Madhan Sekar

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About

OpenShift Platform Engineer with deep expertise in deploying and managing OpenShift environments across on-premises and Azure Red Hat OpenShift (ARO). Skilled in optimizing clusters, leading production activities, and managing Docker/Podman applications. Experienced in automating DevOps processes to streamline project onboarding and enhance operational efficiency.

Certified Kubernetes Administrator (CKA) with comprehensive expertise in end-to-end OpenShift administration, committed to driving innovation and excellence in cloud-native solutions.

Education

Bangalore North University, Bachelor of Science   May 2018 – Aug 2022

Coursework:

- Certified Kubernetes Administrator (**CKA**) [Link]
- Certified Python Entry-Level Programmer: PCEP-30-02[Link]
- **ITIL Foundation** Certificate in IT Service Management-PeopleCert [Link]
- Azure 104 training.

Experience

Openshift Platform Engineer, VOYA FINANCIAL (Present)   Sept 2022

- Contributed significantly to the development and deployment of OpenShift platforms across both on-premises and Azure Red Hat OpenShift (ARO) environments.
- Collaborated with cross-functional teams to design and implement OpenShift architecture, ensuring robust and scalable environments tailored to organizational needs.
- Worked on configuring and optimizing OpenShift clusters to support various workloads and applications, enhancing operational efficiency and reliabilitys.
- Led **cluster spin-up activities** for both Production (Prod) and Production Disaster Recovery (ProdDR) regions,
- Performed daily tasks such as namespace creation, RBAC management, cluster and operator upgrades, certificate rotation, and troubleshooting to maintain optimal platform performance and security.

Docker/Podman Platform

- Managed 100+ JBoss Docker applications in an on-premises environment, ensuring their availability and performance.
- Performed monthly Docker patching activities, updating to the latest versions of Red Hat's base image to enhance security and stability within the Docker environment.
- Migrated all Docker applications to Podman due to the deprecation of Docker support in RHEL 9.

DevOps Engineering

- Collaborated with the development team to resolve Jenkins build issues, ensuring smooth integration and deployment.
- Automated the onboarding process for new projects by developing a Python script that automates tasks such as project creation, permission management, and ALM bindings, streamlining the setup for continuous integration and code quality analysis.

Projects

FILE SEPERATOR [LINK]

- Developed a Python script for automating the organization of files within a directory based on their file types.
- Tools Used: Python | os module | pathlib module

PORTFOLIO WEBSITE DEVELOPMENT AND DEPLOYMENT USING AZURE

- Designed and Implemented the portfolio website using HTML, CSS, Javascript
- **Containerized** the webpage using Docker, enabling easy deployment and management across various environments.
- **Orchestrated** containerized applications with Kubernetes, ensuring efficient scaling and fault tolerance.
- Configured **CI/CD pipelines** with Jenkins, automating the build, test, and deployment stages
- Tools Used: Docker | Kubernetes | Jenkins | Azure

Awards

Awarded Emerging Talent of the Year at Voya India's Annual Day Celebration

Appreciation certificate for Outstanding Performance and Service

Technologies

Languages: Python, JavaScript, Groovy

DevOps Tools: Git/GitHub, Linux , Jenkins, Docker, Kubernetes, Openshift, Jfrog, Dynatrace, XL-Deploy, GitOps, ArgoCD.
Cloud Platform: Azure, AWS