**Jashwanth Reddy**

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**PROFESSIONAL SUMMARY:**

* Azure, Aws, Cloud, DevOps Engineer with Around **9+ years** of experience in Linux environment, automation of build tools, configuration management tools following Agile methodology and Software Development Life Cycle including monitoring, configuration, troubleshooting and maintenance in cloud and DevOps Environment with Continuous integration and Continuous Delivery process.
* Experience in AWS operations and automation using CLI or APIs for various services like EC2, EBS, S3, Glacier, VPC, Route53, Cloud Formation, Cloud Front, OpsWorks, RDS, DynamoDB, ElastiCache, ELB, Auto scaling etc.
* Experience in migrating on-premise infrastructure to cloud platforms like Azure, AWS, PCF, and OpenStack.
* Expertise in infrastructure development and operations by involving in designing and deploying using AWS services like s3, EBSRoute53, ELB, cloud watch monitoring, AMI, VPC, IAM, cloud formation templates, cloud front, AWS EC2 Instance, DNS.
* Worked with APIGEE Edge, Developer Portal & APIGEE Baas platform.
* Worked with Kafka Admin team to set up Kafka cluster setup on the QA and Production environments and implemented to reprocess the failure messages in Kafka using offset id.
* Experience on Multiple AWS instances, Creating Elastic Load Balancer and Auto scaling to design fault tolerant, highly available and cost-effective systems.
* Managing Azure Cloud Infrastructure which includes Azure Web Roles, SQL AZURE, AZURE Storage, Azure Web Roles, Worker Roles and AD licenses with Service Fabric, Containers, Resource Manager, ARM automation, Key Vault, Encryption and Security.
* Demonstrated experience in transforming IT infrastructure and moving an organization toward a mature cloud-based (AWS/Azure) service delivery model.
* Experience in writing Infrastructure as a code (IaC) in Terraform. Created reusable Terraform modules in Azure environment.
* Possess deep experience in the design and implementation of fully automated Continuous Integration, Continuous Delivery, Continuous Deployment (CI/CD) pipelines and DevOps processes for agile projects using Jenkins and Azure DevOps.
* Experienced in productivity & efficiency enhancing tools implementation, administration & management in areas covering Static Analysis, Requirements Management, Defect Tracking, Quality Code Coverage and Code Reviews
* Expertise in implementing, configuring, securing, Load balancing, and administrating scalable cloud environments.
* Impressive success in planning, build, configuration, release, and deployment of applications across DEV, UAT, Pre-Production & Production environments.
* Acted as Subject Matter Expert in AWS/Azure Public cloud, including professional experience in architecting and operating solutions built on AWS/Azure.
* Hands on with Azure services but not limited to Virtual Networks, VPN Gateway, Virtual Machines, Resource Groups, VPN, Azure Storage, Azure DB services, Azure Functions, Azure Key vault, Azure App Service, Azure Load Balancing, Application Gateways, Auto-Scaling, AKS, Azure Container Service (ACS), Azure Container Registry, Azure DNS, Azure Monitor.
* Hands on experience in working with Azure container service for deploying the containers.
* Proficiency in using Docker Hub, Docker Engine, Docker images, Docker Weave, Docker Compose, Docker Swarm, and Docker Registry.
* Hands on experience with Docker Hub, Azure Container Registry and Google Artifactory.
* Expertise in container-based technologies like Docker, Kubernetes, and OpenShift along with the development of Microservices architecture using Spring Boot including distributed SSO Authentication and Authorization, Distributed Session Management with REST, JSON.
* Experience working with log monitoring tools like ELK Stack, Nagios, Splunk, Prometheus, Grafana.
* Designing, installing, administering, and optimizing hybrid cloud components to ensure business continuity (i.e., Azure AD, ADFS, SSO & VPN Gateways); worked with Virtual machines, virtual network, SQL database, traffic manager, storage, ExpressRoute, Automation on Windows Azure platform services.
* Used OpenStack APIs and sdks for Nova, Neutron, Cinder, Swift, Glance, Keystone etc. to manage OpenStack resources for applications running inside data center.
* Expertise in implementation of Office 365 and Azure Active Directory for single sign-on, authentication, authorization and Azure Role-based Access Control (RBAC). Deployment of AD, Identity & Access Management, Azure Multi Factor Authentication, Azure Trust Center.
* Expertise in migrating cloud infrastructure from on premise to Azure, creating Azure ARM Templates, Virtual Networks, Virtual Machines, creating Web Roles, worker Roles, Azure storage, used Microsoft server(2008/12/R2) Azure to deploy using ARM templates, Microsoft SQL Server, Microsoft Visual Studio, Active Directory and Cloud infrastructure.
* Experience with Pivotal Cloud Foundry (PCF) architecture and design, troubleshooting issues with platform components, and developing global/multi-regional deployment models and patterns for large scale developments/deployments on Cloud Foundry and AWS.
* Managing Amazon Web Services infrastructure with automation and configuration management tools such as Chef, Puppet or custom-built.
* Excellent hands-on experience in installation, configuration and troubleshooting the issues and performance tuning of WebLogic/Apache and Tomcat.
* Used Ansible to manage Web applications, Environment’s configuration files, packages, Mount points and users. Also, to create AWS instance, configuration management, and software deployment. Created and used Ansible Playbooks in Ansible Tower and integrated Ansible tower with Jenkins to deploy code to different servers.
* Expertise in configuring Chef Server, Workstation and bootstrapping Nodes, wrote Chef Cookbooks and recipes using Ruby script. Performed testing with kitchen and unit testing.
* Used Chef to manage configuration on connected server. Managed the configurations of multiple servers using chef and bootstrapped instances and integrated with auto-scaling.
* Expertise in Maintenance of Source Control Management Systems such as GIT and Subversion, strong experience with Continuous Integration and Continuous Deployment methodologies with GIT, Jenkins, SonarQube and Nexus repository.
* Experience on scripting languages like Shell, Perl, Python, PowerShell, Ruby, Bash. Ability in development and execution of XML, Shell Scripts and Perl Scripts.
* Skilled with Linux Utilities: Kickstart, SSH, User Management, Process Management, Memory Management, and Text processing tools, Log Management, Package Management, Disk Management and Swap Partition/Files Management.
* Expertise in installing, configuring, and management of MYSQL, SQL Server 2008/2012/2014, PostgreSQL, MongoDB & Cassandra.
* Expertise Achieving High Availability with the help of monitoring tools like (SPLUNK, ELK, Kibana and New Relic) and automated Logstash (ELK Stack) as a part of Server Build and building Elastic search (ELK Stack).

**TECHNICAL SKILLS:**

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| Operating Systems | Linux (RedHat, CENTOS), Unix, Solaris, Ubuntu, Windows, MacOS. |
| Version Control | GIT, GITHUB, Bitbucket, GitLab, AWS Code Commit |
| Configuration and Management Tools | Puppet, Ansible, Chef, Kubernetes, Terraform |
| Cloud Environments | AWS, Azure, GCP |
| Virtual Servers | VSphere, VMware Virtual Center and VMware ESX Servers. |
| Scripting Languages | Shell Scripting, Bash, Python and YAML, JavaScript, Core Java JSON. |
| Ticket/Monitoring Tools | JIRA, Splunk, Nagios, ELK, AWS Cloud Watch. |
| Database | MySQL, Oracle, DB2, MongoDB, SQLite, PostgreSQL. |
| Web Server/Application Servers | Tomcat, Apache, Application Server, IIS, Oracle WebLogic. |
| Container Orchestration | Kubernetes, Docker, Docker Swarm, AWS Fargate. |
| CI/CD Tools | Jenkins, Maven, Gradle. |

**EDUCATION:**

* Bachelor of Engineering in Electronics and Communication Engineering from Osmania University 2012
* Master of Science in Information Technology, University of Cincinnati 2014

**WORK EXPERIENCE:**

**Client: Amazon, Austin, TX Jan 2022 – Present**

**Role: Cloud Engineer (Azure)**

**Responsibilities**:

* Operated from both a technical/programming perspective and a business point of view and communicated strategies and solutions with non-technical team members and helped to catch bugs in the software. Involved in analyzing business application requirements for functional areas such as finance, manufacturing, marketing, or human resources.
* Ability to configure, automate, harden, and deploy Azure PaaS Services (e.g., Functions, Storage, Logic Apps, WebApps, Power Automate, ADLS, Data Factory, etc.) and Strong understanding of DevOps practices including CICD, Pipelines, Configuration Management, ARM templates, GIT, Azure Automation Understanding of Azure AD, and common Cloud authentication patterns.
* Implemented Microservices, application development, and migration using Azure services such as Azure DevOps, Kubernetes Service (AKS), Container Registry, Cosmos DB, and Grafana, Azure pipelines, Monitor, RBAC, Kubernetes API to run workloads on EKS Clusters.
* Azure DevOps services to create boards, backlog plans, create product backlog, even work on boards creating analytics-based widgets or dashboards, charts for tracking status, charts for manual testing progress with Azure DevOps services.
* Have good understanding of ELK stack development from scratch and worked on ELK nodes setup and understanding of different kind of ELK nodes. Have good understanding of Kibana and Kibana Dashboard implementation.
* 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.
* Involved in managing Private, and Hybrid cloud configurations and practices in Windows Azure and SQL Azure and in Azure Web and Database deployments. Upgraded and Migrated web applications to latest .Net framework versions and Azure platforms.
* Implemented Pipeline for Blue Green Upgrade strategy for AKS.
* Enabled highly secure and reliable communication between Internet of Things (IoT) application and the devices it manages. Experienced in Azure IoT Central, like to reduce the cost and burden of IoT management and operations.
* Worked on Azure/on-premises AD, authentication, and authorization with OIDC and OAuth2 methods and have experience of working on Azure key vault/Kubernetes secrets/HashiCorp vault.
* Worked with data engineering team determining the requirements, translate it to design and develop ADF (Azure Data Factory) pipelines. Maintain and manage code with Azure DevOps. Implement secure integration with data sources using Azure Key Vault, Managed Identity, and Private Links.
* Design Blue Green deployments along /W automating Jenkins jobs to deploy code, traffic routing in Route53.
* Designed, configured, and deployed Microsoft Azure for a multitude of applications utilizing the Azure stack and terraform focusing on high - availability, fault tolerance, and auto-scaling.
* Worked on migrating from Azure Application Gateway v1 to v2 with zero downtime in the production, ensuring only secured cipher suites for TLS v1.2 listed in the SSL policy of app gateway.
* Experienced in configuring Azure Securities including the configuration of WAF, identity and access control, key secrets and certificate management and securing App service-based applications.
* Involved in migrating Ansible playbooks to Helm charts to deploy services in Azure Kubernetes Services (AKS) and setup using Azure DevOps instead of Jenkins.
* Handled migration of on-premises applications to the cloud and created resources inside cloud and deployed OpenStack hosted applications on Azure platform and issues related to RDP of Azure Infrastructure.
* Written automation scripts in Shell for configuring logging, monitoring agents on system and application level.
* Worked on Managing/Tracking the defects status by using JIRA tool and planning & resolving the issues as per SLA.

**Environments**: Azure, Terraform, Kibana, New Relic, JIRA, YAML, Bitbucket, Jenkins, Docker, Kubernetes, ELK, Kafka, Ansible, Splunk, Maven, Gradle, Python, Chef, .Net, Azure, Nexus, CI/CD, Shell, GIT, Service Now, GitHub, SVN, Autoscaling, Load Balancers, Linux, C++, Grafana, Java, JavaScript, Azure, Azure PaaS, Azure SQL, Azure ADF, Ansible, ELK stack, AKS, Jira, WebApp.

**Client: Magellan Health, Maryland Heights, MO Jan 2021 – Nov 2021**

**Role: Cloud Engineer (Azure)**

**Responsibilities**:

* Managed projects as necessary while leading the team, along with code deployments, fixes, updates and related processes.
* Coordinated with architects and engineers of other areas to design networks, systems, storage environment that effectively reflect business needs, security requirements, and service level requirements.
* Provisioned and managed different cloud services of Azure based on the customer requirements.
* Managed GIT Configuration, Branching and Merging, resolved conflicts, Push changes, etc.
* Integrated GIT into Jenkins to automate the code check-out process and continuous integration system.
* Configured web hooks in Bit bucket to trigger automated builds in Jenkins.
* Used Azure container service (ACS) to deploy and manage containers using popular container orchestration systems such as Kubernetes and Docker Swarm.
* Extensively used Azure Key vault in the Azure ecosystem for securing and managing sensitive data, and to comply with industry-specific regulations and standards.
* Used PowerShell not limited to creating key vault, add and remove a secret from the key vault, encrypt and decrypt the data using key vault.
* Implemented custom RBAC roles, Resource Group polices based on customer requirements to manage the user access.
* Created and attached managed identity to establish secure connectivity between two resources of Azure cloud environment.
* Configured and managed more than ten CI/CD pipelines to deploy different kinds of application running on JAVA, .Net using Jenkins and Azure DevOps.
* Configured and maintained Jenkins to implement CI/CD process and integrated with Maven and Gradle to schedule the builds and SonarQube to scan the vulnerabilities.
* Created Jenkins CICD pipelines for continuous build and deployment and integrated Junit and SonarQube plugins in Jenkins for automated testing and for code quality check.
* Configured Azure DevOps Pipelines for Pushing NuGet Dependencies into Jfrog antifactory and later utilize them in various applications.
* Installed build agents on build servers and configured agent queue, agent pools on Azure DevOps server to support Build and release pipelines.
* Integrated code scan tools like SonarQube, fortify code Analyzer on Azure DevOps Build server and integrate the scan tasks in the build pipeline to resolve code vulnerabilities.
* Written reusable templates using Terraform to build staging and production environments on Azure.
* Provisioned Kubernetes clusters using Azure virtual machines using Terraform.
* Provisioned managed Kubernetes clusters like EKS and AKS by using Terraform.
* Used Kubernetes to orchestrate the deployment, scaling, and management of Docker Containers.
* Troubleshooted different kinds of Kubernetes pod issues.
* Worked with different resources of Kubernetes such as Deployments, Replica sets, volumes, resource limits, Config Maps Secrets, Certificates to effectively manage the micro services environments.
* Worked with Kubernetes networking through services like NodePort, ClusterIP and Load Balancer.
* Achieved Kubernetes cluster security by implementing RBAC’s, network policies and audit logging.
* Managed Kubernetes charts using Helm and created reproducible builds of the Kubernetes applications, managed Kubernetes manifest files & releases of Helm packages.
* Experienced in creating pods and clusters using templates in Kubernetes and deploying using Helm chart.
* Managed Kubernetes charts using helm and created reproducible builds of Kubernetes applications.
* Setup Git Ops operator using ArgoCD for automatic deployment of Microservices applications to a Kubernetes cluster.
* Experienced with Agile-Scrum methodologies, effectively involved in sprint backlog refinement, meetings to smooth user stories flow.
* Coordinated with product owner, scrum master to refine the backlog and understand the project requirement.

**Environment:** Git, Jenkins, Microsoft Azure, Azur Key vault, Azure DevOps, Terraform, Ansible, Dockers, Kubernetes, Helm, ArgoCD, Python, ELK, Prometheus, Grafana, Data dog, Service Now.

**Client: Camping World Holdings, Lincolnshire, IL Jul 2018 – Dec 2020**

**Role: DevOps Automation Engineer**

**Responsibilities**:

* Deployed and managed many servers utilizing both traditional and cloud-oriented providers like VMware and Amazon EC2 with the Chef and Puppet Configuration management through initial technology development, and into production and maintenance.
* Designed and deployed AWS solutions using EC2, S3, RDS, EBS, Elastic Load balancer, Auto Scaling groups.
* Developed AWS Cloud formation templates for service like S3, DMS, Ec2, ELB, KMS etc...
* Configured Apache and Tomcat chef recipes with MySQL, database and creating the password authentication for creating and maintaining web applications.
* Expertise in Database migration from On-prem to AWS Cloud target data systems (RDS, S3) using AWS DMS service, AWS Glue.
* Built end to end Pipeline process to provision the cloud infrastructure using the Terraform as an infrastructure as a code tool (IAC), GitLab, Jenkins.
* Experienced in using the Prisma Cloud to identify the Cloud Security and Vulnerabilities and auto-remediating the security gaps by modifying the Prisma API.
* Used Jenkins and Gradle in build and release management for continuous integration and continuous deployment.
* Managed Virtual Servers and pushed all configuration management into Chef from Puppet to allow for rapid roll-out of new infrastructure.
* Configured Jenkins with Gradle and GitHub and performed GIT cloning for updated code and build with Gradle scripts.
* Used Gradle build tool by writing custom tasks and classes for project build automation and integrated with SONAR to measure software quality over time.
* Created Gradle custom and enhanced tasks for executing vagrant commands in order to automate deployment process.
* Wrote Gradle build for test automation supporting unit, integration, and functional tests.
* Secured Jenkins by managing Credentials and installing and upgrading necessary Plugins.
* Maintained Jenkins Backup by using Plugins and implemented build-slaves to manage the system.
* Scheduled the builds, linked the builds both upstream and downstream in Jenkins.
* Created Jenkins Parameterized builds and Build-Slave scripts and tools to simulate the traffic types and workloads of enterprise applications.
* Maintained GIT/ Subversion repositories for version control code and updating the new versions.
* Built Web farm for development and testing and implemented custom network in Docker container.
* Created playbooks for OpenStack deployments and bug fixes with Ansible
* Wrote recipes with PowerShell for installing and configuring IICS webservers and used Site Core for web content management and automation.
* Worked with the infrastructure and development teams, participated in and validating technology decisions.
* Worked with System Administration, DB and Network teams to resolve issues.

**Environment:** AWS, Python, C++, Docker, Kubernates, IICS, Kafka, Ansible, Jenkins, Gradle, PowerShell, Chef, Git, GitLab, SonarQube, API,

**Client: Moody's Investors Service, NYC, NY Feb 2017 – June 2018**

**Role: Infrastructure Engineer**

**Responsibilities:**

* As the member of the release engineer group, redefined processes and implemented various tools for software builds, patch creation, source control, and release tracking and reporting, on Linux platform.
* Worked Primarily on RHEL, CentOS Operating Systems.
* Experience in using Boto3 python libraries integrating with Ansible and Terraform for managing EBS volumes and scheduling Lambda functions for AWS tasks.
* Worked closely with the Development team to maintain proper versioning of the source code in GitLab to revert whenever required.
* Designed, implemented and tested the Spring Domain Model for the services using Core Java.
* Worked in all areas of Jenkins setting up CI for new branches, build automation, plugin management and securing Jenkins and setting up master/slave configurations.
* Handling the day-to-day Operations, install software, apply patches, manage file systems, monitoring performance and troubleshoot alerts.
* Experience in Centralized Automation and Centralized Management with Ansible and implemented Ansible to manage all existing servers and automate the build configuration of the new servers.
* Experience in troubleshooting on Ansible related implementation and playbook executions.
* Handling LVM related tasks, Creating, resizing LVM, Veritas Volume manager and managing Cluster environment using Veritas Cluster suite.
* Handling the day-to-day Operations, Troubleshooting& Solve Server Problems in LINUX.
* Installing and configuring RedHat Linux locally or over the network-kick start- (nfs, ftp, and http).
* Managed patches configuration, version control, service pack and reviews connectivity issues regarding security problems.
* Maintaining Server and Systems, provide IT support to Users, regularly manage backup process for Server and Client data.
* Monitoring system performance, Server load and bandwidth issues.
* Work with DBAs on installation of DB, restoration, and performance tuning.
* Installed and configured VNC server/client.
* Implement the policies for the users of the computer system and network.

**Environment:** Linux, GitHub/Bit Bucket, Yaml, Json, Shell and Perl scripts, SAN, SUSE 9,10, RHEL 5.x, RAID, CentOS 5, Windows2008, Logical Volume Manager, FTP, SFTP, SSH, RPM, YUM, LAN, VMware.

**Client: M&T Bank, Buffalo, NY Jan 2014 – Dec 2016**

**Role: AWS DevOps Engineer**

**Responsibilities**:

* Worked in Agile modeled software development life cycle.
* 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.
* Established infrastructure and service monitoring using Prometheus and Grafana.
* Involved in Designing and deploying AWS solutions using EC2, S3, EBS, Elastic Load Balancer, and Auto scaling groups. Maintained the user account IAM Roles, VPC, RDS, SQS and SNS services in AWS cloud.
* Worked on Terraform for managing the infrastructure through the terminal sessions and executing the scripts and in creating alarms and notifications for EC2 instances using Cloud Watch.
* Migrating Services from On-premises to Azure Cloud Environments, collaborate with development and QA teams to maintain high-quality deployment.
* Designed, deployed, maintained and lead the implementation of Cloud solutions using Microsoft Azure and underlying technologies.
* Monitoring the application stack (MySQL, Tomcat, OS Custom apps) via New Relic and Nagios.
* Deployed Azure IaaS virtual machine (VMs) and cloud services and storages by Azure power-shell.
* Crafted Ansible playbooks, roles, include statements, vars, modules, check mode (dry run) and to automate the installation of docker-engine, docker swarm cluster.
* Worked on Docker containers, Docker consoles for managing the application life cycle structures and managing containers in AWS ECS.
* Used AWS bean stack for developing and scaling web applications and servers developed with Java, PHP, NodeJS, Python, Ruby and Docker.
* Configure Jenkins jobs and pipelines using DevOps, Git, Gradle, Maven, MS - Build, Jenkins, SonarQube, JFROG Artifactory, which includes build and deployment of Java applications to WAS Server, .Net applications to IICS Server.
* Implemented a production ready, load balanced, highly available, and fault tolerant Kubernetes infrastructure.
* Continuing architectural changes to move software system offerings to a distributed, service-based architecture utilizing Docker and Kubernates technologies.
* Implementing a Continuous Delivery framework using Gradle, Jenkins and Ansible in Linux environment.
* Automating configuration management using Salt Stack.
* Installed, Managed and Configured monitoring tools such as Splunk, Nagios and Cloud Watch for monitoring the logfiles, Network Monitoring, log trace monitoring and the hard drives status.
* Excellent knowledge of FISMA, Fed RAMP, Cloud Computing, Information Assurance, IT Audit, Privacy and security processes, tools and methodologies.
* Developed and performed security compliance in line with Cloud Computing FEDRAMP.
* Designed and worked with team to implement ELK (elastic search, log stash, Kibana And New Relic) Stack on AWS.
* Proficient in PowerShell scripting and strong experience with ASP.NET MVC, C#, Visual Studio.
* Experience in working with GIT to store the code and integrated it to Ansible Tower to deploy the playbooks.
* Expanded Experience in Network Management like DNS, NIS, NFS, LDAP, TFTP and system troubleshooting skills.

**Environment:** AWS, Kubernates, Docker, Azure, Cloud Watch, Splunk, Kibana Ruby, Python, Grafana, ASP.NET, C#, ELK, Git, Ansible,