

Pavan Kumar Reddy Vempalli

DevOps Engineer

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SUMMARY

- Possess 4.2 years of experience as a DevOps Engineer, specializing in Configuration, Integration, and Build processes.
- Worked with Terraform in Azure Cloud for environment provisioning.
- Created Terraform scripts for storage account creation with a private endpoint.
- Wrote Terraform scripts for Azure Databricks cluster creation, notebook creation, user creation, and group creation.
- Good knowledge of Terraform modules.
- Good knowledge of Azure Databricks cluster creation and maintaining user roles in Databricks.
- Experience in Azure Databricks cluster creation and notebook creation.
- Working experience with KeyVault.
- Good knowledge of encrypting data using Azure KeyVault and decrypting data in Azure Databricks using Scala and Python notebooks.
- Good experience in setting up environments in Azure from scratch.
- Worked on Application Gateway setup.
- Good knowledge of Azure Virtual Machine creation.
- Working experience with Azure Function App.
- Worked on setting up Azure production environments with production subscriptions.
- Working knowledge of mounting data from storage accounts to Databricks workspaces.
- Worked with Azure Active Directory.
- Implemented ELK Stack and Datadog APM for centralized logging and real-time monitoring, enabling proactive issue detection and faster troubleshooting.
- Configured Prometheus for metrics collection and built Grafana dashboards to visualize system health, optimizing performance monitoring.
- Developed AWS Lambda functions with API Gateway for serverless automation and configured VPC, security groups, and subnets to enhance cloud network security.
- Streamlined Kubernetes deployments using Helm charts, automating version-controlled rollouts and simplifying microservices management.
- Working experience in writing Ansible playbooks for creating AWS services like VPC, EC2.
- Worked on creating Kubernetes clusters for staging, QA, and UAT environments.
- Deployed images in pods using Ansible playbooks.
- Good knowledge of writing Terraform scripts for AWS environment provisioning.
- Created Terraform scripts for AWS services: EC2, S3, VPC, ECS, ECR, EKS, RDS, and CloudWatch.
- Wrote Ansible playbooks for creating Kubernetes clusters for all environments.
- Automated deployment processes from Jenkins to Kubernetes clusters.
- Developed and maintained an advanced platform to manage Kubernetes clusters' lifecycle.
- Configured Azure Virtual Network (VNet), Load Balancers, and VPN Gateways to enhance cloud security and optimize network traffic management.
- Designed and implemented CI/CD workflows using AWS CodePipeline and CodeBuild, automating deployment processes for cloud-native applications.
- Developed and deployed event-driven workloads using Azure Functions, integrating with Event Grid and Service Bus for serverless automation.
- Maintained documentation regarding configurations, operations, and troubleshooting procedures.
- Cloud and OS distribution portability: Runs on Ubuntu, RHEL, CoreOS, on-prem, Google Kubernetes Engine, and other platforms.
- Configured Docker containers and created Dockerfiles for different environments.
- Good knowledge in creating Docker images and configuring the images in Jenkins.
- Good experience in automating Jenkins with AWS Elastic Container Service (ECS).
- Worked on JIRA automation in Jenkins build and deployment processes.
- Experience migrating from ClearQuest (CQ) to JIRA.
- Possessing hands-on practical exposure to Continuous Integration tools like Jenkins and integrated build processes through Jenkins using CI/CD pipelines, creating users, and assigning permissions, with experience in ServiceNow for defect logging and issue tracking.
- Experienced in creating master-slave/node machine configurations and distributing the workloads.

- Exposure to documentation of automating the build and release processes.
 - Experienced in Docker installation, image setup, building custom images from a Dockerfile, and hands-on experience with Docker Swarm, Docker Compose, and Docker networking concepts.
 - Hands-on experience in performing backup activities for build artifacts through Nexus.
 - Familiar with visualizing and assisting activities like code quality validation through SonarQube.
 - Expertise in Configuration Management tools like Ansible used in deployment activities to avoid manual efforts.
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PROFESSIONAL EXPERIENCE

Senior System Engineer | Infosys Limited | DevOps Engineer

April 14th, 2022, to Present

Project #1: Ditech Bank DevOps Engineer

Environment: Bitbucket, Jenkins, Ant, Git, Maven, Apache Tomcat, SonarQube.

- Wrote ARM templates for Azure services such as Storage Accounts, Azure Databricks, Key Vault, and Application Gateway.
- Worked in Azure Databricks for creating Databricks workspaces.
- Experience in Azure Databricks cluster creation and notebook creation.
- Wrote Azure pipeline scripts for deploying Kubernetes services.
- Deployed the JupyterHub application using Azure VMs and installed JupyterHub in the Kubernetes service.
- Implemented Azure diagnostic settings for Azure Storage Accounts and Azure Databricks.
- Wrote ARM templates for Log Analytics workspace creation.
- Enabled diagnostic settings using ARM templates for Azure services like Azure Storage Accounts and Azure Databricks.
- Good knowledge of mounting storage accounts to Azure Databricks clusters.
- Good understanding of PV and PVC in Kubernetes.
- Worked with secrets, namespaces, and config maps in Kubernetes.
- Hands-on experience in writing playbooks for AWS requirements, such as EC2 instance and VPC creation.
- Experience with Key Vault.
- Good knowledge of encrypting data using Azure Key Vault and decrypting data in Azure Databricks using Scala and Python notebooks.
- Good experience in setting up environments in Azure from scratch.
- Created Terraform scripts for AWS services: EC2, S3, VPC, ECS, ECR, EKS, RDS, and CloudWatch.
- Worked with Terraform in Azure Cloud for environment provisioning.
- Good knowledge of implementing CI/CD.
- Experience in developing and maintaining CI/CD processes for SaaS applications using tools like Maven, Jenkins, etc.
- Performed deployments across different environments like Dev, QA, Staging, and Production in the AWS cloud platform using Ansible.
- Performed automated deployments of build artifacts on Tomcat servers using Ansible.
- Implemented application deployments in Docker for Dev environments.
- Troubleshoot build issues and coordinated with development teams to resolve those issues.
- Tracked issues using the ServiceNow tool and solved them on a priority basis.

Build and Release Engineer | CAPGEMINI | DevOps Engineer

February 2021, to March 2022

Project #2: Specs Avers

Environment: Git, Jenkins, Maven, Chef, Apache Tomcat, Jira

Responsibilities:

- Hands-on experience in installing and administering CI tools like Jenkins, Git, and Nexus.
- Managed Continuous Integration and Continuous Delivery (CI/CD) using Jenkins.
- Installed Jenkins on a Linux machine and created a master-slave configuration to implement multiple parallel builds through a build farm.
- Wrote Azure DevOps pipeline scripts for Dev, QA, and Production environments.
- Worked in ASK setup for monitoring the Tableau and Databricks applications.

- Experience with Filebeat and Metricbeat.
- Worked on setting up Azure production environments with production subscriptions.
- Configured day and night builds for the sprint teams in Jenkins.
- Involved in architecting, building, and maintaining a highly available structure utilizing Jenkins for continuous integration.
- Worked closely with the development team to manage the CI environment using Jenkins and Code Commit.
- Proficient in automating the build and release cycle using Jenkins.
- Analyzed and resolved conflicts related to merging source code in Git.
- Created Docker images and containers and pushed them to Docker Hub Registry.
- Created Docker images using Dockerfiles to support containerization of applications.
- Deployed Docker instances to Test, Dev, and Staging servers using Jenkins.
- Implemented Continuous Integration and deployed applications into the Tomcat application server using Jenkins.
- Experience working with several Docker components like Docker Engine and handling multiple images, primarily for middleware installations and domain configurations.
- Experience with Minikube to manage local deployments in Kubernetes, creating local clusters, and deploying application containers.
- Launched Amazon EC2 cloud instances using Amazon Images (Linux/Ubuntu) and configured launched instances for specific applications.
- Participated in weekly release meetings with technology stakeholders to identify and mitigate potential risks associated with releases.
- Supported different environments like Production, Dev, and Staging.

TECHNICAL SKILLS

- **SCM Tools:** Subversion (SVN), GIT, Bitbucket, GitHub, GitLab
- **Operating Systems:** Linux, Windows XP, Windows 10, Windows 11
- **Build Tools:** ANT, Maven, Gradle
- **Continuous Integration Tools:** Jenkins, AWS CodePipeline, GitHub Actions, Azure DevOps Pipelines
- **Configuration Management Tools:** Chef, Rundeck, Ansible, Terraform
- **Infrastructure as Code (IaC):** Terraform, ARM Templates, CloudFormation
- **Scripting Languages:** Shell Scripting, Python, Bash
- **Application Servers:** Apache Tomcat, Nginx
- **Project Tracking Tools:** ServiceNow, Jira
- **Cloud Platforms:** AWS, Azure, GCP
- **Containerization & Orchestration:** Docker, Kubernetes (AKS, EKS), Helm
- **Monitoring & Logging:** ELK Stack, Datadog, Prometheus, Grafana
- **Networking & Security:** VPC, Subnets, Security Groups, Load Balancers, VPN, API Gateway
- **Other Exposures:** Nexus Repository, Vagrant, SonarQube

EDUCATION

Sri Venkateswara college of Engineering, JNTUA University
Electrical Electronic Engineering

July 2016 – Aug 2020

CERTIFICATIONS

- Azure fundamental Certification.
- AWS and Linux Certification.
- DBMS Certification.