

Mamatha Ivaturi

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Summary:

- Overall 8+ years of experience as a **Build/Release** Management and Deployment/Operations (DevOps) engineer with a strong background in **Linux Administration**
- Experienced in all phases of the software development lifecycle (**SDLC**) with specific focus on the build and release of quality software. Experienced in Waterfall, Agile/Scrum, Lean and most recently Continuous Integration (**CI**) and Continuous Deployment (**CD**) practices.
- Well-Versed with Azure and DevOps environments with exposure to including end-to-end code configuration, building binaries & deployments of artifacts for entire life cycle model in Enterprise Applications like .net apps.
- Successfully led the **migration** of the company's software development workflows from **Azure DevOps to GitHub Actions**.
- Experience in Implementing CI/CD pipeline with **Jenkins, Azure DevOps** and GitHub Actions
- Experience with **Terraform** to build infrastructure as a code.
- Experience on deploying **PAAS services** like AppService, Function App, Storage account, Application Insights, AppService plan, Key vault.
- Working on AKS setup and services like Kubernetes service, Container registry, VNET, VM, Network security Group, Network interface, Route table, App Gateway
- Automated builds and deployments with Azure Pipelines of Azure DevOps and Pushed build artifacts to Azure artifacts and maintained NuGet packages.
- Extensively worked on **Jenkins** by installing, configuring, and maintaining for the purpose of continuous integration (CI) and for End-to-End automation for all build and deployments. and created a master and slave configuration to implement multiple parallel builds through a build farm and writing Jenkins File in groovy for scripting and declarative pipeline.
- Experience working on several **Docker** components like Docker Engine, Hub, Machine, Compose and Docker Registry. Implemented docker in Development and Testing environment using docker-compose and well versed in creating customized docker images using docker file.
- Experience in setting up a **Kubernetes** cluster. Writing manifest files for deployments, Service, secrets, Ingress. Upgrading Kubernetes versions. Maintained Kubernetes architecture and worked on **Helm charts**.
- Worked on **Nexus** registry for storing docker images and artifacts.
- Created dashboards and worked on **Datadog** monitoring tool.
- Experience in writing **Powershell** and **Saltstack** scripts for automation.

SKILL SET:

Operating system	Linux (RHEL (Red Hat 4/5/6/7), CENTO), Ubuntu 12/13/14, Windows NT /2000/2003, DEBIAN.
Application Servers	Apache Tomcat 6.x/7.x, Red Hat JBoss 4.22.
Orchestration Tool	Kubernetes
Automation Tools	Jenkins, Ansible, Terraform, Azure DevOps
Version control tools	GIT, GitHub, Bitbucket
Web servers	Tomcat, APACHE 2.x, 3.x, and Nginx
Scripting	Python, Bash shell, Power shell scripting, Salt stack
Monitoring Tools	Nagios, CloudWatch, Splunk, Prometheus, Grafana, Datadog
Virtualization Technologies	Windows Hyper-V
Cloud Environments	AWS, Azure
Databases	RDBMS, MySQL, DB2, PostgreSQL
Bug Tracking Tools	Bitbucket, JIRA, Azure work items

EDUCATIONAL DETAILS:

- BSc Computer Science from Andhra University, AP. Jun 2000 – Apr 2003

PROFESSIONAL EXPERIENCE:

Client- Deloitte

Sep 2019 to Present

Role- Sr. DevOps engineer

Responsibilities:

- Designed and implemented CI/CD pipelines using GitHub Actions to automate the build, test, and deployment processes.
- Developed and maintained infrastructure as code using tools such as Terraform and Ansible.
- Collaborated with development teams to ensure that workflows and pipelines met the needs of the organization.
- Azure DevOps implementation with CI/CD using Git as central repository for python and .net applications.
- Handwritten the GitHub workflow pipeline in yaml
- Creating PAT for ADO and GitHub with the required permissions for developers
- Migrated Azure DevOps repos to GitHub repos including commit history and PRs using GitHub cli
- Worked on different GitHub cli commands like actions importer, ado2gh.
- Migrated azure-pipeline.yaml to pipeline.yaml in GitHub actions workflow
- Designed GitHub workflows with workflow calls, inputs and different deployment stages.
- Created Build and release definitions for Continuous Integration and Continuous Deployment in Azure DevOps.
- Worked on Azure active directory: - creating user in the domain and assigning role to the user.
- Used Jira for ticket tracking purpose.

Responsibilities:

Client- Virtusa

Feb 2017 to Sep2019

Role- DevOps Engineer

Location-

Responsibilities:

- Created and maintained continuous integration (CI) using tools **Jenkins/AzureDevOps** over different environments to facilitate an **agile** development process which is automated and repeatable, enabling teams to safely deploy code many times a day.
- Extensive experience in installation, configuration, tuning, security, backup, recovery and upgrades of Linux (RedHat, CentOS, Ubuntu).
- Deployed EC2 instances in VPC, configured security groups &NACL's, attached profiles and roles using **AWS Cloud Formation templates and Ansible**.
- **Performed SVN to GIT/Bit Bucket migration and managed branching strategies using GIT flow workflow.**
- Managed all the bugs and changes into a production environment using the **Jira** tracking tool/Service Now.
- Involved in setting up JIRA as defect tracking system and configured various workflows, customizations, and plugins for the **JIRA bug/issue tracker**.
- Worked with different scripting languages such as **PowerShell**, Python, shell.
- Worked at optimizing volumes and **EC2** instances and created multiple **VPC** instances.
- Created S3 buckets and managed policies for them and utilized **S3** buckets for backup on AWS.
- Provided security and managed user access and quota using AWS Identity and Access Management (**IAM**).
- Developed Web **API** using Node.JS and hosted on multiple load balanced **API instances**.
- Worked with team to deploy scalable cluster in AWS with **docker**.
- Building a **CI/CD** testing workflow that builds an application, deploys it to a test environment, runs tests, and automatically promotes the application based on test results.
- Implemented and designed **AWS** virtual servers by **Ansible** roles to ensure deployment of web applications.
- Wrote **Ansible playbooks** to launch AWS instances and used Ansible to manage web applications, configuration files, used mount points and packages and worked on playbooks for **Ansible** in YAML scripting.
- Collaborated with development support teams to setup a continuous delivery environment with the use of build platform tool **Docker**.
- Managed local on prem deployments in Kubernetes Cluster.

Client-TCS

Location-Hyderabad, India

July 2015 to Nov 2016

Role- Build Release Engineer/Linux Administrator

Responsibilities:

- Well-Versed with Azure and DevOps environments with exposure to including end-to-end code configuration, building binaries & deployments of artifacts for entire life cycle model in Enterprise Applications, general Systems Administration and Change Management, Jenkins, GIT, Ansible
- Migrating azure devops pipelines to github actions using gh-gei. Migrating azure repos to github repos.
- Working on Migration projects from on-prem to cloud in IAAS and PAAS level
- Creating alerts and metric dashboard for github logs in Datadog.
- Experience on deploying PAAS services like AppService, Function App, Storage account, Application Insights, AppService plan, Key vault using ARM templates.
- Working on AKS setup and services like Kubernetes service, Container registry, VNET, VM, Network security Group, Network interface, Route table, App Gateway
- Automated builds and deployments with Azure Pipelines of Azure DevOps and Pushed build artifacts to Azure artifacts and maintained NuGet packages.
- Extensively worked on Jenkins by installing, configuring, and maintaining for the purpose of continuous integration (CI) and for End-to-End automation for all build and deployments. and created a master and slave configuration to implement multiple parallel builds through a build farm and writing Jenkins File

- Experience working on several Docker components like Docker Engine, Hub, Machine, Compose and Docker Registry. Implemented docker in Development and Testing environment using docker-compose and well versed in creating customized docker images using docker file
- Experience working on Kubernetes cluster. Writing manifest files for deployments, Service, secrets, Ingress
- Worked on Nexus registry for storing docker images and helm charts.
- Performed remote configuration of servers using Ansible and created ansible roles and playbooks for server management
- Working on kbuild and kdiff and kubectl apply deployments in to cluster