******Rajeshwar**

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**Ready to onsite anywhere in USA**

**ACCOMPLISHMENTS**

Microsoft certified: DevOps Engineer Expert

Microsoft certified: AZ-104: Azure Administrator Associate

Microsoft certified: AZ-400: Designing and Implementing Microsoft DevOps Solutions

The Linux Foundation: Certified Kubernetes Administrator

**B-Tech CSE (JNTUH) – 2013**

**PROFESSIONAL SUMMARY**

* 10 years of professional experience in IT industry comprising of Cloud Management, Configuration and Infrastructure Management, Continuous Integration (CI) and Continuous Deployment (CD), Containerization and Orchestration, Linux/Unix Administrator, best practices of Software Configuration Management (SCM) in Agile, Scrum, and Waterfall methodologies and achieving end-to-end automation.
* Proficient in Microsoft Azure IAAS, PAAS, and SAAS services such as Virtual Networks, Virtual Machines, Azure Data Factory, Blob Storage, Express Route, Traffic Manager, Auto-Scaling, Application Gateways, VPN Gateway, Load Balancing, API Management, deploying App Service and creating Web-Jobs to run background tasks, and monitoring by Azure Application Insights.
* Experience in migrating user’s data using Azure AD Connect and configuring Azure Active Directory. Experience in working with Azure Network Security Groups, Operational Insight and Operations Management Suite (OMS), AZURE Premium Storage, Site Recovery, Network Virtual Appliance, Client-Side encryption for Azure storage objects.
* Proficient in Azure Resource Manager (ARM) to deploy, delete & update multiple resources on Azure cloud using Azure DevOps YAML pipeline and in migrating on-premises resources to Azure with Azure site recovery (ASR) Azure Backups.
* Experience in implementing CI/CD pipeline using Azure DevOps (VSTS, TFS) in both cloud and on-premises with Docker, Maven along with SonarQube and AquaScan on Microsoft hosted agents and Self hosted agents.
* Proficient in configuration of V-net Integration, Hybrid Connection Manager, Web Apps/Function Apps, Logic Apps, Application Gateway, Active Directory, Azure Key Vault, App Insights, Encryption and Security on Azure.
* Experience in deploying AKS clusters with Azure AD integration for authentication/authorization purposes. Created Cluster Roles that defines access permissions to resources and bind those to users and groups from Azure AD.
* Experienced AKS cost-optimization strategies such as using zero-scaled node pools, auto scale spot node pools, Azure policy.
* Designed and implemented complex cloud architectures on GCP to meet business needs and performance requirements and orchestrated multi-tier applications using GCP's infrastructure-as-code and best practices.
* Fine-tuned GCP resources and workloads to maximize performance and cost-efficiency and utilized Cloud Monitoring and Cloud Trace to identify and resolve performance bottlenecks.
* Experienced with Amazon Web Services (AWS) cloud platform and services like EC2, Lambda, DynamoDB, Elastic Load Balancer (ELB), Amazon Machine Image (AMI), Elastic Beanstalk (EB), CloudFront, CloudWatch, Ops Work, Simple Notification Service (SNS), Simple Queue Service (SQS), Glacier, Auto-Scaling, Identity Access Management (IAM), Route53, S3, RDS, Virtual Private Cloud (VPC), Virtual Private Network (VPN), Security-Groups.
* Proficient with AWS Identity Access Management (IAM) for creating roles and groups for users and resources. Implemented Multi-Factor Authentication (MFA) on externally available servers and on AWS Console. Monitoring and alerting leveraging Cloud Watch and Cloud Trail by using ELK.
* Designed AWS Cloud Formation templates to create custom sized AWS VPC, subnets, NAT to ensure successful deployment of Web applications and database templates.
* Worked on POC for Deploying the AWS infrastructure using Terraform, CloudFormation. Created & configured AWS Redshift Cluster for data-warehousing responsible for Security, included opening different ports on security groups and Network ACL.
* Expertise in AWS Lambda to run servers without managing them and to trigger run code by AWS S3 and SNS.
* Expertise in AWS Redshift to implement Data warehouse solutions and worked on several projects to migrate data from one database to AWS Redshift, EMR, AWS RDS, S3 and AWS Dynamo DB.
* Migrated in-house DB to AWS RDS and for High Availability clustering used read-replica data stream so that AWS RDS automatically creates a primary DB instance and synchronously replicates the data to a standby instance in a different AZ.
* Worked on AWS to Azure migration, JIRA to Azure DevOps Migration, GitHub to Azure DevOps Migration along with Experience in configuring and using PaaS offerings (like Azure Database services, Azure Kubernetes, Azure Containers, DNS, Application gateway rerouting, Application Insights, Azure Container Monitors, etc.).
* Experience writing a Docker file to build image and push to Docker registry and in creating network policies for Docker containers using Docker Weave. Worked on container orchestration tools, such as Docker Swarm, Mesos, and Kubernetes. Monitoring and visualizing by using TICK stack.
* Created Docker Swarm using Docker CLI to orchestrate, schedule and deploy the services to Swarm and managed the Swarm behavior. 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.
* Extensively worked 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. Monitoring by using Prometheus and Grafana.
* Adept at Terraform template key features such as Infrastructure as a Code, Execution plans, using Terraform graph to visualize execution plan via the graph command and change Automation. Extensively used Auto Scaling launch configuration templates for launching AWS EC2 instances while deploying microservices and implemented Terraform modules for deployment of applications across Azure.
* Written Templates for Azure Infrastructure as code using Terraform to build staging and production environments. Integrated Azure Log Analytics with Azure VMs for monitoring the log files, store them and track metrics and used Terraform as a tool, Managed different infrastructure resources Cloud, VMware, and Docker containers
* Expertise in deploying true hybrid cloud Continuous Integration and Continuous Deployment (CI/CD) pipeline. When jobs are triggered, dynamic VMs are automatically provisioned using Terraform templates and once jobs are completed, VMs are terminated automatically.
* Experienced in implementing CI/CD using Jenkins and configured DevSecOps strategies, used Static Analysis Security Testing (SAST) and Dynamic Analysis Security Testing (DAST) to eliminate security flaws, vulnerabilities present in the source code and running application.
* Experienced in DevSecOps tools that enable collaboration, configuration management, security enforcement, code quality checks, automated testing, staging, and pushing to production across multiple security boundaries.
* Experienced in Ansible Tower, developing Ansible playbooks for managing the application/OS configuration files in GitHub, integrating with Jenkins, verifying with Jenkins’s plugins, and deploying the application in Linux environment.
* Adept with Chef created Chef Cookbooks, roles, environments, used Chef handlers for different auto kickoff requirement jobs, Berkshelf for dependency management, Test-Kitchen for testing and development.
* Knowledge on designing Puppet manifests and bootstrap scripts to allow instances for various roles without maintaining AMI’s and worked on Puppet for the deployment of servers with custom scripts.

TECHNICAL SKILLS

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| --- | --- |
| Cloud Technologies | Microsoft Azure, AWS, GCP |
| Configuration and Infrastructure | Terraform, Ansible |
| Management Tools |  |
| Continuous Integration and Continuous Deployment Tools | Jenkins, Azure DevOps |
| Build Tools | Ant, Gradle, Maven |
| Container and Orchestration Tools | Docker, Kubernetes, Docker Swarm |
| Version Control/ Source code management Tools | GIT, GitHub, Git lab, Bit Bucket, SVN |
| Monitoring Tools | Prometheus, Grafana, Cloud Watch, Datadog, Dynatrace, Splunk |
| Scripting and Programming Languages | Python, Bash/Shell, PowerShell, Yaml, Perl, Ruby, JSON,Go C, C++, Java, .Net |
| Database | AWS RDS, Mongo DB, Dynamo DB, MySQL, PostgreSQL |
| Application Servers | JBOSS 4.1, WebLogic 9.x/10.x, WebSphere 6.x/7.x/8.x |
| Web Servers | Apache HTTP, Nginx, Apache TOMCAT |
| Network Protocols | DNS, DHCP, FTP/TFTP SMTP, TCP/IP, HTTP/HTTPS, SNMP, WAN, LAN, UDP |
| Operating Systems | Linux, Ubuntu, CentOS, Windows |
| Virtualization Technologies | VMware Workstation, Oracle Virtual box |
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| Repository Management | JFrog, Nexus |
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## EXPERIENCE

**Sr. Azure Cloud Infrastructure Engineer March 2020 to present**

**US Bank | Portland**

* Implemented Azure Active Directory for Single Sign-On access to thousands of cloud SaaS applications like Office 365, Dropbox. Also, configured Web apps/Function Apps, Logic Apps, V-net integration, Hybrid Connection Manager (HCM), Application gateway, Azure Data Lake, Azure Data Factory, App Insights, Active directory, Key Vault, Encryption and Security on Azure
* Built an application environment to operate at high availability in different Azure regions by using Content Delivery Network (CDN), Azure Traffic Manager, Azure Active Directory, App Services, Storage Queues, Cognitive Services, Azure Search, SQL Database, Storage Blobs, and Redis cache.
* Configured and managed Azure Role-based Access Control (RBAC) to separate duties within our team and grant minimum amount of access to users that they need to perform their jobs. Configured Shared Access Signature (SAS) tokens and Storage Access Policies in Azure Cloud Infrastructure by setting up Azure DevOps pipeline with Azure CLI task.
* Contributed to AI projects, leveraging OpenAI and SageMaker for machine learning model deployment.
* Experience in understanding of the modern Technology Stack (K8s, Ansible, Jenkins, Git), batch / streaming jobs, sound understanding in the database operations.
* Collaborated with cross-functional teams to design and execute Ansible playbooks, ensuring consistency in system configurations across the organization.
* Configured Multi-Factor Authentication (MFA) as a part of Azure AD Premium to securely authenticate users and worked on creating custom Azure templates for quick deployments and advanced PowerShell scripting. Deployed SQL DB with GEO Replication, SQL DB Sync to standby database in another region & fail over configuration.
* Deployed and optimized two tier .NET, Java web application to Azure DevOps to focus on development by using services such as Repos to commit codes, Test Plans to trigger application and unit test, deployed artifacts to App Service, Azure Application Insight collects health performance and usage data of the process.
* Responsible for implementing containerized based applications on Azure Kubernetes by using Azure Kubernetes service (AKS), Kubernetes Cluster for cluster management, Virtual Network to deploy agent nodes, Ingress API Gateway, MySQL Databases and Cosmos DB for stateless storage of external data, and setup reverse proxy Nginx in the cluster.
* Proficient in using tools like Terraform and Google Cloud Deployment Manager to automate infrastructure provisioning.
* Develop and deploy AI solutions using OpenAI, Claude 3, Pinecone, SageMaker, and Bedrock.
* Implemented robust security measures, including IAM, VPCs, and encryption, to ensure data confidentiality and compliance and conducted security audits and assessments to maintain a secure GCP environment.
* Managed and version-controlled infrastructure code to ensure reliability and scalabilityManaged Azure Kubernetes Service (AKS) charts using Helm. Created reproducible builds for Kubernetes applications, templatize Kubernetes manifests, providing a set of configuration parameters to customize the deployment and Managed releases of Helm packages.
* Configured private end point for Azure Cosmos DB using Azure Private Link through automatic approval method, and secure data using Network Security Groups policies with ARM templates and Azure DevOps pipelines.
* Designed, configured, and deployed Azure Resource Manager (ARM) templates for a multitude of applications utilizing the Azure stack including Compute, Web App, Logic App, function App, Blobs, ADF, Resource Groups, HDInsight Clusters, Azure Cosmos DB.
* Used Terraform to Setup infrastructure in PCF and Azure Environments. Converted existing Terraform modules that had version conflicts to utilize cloud formation during Terraform deployments to enable more control or missing capabilities.
* Developed Continuous Deployment pipeline by integrating Jenkins with Terraform, developed Modules in Terraform to trigger the Infrastructure on the Azure.
* Created and maintained documentation for Ansible playbooks and PowerVault (ME5) configurations to facilitate knowledge sharing and troubleshooting.
* Created terraform templates for provisioning virtual networks, VM Scale sets, Load balancers and NAT rules and used terraform graph command to visualize execution plan. Used Terraform to deploy the infrastructure necessary to create development, test, and production environments for software development projects.
* Worked on Blue/Green deployment strategy by creating new applications which are identical to the existing production environment by using automation frameworks such as ARM and terraform templates.
* Automated CI/CD pipeline by utilizing Docker Containers, Docker Swarm, and orchestration for a microservice-based application and automated with Ansible playbooks based on YAML.
* Validated deployments in Kubernetes by establishing a local development workflow that used Minikube, implemented Kubernetes interface by creating RESTful APIs to read, delete, store and update bucket information on Kubernetes Console.
* Evaluated Kubernetes for Docker container orchestration and managed Kubernetes charts using Helm and created reproducible builds of the Kubernetes applications, templatize Kubernetes manifests, provide a set of configuration parameters to customize the deployment and Managed releases of Helm packages.
* Worked on Image Creation by using configuration tools like Chef, Ansible and used Packer tool for Packerization using JSON templates. Used Shared Image Gallery to store the images and by using Azure pipelines in Azure DevOps implement all services in Azure.
* Utilize Kafka for event-based systems, ensuring efficient data streaming and processing.
* Manage application authentication and access control with Okta.
* Develop and deploy AI solutions using OpenAI, Claude 3, Pinecone, SageMaker, and Bedrock.Adept in implementing DevSecOps strategies at different stages in Infrastructure and used Static and Dynamic Application Security Testing (SAST & DAST) to avoid any security flaws.
* Designed end-to-end automation of infrastructure and continuous delivery of the applications by integrating Cloud Formation Scripts, Azure Devops Azure& Ansible playbooks.
* Profusely worked on Gitlab, Bitbucket to track changes made by different people in source code and configured GIT with Azure Devops Pipelines and schedule jobs using POLL SCM option.
* Managed Azure Container Registry to store private Docker images, which are deployed and Azure pipelines to build, test, and deployments. Azure Monitor to collect metrics and logs. Configured Monitor to track performance and maintain security, and used Grafana tool to collect metrics, queries.
* Worked with different Bug tracking tools like JIRA. Generated reports using JIRA for creating projects, assigning permissions to users and groups for the project and created mail handlers and notifications schemes for JIRA.

**Sr DevOps Automation Engineer March 2018 – Feb 2020**

**Fisher Investment | Austin Tx**

* Provisioning Azure resources of different providers Compute, Network, Service Fabric, Application gateway using ARM template and implemented and maintained Dev, Test, Staging and Production environments leveraging infrastructure as code using ARM Templates (Infrastructure as code, JSON / YAML config).
* Implemented Enterprise Integration architecture using Azure Service Bus, AppService, Active Directory, Storage, Hybrid connection manager, active directory authentication for Azure SQL server and other services offerings by Azure.
* Working knowledge in the development life cycle. Experience in Java /ETL development will be an add on point
* Migrating on-premises web application to Azure Pipelines by utilizing ARM templates, VPN gateway, site-to-site IPSec/IKE VPN, DNS server Firewall, and Application Gateway.
* Configured and Managed Azure web apps, App services, Azure Application insights, Azure Application gateway, Azure DNS, Azure Traffic manager, Analyzing Networks.
* Worked on creating deployment scripts using PowerShell and automated multiple daily maintenance tasks using PowerShell and served as the PowerShell developer in Windows based migration and automation projects.
* Configured and implemented storage blobs and Azure files - Created Storage accounts, Configured the Content Delivery Network (CDN), custom domain, Managing access and storage access key.
* Setup an App Service Environment (ASE) with six front ends and four Workers behind Barracuda WAF, configured high availability of apps by autoscaling rules on the resource pools. And configured Azure Traffic Manager to load balance across Azure data centers and regions.
* Created cloud modules for interacting with Azure services which provides the tools to easily create and orchestrate infrastructure on Azure and automated cloud-native applications in Azure using Azure microservices such as Azure functions and Kubernetes on Azure Ansible.
* Set up Docker to automate container deployment through Jenkins and Dealt with Docker Hub, making Docker Images and taking care of various Images essentially for middleware establishments.
* Configured applications that run multi-container Docker applications by utilizing the Docker-Compose tool which uses a file configured in YAML format and used Kubernetes to manage containerized applications using its nodes, Config-Maps, selector, Services, and deployed application containers as Pods.
* Designed strategies for optimizing all aspects of the continuous integration, release and deployment processes using container and virtualization techniques like Docker and Kubernetes.
* Worked on Jenkins CI/CD pipeline jobs for end-to-end automation to build, test and deliver artifacts and troubleshoot the build issue during the Jenkins build process.
* Used Ansible to configure and manage infrastructure, created Playbooks to automate the configuration setups, Established Ansible Best practices approaches to system deployment with tools with Vagrant and managing Ansible - Playbooks as a unit of software deployment and independently version controlled.
* Hands on experience in scripting of administration tasks using CLI, Java python, YAML, PowerShell, Shell, and Ruby. Built upstream and downstream jobs in Jenkins to build and deploy onto different environments.
* Developed Build and Deployment Scripts using build tools like MS Build, Gradle in Jenkins to migrate from one environment to another environment and utilized Nexus for artifacts and SonarQube for code analysis.
* Monitored the servers and applications health status using Splunk, responded to alerts, and configured threshold settings. Also Configured Splunk to monitor Linux servers with Ansible automation.

**AWS-Cloud DevOps Engineer October 2016 – February 2018**

**Silicon Valley Bank | Plano TX**

* Configured AWS application deployment infrastructure using sources, i.e., Virtual Private Cloud (VPC), EC2, Elastic Bean Store (EBS), Identity Access Management (IAM), S3, Dynamo DB, Mongo DB, Route53, Simple Notification Service (SNS), Simple Email Service (SES), Simply Queue Service (SQS), CloudWatch, CloudTrail, Security Group, Auto Scaling Group (ASG), and RDS using CloudFormation, Terraform templates.
* Created required reliable architectures and end-to-end migration plan for migrating Linux/Windows servers along with web applications into AWS cloud platform using services as IPSec tunnel, VPN gateway, Customer Gateway, and Data Pipeline.
* Designed Kubernetes cluster using AWS-Kops (EKS) and configuring and deploy the Kubernetes dashboard to access the cluster via its web-based user interface.
* Managed multiple AWS accounts with multiple VPC's for both production and non-production where primary objectives included automation, build out, integration and cost control.
* Involved in analysis, architecture Design and creation of Virtual Private Cloud (VPC), Elastic compute cloud (AWS EC2 instance), FTP server with Elastic IP, Load Balancer, sending email and pager duty services when new instances launch using cloud watch.
* Created S3 buckets and managed policies for S3 buckets and utilized S3 Buckets and AWS Glacier for storage, backup and archived in AWS and in setting up and maintenance of Auto-Scaling AWS stacks.
* Designed roles and groups for users and resources using AWS Identity Access Management (IAM) and implement Multi-Factor Authentication (MFA) on externally available servers and on AWS Console, monitoring and alerting leveraging AWS Cloud Watch and Cloud Trail.
* Executed Lambda functions in Python to invoke scripts for data transformations and analytics on large data sets in EMR clusters and Kinesis data streams and call Dynamo DB by REST API.
* Automated the implementation of AWS VPCs, ELBs, security groups, SQS queues, S3 buckets by using Terraform and used Terraform as a tool to manage different cloud infrastructure resources, i.e., VMware, and Docker containers.
* Configured cluster operations in AWS Kubernetes (EKS) to deploy microservices with CI/CD system and used Kubernetes cluster to scale up operations of clusters, maintain the cluster services, load balancing, network policies, group Docker containers across different platform.
* Automated CI/CD pipeline by utilizing Docker Containers, Docker Swarm, and orchestration for a microservice-based application and automated with Ansible playbooks based on YAML.
* Integrated Docker container-based test infrastructure to Jenkins CI/CD test flow and executed build environment by integrating with Gitlab and Jira to trigger builds using WebHooks and Slave Machines.
* Installed and configured ELK stack in both legacy and Docker Swarm mode and developed pipeline for application logs from App Server to Elastic search through Logstash and used logs aggregation tool ELK configuration and administration for monitoring EC2 instances.
* Created AWS OpsWorks platform to integrate Ansible process to deploy codes, various DB configurations to modularize and optimize product configuration.
* Upgraded various CI/CD tools Jenkins using SDLC process and supported upgrading the software patches and worked with the vendor for any issues to completion.
* Set up Jenkins’s server and built jobs to provide continuous automated builds based on polling the GIT SCM during the day and periodically scheduled the builds overnight to support development.
* Automated MySQL container deployment in Docker and monitoring of these containers and configured, monitored distributed and multi-platform servers using Nagios.
* Used Shell, Bash, and Python scripts to supplement automation provided by Ansible and Terraform for encryption.
* Developed and maintained automated security testing pipelines, incorporating tools like static code analysis, dynamic application security testing (DAST), and container scanning to identify vulnerabilities early in the development cycle.
* Implemented Terraform modules for deployment of applications across multiple cloud providers. Worked with Terraform key features such as Infrastructure as code, Execution plans, Resource Graphs, Change Automation. Hands on experience in writing Terraform modules to manage AWS infrastructure, for automatic creation of RDS instances, VPCs, Autoscaling groups, Load balancers, SQS, S3 buckets.
* Created database tables that can store and retrieve any size of data and serve any level of request traffic using DynamoDB. Configured commercial SSL certificates for Application Servers such as WebSphere, WebLogic, Tomcat using NGINX and Apache web servers to terminate SSL endpoint.
* Set up JIRA as defect tracking system and configured various workflows, customizations, and plugins for bug/issue tracking.

**Build and Release Engineer Nov 2015 – September 2016**

**TSYS | Cumming, Georgia, Atlanta**

* Build and release engineer role includes Middleware automation, Release management, Environment Management Continuous integration, Continuous deployment, Incident management, Version management. Continuous integration, Continuous deployment, Incident management and Version management.
* Created and managed CI/CD pipeline Using Jenkins, Nexus, GitLab to improve the efficiency and produce or release bug free or highly effective applications to the end users or customers.
* Worked with Engineers, QA, and other teams to ensure automated test efforts are tightly.
* Experience in integrating Unit Tests and Code Quality Analysis Tools like JUnit, Cobertura, PMD, Findbugs and Checkstyle.
* Integrated with the build system and in fixing the error while doing the deployment and building.
* Integration of Puppet with Apache and developed load testing and monitoring suites in Python. And maintained.
* Created a custom puppet module skeleton to use same structure across all puppet modules. And Developed Puppet scripts for an automated server provisioning and reducing the time between provisioning and deployment from over 3 hours to less than 10 minutes.
* Maintained build related scripts developed in shell for ANT and Gradle builds. Created and modified build configuration files including Build.xml.
* Resolved update, merge and password authentication issues in Bamboo and JIRA.
* Installing, upgrading, and configuring Linux Servers using Kickstart as well as manual installations and the recovery of root password.

**Linux Administrator September 2013– July 2015**

**HDFC | Hyderabad, India**

* Created and maintained Python scripts for Automating Build and Deployment Process. Utilized Nagios based Open-Source monitoring tools to monitor Linux Cluster nodes.
* Developed the Shell scripts, Ruby scripts, and python scripts to automate the system level activities and to run the API calls and parsing through the outputs of the REST API calls.
* Administered Linux servers for several functions including managing Apache/Tomcat server, mail server, MySQL database, and firewalls in both development and production.
* Responsible for building and supporting Solaris/Linux/AIX/HP-UX servers.
* Used various Core Java concepts such as Exception Handling, Collection APIs to implement features.
* Creating and maintaining client's data interface utilizing SSH File Transfer Protocol.
* Installation and configuration of Web hosting administration such as HTTP, FTP, SSH, RSH.
* Installation of patches, security fixes and packages on AIX and Linux servers