Vivek J S

DevOps and Cloud Engineer

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Career Objective

Results-driven DevOps Engineer with good hands-on experience in infrastructure automation, CI/CD pipelines, and maintaining high availability through zero-downtime deployments. Eager to contribute to a forward-thinking organization by leveraging deep expertise in cloud technologies, automation tools, and scalable architecture to drive continuous improvement and operational excellence.

Professional Experience

Piltismart Solutions, *Madurai* – DevOps and Cloud Engineer *OCT 2023 – PRESENT*

Project: Smarty APP – Pilti's Base Product

- **Azure Repo & Pipelines for CI:** Managed source control management (SCM) and branching strategies using Azure Repo, efficiently resolving merge conflicts. Implemented continuous integration (CI) pipelines that automated stages such as cloning source code, running unit tests, performing static application security testing (SAST) with SonarQube, building with Dockerfile, and pushing images to Azure Container Registry (ACR), ensuring smooth collaboration and code integration.
- **Azure Managed Identities:** Applied security best practices by integrating Azure Managed Identities to enhance the security of Azure services, reducing unauthorized access risks.
- **Argo CD for Continuous Delivery**: Installed, configured, and managed Argo CD, streamlining software release processes by 40% through continuous delivery.
- **Centralized Logging & Observability (ELK Stack):** Set up effective centralized logging and observability solutions using the ELK Stack (Elasticsearch, Logstash, Kibana) to enhance incident response and reduce mean time to recover (MTTR) for critical production issues. Configured alerts to notify teams via Slack and email.
- **Serverless Architecture with Azure Functions:** Developed serverless architecture using Python and Azure Functions, optimizing costs by reducing Azure Blob storage size through automated triggers, resulting in 15% cost savings.
- **Kubernetes on Azure (AKS):** Managed Kubernetes clusters on Azure (AKS), implementing external secrets through Azure KeyVault integration via Container Storage Interface (CSI) to enhance security operations (SecOps).

Piltismart Solutions, *Madurai* – DevOps and Cloud Engineer *MAR 2022 – SEP 2023*

Project: Thingsboard for IoT

- **GitHub Branching & Merge Conflicts**: Managed GitHub branching strategies and resolved merge conflicts efficiently, reducing release management complexity by 25%.
- **Jenkins & CI Configuration:** Gained valuable experience in writing declarative pipelines in Jenkins, storing them in VCS, and configuring CI tools like JDK and Maven. Successfully implemented secure plugin installations and CI configurations. Set up AWS Auto Scaling (ASG) and Application Load Balancing (L7) for high availability, achieving 99.9% uptime.
- **Containerization & Docker:** Containerized various applications in Java, Python (backend), Flutter, and React JS (frontend) using optimized multi-stage distroless Dockerfiles. Pushed images to AWS ECR, resulting in 30% faster deployments.
- **Kubernetes (K8s) Management**: Provisioned Kubernetes clusters using KOPS on AWS Platform, enabling self-managed clusters across environments for Thingsboard pods. This approach offered greater control and 20% cost savings compared to EKS.
- **Configuration Management with Ansible:** Managed configuration and patch management for Ubuntu 22.04 LTS and Amazon Linux 2 servers using Ansible Playbooks and YAML scripts.

- **Argo CD for Continuous Delivery:** Installed, configured, and managed Argo CD for continuous delivery, streamlining software releases by 40%.
- **Bash Scripting & Cron Jobs:** Developed Bash scripts for automating tasks such as compressing, deleting files/directories, and moving them to S3 buckets, enhancing system performance.
- **Infrastructure as Code (IaC) with Terraform:** Created entire AWS VPC infrastructure using Terraform (HCL). Managed and secured the state file by storing it in S3, reducing manual configuration errors by 35%.
- **Cost Optimization with MinIO on OCI:** Provisioned an own object storage server using MinIO on Oracle Cloud Infrastructure (OCI) as a cost-effective alternative to AWS Storage, resulting in 25% cost savings.
- **Cloudflare & Zero-Trust Security:** Implemented DevSecOps best practices using Cloudflare (CDN) to enable a Zero-trust security model. This approach effectively protected resources from various threats and mitigated DDoS attacks, reducing security incidents by 30%.

Skill Sets

Operating Systems	Ubuntu, Amazon Linux 2, Windows
Cloud Platform	Amazon Web Services (AWS), Microsoft Azure
Build Tool	Maven
Version Control System	Git and Github
CI Tools	Jenkins
Infrastructure Provisioning Tools	Terraform
Container Tools	Docker
Scripting Language	Shell and Python
Container Orchestration Tool	Kubernetes
Bug/Project Tracking Tools	Atlassian Jira, Confluence and Slack
Centralized Logging and Monitoring Tools	ELK Stack, Prometheus and Grafana
Static Code Quality Tools	SonarQube
Databases	AWS RDS, DynamoDB and Elasticsearch
Web & App Servers	Apache2, Tomcat
Configuration and Management	Ansible
Artifact Management Tools	Sonatype Nexus
Penetration Testing	OWASP ZAP

Academic Qualification

- **MCA** in OCT 2022 – JUL 2024 from K.L.N College of Engineering – (PG) Achived **8.326 CGPA**
- **B.Sc** Chemistry JUN 2019 – JUL 2022 from Thiagarajar College of Arts and Science – (UG) Achived **8.97 CGPA**

Certifications

- DevOps Certification - IBM Coursera
- Cloud Computing Certification - IBM Coursera
- DevOps on AWS: Code, Build, and Test
- DevOps on AWS: Release and Deploy
- DevOps on AWS: Operate and Monitor
- Microsoft Azure - Secure your Cloud Data
- Microsoft Azure - Deploy containers by using Azure Kubernetes Service
- Microsoft Azure - Microsoft Defender Cloud Compliance - Secure Azure Services
- Cisco - DevOps for Network Automation (NetDevOps)
- Intel® Solutions Pro – Cloud DevOps
- Google Cloud - Setting up a Private Kubernetes Cluster
- Google Cloud - GKE Workload Optimization
- Google Cloud - Managing Deployments Using Kubernetes Engine
- Google Cloud - Getting Started with Cloud KMS