating the buckets and configuring them with the logging, tagging and versioning.
* Created the trigger points and alarms in Cloud Watch based on thresholds and monitored logs via metric filters.
* Used JFrog Artifactory to store and maintain the artifacts in the binary repositories and push new artifacts by configuring the Jenkins project using Jenkins Artifactory Plugin.
* Used the AWS-CLI to suspend an AWS Lambda function. Used AWS CLI to automate backups of ephemeral data-stores to S3 buckets, EBS.
* Experience on Continuous Integration and Continuous deployment using various CI tools like Jenkins, Hudson and automating deployments using Continues Integration tools like Jenkins on Application Server JBOSS and Tomcat.
* Using the Docker file containers has run for the MongoDB and linking it with new container which will be the client container to access the data.
* Mirrored the Docker images required for Spinnaker from external registry to private Docker Registry.
* Experienced in maintaining containers running on cluster node are managed by OpenShift Kubernetes.
* Maintained Single and Multi-container pods storage inside a node of OpenShift (Kubernetes) cluster.
* Planning, implementation and testing of new Data Centre for Disaster Recovery migrations, involved in an Agile/ Scrum environment and daily stand-up meetings.
* Update Maven scripts to use Artifactory repo instead of local repositories.
* Worked on the AWS IAM service and creating the users & groups defining the policies and roles and Identify providers.
* Worked with Terraform key features such as Infrastructure as code, Execution plans, Resource Graphs, Change Automation.
* Used OpenShift for Docker file to build the image and then upload the created images to the Docker registry.
* Created Jenkins on top of Kubernetes in team environment to remove dependencies on other teams.
* Cloud infrastructure maintenance effort using a combination of Jenkins, Ansible and Terraform for automating CICD pipeline in AWS.
* Experienced with event-driven and scheduled AWS Lambda functions to trigger various AWS resources.
* Involved in writing Java API for Amazon Lambda to manage some of the AWS services.
* Automated the web application testing with Jenkins and Selenium.
* Automated the continuous integration and deployments CI/CD using Jenkins, Docker, Ansible and AWS Cloud Templates.
* Used Jenkins pipelines to drive all micro services which builds out to the Docker registry and then deployed to Kubernetes by Creating Pods and managed using Elastic Kubernetes Service (EKS).

**Environment:** Amazon Web Services, EKS Kubernetes, Jenkins, Ansible, Kubernetes, Python, Jira, Web logic, UNIX, VMware, Artifactory, Shell, Perl, JSON, Docker, Git, GitHub, Bitbucket, ELK.

***Client: Hashmap Inc -- Roswell, GA Sep 2016 - Dec 2018***

***Role: Cloud DevOps Engineer***

***Responsibilities:***

* Involved in Migration to AWS and implemented the Serverless architecture using the Various AWS services like AWS API Gateway, CloudWatch, ElasticSearch, SQS, DynamoDB, Lambda Functions, CloudFormation, S3, etc.
* Automated the infrastructure in cloud Automation using AWS Cloud Formation templates, Serverless Application Model Templates and deployed the infrastructure using Jenkins. • Designed, developed, deployed the complete CICD on cloud and managed services on AWS. • Created various stacks in CloudFormation which includes services like Amazon EC2, Amazon S3, API Gateway, Amazon RDS, Amazon Elastic Load Balancing, Athena.
* Provisioned Azure VM & EC2 instance using the ARM/SAM Templates.
* Involved in Architectural design and implemented the CloudFormation Templates for the whole AWS infrastructure.
* Worked with Auth0 and JSON web tokens for authentication and authorization security configurations using Node.js.
* Implemented the data Forking/Mirroring the HTTP request to the AWS Cloud and On-Prem servers using the Mirror module in the NginxPlus.
* Created CloudWatch alarms for monitoring the Application performance and live traffic, Throughput, Latencies, Error codes and notify users using the SNS.
* Worked on AWS Lambda to run the code in response to events, such as changes to data in an Amazon S3 bucket, HTTP requests using AWS API Gateway, and invoked the code using API calls made using AWS SDKs.
* Involved in setting up the Ansible & Terraforms Installed/Upgraded to the latest version.
* Used Kubernetes to orchestrate the deployment scaling and management of Docker containers.
* Hands-on experience Amazon EKS to manage Containers as a Service (CaaS), to simplify the deployments of Kubernetes in AWS.
* Used Amazon EKS to create its Kubernetes workers through the EKS wizard. • Puppetized the Linux configurations, Services like (NginxPlus, Keepalived, Chrony, Cassandra,), Audits, Yum Updates, Patches, Application and Middleware Servers (WSO2 ESB, Identity, Gateway), Users, Cron Jobs, NFS and Share Mounts.
* Customized and developed Puppet modules, Ruby Templates for an application like Newrelic, Nginx Plus, SVN Mirror, RabbitMQ, DB Patching, Backup, and Updates. • Extensively worked on web/high-performance Load Balancer servers like NGINX, Installed and configured the Nginx service for Load balancing and reverse proxying the incoming traffic.
* Created SSL and Digital Certificates for secured communication between servers using OpenSSL and Keytool.
* Installed, configured, and maintained the SonarQube for static code analysis, code coverage, and quality gates.
* Developed and implemented software release management strategies for various applications according to the agile process.
* Developed, Supported, and Monitored the application in case of any Production issues and worked on-call support.

**Environment:** AWS, RHEL (6,7), Ansible, Jenkins, Bitbucket, SonarQube, NginxPlus (r16), WSO2

ESB (4.9.0), New Relic, Splunk, Yaml, Json, Jmeter, Shell Script.

***Client: Aviall, Irving, TX, USA Oct 2013 - Aug 2016***

***Role: Linux Administrator***

***Responsibilities:***

* Involved in Migration to AWS and implemented the Serverless architecture using the Various AWS services like AWS API Gateway, CloudWatch, ElasticSearch, SQS, DynamoDB, Lambda Functions, CloudFormation, S3, etc.
* Automated the infrastructure in cloud Automation using AWS Cloud Formation templates, Serverless Application Model Templates and deployed the infrastructure using Jenkins. • Designed, developed, deployed the complete CICD on cloud and managed services on AWS. • Created various stacks in CloudFormation which includes services like Amazon EC2, Amazon S3, API Gateway, Amazon RDS, Amazon Elastic Load Balancing, Athena.
* Provisioned Azure VM & EC2 instance using the ARM/SAM Templates.
* Involved in Architectural design and implemented the CloudFormation Templates for the whole AWS infrastructure.
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* Involved in setting up the Ansible & Terraforms Installed/Upgraded to the latest version.
* Used Kubernetes to orchestrate the deployment scaling and management of Docker containers.
* Hands-on experience Amazon EKS to manage Containers as a Service (CaaS), to simplify the deployments of Kubernetes in AWS.
* Used Amazon EKS to create its Kubernetes workers through the EKS wizard. • Puppetized the Linux configurations, Services like (NginxPlus, Keepalived, Chrony, Cassandra,), Audits, Yum Updates, Patches, Application and Middleware Servers (WSO2 ESB, Identity, Gateway), Users, Cron Jobs, NFS and Share Mounts.
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**Environment:** AWS, RHEL (6,7), Ansible, Jenkins, Bitbucket, SonarQube, NginxPlus (r16), WSO2

ESB (4.9.0), New Relic, Splunk, Yaml, Json, Jmeter, Shell Script.

***Client: NGR Enterprises, New Delhi, India, India Aug 2012 - Sep 2013***

***Role: Linux Administrator***

***Responsibilities:***

* Developed, Supported, and Monitored the application in case of any Production issues and worked on-call support.
* General Linux administration, operating system, upgrades, security patching, troubleshooting and ensuring maximum performance and availability.
* Perform daily maintenance tasks on Linux severs, monitoring system access, managing disk space and tuning the system for optimum performance.
* Responsible for writing and modifying scripts for day-to-day administration.
* Installed and configured and administration of RedHat Linux servers and support.
* Responsible for setting up Cron Jobs scripts on production server.
* Monitored system activities like CPU, Memory, Disk and Swap space usage to avoid any performance issues.
* Setup Linux workstations with hardware and software RAID and implement LVM. Configure and maintain clustered RAID subsystems.
* Wrote technical documentation for various projects.
* Performed OS upgrades and patching when required.
* Wrote bash shell scripts to automate various Linux servers.

**Environment**: Red hat Linux, Shell, Bash, VMWare, Networking, Dynatrace.