

Keerthana Reddy

DevOps Engineer

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SUMMARY

- 5 years of experience in the IT industry as DevOps Engineer in automating, building, deploying, and releasing code from one environment to another environment.
- Experience in working on source controller tools like GIT, Subversion (SVN) and Bitbucket.
- Good knowledge in maintaining public Git Repositories such as GitHub and GitLab.
- Extensively worked on Jenkins for continuous integration and for end-to-end automation for all build and deployments.
- Expertise in DevOps tools like Ansible for configuring and managing computers, combining multi-node software deployment, ad-hoc task execution, and configuration management.
- Develop and maintain DevOps processes, scripts, plug-ins, templates, reusable components, and supporting documentation.
- Developed and managed Jira workflows, screen schemes, permission schemes and notification schemes.
- Exposed to all aspects of software development lifecycle (SDLC) such as Analysis, Planning, and Developing, Testing, and Implementing Post-production analysis of the projects.
- Experience in working on several Docker components like Docker Engine, Hub, Machine, creating Docker images, Compose, Docker Registry and handling multiple images primarily for middleware installations and domain configurations.
- Experience in Implementing Continuous Delivery pipeline with Docker, Maven, Ant, Jenkins.
- Proficient with cloud services like Amazon Web Services (AWS).
- Experience in using AWS including EC2, Auto-Scaling in launching EC2 instances, Elastic Load Balancer, Lambda.
- Experience in development and execution of Shell Scripting.
- Having good implementation experience with installation and configuration of Kubernetes, clustering them and managing local deployments in Kubernetes.
- Provided a consistent environment using Kubernetes for deployment scaling and load balancing to the application from development through production, easing the code development and deployment pipeline by implementing Docker containerization.
- Efficient in working closely with teams to ensure high quality and timely delivery of builds and releases.
- Having good Experience in Ansible for Deployment on Multiple platforms.
- Experience deploying the applications in Apache Tomcat.

Technical Stack:

Cloud Platforms AWS, Azure

Container Tools Docker, Kubernetes and OpenShift

Configuration Management Vagrant, Maven, Ansible, Docker, Splunk, Nagios,

Programming Languages / Scripts Python Scripts, Shell Scripting, Java, HTML, CSS

Databases MySQL, PostgreSQL, Dynamo DB, SQL Server

Build Tools Maven, Ant, Gradle, Ansible, Jenkins, GitLab

Version Control Tools Git, GitHub

WORK EXPERIENCE

November 2019-Current

DevOps Engineer

🏢 Manulife

📍 Canada

Responsibilities:

- Designed, configured and deployed Amazon Web Services (AWS) for a multitude of applications using the AWS stack (EC2, Route53, S3, RDS, Cloud Formation, Cloud Watch, SQS, IAM), focusing on high-availability, fault tolerance, and auto-scaling.
- Managed and configured a virtual datacenter in the Amazon Web Services cloud to support Enterprise Data Warehouse hosting including Virtual Private Cloud (VPC), internet gateways, Public and Private Subnets, Route Tables, Elastic Load Balancer (ELB).
- Responsible for creating AWS Identity and Access Management (IAM) groups and Users for improved login authentication and providing security Group in both Public and Private Subnets in VPC.
- Managed and maintained highly available EC2 Instances using Terraform and Cloud formation and wrote new plugins to support new functionality in Terraform.
- Worked on AWS Lambda functions in python for AWS Lambda which invokes python scripts to perform various transformations and analytics on large data sets in EMR clusters.
- Created file systems using red hat volume manager and performing the health check on a regular basis for all Linux servers.
- Worked on Kubernetes and Docker images to provide platform as service on private and public cloud in AWS cloud.
- Building/Maintaining Docker container clusters managed by Kubernetes, Linux, Bash, GIT, Docker, on GCP. Utilised Kubernetes and Docker for the runtime environment of the CI/CD system to build, test deploy.
- Utilised Terraform for configuration management of hosted Instances within AWS.
- Deployed the applications on multiple Web Logic Servers and maintained Load balancing, high availability and Failover functionalities.
- Maintained GIT repositories using stash & handling build and Release deployment using Docker Marathon.
- Experienced working on Docker Hub, created Docker images and handled multiple images primarily for middleware installations and domain configurations.
- Experienced deploying and maintaining multi-container applications through Docker.
- Used JIRA for change control & ticketing.
- Implemented CI/CD for all the Micro services of the application using Jenkins, Maven.
- Wrote Ansible Playbooks with Python SSH as the wrapper to manage the configuration of AWS nodes and test playbooks on AWS instances using Python. Ran Ansible scripts to provision Dev Servers.
- Created Post Commit and pre-push hooks using Python in SVN and GIT repositories.
- Worked on Ansible as Configuration management tool, to automate repetitive tasks, quickly deploys critical applications, and proactively manage.
- Managed Docker deployment engines in Virtualized Platforms for containerization of multiple applications.
- Created virtual images to the production environment using Docker by writing Docker compose files.
- Implemented rapid-provisioning and life-cycle management for Linux using Amazon EC2 custom bash and python scripts.
- Managed and maintained the monitoring and alerting of production and corporate servers/storage using Cloud Watch.

October 2018-October 2019

Software Engineer

 Novartis

 India

- As a member of the DevOps team, I was in-charge of working in the work-flow side infrastructure to implement changes, updates and new features, using tools like GitHub, Jenkins, packer, Ansible, Docker etc. I also analyse and implement new technologies to automate, reduce time and facilitate continuous integration for the websites of the company.
 - Experience with Linux systems, virtualization in a large-scale environment, experience with Linux Containers (LXC) and Docker.
 - Worked with stakeholders to configure, upgrade and administer business applications and systems of moderate to high complexity, under minimal management supervision.
 - Ability to develop scripts to address gaps in the application / system, to simplify and enhance the application and system environment.
 - Experience with Azure monitoring, alerting, and diagnostics, including Application Insights, Log Analytics, Network Monitoring and Service Health.
 - Ansible playbooks, python scripting as well as CI/CD pipeline automation.
 - Resolved update, merge and password authentication issues in GitHub and Jira.
 - Worked on creating the Docker containers and Docker consoles for managing the application life cycle.
 - Design environments (QA, UAT and PROD)
 - Development of web interfaces for server administration, using bash, expect, PHP, C.
 - Supporting Ansible module for desired state of system over SSH by default and creating ansible playbooks for infrastructure setup and deployment of applications into VMware.
 - Significant experience developing automation scripting using Chef, Puppet, Ansible, Jenkins, Bash, or on Linux.
- Environment: Jenkins, GitHub, Ansible, Jira, HTML, Tomcat, MySQL, Docker, Linux

May 2017-August 2018

INTERNSHIP

 Sunairiya Technologies

 India

Responsibilities:

- Supporting both Manual and Automated Build and Deployment Processes.
- Worked on Incident and Change tickets for Production and other lower environments and resolving in a timely manner.
- Good Experience in working on a variety of projects.
- Implemented and managed multi-server deployments in virtual environments.
- Nice Collaboration with development teams to deploy new code to production environments
- Performed Application Deployments to different environments such as UAT, SIT, MAINT, CTE and Production.
- Performed the Environment Setup using Docker Provisioner.
- Scheduled the containers using Docker Swarm.
- Implemented a continuous Delivery pipeline with Docker, Jenkins and AWS.
- Designed, Created and Managed Continuous Build and Continuous Integration environments in SCRUM and Agile projects, combining and automating tools like Selenium, XUnit and Web Driver with build processes to provide detailed Metrics and rapid feedback for development teams.
- Strong experience in technologies such as ANT/Maven scripting, UNIX Shell scripting, WebLogic and Tomcat.
- Copiously used Jenkins everyday as a part of day-to-day deployments.

- Experienced in working with Selenium IDE and Selenium Web Driver using testing.
- Worked on Continuous Integration principles and practices for the Financial Projects using Jenkins.
- Investigated the Jenkins logs and Troubleshooted to fix the issues for failed Builds.
- Extensively worked on UNIX Editor Commands to edit the logs.
- Documented and reported the status of Deployment to Project Team and Management.
- Performed Peer Review for Production Deployments done by other deployers.
- Maintained build scripts for the application builds, Compiled and generated the packages and push it to UNIX, Windows, and Linux platforms.
- Supported Windows applications deployments for configuring into new servers.

EDUCATION

-2018

B. Tech

🎓 Vaagdevi College of Engineering

📍 Canada

Computer Science Engineering IB. Tech | Vaagdevi College of Engineering| May 2018

- Engineering

-2014

🎓 SR Edu Centre

📍 Warangal, India

Science, Maths, Physics, Chemistry |10+2(Intermediate) |SR Edu Centre| Apr 2014

- Maths, Physics, Chemistry

SKILLS

Continuous Integration/Delivery Ansible CI/CD Continuous Integration Git Gradle Jenkins

Middleware PHP Python Scripting Shell Scripting Bash Structured Software

Software Development Subversion SVN Amazon Elastic Compute Cloud Amazon EC2 EC2

Amazon Web Services AWS Docker Kubernetes Load Balancing ELB Load Balancer Openshift

Serverless Architecture AWS Lambda Terraform ANT Change Management Configuration Management

Deployment Maven AWS ROUTE53 ROUTE53 CSS HTML Nginx Tomcat WEB Logic

WEB Services Weblogic Apache Linux RED HAT UNIX Unix Shell Agile Application Life Cycle

Change Control JIRA Scrum Version Control CHEF Cisco Clustering DEV OPS Devops

GitHub GitLab Nagios Networking Puppet Server Administration Virtualization VLAN

File Systems Veritas Volume Manager Volume Manager Selenium Selenium Ide Selenium Web Driver

UAT Authentication Large-Scale Provisioning Data Warehouse EMR MS SQL Server SQL Server
Mysql Postgresql SQL Network Monitoring Vmware Splunk Life Cycle SDLC Dynamo
JAVA Containerization Engines Chemistry Production Environment Packer GCP Pipeline
Provisioner QA Metrics Chef (All) Documentation MAC MacOS LAN

LANGUAGES

English - Intermediate