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**Aditya Vallapudas**

*Azure DevOps Cloud Lead Engineer*

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Having around 8+years of experience in the IT Industry including Application Architecture, DevOps Engineering, Development, System and Communications Administration with a major focus on Azure, Continuous Integration, including Deployment, Containerization, Configuration Management, Build/Release Management, Virtualization technologies, Environment Management, Change Management and Server Maintenances which also includes Troubleshooting and Performance issues.

**Performed, Executed, and Managed the following tasks, functions, and roles:**

* Implemented Enterprise Integration architecture using Azure offerings like **Azure Service Bus**, **Azure App Service**, **Azure Active Directory**, **Storage**, **Azure SQL server**, **Azure Virtual Machines** and managed **Azure Infrastructure** Azure Web Roles, and Worker Roles.
* Proficient in **Azure** development, adeptly utilizing **Azure** services such as **Azure** **Web** Applications, **App** **Services**, **Azure** **Storage**, **Azure** **SQL** **Database**, **Virtual** **Machines**, **Fabric** **Controller**, **Azure** **AD**, **Azure** **Search**, and **Notification** **Hub**. Extensive experience in leveraging **Azure** **Service** **Fabric** for packaging, deploying, and managing scalable and reliable microservices and containers.
* Proficient in a diverse range of **Azure** **services** including Compute (Web Roles, Worker Roles), **Databases**, **Networks**, **Internet** **of** **Things** (IoT), **PowerShell** **Automation**, **Monitoring**, **Key** **Vault**, and **Scheduling**."
* Experienced in designing, configuring, and deploying solutions on **Microsoft** **Azure**, utilizing **ARM** **Templates**, **AZURE** **PowerShell** **Module**, and **Azure** **CLI** with a specific focus on achieving high availability and implementing auto-scaling mechanisms."
* Provided high availability for **IaaS** **VMs** and **PaaS** role instances for access from other services in the VNet with Azure Internal **Load Balancer**
* Skilled in strategic planning, deployment, continuous monitoring, and maintenance of **Azure** cloud infrastructure, encompassing multiple VM nodes to meet environment-specific requirements.
* Expertise in **Cloud Migrations** to IAAS Platforms like **TFS, and Azure.**
* Operated on Virtual machines and cloud services in the VNet to the Internet using **Azure** External **Load Balancer**.
* Handled the automated cloud infrastructure using **Terraform** which helped in saving time and manual configuration.
* Worked with **Terraform** key features such as infrastructure as a code, execution plans, resource graphs, and change automation and extensively used auto-scaling launch configuration templates.
* Proficiently utilized **Azure** **Kubernetes** **Service** (AKS) to deploy managed **Kubernetes** clusters within **Azure**. Demonstrated expertise in creating **AKS** clusters through the **Azure** portal, employing versatile deployment methodologies including **Azure** **Resource** **Manager** (**ARM**) templates and terraform.
* Experienced in developing APIs using **Kubernetes** to manage and specify container instances for cloud-based server deployments. Proficient in scheduling, deploying, and managing container replicas within **Kubernetes** **node** **clusters**.
* Created **Smart HPA** for Kubernetes application and configured it for **APC Kubernetes**
* Managed **Kubernetes** charts using **Helm**.
* Experienced with Event-driven and scheduled functions to trigger various resources.
* Created and used **Microservices** assessment asset for identifying the current level of best practices gaps of cloud/microservices practices.
* Worked on **SQL** and **DynamoDB** databases.
* Expertise in **Migrating** **SQL** databases to **Azure SQL**.
* Good knowledge of **RDBMS** Querying tools such as **SQL Server**.
* Experienced in branching, merging, and maintaining the versions using tools like **Git, TFS, Gitlab,** **Bitbucket, and GitHub.**
* Versatile experience encompassing multiple facets of **Jenkins**, ranging from plugin management, securing, and optimizing performance to analytics, scaling, and integrating code analysis and testing phases for comprehensive CD pipeline execution within **Jenkins**.
* Used **Jenkins** for Continuous Integration and deployment into the **Tomcat Application Server.**
* Extensively worked on **Jenkins**/**Hudson** and **Bamboo** for continuous integration and End-to-End automation for all builds and deployments.
* Implemented CI/CD for application using **Jenkins** as a CI tool for integrating different tools like **GitHub, Maven, JUnit, and Nexus Artifactory** and used **Ansible** as a configuration management tool for continuous deployment into testing, staging, and Production Environments.
* Executed Continuous Integration & Continuous Deployment process using **Azure DevOps** and **Ansible** to reduce the Deployment time.
* Expertise in using build tools like **ANT** and **MAVEN** for the building of deployable Artifacts such as **WAR, EAR, BAR & JAR** from source code and experience in using **Nexus** and **Artifactory** **Repository** **Managers** for **Maven** builds.
* Managed environments DEV, QA, STG (UAT), and PROD for various releases and designed instance strategies.
* Worked with **Vagrant** for testing **Ansible** plays and deployments.
* Wrote **Shell Scripts**, **and Java Scripts** to automate the package installation, web server, and instance configuration
* Responsible for maintaining **GIT**/**SVN** Repositories, and access control strategies.
* Experienced with **DevOps/ Agile operations** and tools (resolve merge conflicts, merge code, Build & Release automation, Service, Incident, and Change Management).
* Boosted network system, data availability, and integrity through preventive maintenance and upgrade.
* Good understanding of the OSI Model, and proficiency in configuring **TCP/IP, DNS, NFS, SSH, SMTP,** etc.
* Collected and Analysed metrics, logs, and events with **Athena** and **Quick Sight**
* Managed **Azure** resources by configuring Azure Diagnostics and Azure Monitoring.
* Develop implementations for cloud and microservices architectures and frameworks
* Regularly develop **Frameworks**, Pipeline scripts, and **Cloud CLI scripts** as part of migration.
* Developed **YML** and **Shell Scripting** for creating the build and release pipelines.
* Worked on reconfiguring existing release pipelines based on user requirements.
* Implemented Key Management System using **Vault**.
* Expertise in delivering APIs with **.NET**, **Swift**, **NodeJS,** and **TypeScript**.
* Used the **Python**'s modules NumPy, matplotlib, etc.
* Release management and deployment of large-scale enterprise applications.
* Engaged in setting up **JIRA** as a defect-tracking system and configuring workflows, customizations, and plugins for the **JIRA** issue tracker.
* Integration with **SonarQube** for code coverage, and **Selenium** for automatic tests.
* Experience in maintaining Atlassian products like **JIRA**, **Confluence,** and **Bamboo**
* Designed and developed query service using **Elastic Search** and **Kafka**.
* Worked on **Tomcat**, **JBoss**, **IIS,** and **WebLogic** Application servers for deployments.
* Expertise in **Windows System Administration** for production, test, and development servers.
* Managed **System Builds,** **Server Builds**, **Installations**, **Upgrades**, **Patches**, **Migration**, and **Troubleshooting** of **Server 2008, 2012, and 2012 R2 Servers**.
* Installed and Configured **RedHat** Linux 6, and Solaris 10 operating systems on a large, distributed environment.
* Worked on **HP SiteScope** and **CA Desk Manager** to manage alerts from oncoming traffic/API response times.
* Used **ServiceNow** tool for managing incidents and change request tickets
* Worked on **xMatters** for paging assigned groups.
* Strong knowledge of Monitoring and log analytics tools like **Nagios**, **SolarWinds**, **Dynatrace**, **Splunk**, **AppDynamics, Prometheus, Elasticsearch**, **Azure Monitor**, and **Grafana**.
* Worked either independently or as part of a team, collaborating with various other teams for effective deliveries.

**Certifications:**

* Zoom Education Certificate ZTSC11831
* NIIT Certified: Java Enterprise Apps - Level 2 16APZZZZZ0289
* Microsoft Certified: Azure Fundamentals 7BD0B5-38LFEC
* Microsoft Certified: Azure Developer Associate 54C7B9-B3148R
* Microsoft Certified: DevOps Engineer Expert 6593CD-44EAD5

**SKILLS AND COMPETENCIES**

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| --- | --- |
| **Cloud Technology** | Microsoft Azure (Web Apps, Storage, SQL Database, Virtual Machines, Service Fabric, Active Directory) |
| **Automation and Configuration Management Tools** | Terraform, Ansible |
| CI / CD | Jenkins, Bamboo, Azure DevOps  |
| **Version Controls** | Git, GitHub, Bitbucket |
| **Monitoring Tools** | Dynatrace, OpsGenie, SolarWinds, Splunk, AppDynamics, Prometheus, Grafana, Nagios, Azure Monitor. |
| **Network Protocol**  | FTP/SFTP, SMTP, TCP/IP, HTTP/HTTPS, DHCP, NFS |
| **Service Management Tools** | CA Service Desk Manager, ServiceNow, Confluence, SharePoint |
| **Web/Application Servers** | Apache Tomcat, IIS, WebLogic, JBoss |
| **Bug Tracking and Testing Tools** | Jacoco, JIRA, Thread fix, Check Marx, SonarQube, JUnit, Selenium |
| **Operating systems** | Linux RHEL6.x/7.x, Windows 7/10 Server - 2008, 2012 R2 |
| **Containerization Tools** | Docker, Kubernetes, Helm charts, Vagrant, OpenShift |
| **Scripting Language** | PowerShell, Bash, Python, YAML, XML, and JSON |
| **Database Systems**  | SQL, DynamoDB, AppSync |
| **Others** | RabbitMQ, Argo CD, Kafka |

**PROFESSIONAL EXPERIENCE:**

**Verizon Wireless, Atlanta, GA. May, 2023 – Till Date**

**Azure DevOps Cloud Lead Engineer**

**Responsibilities**

* Integrated the **Azure pipelines** with **Azure Artifacts** and **Azure Test Plans** to accelerate the development and deployment of lifecycles.
* Worked on Automating, Configuring, and Deploying Instances on Azure environments and in Data Centers and migrating on-premise to **Windows Azure** using **Azure Site Recovery** and **Azure backups**.
* Worked on designing **Azure Resource Manager** (ARM) templates and created **Azure Data Factory** pipelines, linked services, triggers, and parameters.
* **Terraform** and **Ansible** were used to migrate legacy and monolithic systems to Azure Cloud.
* Have used service manager provider API which uses **Terraform** to create certificates on the Azure server
* Involved in deploying **Kubernetes Cluster** on Azure cloud with master/minion architecture and wrote many YAML files to create many services like pods, deployments, auto-scaling, load balancers, health checks, Namespaces, Config Map, etc.
* DevOps and cloud Solutions(CI/CD) design and implementation, with Software Configuration Management, Change Management, build automation, Release Management and AWS/Azure/DevOps experience in large and small software development organizations
* Used **Azure Kubernetes** **Services** to deploy a managed Kubernetes cluster in Azure and created an AKS cluster in the Azure portal, with the **Azure CLI**, also used template-driven deployment options such as Resource Manager templates.
* Expertise in Migrating SQL databases to **Azure SQL**.
* Experience working with AKS & ACR in Azure, EKS & ECR in AWS
* Deployed **Azure SQL** **DB** with GEO Replication, and Azure SQL DB Sync to the standby database in another region & fail-over configuration.
* Created Cache Memory on **Windows Azure** to improve the performance of data transfer between **SQL Azure** and WCF services.
* Worked on Event publishing for mass consumption and configured message flows.
* Worked on **Azure DevOps** for building a Continuous Integration (CI) and Continuous Deployment (CD) pipeline.
* Added DevOps capabilities such as Continuous Deployment from Azure DevOps, **GitHub**, **Docker** registry, and package management.
* Responsible for web application deployments over cloud services (web and worker roles) on Azure, using VS and **PowerShell**.
* Managed Azure resources by configuring **Azure Diagnostics** and **Azure Monitoring**.

**Environment:** Microsoft Windows Azure, Azure DevOps, Docker, Kubernetes, Terraform, Jenkins, GIT, SQL, Python, Jira, Confluence, OpsGenie, ServiceNow, Check Marx, SonarQube.

**Humana Inc, KY Aug, 2020 – Apr, 2023**

**Azure DevOps Cloud Engineer**

# Responsibilities

* Responsible for setting up the Production Infrastructure. Development and deployment of the **Python** code into the infrastructure. Experienced in using **Terraform** to **Automated** Infrastructure and to deploy applications from satisfactory to **Azure** cloud
* Migrating On-premises **virtual machine** to Azure Resource Manager Subscription with Azure Site Recovery.
* Configured the **Kubernetes** provider with **Terraform** which is used to interact with resources supported by Kubernetes to create several services such as Deployments, services, ingress rules, Config Map, secrets, etc., in different Namespaces
* Managed **Kubernetes** charts using **Helm**.
* Managed Configurations and Deployments through **Kubernetes**
* Utilized **Helm** **charts** to package and deploy applications, simplifying the management of **Kubernetes** resources, including pods, services, and ingress controllers.
* Worked on **Helm** **release** management, including versioning, rollback, and release history tracking.
* Integrated **Helm** **chart** deployments into **Azure** **pipelines**, automating the application release process and ensuring consistency between development, staging, and production environments.
* Developed Infrastructure as Code (IaC), Configuration as Code (CaC), and Pipeline as Code for **Azure** using **Jenkins**, **Terraform**, **Ansible,** and **ARM**.
* Used **Ansible** Playbooks to set up and configure Continuous Delivery Pipeline and **Tomcat** servers.
* Managed **Docker** orchestration and **Docker** containerization using **Kubernetes**.
* Deployed **Azure SQL DB** with GEO Replication, and Azure SQL DB Sync to the standby database in another region & fail-over configuration.
* Follow-ups and maintaining SLA in **Jfrog** for Project Profiles and Penalty Boxes
* Expertise in using **Jfrog** Artifactory to archive the artifacts created at the end of the build and release process.
* Configured Security Scans and defect Tracking profiles in **SonarQube** and **Check Marx**.
* Manage releases to make sure the code goes live with Quality and Security.
* Integrated **Jfrog** tasks in Pipeline to analyze packages with **Jfrog** Xray and provide recommendations to users on the upgrade path.
* Extensive experience in Azure E3 Enterprise Mobility Suite of tools in MFA (Multi-Factor Authentication) and intone.
* Worked on Licensing and Creating and managing Virtual Machines with Storage – Share Drives
* Configured **Azure Traffic Manager** to build routing for user traffic Infrastructure Migrations: Drive Operational efforts to migrate all legacy services to a fully Virtualized Infrastructure.
* Create metrics (APM), monitoring and alerting **OpsGenie** with tasks/incident management among the teams.
* Coordinated with developers to establish and apply appropriate branching, labeling/naming conventions using **GIT** analyzed and resolved conflicts in **GIT**.
* Used Atlassian **JIRA** as an issue-tracking and ticketing tool.
* Configured **Nagios** to monitor the server’s performance in a test environment.
* Used **Splunk** to monitor/metric collection for applications in a cloud-based environment.
* Managed Azure-related alerts and **Log Analytics** to see the API calls.
* Experience working with AKS & ACR in Azure, EKS & ECR in AWS
* Deployed Azure SQL DB with GEO Replication, and Azure SQL DB Sync to the standby database in another region & fail-over configuration.
* Used **Confluence** for documentation of plans, implementation of new services, and issues resolved
* Have been creating Test Environments using **Vagrant** by spinning up Virtual Machines
* Experience in creating and writing shell scripts (**Bash**), **YAML**, **JSON**, **Python,** and **PowerShell** for automating tasks
* Managed **Kafka** clusters both on Windows and Linux environments.
* Document application installations and infrastructure requirements and architecture in **Confluence**.

**Environment:** Microsoft Windows Azure, Ansible, Docker, Kubernetes, Argo CD, Helm, Jenkins, GIT, Python, Jira, Nagios, Splunk, Confluence, OpsGenie, Vagrant, Maven, ServiceNow, XenApp, Citrix, YAML, XML, JSON, Check Marx, Kafka, SonarQube.

# Truist, Atlanta, GA Nov 2017 - Jul 2020

# Azure DevOps Cloud Engineer

# Responsibilities

* Hands-on Experience in designing and implementing Service Oriented Architecture underlined with **Ingress** and **Egress** using **Azure** **Data** **Lake** **Store** & and **Azure** **Data** **Factory** by adding blobs to lakes for analytic results and pulling data from **Azure** **Data** **Lake** to the **Blobs**.
* Developed and configured HTTP Triggers within **Azure** **Functions**, integrated with Application Insights for comprehensive monitoring and load testing of applications using VSTS. Employed **Python** **API** to efficiently upload agent logs into **Azure** **blob** **storage**
* Deployed **Azure SQL DB** with GEO Replication, and **Azure** **SQL** **DB** Sync to the standby database in another region & fail-over configuration.
* Wrote scripts for the provision of infrastructure management using **Terraform**.
* Implemented **Terraform** modules for deployment of various applications across multiple cloud providers and managing infrastructure.
* Maintain **Windows** and **Linux** servers hosted in **Azure Cloud** and on-premises
* Uploaded VHD files into **Azure Storage** Account using AZ Copy.
* Designed and implemented processes that support continuous integration and continuous deployment via **Azure DevOps.**
* Integrated **Docker** container Orchestration framework using **Kubernetes** by creating pods, Config maps, Deployments
* Used **Kubernetes** to manage containerized applications using its nodes, config maps, node selector services, and deployed application containers as pods.
* Deployed containerized applications on **Azure** **Kubernetes** **Service** (**AKS**) using **Helm** **charts**, streamlining the deployment process and ensuring consistency across environments.
* Deployed two-tier .NET, **Python** applications to **Azure** **DevOps** to focus on development by using services such as Repos to commit codes, Build Pipelines using PowerShell scripts for **CI/CD** and Test plans for unit test, deploy to App Service, **Azure** **Application** **Insights** collects health performance and usage data of the process, stored artifacts in **blob** storages.
* Created **CI/CD** pipelines for .NET, and python applications in **Azure** **DevOps** by integrating source codes **GitHub**, **VSTS**, and artifacts. Created deployment areas such as testing, pre-production, and production environment in **Kubernetes** **cluster** and configured **App Insights, Prometheus, and Grafana monitoring** dashboard for regular analysis.
* Worked on **Shell** **Scripts**, **Python**, and **JavaScript** to automate the package installation, web server, and instance configuration.
* Create Active Directory, DNS, join domain, Load balancer, SQL server, and **Azure** **CLI** tools and create Infrastructure as Code Pipeline to automate the deployment process.
* Troubleshoot the network and work with relevant technology concepts and experience with relevant technologies such as Load Balancers / DNS / SSL / Firewalls / DNS / Ping / Telnet / Trace route.
* Configuring monitoring by using **Azure Monitor**
* Monitoring managing and reporting the backups of the **Azure Virtual Machines** as per the company retention
* Developed automation solutions using **PowerShell** scripting for day-to-day operational tasks.
* Configured **SonarQube** application to perform a continuous inspection of code quality and static analysis of code to detect bugs, code smells, and security vulnerabilities.
* Manage source repositories, and perform merges in **GIT**.
* Maintain **GIT** repositories, and branching strategies and configure access control to the users.
* Create, maintain, and administrate **GitHub** repositories as source code management.
* Configured users and permissions for **TFS**, **SharePoint** portals, and Source Control Explorer folders.
* Usage of **Grafana** to visualize **Prometheus** metrics
* Develop new and enhanced **Dynatrace** plugins to meet the specific requirements of app teams.
* Involved in setting up **JIRA** as a defect-tracking system and configured various workflows, customizations, and plugins for the **JIRA** bug/issue tracker
* Experienced in upgrading and supporting **Check** **Marx** on **Windows** server
* Responsible for configuration of **XML** builds and verifying source files into the correct releases and mapping it to the checksum concept.
* Set up ETL for environments and configured **RabbitMQ**.
* Configuring **AppDynamics** and creating dashboards to monitor and gather required metrics and Expertise in troubleshooting and monitoring applications using **AppDynamics**.
* Installed and upgraded different versions of **Tomcat**/**WebLogic**.

**Environment:** Microsoft Windows Azure, Azure DevOps, Azure Active Directory, Microsoft Azure Storage, Azure SQL Database, Azure Monitor, SharePoint, Windows Server 2008, 2012/R2, PowerShell, Terraform, Grafana, Dynatrace, GIT, GitHub, Jira, AppSync, Thread fix, Check Marx, SonarQube, Junit, Jacoco, YAML, XML, JSON, RabbitMQ, Selenium, ServiceNow, AppDynamics, WebLogic.

**Walmart, Bentonville, AR USA Oct 2016 - Sept 2017**

**DevOps Engineer**

# Responsibilities

* Creating Storage Pool and Stripping of Disk for **Azure Virtual Machines**.
* Migrating Virtual Machines and configuring for Users on Citrix Xen
* Involved in migrating on-premise cloud storage to Windows Azure using **Azure Site Recovery** and Azure backups.
* Created **Docker** files, **Docker** Images & Containers
* Created Cache Memory on **Windows Azure** to improve the performance of data transfer between **SQL Azure** and WCF services.
* **ServiceNow** Tool is used for change requests, Incidents, and Other generic requests to the various support teams.
* Utilized Apache **Kafka** to capture and process real-time and near-real-time streaming data.
* Managed Azure Infrastructure Web Roles, Worker Roles, Storage, **Azure AD Licenses**, and **Office365**.
* Performing load balancer activities using NetScaler
* Provided support for Domain related issues
* Allocations and taking backups with policies on Citrix Xen

**Environment:** Microsoft Azure, Azure DevOps, Azure cloud services, Azure Service Bus, Cosmos DB, Maven, Python, Ansible, Docker, Jenkins, GIT, Jira, Splunk, Confluence, ServiceNow, YAML, XML, JSON, Check Marx, Kafka, XenApp, Citrix, SonarQube.

**Mother Blood Bank July 2015 – Oct 2016**

# Network Operations and System Administrator

 Mother Blood Bank is an online blood bank service that aims to eradicate the scarcity of blood. This website was created to maintain the availability of blood with various blood groups and donor locations so that the distribution would be easy for hospitals and potential donors

**Responsibilities**

* Managed the databases and storage availability.
* Managing alerts, monitoring backend scripts, and setting the scope of application into the tool for monitoring.
* Creating tickets based on the template of the project, Filtering and Managing tickets, Checking the resolution or the status of the ticket, and assigning tickets to the groups in Service Desk Manager.
* Managed on-call services regarding problems in the network, and work-station and fixing them.
* Ability to handle System tuning, log maintenance, disk space management, etc.
* Engaged in developing shell scripts for automated installations to extract logs.
* Removing Customers having Good and conserving licenses by removing Good from Customers.
* Grouped sites with the owners and notified the changes in SharePoint upgrades during migrations.
* Documented software usage procedures, and process of installation of operating systems.
* Handling Disaster Recovery plans for the cold backup site.
* Developed shell scripts for running jobs on servers.
* Supported 24x7 for the production issues.
* Deployed code to the servers and handled network issues.
* Backed up data and handled server maintenance tasks.
* Hosting the website and managing the firewall and security aspects of the internet.
* Reporting and documentation are maintained to quickly resolve issues.

**Environment:** Bamboo, Jenkins, Prometheus, Bitbucket, JBoss, CA Service Desk, SQL

 **The above skills, competencies, and diverse experiences and expertise help me to position in a niche space.**