**RISHI REDDY**

**Professional Summary:**

* Around 8+ years of extensive DevOps Engineer, experience in Software Development Life Cycle (SDLC) including requirements analysis, design specification, coding, and testing of enterprise applications.
* Experience in deploying infrastructure on multi-cloud utilizing services such as EKS, RDS, VPC, Route 53, IAM, **AWS** S3 and AKS, PostgreSQL, IOT Hub, EventHub, Service Bus, Storage Account
* Expertise in automation tools like GitLab, Jenkins, Docker, Kubernetes and Elasticsearch, Kibana, Prometheus, Azure DevOps Pipelines, Grafana Dashboards, SingnalFx, Helm, Kustomize
* Expertise in provision cloud resources using tools Terraform, CloudFormation, ARM templates
* Experience administrating solutions in, Microsoft Azure, and other public cloud services
* Worked with **Kubernetes** to provide a platform for automating deployment, scaling, and operations of application containers across clusters of hosts and managed containerized applications using its nodes, Config maps, selectors, and services.
* Maintaining Continuous Integration, **Continuous** Delivery and Continuous Deployment’s in multiple environments
* Expertise in creating Helm templates to deploy in **Kubernetes** and worked with pipelines to drive all micro services builds out to the Docker registry and then deployed to **Kubernetes**.
* Experienced with Docker container service and Dockerized applications by creating Docker images from Docker file.
* Involved in writing Ruby, Python, PowerShell and shell scripts for compilation and deployment process.

**Technical Skills:**

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| **Technologies:** | Azure, Amazon Web Services, Elasticsearch, Kibana, Kubernetes, |
| **CI Tools** | Jenkins, GitLab, Circle CI, Azure DevOps |
| **Tracking Tools** | JIRA, Version One, Pivotal Tracker, Azure Boards |
| **Build Tools/DevOps** | Terraform, Docker, Ansible, Helm, Kustomize |
| **Application Software:** | GitLab, Bit Bucket, GIT, Azure Devops |
| **Operating systems:** | UNIX, Red Hat Linux |

**Professional Experience:**

**Thales Group, Melbourne, FL -Contract July 2021 – Present**

**Cloud Automation Engineer**

**Roles and Responsibilities:**

* Working as Cloud Administrator on Microsoft Azure, AWS involve in helping clients to design and architect the solutions needed for their applications.
* Administration of network infrastructure, design networking for Hybrid cloud connectivity and on-prem infrastructure
* Architected and implemented Self-Hosted Jfrog Artifactory on Azure Cloud which helped organization to store artifacts
* Designed automation for Azure Kubernetes Service (AKS) to deploy a managed Kubernetes cluster in Azure by using Terraform templates
* Worked on implementing **Helm charts, Kustomize** for Kubernetes to streamline the deployment process
* Administering of AKS cluster maintain and configure the tools required for monitoring, logging, and auditing
* Designed the implementation of deploying applications to **Azure Services AKS, Function Apps, ACI** through the CI/CD process
* Implemented and worked Azure AD in creating Users, Groups, Applications registrations through ServiceNow
* Worked on designing Terragrunt (Wrapper around terraform) Template’s for deploying to multiple environments
* Set up centralized logging and log aggregation/searching (FluentD/Elasticsearch/Kibana)
* Implementing new projects using Jenkins, MS Build, ANT &amp; Maven as build framework tools.
* Developing scripts for build, deployment, maintenance and related tasks using Jenkins ANT, Maven, Java and Groovy scripts.
* Managing day to day activity of the cloud environment, supporting development teams with their requirements

**Environment:** AZURE, AKS, Terraform, .Net, IoT Hub, Service Bus, Events Hub, Application Insights, Nginx, BASH, GitLab, Dockers, Shell Scripts, Spring Boot, ELK, UNIX, Grafana, Kubernetes, Helm templates, Spring Boot.

**Axciom, Remote -Contract November 2019 to July 2021**

**Cloud Automation Engineer**

**Roles and Responsibilities:**

* Working as Cloud Administrator on Microsoft Azure, involved in configuring virtual machines, storage accounts, resource groups.
* Architected and implemented Jfrog Artifactory with Xray product for organization to store the artifacts and scan for vulnerabilities in artifacts
* Configuration of Microsoft DevTest Labs to migrate the virtual machines from one subscription to another subscription.
* Implemented Azure Kubernetes Service (AKS) to deploy a managed Kubernetes cluster in Azure and created an AKS cluster using Terraform templates
* Resolved Azure AD issues relating to Office 365, Active Directory to Azure AD identity and user permissions
* Worked on implementing **Helm charts** for Kubernetes to streamline the deployment process
* Designed **Network Security Groups** (NSGs) to control inbound and outbound access to network interfaces (NICs), VMs and subnets.
* Designed the implementation of deploying **Azure Function Apps** through CI/CD process
* Having Experience of Creating and Managing the users and groups in Azure AD
* Worked on designing ARM Template’s for deploying to multiple environments
* Set up centralized logging and log aggregation/searching (Fluent/Elasticsearch/Kibana)
* Managing day to day activity of the cloud environment, supporting development teams with their requirements
* Experience Microsoft Azure date storage and Azure Data Factory, Data Lake.
* Part of Test Automation/Tools Development Team in the 5G Cloud.
* Validated the microservice’s deployed on prem K8's and Azure AKS
* Design and maintain pipeline script's in GitLab to perform automated tests sson deployed services and tagging them appropriately
* Web Application Development using Groovy Grails JQuery, AJAX.
* JIR development with Groovy Scripting.
* Development experience with Groovy Grails restful web services.
* Developed vagrant files to provision clusters on servers and used Ansible to configure the VM’s
* Experiencing in writing helm charts to deploy micro services in with robust configurations on remote clusters
* Work on scenarios on how to validate the software and harness the input files related to test execution
* Worked on supporting team infrastructure by upgrading, creating on-prem K8's cluster's
* Implemented Istio ingress gateway for services deployed on edge cluster’s
* Experience with implementing Istio service discovery on K8's clusters
* Volunteered on providing Ideas for Edge Multi-Cluster Orchestration (EMCO)

**Environment:** AZURE, AKS, Terraform, .Net, IoT Hub, Service Bus, Events Hub, Application Insights, Nginx, BASH, GitLab, Dockers, Shell Scripts, Spring Boot, ELK, UNIX, Grafana, Kubernetes, Helm templates, Spring Boot, Flask, Nginx, BASH, GIT, **GitLab**, Dockers, Shell Scripts, ELK, UNIX, Fluentd, Microservices, RESTful API, JIRA, Prometheus, Grafana

**Centine Corp.Inc , Dallas, TX – Contract February 2019-October 2019**

**Cloud Automation Engineer**

**Roles and Responsibilities:**

* Built and manage **Kubernetes** clusters on **AWS** for running **Airflow** instances to perform various types of batch jobs.
* Deployed multiple ASG’s in **AWS EKS** to deploy scale, load balance and manage Docker containers with multiple name spaced
* Integrated **Jenkins** with Terraform to deploy resource on **AWS Kubernetes** container environment, utilizing **Kubernetes** and Docker for the runtime environment for the CI/CD system to build and test and deploy.
* Created Terraform modules to create VPC’s in **AWS** & automated process of creation of resources in **AWS** using terraform.
* Experience in creating Docker containers leveraging existing Linux Containers and AMI's in addition to creating Docker containers from scratch.
* Built a deployment pipeline for building Docker images with tagging versions and pushing to **AWS** **ECR** using **Jenkins** CI.
* Implemented application logging infrastructure using open-source tool **Fluentd**. Forward those logs to **Elasticsearch**
* Containerizing the Python Flask applications and deploying it through **Kubernetes**.
* Worked and Implemented **Kustomize** an open-source tool to target **Kubernetes Deployments**
* Involved in activities like developing user stories, redesigning the stories based upon new requirements, certifying stories with the help of test plans, and uploading the evidence into quality center.
* Implemented Distributed tracing method used to profile and monitor applications, especially those built using a Python microservices architecture
* Responsible for orchestrating CI/CD processes by responding to GIT triggers, human input, and dependency chains and environment setup.

**Environment:** **AWS**, Terraform, Python, Flask, Nginx, BASH, GIT, **Jenkins**, Dockers, Shell Scripts, ELK, UNIX, Fluentd, Microservices, RESTful API, JIRA, SignalFX, Prometheus, Grafana, Kubernetes, Kustomize.

**NCC, Hyderabad, India November 2015 –December 2018**

**Role: System Administrator**

* Configuration &amp; Administration of RedhatLinux 5.x, 6.x Operating systems.
* Implemented and administered VMware ESX 3.5, 4.x for running the Redhat Linux servers on development ant test servers.
* Assisted in installation, configuration and administration of Windows, Red Hat Linux CentOS using Kickstart servers and unattended disk.
* Scheduled the daily/weekly/monthly backups on Linux/Windows Servers
* Storage setups, RAID, Logical Volume Manager, system backup design and disaster recovery
* Configured volume groups and logical volumes, extended logical volumes for file system growth needs using Logical Volume Manager (LVM) commands.
* Maintenance, performance, tuning and testing of servers for proper functioning.
* Managing routine backup, scheduling jobs, enabling system logging and network logging.
* Developed Cron jobs and Shell Scripts (Shell, Python) for automating administration tasks like file system management, process management, backup and restore.
* Involved in development, user acceptance, and performance testing, production &amp; disaster recovery server.
* Optimized company servers ensuring business success by performing design, installation and administration in addition to NFS/CIFS file system mounting and support for developers.
* Assisted in ongoing system performance, system application tuning, hardware upgrades and resource optimization as required.
* Kernel tuning, Writing Shell scripts for system maintenance and file management, also worked on Solaris volume manager to create file systems as per user and database requirements.
* Managing daily operation of a true heterogeneous environment consisting of Linux/Unix and (around 1500+ servers). Also involved in data center activity as and when required.
* Resolving critical system issues on a 24x7 basis, including notification, coordination, and dispatch of individuals from various functional groups within the organization.