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***Thandarupalli Naveen Goud***

***Cloud DevOps Engineer***

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**PROFESSIONAL SUMMARY:**

* Having **10+** years of experience in IT industry with **6** years as a Cloud DevOps Engineer, Build and Release Engineer which includes Software Configuration Management (SCM), Build/Release Management, Continuous Integration and Continuous Delivery using different tools and **4** years as a linux administrator.
* Expertise in DevOps tools such as **GIT, Docker, Kubernetes, AWS, Azure, Jenkins, Maven, Ant, Gradle, SonarQube, Nexus Repository, Jfrog, Ansible, Terraform, Splunk, New Relic, Prometheus, Grafana.**
* Experienced in Continuous Integration (CI) and Continuous Delivery (CD) process implementation using **Jenkins, Azure Pipelines, GitLab CICD pipelines and GitHub Actions.**
* Experienced in Configuration Management Tools such as **Ansible, Chef** Automated Linux production server’s setup using the **Ansible playbooks, roles, Cookbooks**.
* Experience with **Docker** containerized environment, hosting web servers on containers, building Docker images using Docker.
* Expertise working with **Kubernetes** to automate deployment, scaling and management of web Containerized applications.
* Worked on **Kubernetes** to orchestrate **Docker** containers of new and existing applications as well as deployment and management of complex run time environment. Setup RBAC Roles on Kubernetes Cluster.
* Automated deployment, configuration, scaling, and maintenance tasks using **Infrastructure-as-Code (IaC)** tools such as **Azure Resource Manager templates, Terraform**.
* Designed and distribution of data across all the nodes and Clusters on different availability zones in **AWS Redshift** and experienced in automating the infrastructure using **Terraform** in AWS console.
* Expertise in administering and automating operations across multiple platforms **(UNIX, Linux, Windows and MAC)**.
* Experienced in working on both On-Premise and Cloud (AWS/Azure) platforms utilizing **DevOps/Agile** operational processes.
* Expertise in AWS Cloud utilizing various services like **EC2, VPC, ELB, Auto-Scaling, Security Groups, Route53, IAM, EBS, Load Balancers, RDS, S3, SNS, SQS, CloudWatch, Elastic Beans Stalk, CloudFormation & EKS** and other services of AWS.
* Built and configured VPC in the AWS cloud to support Enterprise Data Warehouse hosting including **VPC, Public & Private Subnets, inbound & outbound Security Groups, Route Tables, and Elastic Load Balancer.**
* Designing, developing, testing, and deploying cloud-based applications and services using **Microsoft Azure** technologies and services.
* Understanding and implementing Azure services such as **Azure Functions, Azure Storage,** **Azure Container Registry (ACR),** **Azure Monitor, Azure App Service, Azure Logic Apps, Azure Kubernetes Service (AKS), Azure App Service, Azure Data Factory,** **Azure SQL** and others.
* Building, integrating, and deploying **Azure DevOps pipelines/ Jenkins** for continuous integration and continuous deployment **(CI/CD)** workflows.
* Responsible for setting up and configuring **Kafka clusters** on **Azure**, including provisioning **virtual machines**, **installing Kafka software, configuring networking, security, and authentication settings, and setting up backup and disaster recovery solutions.**
* Implemented monitoring and alerting solutions to proactively detect and resolve issues in **Kafka** clusters using **Azure Monitor**, **Apache Kafka** monitoring tools, and other third-party monitoring tools to collect and analyze metrics, logs, and other performance data, and setting up automated alerts and notifications.
* Worked closely with development teams to integrate **Kafka** into the DevOps pipeline, including implementing **CI/CD** processes, automated testing, and versioning.
* Used AWS **lambda** to run servers without managing them and configured to trigger, to run code using S3.
* Experience with **Linux/UNIX** environments and scripting for Build & Release automation.
* Hands-on experience in DevOps automation development for Linux and Windows Environments. Experience in **UNIX** environment and expertise in several flavors of **Linux** including **Red Hat, CentOS,** and **Ubuntu.**
* Experience in Configuring and Administrating **Nexus Repository Manager/JFrog** Artifactory
* Designed highly available, cost effective and fault tolerant systems using multiple **EC2 instances, Auto Scaling, Elastic Load Balancer and AMIs and S3 Glacier, EBS for ALL** environments as well as infrastructure.
* Performed application migration to **Docker** and containers for various projects and established the use of **Blue/Green Deployments, Load Balancers and AWS EC2** spot instances.
* Experience on Azure Site Recovery and Backup Installed and Configured the **Azure Backup agent** and **virtual machine backup**, Enabled Azure Virtual machine backup from the **Vault** and configured the **Azure Site Recovery (ASR)**.
* Experience in branching, tagging, and maintaining the version across the environments using SCM tools like **Subversion (SVN), Git, Bit Bucket**, and **GitHub**.
* Expertise in building **Kafka cluster**, cluster maintenance, trouble shooting, monitoring, commissioning and decommissioning Data nodes, Troubleshooting, Manage and review data backups, Manage & review log files.
* Expertise in working with diverse Database platforms for Installing, Configuring and Managing **RDBMS** tools like **MYSQL, Oracle and NOSQL Dynamo DB, and Mongo DB/Cosmos DB.**
* Worked on various network protocols **like HTTP, UDP, FTP, TCP/IP, SMTP, SSH, SFTP & DNS** and technologies **like load balancers (ELB), ACL, Firewalls**.
* Experienced with handling production incidents, queries, problems through remedy ticketing system and non -production issues/tasks/incidents through **JIRA** ticketing system and **ServiceNow**.
* Good understanding of web and application servers like **Apache Tomcat, WebSphere, Nginx and IIS**.
* Used build tools like **Maven, Gradle and MSBuild** for the building of deployable artifacts from source code.
* Experience in building and deploying **Java/.NET following SOA/Microservices** applications and troubleshooting the build and deploy failures.
* Proficient with **Terraform** Configuration files to spin up the infrastructure very easily and efficiently.
* Experienced using different log monitoring tools like **Splunk, New Relic, ELK (Elastic search, Logstash, Kibana)** for to see logs information, monitor, get the health & security notifications from nodes.

**EDUCATION:**

* Bachelors of Computer Science from JNTU in 2012

**CERTIFICATIONS**

* Microsoft Certified Azure Administrator
* Certified Kubernetes Administrator
* AWS Developer – Associate
* Certified Terraform Associate

**TECHNICAL SKILLS:**

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| **AWS Services** | RDS, EC2, VPC, IAM, Cloud Formation, EKS, EBS, S3, ELB, Auto Scaling, Cloud Trial, SQS, SNS, SWF, Cloud Watch, Load Balancers, Elastic Beans Stalk, ECR. |
| **CI/CD** | Jenkins, Azure Pipelines. GitHub Actions |
| **Artifactory Storing Tools** | Jfrog and Nexus |
| **Servers** | Nginx, IIS, Httpd, Apache Tomcat |
| **Documentation Tools** | Confluence |
| **Operating Systems** | Microsoft Windows , Linux, UNIX. |
| **Tracking Tools** | Jira, Azure Devops |
| **Code Scanning** | Sonar Qube, Jfrog X ray, Trivy |
| **Databases** | RDS, Cosmos DB, My SQL DB. |
| **Monitoring Tools** | Cloud Watch, Cloud Trail, Azure App Insights, Azure Monitor |
| **Configuration & Automation Tools** | Ansible, Chef. |
| **Container Platforms** | Docker, Kubernetes, Open Shift. |
| **Monitoring Tools** | New Relic, Splunk, Datadog, Grafana, App Dynamics. |
| **Languages** | Python, Shell scripting. |
| **Cloud Platforms** | Azure, AWS. |
| **Azure Services** | App Services, Key vault, function app, Blob storage, Azure Active Directory (Azure AD), Service Bus, Azure Container Registry (ACR) and Azure Kubernetes service (AKS), Azure SQL. |
| **Version Control Tools** | GiHub, Git Lab, Bit Bucket. |
| **Infrastructure-as-code** | Terraform, CloudFormation |

**WORK EXPERIENCE**

**Client: VIR BIOTECHNOLOGY, San Francisco, CA**

**Role: Azure/DevOps Engineer | Oct 2022 - Till Date**

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**Responsibilities:**

* Implementing and managing the end-to-end DevOps practices and processes using **Azure DevOps** tools, including source control, continuous integration, continuous delivery, automated testing, and deployment.
* Responsible for managing source code repositories using version control systems such as **Git** in **Azure DevOps**, including creating and managing branches, merging code changes, resolving conflicts, and ensuring proper versioning and branching strategies are followed.
* Responsible for creating and managing infrastructure as code (IaC) templates using tools such as **Azure Resource Manager (ARM) templates or Terraform** to automate the provisioning and management of Azure resources required for application deployments.
* Implemented automation scripts using .NET PowerShell and Bash to streamline **deployment processes** and improve operational efficiency.
* Collaborated with development teams to integrate **.NET Core applications** into CI/CD pipelines, ensuring fast and reliable delivery of software.
* Developed and maintained automation scripts using **.NET PowerShell** and Bash for infrastructure provisioning, configuration management, and deployment, reducing manual effort, and improving consistency.
* Implemented and managed CI/CD pipelines for **.NET Core applications** using tools like Jenkins, GitLab CI/CD, or Azure DevOps, enabling rapid and reliable software delivery.
* Utilized C# for developing custom tools and utilities to automate **repetitive tasks** and enhance development workflows.
* Worked with the .NET framework and .NET Core to build and deploy applications in a **DevOps environment**, ensuring compatibility and performance optimization.
* Responsible for automating the deployment of applications and services to various environments using tools such as **Azure DevOps Pipelines**, **Jenkins**, or other deployment technologies, ensuring that deployments are consistent, repeatable, and reliable.
* Responsible for managing **configuration files, settings, and secrets** for applications and services using tools such as **Azure Key Vault or** other configuration management solutions,ensuring that sensitive information is stored securely and properly managed.
* Experience working with several azure services such as **Azure Virtual Machines (VMs), Azure App Service, Azure Blob Storage, Azure SQL Database, Azure Cosmos DB, Azure Functions, Azure Virtual Network (VNet), Azure Active Directory (AD), Azure Key Vault, Azure Kubernetes Service (AKS), Azure Databricks, Azure Data Factory, Azure Firewall, Azure Load Balancer, Azure VPN Gateway, Azure Backup, Azure Monitor, Azure Policy, Azure Resource Manager (ARM), Azure Event Hubs**
* Responsible for monitoring the health and performance of applications and services in production environments using tools such as **Azure Monitor**, **Azure Application Insights** or other monitoring solutions.
* Managed, Configured and scheduled resources across the cluster using **Azure Kubernetes Service (AKS)/EKS/OpenShift.**
* Responsible for deploying and managing **Apache Kafka** clusters on **Azure**, including provisioning **virtual machines** or containers, configuring networking, and setting up authentication and authorization.
* Responsible for monitoring the health and performance of **Apache Kafka clusters** on Azure, including monitoring topics, partitions, and brokers, as well as tuning various Kafka configurations for optimal performance.
* Responsible for setting up data producers to ingest data into **Kafka** topics from various sources, such as applications, IoT devices, or external systems.
* Implemented data streaming solutions using **Kafka Streams** or other **Kafka clients** on Azure.
* Responsible to integrate Apache Kafka with other Azure services, such as **Azure Event Hubs, Azure Blob Storage,** or Azure Stream Analytics, to enable data processing, analytics, or storage workflows.
* Worked on **Azure Data Factory/ Azure Synapse** to integrate data of both on-prem (**MY SQL, SQL**) **and cloud (Blob storage)** and applied transformations to load back to **Snowflake.**
* Performed the migration of large data sets to **Databricks (Spark),** create and administer cluster, load data, configure data pipelines, loading data from ADLS Gen2 to **Databricks** using **ADF** pipelines.
* Ingested data in mini-batches and performs RDD transformations on those mini-batches of data by using Spark Streaming to perform streaming analytics in **Data bricks**.
* Created various pipelines to load the data from **Azure data lake** into Staging SQLDB and followed by to **Azure SQL DB.**
* Worked on creating the infrastructure by using the terraform and initiated azure services like **AKS, ACR, VN, VM** ..etc.
* Utilized **Azure Logic Apps** to build workflows to schedule and automate batch jobs by integrating apps, **ADF pipelines**, and other services like **HTTP requests, email triggers** etc.
* Worked extensively on **Azure data factory** including **data transformations, Integration Runtimes, Azure Key Vaults**, **Triggers** and migrating **data factory** pipelines to higher environments using **ARM** Templates.
* Experienced in developing **Ansible** roles and **Ansible Playbooks** for the server configuration.
* Experience in working with **GIT** to store the code and integrated it to **Ansible** to deploy the playbook.
* Experienced in using **Tomcat, JBOSS, WebLogic and WebSphere Application servers** for deployment.
* Expertise in Querying RDBMS such as Oracle, MySQL and SQL Server by using PL/SQL for data integrity and proficient in multiple databases like **MongoDB, Cosmos DB, MySQL, ORACLE**.
* Experience using **CRONTAB** for job/task scheduling in Linux environment.

**Client:** **Comcast, Philadelphia, PA**

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| **Role: DevOps Engineer | April 2021 –Sep 2022** |

**Responsibilities:**

Worked in designing and configuring **Azure Virtual Networks** (VNets) and subnets, managing network settings, DHCP, DNS, and security policies. Proficient in creating and deploying VMs using ARM templates and managing virtual networks.

Worked on **Azure Resource Manager** Template and extensive knowledge on designing custom build steps using PowerShell, created various custom template for azure resource such as ASE, ASP, WebApp, PostgreSQL, App Gateway, Storage Account, container registry, key vault, Azure Cache for Redis to create complete infrastructure for the application.

Dockerized **.NET Core applications** and orchestrated containers using Kubernetes, improving scalability and portability of applications.

Managed **configuration files** and settings for .NET Core applications using tools like Ansible or Puppet, ensuring consistency across environments.

Integrated monitoring and **logging solutions** such as Prometheus, Grafana, ELK stack (Elasticsearch, Logstash, Kibana) with .NET Core applications to monitor performance and troubleshoot issues.

Have setup and manage **continuous integration** jobs and continuous delivery pipelines in Azure DevOps (VSTS) and Experience with designing APIs and working with REST-based microservices and deploying the infrastructure and application in various environment like Demo, Test, PENTEST, Training, CTDEV, Sandbox, UAT, and PROD Environments.

Utilized Azure Databricks for custom **DNS configurations** and network security group (NSG) rules.

Automate provisioning and repetitive tasks using **Terraform** and Python, Docker container, Service Orchestration. Worked on Terraform, a tool for building, changing, and versioning infrastructure safely and efficiently, also worked with Terraform modules.

Implemented security best practices for **.NET Core applications** and infrastructure, including secure coding practices, vulnerability scanning, and access control.

Collaborated with development and **operations teams** to understand requirements, provide technical guidance, and resolve issues efficiently.

Documented processes, configurations, and best practices for .NET Core applications and **DevOps workflows**, ensuring knowledge sharing and continuity.

Created CI/CD pipelines using **Azure DevOps environments** by providing their dependencies and tasks. Also have experience in implementing and managing continuous delivery systems and methodologies on Azure and created an end-to-end automation.

Improved automation and **configuration management** using Ansible and Ansible-based YAML scripts.

Leveraged Azure Automation for runbook creation, migration, authorization, and scheduling. I have developed build workflows using Gradle, Gitlab-CI, Docker, and Openshift.

Worked on Azure Active Directory connect to sync **on-premises Active Directory** user data, groups, and organizations to Azure AD and troubleshoot Azure services sync with on-premises AD and resync using the Azure tools also Configure security in Azure AD using privilege access management, Identity protection, multi-factor authentication (MFA) for two-factor authentication and also configured Azure Role-based Access Control (RBAC) to enforce granular user access management. Successfully migrated on-premises data to Azure Data Lake Store (ADLS) using Azure Data Factory.

Configuring and Controlling the Scale Up and Scale Out of the **App Service Plans** and Pricing tier (scale DTUs) while migrating the Databases and Applications from on-premises to Azure Cloud Platform.

Configured Azure Blob storage for efficient storage and retrieval of unstructured object data. Successfully migrated on-premises data to Azure Data Lake Store (ADLS) using **Azure Data Factory**. Skilled in Azure infrastructure management using Terraform and SCOM.

Implement migration strategies for **traditional systems** on Azure (Lift and shift, Azure Migrate Service). While migrating the data provided encryptions and firewalls.

Implemented centralized identity management using Ping Directory, enabling **single sign-on (SSO)** for multiple applications.

Deployed microservices on Azure Kubernetes using Docker. Integrated Docker container orchestration using Kubernetes, creating pods and deployments.

Configured various types of **Docker networks**, including bridge, host, overlay, and macvlan networks, to meet specific application requirements.

Used Azure Kubernetes service (AKS) to deploy a managed **Kubernetes cluster** in Azure and created an AKS cluster in the Azure portal, with the Azure CLI, also used template driven deployment options such as Resource Manager templates and in Terraform.

Managed **Kubernetes resources**, such as pods, services, deployments, and ingress controllers, using Azure-specific tools and APIs. Have used Prometheus and Grafana Dashboard for getting Kubernetes metrics logs.

Expertise in Microsoft Azure Cloud Services (PaaS & IaaS), Application Insights, Azure Monitoring, Key Vault, Visual Studio Online (VSO) and SQL.

Handling various **project application** on azure such as understand and troubleshooting various issues on Azure resources like App Insights, SQL, Webapps, Application Gateway, Auto scale resources based on utilization, managed and Manage SSL certificates on domain name, CDN and AD authentication.

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| **Client: Wells Fargo, Dallas, USA**  **Role:** Azure **DevOps Engineer | Nov 2019 –** Mar **2021** |

**Responsibilities:**

* Focused on improving **software development, deployment**, and operations processes. Worked in designing, implementing, and maintaining scalable and highly available infrastructure solutions.
* Collaborated with development teams to define infrastructure requirements and create infrastructure as code (IaC) using tools like **Terraform, CloudFormation.**
* Automated the **provisioning and configuration** of infrastructure components such as servers, networks, load balancers, and databases, also implemented and maintained scalable and highly available infrastructure architectures, leveraging cloud platform Azure.
* Implement and maintain CI/CD pipelines to automate the **build, test, and deployment** processes for applications and services.
* Integrate source control systems using Git and build automation tools **Jenkins, GitLab CI/CD** to enable continuous integration and delivery of software.
* Managed and optimized **release processes**, including version control, release coordination, and rollback strategies.
* Have used **ServiceNow** for incident management, change management, and problem management.
* Have set up monitoring and alerting systems like **Splunk, Nagios, Azure Monitor, CloudWatch, ELK** to track application and infrastructure performance, and ensure system availability.
* Implement proactive measures to anticipate and prevent **system failures** or **performance degradation**.
* Participated in incident response and **on-call rotations** to address system outages or performance incidents.
* Collaborated with development and operations teams to conduct **root cause analysis (RCAs)** and implement measures to prevent recurrence.
* Worked to improve system reliability, resilience, and fault tolerance, implementing practices like fault injection, chaos engineering, and **disaster recovery planning**.
* Orchestrated the creation of Pods with Kubernetes and implemented Jenkins pipelines to manage the builds of microservices, facilitating their deployment to the **Docker registry and Kubernetes**.
* Leveraged Docker **to virtualize servers**, creating isolated environments for testing, development, and production.
* Integrated the Kubernetes Container orchestration framework with Docker, streamlining container management by **creating Pods, Configuration Maps, and Deployments**.
* Engineered Azure infrastructure using Terraform, ensuring reliable versioning and utilizing Azure **Terraform modules** for automated resource provisioning.
* Implemented CI/CD pipelines for **AKS** using **Helm charts** in Azure DevOps, enabling automated build, testing, and deployment processes for efficient software delivery.

**Client: PNC, Pittsburgh, PA**

**Role: DevOps Engineer | July 2018 - Oct 2019**

**Responsibilities:**

* Experience in Software Integration, Configuration, building, automating, managing and releasing code from one environment to another environment and deploying to servers.
* Creating and maintaining containerized micro services and configuring/maintaining private container registry on Microsoft Azure for Hosting Images and using Windows Active Directory.
* Implemented CI/CD pipeline for AKS using Helm charts in Azure DevOps.
* Hands on experience on using Terraform along with packer to create custom machine images and automation using Ansible to install software's after the infrastructure is provisioned.
* Deploying Kubernetes (K8s) cluster with Azure Container Service (ACS) from Azure CLI and utilized Kubernetes and Docker for the runtime environment of the CI/CD system to build, test and Octopus Deploy.
* Written custom build definitions and release definitions on Azure DevOps using yaml files to perform deployment activities on Azure and On Premise.
* Managed servers on the Microsoft Azure Platform Azure Virtual Machines instances using Ansible Configuration Management and created Ansible Playbooks, tasks and roles to automate system operations.
* Created Ansible roles in YAML and defined tasks, variables, files, handlers and templates. configured the Ansible files for parallel deployment in Ansible for automating the Continuous delivery process and used Ansible for configuring and managing multi-node configuration management over SSH and PowerShell.
* Worked with Docker and Kubernetes on multiple cloud providers, from helping developers build and containerize their application (CI/CD) to deploying either on public or private cloud.
* Using Bash and Python, included Boto3 to supplement automation provided by Ansible and Terraform for tasks such as encrypting EBS volumes backing AMIs.
* Utilized Kubernetes and Docker for the runtime environment for the Continuous Integration/Continuous Deployment system to build, test, and deploy. Created Jenkins jobs to deploy applications to Kubernetes Cluster.

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| **Client: Extra marks Education, Hyderabad, India.**  **Role: Linux Administrator | Aug 2012 to July 2017** |

**Responsibilities:**

* Installed and configured **RHEL, Solaris** and **Windows Servers.**
* Monitored, analyzed, and responded to security events utilizing security event management and reporting tools.
* Worked on **account, user and group administration, Permissions policy management and quota implementation**.
* Installed, configured, supported and security implementation on SSH, NIS, DNS and HTTPD.
* Implemented and maintained server virtualization using **VMware** and **Oracle Virtual Manager**.
* Coordinated with application team in installation, configuration and troubleshoot issues with **Tomcat server**.
* Created virtual machine using **Oracle Virtual Manager, creating server pool, VM cloning. Conceived, Designed, Installed and Implemented CI/ CD automation system**.
* Participated in setup **Storage Area Network (SAN)** and **NAS** and file system backup and restore.
* 24x7 on-call rotation for support of production systems.
* Developed Ansible Playbooks to manage multiple host nodes to Upgrade Software’s.