A blue and white logo with a white star

Description automatically generated with low confidence**DURGA REDDY K**

**Cloud DevOps Engineer**

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**PROFESSIONAL SUMMARY**



A competent professional with 3+ years of experience with Cloud DevOps Engineer as an Azure DevOps Engineer and different domains in technology. Projects completed successfully with quality products and delivered on time within budget.

* Experience in Implementing Azure Service Offering, such as Azure cloud services, Azure storage, IIS, Azure Active Directory (AD), Azure Resource Manager (ARM), Azure Storage, Azure Blob Storage, Azure VMs, SQL Database, Azure Functions, Azure Service Fabric, Azure Monitor, and Azure Service Bus.
* Hands on experience on Backup and restore Azure services and in Design and configure Azure Virtual Networks (VNet), subnets, Azure network settings, DHCP address blocks, DNS settings, security policies and routing.
* Experience in provisioning new resources using Azure Resource Manager templates (ARM Template) and Terraform.
* Experience in automating day-to-day activities by using Windows PowerShell and Azure CL.
* Experience filtering network traffic with a Network Security Group and route network traffic with a route table using the Azure portal.
* Experience in setting up CICD pipeline integrating various tools with Jenkins to build and run Terraform jobs to create infrastructure in Azure.
* Proficiency in using Docker Hub, Docker Engine, and Docker images, Docker Weave, Docker Compose, Docker Swarm, and Docker Registry and used containerization to make applications platform when moved into different environments.
* Proficient in creating Docker images using Docker File, worked on Docker container snapshots, removing images, and managing Docker volumes and implemented Docker automation solution for CI/CD model.
* Involvement in developing APIs using Kubernetes to manage and specify the copies of the containers to run the actual servers in the cloud environment.
* Scheduled, deployed, and managed container replicas onto a node cluster using Kubernetes and deployed Docker containers through Kubernetes to manage the micro services using its Nodes, Pods, Config Maps, Selectors, and Services.
* Experience in writing Ansible playbooks by using YAML script to launch AWS instances and used to manage web applications, configuration files, used mount points and packages.
* Wrote Ansible playbooks, inventories created custom playbooks written in YAML language, encrypted the data using Ansible Vault & maintained role-based access control by using Ansible Tower & Implemented IT orchestration using Ansible to run tasks in a sequence which can work on different servers.
* Ability to quickly adapt to different project environments, work in teams and accomplish difficult tasks independently within time frame.
* A good team player with excellent written and verbal communication skills. Excellent problem-solving skills with a strong technical background and good interpersonal skills.

**EDUCATION:**



* BA from Narayana Degree College

**TECHNICAL SKILLS:**



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| --- | --- |
| Cloud Technologies | Azure |
| Containerization Tools | Docker, Kubernetes |
| Configuration Management | Ansible, Terraform |
| Version Control Tools | Git, Git Hub |
| Monitoring Tools | Azure Monitor |
| Web Servers | Apache Tomcat, Nginx, SQL Server |
| Databases | SQL |
| IDE Tools | MS Visual Studio, Oracle SQL |
| Networking/Protocols | DNS, DHCP, FTP/TFTP, NFS, SMTP, TCP/IP, NIS, HTTP/HTTPS, WAN, LAN, Cisco Routers/Switches |
| Scripting Languages | Bash, PowerShell |
| Operating Systems | Windows, LINUX |

**PROFESSIONAL EXPERIENCE:**



* Working in Accenture as a Cloud Engineer from May 2021 to Till Date

**Client**: Ryder System

**Period**: Sep 2023 – Till Date

**Role**: Cloud Engineer

**About**: Ryder is an American transportation and logistics company. It is known for its fleet of commercial rental trucks. Ryder specializes in fleet management, supply chain management, and transportation management.

**Accomplishments**:

* Implemented CI/CD pipelines using Yaml Templates in Azure DevOps for artifact migration deployments in different environments.
* Implemented CI/CD pipeline setup, configuration management, and assisted development team for any issues.
* Spearheaded the artifact migration of legacy to new semantic CI/CD processes to Azure DevOps.
* Diagnosed and resolved build failures and deployment issues in Azure DevOps pipelines.
* Utilized Azure DevOps built-in debugging tools and features, such as pipeline logs, test results, and diagnostic data, to troubleshoot and resolve issues efficiently.
* Collaborated with development teams to debug and fix code-related issues that affected pipeline stability and performance.
* Resolved issues related to pipeline configuration, such as incorrect YAML syntax, missing dependencies, and misconfigured environment variables.
* Led an initiative to improve the stability and reliability of Azure DevOps pipelines, resulting in a decrease in build failures and deployment issues.
* Managed and configured user access and permissions in Azure DevOps to ensure secure and controlled access to projects, repositories, and pipelines.
* Configured branch policies in Azure DevOps to enforce code quality standards, such as mandatory pull request reviews, build validation, and code coverage requirements.
* Set up new repository in ADO and initialized repositories for new projects, ensuring proper organization and alignment with best practices.
* Worked on branch creation and maintenance tasks in Azure DevOps ensuring consistency across projects.
* Implemented naming conventions and guidelines for branches and repositories to promote clarity and consistency within development teams.
* Integrated Fortify for static code analysis in the CI/CD pipeline, ensuring early detection and remediation of security vulnerabilities in the code base.
* Implemented security best practices and compliance checks using Fortify, enhancing the overall security posture of applications.
* Configured and managed Nexus Sona type repositories for artifact storage and distribution, ensuring efficient and secure management of build artifacts.
* Integrated Nexus with CI/CD pipelines to streamline the artifact management process, enabling automated version control and artifact deployment.
* Integrated Fortify for static code analysis in the CI/CD pipeline, ensuring early detection and remediation of security vulnerabilities in the code base.
* Implemented security best practices and compliance checks using Fortify, enhancing the overall security posture of applications.
* Configured and managed Nexus Sona type repositories for artifact storage and distribution, ensuring efficient and secure management of build artifacts.
* Integrated Nexus with CI/CD pipelines to streamline the artifact management process, enabling automated version control and artifact deployment.

**Client**: Corvesta

**Role**: Build & Release Engineer

**Period**: Jan 2022 to Aug 2023

**About**: Corvesta is dedicated to advancing oral health through scientific research, technology, and benefits and practice management.

**Accomplishments:**

* Deployed Azure IaaS virtual machines (VMs) and Cloud service (PaaS role Instances) into secure V-Nets and subnets using PowerShell.
* Automated the Azure DevOps Service Connection password rotations using PowerShell.
* Automated Azure resources provisioning using Terraform.
* Deploying CI/CD system using Azure DevOps on Kubernetes container environment, and for the runtime environment of CI/CD system to build, test, and deployment have been utilized.
* Using Shared Image Gallery to store the created Images and built Azure pipelines in Azure DevOps to implement all these services in Azure.
* Automated the provisioning of self-hosted agents in ADO using Packer and Terraform scripts. Actively manage, improve, and monitor cloud infrastructure on Azure including patches, and auto scaling.
* Configured CI/CD Pipelines as Code with YAML in Azure DevOps.
* Created a Continuous delivery process to include support building of Docker images and publish into a private repository-Nexus V3.
* Developed the yaml files to integrate the code scanning tools like SonarQube.
* Automated the end-to-end application life cycle using Azure DevOps CI/CD (Build, Test, and Publish)
* Automated the artifact signing process using PowerShell modules and some internal tools.
* Collaborate with the internal teams to provide technical assistance and content were applicable.

**Internal**

**Role**: System Admin

**Period**: May 2021 to Dec 2021

**Accomplishments**:

* Install, configure, and maintain servers, operating systems, and software applications.
* Set up network components and ensure connectivity across systems.
* Analyze system workflows to optimize performance and reduce downtime.
* Implement updates, patches, and fixes to enhance system functionality.
* Design and manage backup and recovery solutions.
* Ensure business continuity by preparing for and mitigating system failures.
* Provide technical support and guidance to end-users and other IT teams.
* Prepare and maintain technical documentation for system configurations and processes.
* Provide regular system performance and incident reports.
* Design, develop, and implement complex systems and infrastructure.
* Ensure integration of hardware, software, network, and security components.
* Develop scripts and tools to automate routine tasks and improve operational efficiency.
* Implement Infrastructure as Code (IaC) using tools like Ansible, or Terraform.
* Provide regular system performance and incident reports.