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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: Sr. DevOps Engineer | Oct 2022 - Till Date**

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**Responsibilities:**

* Migrated the current Linux environment to **AWS/RHEL Linux environment** and used auto scaling feature and involved in Remediation and patching of Unix/Linux Servers.
* Designed multiple VPCs and public/private subnets with the necessary number of **IP addresses** utilizing CIDR blocks, Route Tables, Security groups, and Elastic Load Balancer.
* IAM policies were developed to grant granular permissions to specific **AWS Users**, Groups, and Roles. Using AWS Lambda to automate deployment and configuration duties.
* Designed and deployed AWS infrastructure following **architectural design** and meeting specific organizational needs.
* Managed and monitored **AWS resources**, including IAM, EC2, FSx, S3, VPC, Cloud, and other AWS services, ensuring smooth and efficient operation.
* Implemented security and compliance measures, including **AWS CIS security** best practices, to protect sensitive data and ensure regulatory compliance.
* Automated tasks and workflows using Terraform, **AWS CloudFormation**, and other automation tools to improve efficiency and reduce errors.
* Troubleshooted and resolved issues with **AWS infrastructure** and services, collaborating with other IT team members to resolve complex technical problems.
* Managed multiple accounts using AWS Organizations and **Control Tower**, ensuring proper governance and compliance across the organization.
* Managed costs and optimized performance of **AWS resources** using tools like AWS Cost Explorer, balancing cost optimization with optimal performance.
* Collaborated with other IT teams, including developers, network engineers, and security teams, to ensure seamless integration of AWS infrastructure with other IT **systems and applications**.
* Demonstrated excellent communication skills, effectively communicating with internal and external customers to understand their needs and concerns.
* Configured AWS Route53 to manage **DNS zones globally**, create record sets, and perform DNS failover and domain health tests; assign domain names to ELB and Cloud Front.
* Docker and Kubernetes are used to manage **microservices** for continuous integration and continuous delivery development.
* Configured, deployed, and managed **Apache Tomcat application** servers for hosting Java-based web applications.
* Managed Tomcat instances, **deployed applications**, and ensured that web services ran well. Splunk competence in log management, monitoring, and data analysis in complex IT systems is required.
* Custom **dashboards, alarms, and reports** were developed to provide insights into system performance and security.
* Expertise in using UML to create **visual models** that depict software systems' structure, behavior, and interactions.
* Created UML diagrams such as class diagrams, sequence diagrams, and use case diagrams to aid in system design.
* Configured and customized Datadog dashboards to provide **real-time visibility** into system health and performance.
* Leveraged **Datadog's alerting** and notification features to proactively identify and respond to anomalies and issues.
* Proficient in DevSecOps, a set of practices that **integrates security** into the DevOps workflow, ensuring security is a priority at every stage of the software development lifecycle.
* Demonstrated ability to automate security checks and **vulnerability assessments** throughout the CI/CD pipeline, identifying and addressing issues early in the development process.
* Integrated **Datadog** with various cloud providers, containers, databases, and other technologies to monitor diverse environments.
* Utilized Datadog's APM (Application Performance Monitoring) capabilities to identify **bottlenecks**, optimize performance, and improve user experiences.
* Proficient in designing and configuring **Elastic Load Balancers (ELBs)** to distribute incoming application traffic across multiple targets.
* Utilized Amazon's ELB services, including **Classic Load Balancer (CLB**), Application Load Balancer (ALB), and Network Load Balancer (NLB).
* Contributed to the **OpenStack** community by providing feedback, participating in discussions, and contributing to documentation.
* Proficient in Groovy programming language, known for its versatility and compatibility with various **Java libraries** and frameworks.
* Conducted regular backups and maintenance tasks to ensure the integrity and availability of SVN repositories.
* Proficient in deploying, managing, and scaling containerized applications using **OpenShift**, an enterprise Kubernetes platform.
* Configured **health checks and monitoring** for ELBs to automatically route traffic to healthy instances and ensure optimal performance.
* Demonstrated expertise in MongoDB, a NoSQL database, for storing and **managing large volumes** of unstructured and semi-structured data.
* Designed data models, implemented indexes, and optimized queries for MongoDB databases.
* Extensive use of **Terraform** for infrastructure as code, execution plans, resource graph, and change automation. Terraform was used to manage AWS infrastructure as code.
* Worked with AWS S3 and IAM services, created S3 buckets with permissions, logging, versioning, and labeling, and created new **IAM users and groups**, defined roles, policies, and identify providers.
* Configured AWS cloud IAC with Terraform and continuous deployment with Jenkins, and orchestrate cloud formation with Terraform. In this experience, Docker and Kubernetes have been indispensable.
* Wrote Ansible Playbooks using Python SSH as the Wrapper to Manage OpenStack Node Configurations and Test Playbooks on AWS Instances.
* Managed deployments in **EKS administered** Kubernetes, configured a cluster with multiple nodes, and deployed containerized applications.
* Designed and implemented **RESTful APIs** using Spring Boot, enabling seamless integration with frontend and backend systems.
* Strong understanding of **AEM's integration** with other Adobe Marketing Cloud solutions, such as Adobe Analytics, Adobe Target, and Adobe Campaign.
* Automation of AWS EC2, VPC, S3, SQS, and SNS using Terraform, Ansible, Python, and Bash scripts. Adopted new Amazon features as they became available, including ELB and EBS.
* Maintaining an AWS solution farm with EC2 instances, ELBs, S3, and Auto Scaling.
* Worked with **Container management** utilizing Docker by writing Docker files, establishing an automated build on Docker HUB, and installing and configuring Kubernetes.
* Cloud deployments were automated using Ansible, python, and AWS Cloud Formation Templates.
* Created, tested, and deployed an end-to-end CI/CD infrastructure for multiple applications utilizing Jenkins as the primary Integration server for the Dev, QA, Staging, and Production environments.
* Container management using Docker by writing **Docker files** and configuring the automated build on Docker HUB, as well as installing and configuring Kubernetes.
* Extensive knowledge of designing, deploying, and managing **Amazon Aurora databases**. Proficient in both the MySQL-compatible and PostgreSQL-compatible Aurora variants.
* Elastic search, Log Stash, and Kibana have been deployed and configured for **log analytics**, full text search, and application monitoring in conjunction with AWS Lambda and AWS CloudWatch.

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

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

**Responsibilities:**

* Working with **AWS CLI** and **API** to manage resources on AWS for many services such as a **EC2, S3, VPC, Lambda, Cloud formation, Cloud Watch, RDS, Dynamo DB, ELB, Auto-scaling**, **Route53**, **IAM** created **python** script using **AWS API** Calls to manage all resources deployed on **AWS**.
* Used **AWS Beanstalk** for deploying and scaling web applications and services developed with **Java, .NET, PHP and Node.js** on familiar servers such as **Apache** and **IIS**.
* Experience in **Blue/green deployment** strategy by creating new applications which are identical to the existing production environment using **CloudFormation** templates & **Route53** weighted record sets to redirect traffic from the old environment to the new environment via **DNS**.
* Configured **EC2** instances by writing **Terraform** templates, **Chef** cookbooks, recipes and pushed them on to **Chef** server. Wrote **Lambda** functions in **Python** for **AWS Lambda** and invoked **Python** scripts for data transformations and analytics on large data sets in **AWS Glue** clusters and **AWS Kinesis** data streams.
* Used **Terraform** in AWS VPC to automatically setup and modify settings by interfacing with control layer.
* Created reproducible builds of the **Kubernetes** applications, managed **Kubernetes** manifest files and Managed Release of **Helm** packages and scheduled, deployed and managed Container replicas onto a node cluster using **Kubernetes.**
* Responsible for deploying and managing **Kubernetes** clusters using **Amazon EKS**, including cluster creation, scaling, upgrading, and monitoring. Have a deep understanding of **Kubernetes** concepts, such as **pods**, **services**, deployments, and **ingress**, and how they can be effectively used in **Amazon EKS**.
* Writing **Ansible** **Playbooks** with **Python** **Boto3** as a wrapper for configuration management of **AWS** nodes in the cloud environment and Tested **Ansible** playbooks on **AWS** instances using **Python** and involved in running **Ansible** Scripts to provision dev servers.
* Created **Docker file** for each **microservice** and changed some of the Tomcat configuration file which are required to deploy Java based application to the **Docker container.**
* Created clusters using **Kubernetes** and worked on creating many pods, replication controllers, deployments, labels, health checks and ingress by writing **YAML** files as well as managed Kubernetes charts using **Helm**.
* Responsible for **Continuous Integration (CI)** and **Continuous Delivery (CD)** process implementation-using **Jenkins** along with **Python** and **Shell** scripts to automate routine jobs. Migrated Legacy applications to a repeatable **Continuous** **Integration** platform.
* Designed and developed **Continuous Integration & Continuous Delivery** pipelines using Code Pipeline, Code Build and Code Deploy plugins in Jenkins. Developed **Jenkinsfile** and automated the **Jenkins** pipeline using pipeline **Groovy** script for the applications.
* Responsible for installing **Jenkins** master and slave nodes and configure **Jenkins** builds for **Continuous Integration (CI)** and **Continuous Delivery (CD).**
* Creating and Implementing **branching** & **merging** strategy with multiple branches. Used **Git** as source code management repository to keep track of version changes. Implemented and Maintained the Branching and **Build/Release** strategies utilizing **GIT** source code management.
* Installed and configured **GIT** and communicating with the repositories in **GITHUB** and Created and maintained **Subversion/GIT** repositories, branches and tags.
* Designed and scripted using **MAVEN** for (J2EE, Web Services, Reusable JARS, Web Client and Open Source) in creating **MasterBuild.xml**, **Build. Properties** &**Pom.xml** files and provided technical support to development team for compilation problems.
* Implemented and maintained the monitoring and alerting of production, corporate servers and storage using **AWS CloudWatch** for efficiency.

Created **Python** scripts to automate AWS Services which includes **ELB, Cloud front, Lambda**, database security and application configuration also Developed them to take backup of **EBS** volumes using **AWS Lambda, CloudWatch**.

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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.
* Working on multiple **AWS** instances by setting services like **Route53, SES, SQS, SNS** and created and administered DNS system using **Route53**.
* Worked with full AWS stack (**Lambda server-less, IAM, Blue-Green deployment**).
* Running Container Workloads in OpenShift On-Prem Private Cloud.
* Provisioned the highly available EC2 instances using **Terraform** and **Cloud Formation** and wrote new plugins to support new functionality in Terraform.
* Researched and developed scalable Linux deployments on AWS via **CoreOS** and **Docker** and used **Docker** Compose to develop dependent instances to be deployed in the **EC2** platform.
* Experience with **S3** Bucket services like creating buckets, managing policies, configuring buckets with permissions, logging, versioning and tagging and used **S3** Bucket and **Glacier** for storage and backup on AWS.
* Worked on **AWS Cloud Watch** for monitoring the application infrastructure and used **AWS email services** for notifying & configured S3 versioning and lifecycle policies to and backup files and archive files in Glacier.
* Worked on migrating the on-premises application from its physical Storage Racks to **AWS** by using **EC2, S3**.
* Served application data using **Lambda** functions to store data in NOSQL database **Dynamo DB.** Configured REST API's using API Gateway that hit **lambda** which in turn invokes lambdas to do necessary operations.
* Installed Redshift on AWS and imported the legacy data from Oracle to Redshift. Participated in integration of applications with existing API’s.
* Implemented and maintained **Ansible** configuration management spanning several environments in **VMware** and AWS cloud.

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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.