Name : **Venkata Srinivas Mukkaala**

Phone : **929-499-5932**

Mail: venkatm.dev5[@gmail.com](mailto:Kalpana.pratu.v@gmail.com)

**PROFESSIONAL SUMMARY:**

* Overall having 8+ years of IT experience in which includes as Devops Engineer ,Automating, configuring and deploying instances on Azure and AWS cloud environment , Identity & Access Management and implementing Continuous Integration and Continuous Deployment ) in runtime utilizing several tools like Jenkins, Ansible, Chef, Docker, VSTS, Git, Maven and Kubernetes.
* Good experience with complete software development life cycle (SDLC) with different software development models like Agile, Waterfall models, Scrum Model, JIRA.
* Proven expertise in Automation, Build/Release Engineering and Software development involving cloud computing platforms like Microsoft Azure, Amazon Web Services (AWS),
* Strong experience in developing VM’s, VNET,STORAGE ACCOUNT,AKS ,NSG, KEY VALUT, Load balancer, Azure APIM and COSMOS DB, Azure Kubernetes (AKS), Express Route, Traffic Manager, Application Gateway, Auto Scaling.
* Developed and documented threat models for critical Azure resources, including VM's, Webapp's, Databases, AKS, Storage account, Azure Functions.
* Implemented Security measures within the CI/CD pipeline, integrating security testing tools like SonarQube and Checkmarx to identify and address vulnerabilities early in the development process.
* Hands on experience in designing, administering, and supporting Azure environments, including IaaS and PaaS.
* Good experience in Azure Networking, Azure Virtual Networks, Azure Network Security Groups (Firewalls), and general administration of Azure IaaS.
* Created Perl scripts for troubleshooting and debugging infrastructure and application issues, enhancing incident response and resolution times.
* Experience and expertise in managing API Gateway services within the Azure and AWS cloud platform.
* Developed Python scripts to automate routine tasks, resulting in a 30% reduction in manual effort.
* Developed Python automation scripts to provision, configure, and scale cloud resources on AWS and Azure.
* Strong Experience in managing Various Cloud Infrastructure including Kubernetes and Docker. Implemented high scalability, high availability and zero downtime, dynamic failover Kubernetes Cluster in multi-region with state of the art monitoring and reporting mechanism.
* Experience in creating, configuring and maintaining CI/CD Pipelines using YAML in Azure devops and deploy containerized applications to AKS clusters.
* Experience in Deploying AKS clusters using YAML manifests to create many services like Pods, deployments, auto scaling, Load balancers, labels, Health checks, Name Spaces, ConfigMap and ingress resources.
* Strong experience in planning and executing migrations from on-premises data centers to using Azure Database Migration Service.
* Developed and implemented Azure-specific security policies and governance frameworks to ensure compliance with industry standards and regulations.
* Experience in Integrating Azure Databricks with CI/CD pipelines in Azure Devops and implement end-to-end data pipelines automation.
* Securing the storage account keys and Database connection strings by configuring the Azure key vault.
* Experience in Provisioning Infrastructure in Azure and Aws using Terraform, PowerShell and ARM Template.
* Implemented a robust DevSecOps strategy to ensure secure access to applications by seamlessly integrating OKTA (IAM) and Single Sign-On (SSO) functionality using Azure Active Directory (AD). Defined and enforced Role-Based Access Control (RBAC), Conditional Access Policies, and Multi-Factor Authentication (MFA) within the Azure AD environment to enhance the overall security posture.
* Strong experience in developing Cloud VMs with AWS EC2 command-line clients and worked on services like RDS, SNS, SWF, EC2, S3, Glacier, ELB (Load Balancers), and EBS.
* Extensive experience in setting up CICD pipeline integrating different tools with Jenkins to build and run Terraform jobs in order to create infrastructure in AWS.
* Experience in Deploying and monitoring Microservices on Various Platforms like AWS ECS, AWS EKS. Developed Kubernetes Pod definitions, Deployments and used Helm Charts to version control complete Deployment Strategies.
* Experience in creating Ansible playbooks, Puppet manifests, Chef Cookbooks to provision Apache webservers, Tomcat servers, Nginx and other applications.
* Designed and implemented Go-based automation scripts and tools to streamline deployment, configuration management, and monitoring processes.
* Experienced in writing Terraform modules for automation and created VPC-VPN connections from data center to Prod environment and Cross account VPC Peering. And launching EC2 instances through Terraform.
* Experience working on Version Control Tools GIT, SVN and Azure Repo’s to track changes made by different people in source code involving concepts like Branching, Merging, and Tags.
* Experience with IT infrastructure monitoring tools like Nagios, CloudWatch, Splunk, Prometheus and Grafana.
* Created master and slave Configurations to implement multiple Parallel builds by installing Jenkins monitored software, hardware and middleware updates and utilizing plugins like ANT,MAVEN, GIT and Custom Plugins.
* Worked on integrating GIT, Bitbucket, TFS, SVN with Jenkins and scheduling jobs by using Poll SCM and integrate in code checkout processes.
* Experienced in writing Terraform modules for automation and created VPC-VPN connections from data center to Prod environment and Cross account VPC Peering. And launching EC2 instances through Terraform.
* Experience with Java 8 features such as Lambda Expressions for making inline function calls by using Functional Interfaces which makes code readable and concise.
* Efficient in writing Jenkins CI/CD pipelines to drive all Microservices builds and also creating Groovy Scripts for setting up CI for new branches, build automation ,plugin management and securing Jenkins.

**TECHNICAL SKILLS:**

|  |  |
| --- | --- |
| **Scripting Languages** | Shell scripting, Perl scripting ,PowerShell, Bash, SQL, and Python, Groovy |
| **Cloud Platform** | Azure Cloud (Azure Networking, Azure Virtual Networks, Azure Network Security Groups (Firewalls), Azure Web Apps, Functions, Blob Storage, Azure Active Directory, Application Gateway, APIM, Data Factory, Databricks),AWS (EC2, VPC, ELB, RDS, Route 53, ECS, EBS, Cloud formation, Docker, AWS Config), |
| **Configuration Tools** | Chef, Puppet and Ansible |
| **Containerization Tools** | Docker, Kubernetes |
| **Programming Language** | Java, Spring Boot |
| **Build Tools** | Ant, Maven, MS Build, Gradle |
| **Monitoring Tools** | Azure Monitor, Log Analytics, AppInsights, Nagios, CloudWatch, Splunk, Grafana, Jira, VSTS |
| **Version Control Tools** | Azure Repo, GIT, SVN, TFS |
| **Automation Tools** | Azure Devops and Jenkins/Hudson |
| **Virtualization Tools** | Docker, Kubernetes |
| **Cloud Security Tool** | Azure AD, IAM |
| **Web Technologies** | HTML, JavaScript, CSS |
| **IAC Tools** | Terraform, ARM Template |
| **Operating Systems** | Windows, Linux, Ubuntu, Unix |
| **Database’s** | MYSQL, Cosmos DB,RDS, Redshift, DynamoDB,MongoDB, PostgreSQL |

**Education Details:**

* Master’s Degree in Northwest Polytechnic University, United States, 2016.
* Bachelor of Technology Jawaharlal Nehru Technological University, Kakinada,2014.

**Certifications:**

* Microsoft Azure Administrator : AZ-104
* Microsoft Devops Engineer : AZ-400

**PROFESSIONAL EXPERIENCE:**

**Client: Life360, Pleasanton, CA (Remote)**  **Dec 2021 – till date**

**Role: Senior Devops Engineer**

**Responsibilities:**

* Responsible for automation and orchestration of cloud services on Azure.
* Worked on Azure Storage Services (Storage, Data Lake Store, and Backup), Database (Document DB, SQL Data Warehouse) and Networking services (Vnet, LB, DNS and CDN).
* Designed and implemented Azure Data Bricks, configured policies through Azure Security Center.
* Worked on deployment of server infrastructure by using ARM templates and Terraform.
* Experience in conducting Azure threat modeling assessments for projects identifying and prioritizing security risks.
* Provided solutions to Azure Containers Instances and Azure Kubernetes Services.
* Developed and maintained shell scripts to automate routine tasks, such as system provisioning, configuration management, and backup processes in Azure.
* Integrated shell scripts into CI/CD pipelines to automate the deployment of applications and services to Azure .
* Integrated Python-based unit tests and code quality checks into CI/CD pipelines, ensuring code reliability and consistency.
* Collaborated with cross-functional teams to design and implement security controls in Azure, reducing the risk of data breaches.
* Created Azure Automation Assets, Graphical runbook, PowerShell runbook that will automate specific tasks, deployed Azure AD Connect, configuring Active Directory Federation Service (AD FS) authentication flow, ADFS installation using Azure AD Connect, and involved in administrative tasks that include Build, Design, Deploy of Azure environment.
* Configured Azure 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 Azure SQL DB with GEO Replication, Azure SQL DB Sync to standby database in another region & fail over configuration.
* Configured Continuous Integration from source control, setting up build definition within Visual Studio Team Services (VSTS) and configured continuous delivery to automate the deployment of applications to Azure web apps and managed Azure Active Directory, Office 365 and applied upgrades on a regular basis.
* Worked on Azure Site Recovery and Azure Backup - Deployed Instances on Azure environments and in Data centers and migrating to Azure using Azure Site Recovery and collecting data from all Azure Resources using Log Analytics and analysed the data to resolve issues.
* Using Ansible created multiple playbooks for machine creations and SQL server, cluster server and MySQL installations.
* Created shell scripts to manage resource scaling based on demand, optimizing resource utilization and reducing cloud costs in Azure.
* Involved in all projects that move to production and work closely with the Data Center, Development, Quality Assurance and Management teams to ensure cross communication and confirmed approval of all production changes.
* Implemented Docker -maven-plugin in Maven pom.xml files to build Docker images for all micro services and later used Docker file to build the Docker images from the Java jar files.
* Designed and managed robust IT infrastructure, ensuring high availability and performance for critical business operations.
* Configured and maintained complex networking environments, including LAN, WAN, and VPN, to facilitate seamless communication across distributed systems.
* Implemented the setup for Master slave architecture to improve the Performance of Jenkins.
* Used Jenkins for Continuous Integration and deployment into Tomcat/Web Logic Application Server.
* Performed and deployed Builds for various Environments like QA, Integration, UAT and Productions Environments
* Implemented security measures such as firewalls, encryption, and intrusion detection systems to safeguard network integrity and protect sensitive data.
* Installed, configured and supported Apache on Linux production servers. Installed, managed and upgraded packages via RPM and YUM package management.

**Environment:** Azure Active Directory, Azure WebApps, Azure Storage Services (Storage, Data Lake Store, Backup), Azure Site Recovery, VSTS, Docker, Kubernetes, Jenkins, Tomcat/WebLogic Application Server, Terraform, Ansible, Maven, GitHub, Splunk, Linux, Windows

**Client: NTT Data, Austin ,TX(Remote)**  **Apr 2019 – Nov 2021**

**Role: Devops Engineer**

**Responsibilities:**

* Analysed the quality of Automated Build plans to ensure the delivery process to non-prod and prod Environments.
* Designed and deployed multitude applications utilizing almost all the AWS stack (Including EC2, Route53, S3, RDS, Dynamo DB, SNS, SQS, IAM) focusing on high-availability, fault tolerance, and auto-scaling in AWS Cloud Formation.
* Configured AWS IAM and Security Group in Public and Private Subnets in VPC.
* Creating AWS Route53 to route traffic between different regions.
* Experience in Integrated Go-based applications into CI/CD pipelines, ensuring automated testing, building, and deployment of Go services.
* Experience in Writing Go scripts for automating configuration management, log analysis, and server provisioning.
* Migrated services from a managed hosting environment to AWS including service design, network layout, data migration, automation, monitoring, deployments and cutover, documentation, overall plan, cost analysis, and timeline.
* Experience in implementing and maintaining security measures for APIs in compliance with AWS security best practices.
* Created server less API solutions using AWS Lambda and API Gateway.
* Created and managed Red Hat-based EC2 instances for various purposes, including web hosting, application deployment, and data processing.
* Designing AWS Cloud Formation templates to create custom sized VPC, subnets, NAT to ensure successful deployment of Web applications and database templates.
* Implemented and automated local user provisioning instances created in AWS Cloud.
* Setup and build AWS infrastructure various resources, VPC EC2, S3, IAM, EBS, Security Group, Auto Scaling, and RDS in Cloud Formation JSON templates.
* Implemented solutions for high availability and fault tolerance of Red Hat systems using tools like Auto Scaling and Elastic Load Balancing.
* Responsible for configuring and networking of Virtual Private Cloud (VPC) Written Cloud Formation templates and deployed AWS resources using it.
* Automated server provisioning and configuration in AWS through Perl scripting, reducing manual intervention and ensuring infrastructure consistency.
* Integrated Perl script repositories with version control systems like Git for tracking changes and maintaining script versions.
* Implemented DevSecOps with Jenkins to reduce threats, vulnerabilities and performed risk assessments to detect and analyze threats during the CI/CD process.
* Maintained GitHub Enterprise through web interface and python scripts and provided assistance to development teams for creating SSO, security issues and CI/CD efforts.
* Built and executed a complete CI stack to migrate from a Puppet stack in a colo to Terraform with Chef in AWS.
* Done POC on implementation of continuous deployment pipeline with Jenkins and Jenkins workflow on Kubernetes
* Set up Jenkins Master and multiple slaves for the entire team as a CI tool as part of Continuous Development and Deployment process.
* Hands on experience on working with System health and performance Monitoring Tools like Splunk, Cloud Watch, New Relic, Elastic search, Kibana etc. Created Self hosted agents on Windows and Linux.
* Provide L2 and L3 support for critical issues.

**Environment:** AWS,VSTS, EC2,S3, VPC, Logic Server, Load Balancer, Application Gateway, Docker, Kubernetes, Jenkins, S3, Kibana ,Terraform, Ansible, Maven, Git-Hub, Splunk, Linux, Windows, JIRA, Red Shift.

**Client: Fannie Mae, Maryland** **Feb 2018 – March 2019**

**Role: Cloud Engineer**

**Responsibilities:**

* Configuration of Azure Virtual Networks , Subnets , DHCP, Network Security Groups, Load Balancers, Front door, Application Gateway and Traffic Manager.
* Involved in Requirement gathering workshops and documented the outcomes with Requirement gathering specifications.
* Created, Configured Load balancers as per application requirement, needed to maintain high availability of servers.
* Created Virtual Network with Frontend and Backend subnets, Assigned Frontend and Backend Network security group rules to these subnets.
* Experience in monitoring and optimizing data solutions in Azure including using Azure Monitor.
* Troubleshoot and identity performance, Connectivity and other issues for the applications hosted in Azure platform.
* Handling servers as per business standards.
* Creating Azure Backup vault and protecting required VMs to take the VM level backups. Shaped the backup and retention policy for the client and leveraged Azure Backups. Implemented a backup and DR solution using Azure Site Recovery.
* Extensive involvement in Designing Azure Resource Manager Template and in designing custom build steps using PowerShell.
* Work on escalated tasks related to interconnectivity issues and complex cloud-based identity management and user authentication, service interruptions with Virtual Machines (their host nodes) and associated virtual storage (Blobs, Tables, Queues)..
* Provisioning the infrastructure using the Terraform for the different environments according to the service now request
* Provided 24/7 on call support to the team

**Environment**:- Azure, Application Gateway, Storage Account, Traffic Manager, Express Route, Azure Monitor, Vnet, Nsg, Vm’s ,Cosmos DB, Trouble Shooting, PowerShell, Terraform, ARM template, Active Directory.

**Client: Ericsson, CA** **Aug 2015 – Jan 2018**

**Role: Devops Engineer**

**Responsibilities:**

* Created Amazon EC2 instances using command line calls and troubleshoot the most common problems with instances and monitor the health of Amazon EC2 instances and other AWS services.
* Supported cloud instances running Linux and Windows on AWS, worked with Elastic IP, Security Groups and Virtual Private Cloud in AWS.
* Configured Amazon EC2, Amazon S3, Amazon Elastic Load Balancing IAM and Security Groups in Public and Private Subnets in VPC and other services in the AWS
* Enhanced infrastructure as code (IaC) by incorporating Go scripts for provisioning and configuring infrastructure resources .
* Managed network security using Load balancer, Auto-scaling, Security groups and NACL.
* Utilized AWS CLI to automate backups of ephemeral data-stores to S3 buckets, EBS and create nightly AMIs for mission critical production servers as backups.
* Worked on setup and configuration of Puppet Configuration Management.
* Installed and configured an automated tool Puppet that included the installation and configuration of the Puppet master, agent nodes and an admin control workstation.
* Used Chef and Puppet for deployment on multiple platforms.
* Worked in transition from manual configuration and deployment to 'infrastructure as code' using Puppet.
* Used Kubernetes to deploy scale, load balance and manage Docker containers by creating Pods & Clusters with multiple namespace ids.
* Automated Ant and Maven builds by integrating them with Jenkins, and all builds output rpm packages as Artifacts.
* Integrated Junit and SonarQube plugins in Jenkins for automated testing.
* Creating Jenkins jobs and distributing load on Jenkins server by configuring Jenkins nodes which will enable parallel builds.
* Extensively 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.
* Installed and administered GIT source code tool and ensured the reliability of the application as well as designed the branching strategies for GIT.
* Deployed and configured Git repositories with branching, forks, tagging, merge requests, and notifications.
* Installed, configured and managed Nexus Repository Manager and all the Repositories, created the Release process of the Artifacts.
* Managed systems routine backup, scheduling jobs, enabling Cron jobs, enabling System logging and network logging of servers for maintenance.
* Delivered environment mapping in AWS that included Active Directory, LDAP, and AWS IAM roles for AWS API Gateway platform.
* Executed Micro Services with AWS EC Docker/Kubernetes for code building and packaging.

**Environment:** AWS, EC2, S3, IAM, Jenkins, OpenShift, Puppet, Docker, Kubernetes, Kafka, Python, Ruby, Linux, UNIX, Cassandra, Apache Tomcat, Git, Jenkins.