**Kundan**

**Senior DevOps Engineer**

Over 13+ years of experience working in IT field in roles like **System Administrator, Middleware Administrator, DevOps Engineer,** **Kubernetes/ Open shift Administrator,** automating the provisioning of infrastructure using different cloud providers like **Azure, IBM Cloud, PCF, AWS, Open Shift** utilizing tools like **Terraform, Ansible** allowing cost effective, scalable, secure, and high available solution.

**Professional Summary:**

* More than 5 years hands-on experience in **PCF/OpenShift** in public and private environments.
* Extensive experience administering **Kubernetes/Open shift** environments.
* Efficiency using **Docker** as well as very capable of writing **Docker files**.
* Configure CI/CD pipelines with different tools like, **Trident-Harness,** **Azure DevOps, IBM UCD, and Jenkins**.
* Providing, configuring and maintaining infrastructure in different cloud vendors (**Azure/ IBM Cloud**).
* Infrastructure as a code using **Terraform**.
* Configuration Management with tools like **Chef** and **Ansible**.
* Proficient in **Python** programing/scripting.
* Well versed with **UNIX, Red Hat, Ubuntu, Mac OS** and **Windows**.
* Experience with maintaining **24/7** production environments working with teams all over the world.
* Knowledge in configuring and troubleshooting **Nginx** servers.
* Experience in monitoring and alerting tools like, **Grafana, Instana, Splunk**, **Appdynamics**
* Excellent **communication skills** with the ability to interface at all levels. A team player who also can work well independently.

**Skills:**

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| --- | --- |
| **Cloud** | Microsoft Azure, IBM Cloud. |
| **Microsoft Azure** | Azure Red Hat Open shift, Azure Kubernetes Services, Storage Accounts, Network Security Groups, VNETs, Application Gateways, Azure Load Balancers, App Services, Virtual Machine Scale Sets, Key Vault, Azure Database for PostgreSQL, etc. |
| **IBM Cloud** | VPC, Access Control List, Security Groups, IBM Kubernetes Service, IBM Open shift, Cloud Object Storage, IAM, Access Groups & Access Policies, VPC Load Balancer, etc. |
| **Containerization** | Kubernetes, Open shift, Docker. |
| **Monitoring & alerting** | Grafana, Instana, Splunk, AppDynamics |
| **Scripting** | Python, shell. |
| **Iac & CM** | Terraform, Ansible, Chef |
| **CI/CD & VCS** | Trident-Harness, Azure DevOps, Github, GitLab, Jenkins, Travis, IBM UCD. |
| **Databases** | MySQL, PostgreSQL |
| **Middleware** | Web Sphere Application Server, JBoss |
| **Other** | Akamai, Apache HTTP, Nginx, Web Sphere MQ, YAML, Json, JIRA, Service Now, RabbitMQ, Kafka |

**Education:**

2008 B.Tech in Information Technology, Cochin University of Science and Technology II

**Experience:**

Sr. DevOps Engineer

**Discover Financial- Capgemini,** Chicago, IL June 2019 – Current

* Writing module to deploying infrastructure with **Terraform** on **Microsoft Azure.**
* Implementation of a new **CI/CD** pipeline using GitOps methodology with **ArgoCD**, **Secret Store CSI Driver**, **Customize** to deploy to Azure Kubernetes Clusters.
* Configuration of **AKS policies** to secure the environment.
* Integration of **Azure DevOps** with GitHub Enterprise.
* Deploying customized features for Rabbit Operator in OpenShift
* **GitHub** Enterprise Management:
  + Branching strategies.
  + Branch protection rules (Enforce 1 or more reviewers, Code Coverage, Docker image scanning among others)
  + User Management.
* Configuration of **AKS policies** to secure the environment.
* Installation and setup of **Valero** for backup & restore of Kubernetes objects as well as pv’s.
* Configuration of **HashiCorp Vault** policies for secret management.
* Enable and configuration of **Monitoring Insights** for alerting at AKS level.
* Configuration of **Azure Defender** for Containers to scan ACR images.
* Cost management strategy for Kubernetes Resources using KubeCost.
* Agile methodology

**Environment:** Azure Kubernetes Service, Traffic Manager, Terraform, Python, Load balancers, Application gateway Ingress Controller, Github, Monitoring Insights, Azure Defender, HashiCorp Vault, ArgoCD, Customize, Secrete Store CSI Driver, Github**.**

Sr. DevOps Engineer

**Discover Financial- Capgemini Canada,** Chicago, IL Oct 2017 – May 2019

* Deploying infrastructure with **Terraform**, **Ansible** and **Azure DevOps** tools to target clouds **Microsoft Azure** (Azure Kubernetes Services, Azure Red Hat Open shift, Network security groups, Key Vaults, VNets, Application gateways, Load balancers, PostgreSQL, Storage Accounts, etc.) and **IBM Cloud** (IBM Kubernetes Service, IBM Open shift, Virtual Private Cloud, Access Control List, Key Protect, Load balancers, Cloud Object Store, PostgreSQL, etc.).
* Integration of **Azure DevOps** with **Github Enterprise**.
* Definition of **Github branching strategy**.
* Enablement of Dependabot for vulnerability scanning in **Github Enterprise**.
* Managing **Users and Teams** for Github Enterprise access.
* Application Load Balancer configuration (pools, health checks, listeners) as well as Application gateways.
* Setting vnets, subnets, VPC and other network concepts in both clouds **Microsoft** **Azure** and **IBM Cloud**.
* Deploying Virtual Machines Scale Sets into secure VNets and subnets using network security groups.
* PG Bouncer setup for PostgreSQL connection pooling.
* Linux Administration (LVM, user management, updates/upgrades, monitoring, etc.)
* **Kubernetes/Open shift** administration setting up security setting like image provenance, security context constraints, network policies, RBAC, Ingress SSL certificates among others.
* Writing and maintaining YAML files for **Kubernetes/Open shift** components like deployments, secrets, configmaps, HPA, Ingress, jobs, cronjobs, etc.
* Monitoring **Kubernetes/Open shift** cluster using **Grafana/Prometheus**.
* Writing **Docker files** to create custom images for micro services written in different languages.
* Setting up pipelines using **Azure DevOps** configuring self-hosted agents, azure pools and writing custom yaml files for deployments to cloud environment as well as **Kubernetes/Open shift** clusters.
* Working with team from around the globe following **agile** methodology using **Azure DevOps Dashboards**.
* Developed custom **python** scripts to automate **Open shift/Kubernetes** admin tasks to reduce toil work.
* Production application support experience troubleshooting critical problems.

**Environment**: Microsoft Azure, IBM Cloud, Kubernetes, Open shift, Github, Red Hat Linux, Windows, Application Gateways, Application Load Balancers, Docker, Terraform, Ansible, Python, Bash, VPC, Azure DevOps, Ingress Controller Nginx, Grafana, Instana, Splunk, AppDynamics.

Technical Lead and DevOps Engineer Jan 2014 – Sep 2017

**Metlife- Capgemini America,** Warwick, RI

* Worked with **Ansible** tool to configure and managing the deployment activity for the applications
* Worked for **continuous integration** of Charlie Java and .Net projects
* Worked on setting up Java and .net projects on **TFS** and **Ansible**
* Worked with Maven and Jenkins to setup automatic build process
* Load Balancing, NFS Server setup, web-server proxy, **Nginx configuration** and Automation using **Ansible** tool
* Created a workflow to setup deployment process for Java and .net applications with **Ansible** deployment tool
* Developed web application using MVC based Mars MetLife proprietary framework
* Supporting daily periodic build of ears and deployment to lower environment
* Work closely with stakeholders to successfully complete IT infrastructure projects
* Take the overall responsibility for the Jira configuration and be the go-to person for any Jira issues, create customized dashboards for teams
* Provide support for the application and infrastructure including troubleshooting, performance tuning
* Support deployment with quick code fix and turn around if issue found during deployment smoke test
* Resolved monitoring alerts and maestro abend incidents using **BMC Remedy IT Service Management**
* Setting up deployment using **UCD** tool

Senior Software Engineer Sept 2012 – Dec 2013

**Metlife-Capgemini America, Atlanta, GA**

* Release Management
* Production Support and Application Monitoring
* Build and deploy Web Application using WebSphere Admin tool
* Develop new UI functionality to hide and unhide nodes on the logical map of the Web application
* Responsible to co-ordinate Performance testing
* Responsible for testing support to Business
* Create Change request for Production Installs
* Work on User issue on QA environment
* configuring/setting up jobs using DAS portal.

Software Engineer Oct 2009 – Aug 2012

**MetLife- Capgemini, India**

* Release coordination for INT, QA and Prod environment.
* Production support
* Design and Develop the System in order to suite the requirement
* Integration testing
* Application Monitoring
* WAS Configuration and deployment
* Worked on Stuck items using Process admin tool
* DEV build and deployment using Build Forge and WebSphere admin tool
* Setting up new star team project
* Remedy Creation, update and follow up for approval.
* Star team project creation and also access request creation.
* Project Migration activity for .Net and Java projects.
* System and Email monitoring for stuck items.
* BuilForge project creation and access request creation for the same.
* Star team project creation and also access request creation.