**MD Azhar**

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**Azure Cloud Engineer ● DevOps Automation Engineer ● Build & Release Engineer**

**SUMMARY:**

* A result driven Cloud Engineer with 9 years industry experience in Computer Networks, Cloud Computing and System Administration.
* Experience in IT industry in various roles with excellent experience in RedHat Enterprise Linux Administration, Software Configuration Management, **DevOps Engineer Build & Release** management, and Development for several markets driven international organizations.
* Experience working on **Azure Cloud services**, Managing Client's Microsoft Azure based PaaS and IAAS environment.
* Responsible for OpenStack project core infrastructure including code review, continuous integration systems, and developer tools and OpenStack Multi-node Installation, Configuration and Administration.
* Experience deploying Infrastructure as a Code (IaC) using Terraform and Git Version Control.
* Experience with creating Virtual machines, Resource Groups, NSG’s etc. in Microsoft Azure environment.
* Good experience in Storage accounts, Backups, Load balancer, Traffic Manager, Firewall, Azure Monitor.
* Expertise with IP sub-netting, VLANs, Load Balancing, and High Availability (HA) architectures.
* Good knowledge and working experience in managing Routers, Switches and Virtual LANs etc. in office environment.
* Designed, configured and deployed Microsoft Azure for a multitude of applications utilizing the Azure stack (Including Compute, Web & Mobile, Blobs, Resource Groups, Azure SQL, Cloud Services, and ARM), focusing on high - availability, fault tolerance, and auto-scaling.
* Developed methodologies for cloud migration, implemented best practices and helped to develop backup and recovery techniques for applications and database on virtualization platform.
* Experience in Designing and distribution of Data across all the nodes and Clusters on different availability zones in AWS Redshift and Scaling Amazon RDS, MySQL, MongoDB, DynamoDB, Cassandra DB, Postgre SQL, Instances Vertically and Horizontally for High Availability.
* Extensive involvement in Designing Azure Resource Manager Template and in designing custom build steps using PowerShell.
* Designed and developed Cloud Service projects and deployed to Web Apps, PaaS, and IaaS.
* Good at Manage hosting plans for Azure Infrastructure, implementing & deploying workloads on Azure virtual machines (VMs).
* Strong understanding of API Management concepts & fundamentals. Experience with APIM platforms such as MuleSoft Anypoint, CA APIM, or Apigee
* Understanding and experience in creating Vnet peering & Vnet-Vnet VPN.
* Experience using Ansible Tower, which provides an easy-to-use dashboard, and role-based access control, so that it's easier to allow individual teams access to use Ansible for their deployments
* Experience in setting up CICD pipeline integrating various tools with to build and run Terraform jobs to create infrastructure in Azure.
* In-depth understanding of the principles and best practices of Software Configuration Management (SCM) processes, which include compiling, packaging, deploying and Application configurations.
* Experience in migrating the existing v1 (Classic) Azure infrastructure into v2 (ARM), scripting and templating the end to end process as much as possible so that it is customizable for each area being migrated.
* Experience in working on version control systems like GIT, Subversion, and used Source code management client tools like Git Bash, GitHub, Git GUI and other command line applications etc.
* Extensively worked on JENKINS, AZURE DEVOPS for continuous integration (CI) and for End-to-End automation for all build and deployments
* Configuration Management and source code repository management using tools like GIT, Subversion (SVN), Perforce and PVCS.
* Written build scripts from scratch for new projects and for new modules within existing projects.
* Expertise in Enterprise repository management tools like Nexus, Artifactory etc.
* Maintained local team repositories and Organization’s central repositories for Maven.
* Responsible for design and maintenance of the Subversion/GIT Repositories, views, and the access control strategies
* Major focus on Configuration, SCM, Build/Release Management, Infrastructure as a code (IAC) and as Azure DevOps operations Production and cross platform environments.
* Experienced in working on DevOps /Agile operations process and tools area (Code review, unit test automation, Build & Release automation Environment, Incident and Change Management) including various tools.
* Worked on deployment automation of all the micro services to pull image from the private Docker registry and deploy to Docker swarm cluster using Ansible.
* Experience in assigning the azure services on locations specific to integrate with web-apps and key-vaults
* Extensive experience in writing Ansible playbooks and Modules to automate our build/deployment process and do an overall process improvement to any manual processes and experience in working with GIT to store the code and integrated it to Ansible Tower to deploy the playbook.
* Extensively worked on Automatic Scripting using shell scripts (bash, awk, sed)
* Experience in writing shell scripts to automate the administrative tasks and management using Cron. Responsible for configuring and connection to SSH through SSH clients like Putty Remotely copying files using SFTP, FTP, SCP, WinScp and FileZilla.
* Experience in Deploying JBoss, Apache Tomcat web server, IIS Server, Oracle web logic, and IBM Web Sphere.
* Involved in Linux administration activities like troubleshooting of regular issues, configuration issues, applying patches, kernel upgrades, package management, diagnosing resource utilization and file system issues.
* Experience in Creation and managing user accounts, security rights, disk space and process.
* Team player with good management, analytical, communication and interpersonal skills.
* Knowledge of using Routed Protocols: **FTP, SFTP, SSH, HTTP, HTTPS** and Connect direct.
* Having work experience in support of multi platforms like UNIX, Ubuntu, RHEL, Fedora, and Windows 98/NT/XP/Vista/7/8 of production, test and development servers.

**TECHNICAL SKILLS:**

|  |  |
| --- | --- |
|  **Cloud** |  Azure, Aws, IaaS, Paas, Saas, Azure Active Directory. |
|  **Versioning Tools** |  GIT, Bit Bucket, SVN, GitHub, Gitlab |
|  **Continuous Integration Tools**  |  Jenkins, Docker. |
|  **Automation** |  Terraform, PowerShell, ARM. |
|  **Build Tools** |  Maven, ANT. |
|  **Operating Systems** |  RedHat Linux, Ubuntu, CentOS, Windows |
|  **Networking & Protocols** |  TCP/IP, Telnet, SSH, HTTP, HTTPS, FTP, SNMP, LDAP, DNS. |
|  **Project Management/Issue Tracking Tools**  |  JIRA, Remedy Confluence, SonarQube, BugZilla, Nagios. |
|  **Scripting Languages** |  Shell scripting, Python, Power Shell |
|  **Services** |  HTML, XML/SOAP, Web Services |
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|  |  |
| --- | --- |
| **RDBMS** |  |

 |  Oracle 8i/9i/10g, DB2, SQL server, MySQL 5.x. |
|  **Application Servers** |  Oracle WebLogic 11g, WebSphere 7.x, Apache Tomcat 7.x, Apache 2.x, JBoss |
|  **SDLC** |  Agile and waterfall methodologies |

**PROFESSIONAL EXPERIENCE:**

**AT&T Communications-Microsoft (Texas) Mar 19– Till Date**

**Azure Cloud/Devops Engineer**

The AT&T cloud migration project is all about migrating all the applications from on premises to Microsoft Azure Cloud which is implemented by Microsoft. Team is responsible for creating the (DDD) Deployment Design Document and create the pipeline and deploying all the resource through Automation.

**Responsibilities:**

* **Variables, Builders, Provisioners** that required for packer build run were organized in the json file.
* Implemented a CI/CD pipeline with Docker, Jenkins (TFS Plugin installed), Team Foundation Server (TFS), GitHub and Azure Container Service, whenever a new TFS/GitHub branch gets started, Jenkins, our Continuous Integration (CI) server, automatically attempts to build a new Docker container from it.
* Worked with Terraform Templates to automate the Azure Iaas virtual machines using terraform modules and deployed virtual machine scale sets in production environment.
* Managed Azure Infrastructure Azure Web Roles, Worker Roles, VM Role, Azure SQL, Azure Storage, Azure AD Licenses, Virtual Machine Backup and Recover from a Recovery Services Vault using Azure PowerShell and Azure Portal.
* 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.
* Worked on Puppet Open source configuration Management. Built a custom dashboard for puppet, where it gets all the reports of puppet master and client details.
* Also worked writing **ansible playbooks** for installing monitoring components based on application like Cassandra, Kafka and Zookeeper.
* Hands-on experience in Azure Cloud Services (PaaS & IaaS), Storage, Web Apps, Active Directory, Application Insights, and Logic Apps. Implemented Azure APIM modules for public facing subscription based authentication
* Worked on agile methodology to deliver end to end CI/CD delivery product in Azure Cloud Environment and On-premises data center using Jenkins, Spinnaker, Kubernetes, ansible and puppet.
* Gathering the requirements from the clients about the existing applications to apply the security measures
* Created several pods and services using Master and Minion architecture of Kubernetes and developed microservice onboarding tools leveraging Python allowing for easy creation and maintenance of build jobs and Kubernetes deploy and services.
* Understand the latest features like (Azure DevOps, OMS, NSG Rules, etc..,) introduced by Microsoft Azure and utilized it for existing business applications
* Creating, validating and reviewing solutions and effort estimate of converting existing workloads from classic to ARM based Azure Cloud Environment
* Developed automation system using PowerShell scripts and JSON templates to remediate the Azure services
* Implemented automation for deployments by using YAML scripts for massive builds and releases
* Acted as build and release engineer, deployed the services by VSTS (Azure DevOps) pipeline. Created and Maintained pipelines to manage the IAC for all the applications.
* Used Azure devops and **Packer to create VM’s in Azure**. Created Centos, Rhel images using Packer build and image is published appropriate Azure project.
* Have hands-on experience in writing **terraform modules and provisioning with Azure**, where we use to create azure instances with those modules and used terraform resources and azure start-up parameters to call a shell script which eventually will install respective application based on VM-naming convention.
* Managed **Docker Orchestration** and hands-on experience in **writing dockerfiles** and create docker images using Jenkins and placing those images in **azure container registry**.
* Managed Kubernetes charts using Helm, Created reproducible builds of the Kubernetes applications, managed Kubernetes manifest files and managed releases of Helm packages.
* Designed, wrote and maintained systems in Python scripting for administering GIT, by using Jenkins as a full cycle continuous delivery tool involving package creation, distribution, and deployment onto Tomcat application servers via shell scripts embedded into Jenkins jobs.
* Worked on creating **Kubernetes cluster** and deployed those images into container using **Spinnaker**. Spinnaker is our deploy tool, where it gets the latest image from the container registry with latest version
* In Spinnaker we have each **microservice** under application tab, where we have accounts with respective dev/prod/sit clusters. So, in the pipeline section of the microservice we configure to use the image of the microservice, specify the **deployment yaml** of the microservice which hosted in GIT. This mechanism helped us to deploy containers and **create pods** on those containers.

**Thermofisher Scientific, Waltham, MA Jun 18 – Feb 19**

**Azure Cloud/Devops Engineer**

**Responsibilities:**

* **Involved in** migrating physical **Linux/Windows** servers to **cloud** (**AZURE**) and testing the whole process.
* Designed an Architectural Diagram for different applications before migrating into **Azure** cloud for flexible, cost-effective, reliable, scalable, high-performance and secured.
* Built servers using **Azure**: Importing volumes, launching **VM**, **RDS**, creating security groups, auto-scaling, load balancers (**ELBs**) in the defined virtual private cloud.
* Deploying VM's, Storage, Network and Affinity Group through PowerShell Script and Terraform.
* Creating Storage Pool and Stripping of Disk for Azure Virtual Machines. Backup Configure and Restore Azure Virtual Machine using Azure Backup.
* Develop and deployed data pipelines as part of production DW/DB implementation using Azure Data factory.
* Automate Configurations and Deployments using PowerShell Scripts, ARM Templetes and Terraform.
* Integrated Terraform through pipelines.
* Deployed **Azure** **IaaS virtual machines** (**VMs**) and **Cloud services** (**PaaS** role instances) into secure **Azure Virtual Networks** and subnets.
* Experience in Ansible, Docker and Kubernetes.
* Creating, monitoring and managing the load balancers & Traffic Manager for business-critical applications.
* Worked on migration from on prem to Azure cloud.
* Understanding and experience in creating Vnet peering & Vnet-Vnet VPN
* Setting up VPN-VPN connection between Client data center and Azure cloud. Built domain controller including active directory, managing all Window servers.
* Designed and configured Azure Virtual Networks (VNets), subnets, Azure network settings, DHCP address blocks, DNS settings, and security policies and routing.
* Worked with CI/CD pipelines and Azure Devops Tooling.
* Designed VNets and subscriptions to confirm to Azure Network Limits.
* Exposed Virtual machines and cloud services in the VNets to the Internet using Azure External Load Balancer.
* Provided high availability for IaaS VMs and PaaS role instances for access from other services in the VNet with Azure Internal Load Balancer.
* Implemented high availability with Azure Classic and Azure Resource Manager deployment models.
* Designed Network Security Groups (NSGs) to control inbound and outbound access to network interfaces (NICs), VMs and subnets.
* Setup Azure Virtual Appliances (VMs) to meet security requirements as software-based appliance functions (firewall, WAN optimization and intrusion detections).
* Associated routes with Virtual networks via the route table per relationship constraints.
* Convert existing Virtual Machine from Standard to Premium Storage Account. Patching and Validating of Virtual Machine in Azure.
* Manage **Azure Active Directory** and creating new groups for users.
* Experience in integrating Active directory with Microsoft office 365.
* Monitor Azure Infrastructure through System Center Operation Manager (SCOM).
* Worked on Azure Devops services like Boards, Pipeline, Repos, Test plans, Artifacts, CI/CD.
* Coordinating with Microsoft for increasing subscription limit like- Core limit and Cloud Services. Handling and Resolving Client's Issues remotely.
* Client Interaction over the Phone or Emails to provide instant response.
* Involved in Jira as defect tracking system and configure various workflows, customizations and plug-ins for Jira bug/ issue tracker.

**Environment:** Microsoft Windows Azure, Azure Devops, Windows server 2012/R2/2013, Windows PowerShell, Microsoft Azure Storage, Terraform, SQL, GIT, Unix, Jira, Azure Active Directory, Iaas, Paas, SaaS.

**GEICO,** [**Chevy Chase**](https://www.google.com/search?q=Chevy+Chase,+Maryland&stick=H4sIAAAAAAAAAOPgE-LUz9U3MCqyNC1TAjMNjVIMi7S0spOt9POL0hPzMqsSSzLz81A4VhmpiSmFpYlFJalFxYtYRZ0zUssqFZwzEotTdRR8E4sqcxLzUnawMgIAQpn4T18AAAA&sa=X&ved=2ahUKEwir4de3tLrvAhUZyjgGHWnvCvkQmxMoATA0egQIORAD) **(MD) Dec 17 –May 18**

***Azure Cloud/devops Engineer***

**Responsibilities:**

* Designed and configured Azure Virtual Networks (VNets), subnets, Azure network settings, DHCP address blocks, DNS settings, and security policies and routing.
* Deployed Azure IaaS virtual machines (VMs) and Cloud services (PaaS role instances) into secure VNets and subnets.
* Worked with cosmosdb.
* Designed VNets and subscriptions to confirm to Azure Network Limits.
* Exposed Virtual machines and cloud services in the VNets to the Internet using Azure External Load Balancer.
* Experience in integrating Active directory with Microsoft office 365.
* Provided high availability for IaaS VMs and PaaS role instances for access from other services in the VNet with Azure Internal Load Balancer.
* Implemented high availability with Azure Classic and Azure Resource Manager deployment models.
* Designed Network Security Groups (NSGs) to control inbound and outbound access to network interfaces (NICs), VMs and subnets.
* Experience on version control methods like merging the branches, configuring the web hooks in version control system, resolving the merge conflicts, creating the tags, Creating/Deleting the local and remote branches etc.
* Manage **Azure Active Directory** and creating new groups for users.
* Perform daily system monitoring, verifying the integrity and availability of all hardware, server resources, systems and key processes, reviewing system and application logs, and verifying completion of scheduled jobs such as backups.
* Worked with **JIRA** for **issue reporting, status,** and **activity planning.**
* Work with development/testing, deployment, systems/infrastructure and project teams to ensure continuous operation of build and test systems.
* Understanding Web Application Firewall (WAF) for protecting the applications hosted for public access
* Creating & managing SQL and Oracle databases in PaaS model
* Configuring monitoring by using Azure Monitor
* Moving monitoring logs to maintain the retention as per compliance
* Optimizing the DB performance by deploying read-only replica
* Own full **lifecycle** of **build** **system** - from analysis, development, implementation and support of builds, unit testing and deployments.

 **Environment:** Azure, Microsoft Azure Storage, Git, Maven, Apache Tomcat, JIRA, PowerShell, Solaris, Python, WebSphere, Jboss, Shell scripting,Azure Devops SVN, Unix/Linux and Windows.

**Johnson and Johnson,** [**New Brunswick**](https://www.google.com/search?q=New+Brunswick,+New+Jersey&stick=H4sIAAAAAAAAAOPgE-LUz9U3MDSzyCtU4gAxKwoKTLW0spOt9POL0hPzMqsSSzLz81A4VhmpiSmFpYlFJalFxYtYJf1SyxWcikrzisszk7N1FEBcL6BMauUOVkYAn3XmLWIAAAA&sa=X&ved=2ahUKEwjM6LritLrvAhXjyzgGHWRbA38QmxMoATAkegQIMBAD) **(NJ) Mar 17 – Nov 17**

***Azure Cloud Administrator.***

Janssen Research and Development (JRD), which conducts research and development activities related to a wide range of human medical disorders, including [mental illness](https://en.wikipedia.org/wiki/Mental_illness), [neurological disorders](https://en.wikipedia.org/wiki/Neurology) and [gastrointestinal disorders](https://en.wikipedia.org/wiki/Gastrointestinal_disorder) etc. The Purpose of the project is to implement Customer Master for their business.

**Responsibilities:**

* Documenting all the network settings and maintaining the versions.
* Creating, monitoring and managing the load balancers & Traffic Manager for business critical applications
* Understanding and experience in creating Vnet peering & Vnet-Vnet VPN
* Expertise in implementing content delivery network (CDN) by Azure
* Creating and maintaining Storage accounts
* Creating and managing Azure Vm’s as per the requirement
* Monitoring and analysis of the Azure VM & resource utilization by Azure monitoring
* Monitoring managing and reporting the backups of the Azure Vm’s as per the company retention
* Managing the backup policy
* Maintaining Windows and Linux servers hosted in Azure Cloud and on-premises
* Review of single point of failures for the business-critical applications hosted in on-premises and Azure cloud
* Strong expertise on Azure VM types
* Design and implementing Vnets and Subnets suits for the business
* Monitoring the IO requirement for production instances and suggesting the recommendation to the management
* Create and manage the Subnets in Vnets as per the network design
* Create and manage NSGs for all internal and public hosted resources hosted in Azure cloud
* Create and managing routing tables for all necessary networking requirements and associating to the right subnet
* Create and manage NSGs for all internal and public hosted resources hosted in Azure cloud
* Managing and maintaining blob, table & queues storage
* Create User/groups and integrate Cloud services with Existing Identity Services
* Create Policies and give access to user
* Prepare the Documentation of existing Cloud setup and regularly update it
* Review and implement the DR plan
* Understanding Web Application Firewall (WAF) for protecting the applications hosted for public access
* Creating & managing SQL and Oracle databases in PaaS model
* Configuring monitoring by using Azure Monitor
* Moving monitoring logs to maintain the retention as per compliance
* Optimizing the DB performance by deploying read-only replica

##### **Environment:** Microsoft Azure, Storage, Azure Active Directory, Terraform, Iaas, Paas, SaaS, ARM Templets.

**Silicon Valley Bank, Santa Clara, (CA) March 16 – Feb 17 *Build/ Release Engineer***

Silicon Valley company developing multiple products for end clients such as DELL, FOOTHILL Community Company and being targeted towards banking sector. It’s me check is the product developing for Foothill Community college. It’s me check is an innovative cloud computing product from Ciberoc to promote online education integrity.

###### **Responsibilities:**

* Setup **Jenkins** Build server and maintenance.
* **Apache-tomcat Web Server Configuration** and **Management**.
* **Version** **Control** using **Git** branching and merging repositories.
* Created **repositories** according to structure required with **branches**, **tags** and **trunks**.
* Managing Build Process using **Jenkins Server**.
* Implemented a Continuous Int­­­­egration process using **shell scripts**.
* Created deployment tickets using **JIRA** for build deployment in Production.
* Installed, configured and maintained **ClearCase** for **SCM** and Issue tracking.
* Worked closely with **developers** and managers to resolve the issues that rose during the deployments to different environments.
* Manage Releases, including coordinating with the **Dev** team and **QA** team.
* Maintained build **system** and **automated** build process for different application.
* Deployed **Java Enterprise** applications to **Apache Web Server, JBoss** Application server.
* Used **Oracle** to connect to various **databases** and to check the invalid objects after and before release.
* Developed, maintained and distributed release notes for each scheduled release

**Environment:** Tomcat, Apache, Oracle, Jenkins, Python, Ruby Chef, JIRA, Maven, Nexus, GIT, SVN, Ubuntu, CentOS, Ruby, Chef, Windows, Linux.

**Usine Technologies, India March 12 –Nov 15**

***Build/ Release Engineer***

United Health Group is one of the world's largest and most diversified health and well-being companies. The project involved creating a more robust membership application that takes care of all the activities relating to a membership of the customers. This involves new membership, renewals and claims.

**Responsibilities:**

* Release Engineer for a team that involved different development teams and multiple simultaneous software releases and implemented Continuous Integration Process.
* Worked with installation, deployment and maintenance of middleware application servers to RHEL Dev and Test environments.
* Created and maintained the Shell deployment scripts for WebLogic and web application servers.
* Developed build and deployment scripts using ANT and Apache MAVEN as build tools in Jenkins to move from one environment to other environments.
* Extensive experience in using Version control systems includes Subversion (SVN), GIT, and Clear Case. Involved in migrating from SVN to GIT.
* Analyze and resolve conflicts related to merging of source code for GIT. Performed all necessary day-to-day Subversion/GIT support for different projects.
* Worked on Continuous Integration System i.e. Jenkins. Used Jenkins for official nightly build, test and managing change list.
* Proficient with Jenkins and Bamboo for continuous integration and for End-to-End automation.
* Experience in designing and configuring open source management tools Chef and CFengine in Devops Environment.
* Set up Jenkins build jobs to provide one click deployments of the latest software build to WebSphere clusters for use by developers and support personnel. These were implemented using a combination of Jenkins configuration, BASH scripting.
* Responsible for writing the Release Notes, documenting all the useful info about the release, software versions, changes implemented in current release, Defects fixed, Labels applied.
* Coordinated with **developers**, **Business** **Analyst** and **Mangers** to make sure that **code** is **deployed** in the **Production** environment.
* **Supporting** the development team in using new tools and workflows.
* Preparing and **presentations** educating the users on new tool usage.
* Setup **Jenkins** Build server and maintenance.
* **Apache-tomcat Web Server Configuration** and **Management**.
* **Version** **Control** using **Git** branching and merging repositories.
* Created **repositories** according to structure required with **branches**, **tags** and **trunks**.
* Managing Build Process using **Jenkins Server**.
* Implemented a Continuous Int­­­­egration process using **shell scripts**.
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* Maintained build **system** and **automated** build process for different application.
* Deployed **Java Enterprise** applications to **Apache Web Server, JBoss** Application server.
* Used **Oracle** to connect to various **databases** and to check the invalid objects after and before release.
* **Developed**, maintained and distributed release notes for each scheduled release

**Environment:** Tomcat, Apache, Oracle, Jenkins, Python, Ruby Chef, JIRA, Maven, Nexus, GIT, SVN, Ubuntu, CentOS, Ruby, Chef, Windows, Linux.

**EDUCATIONAL QUALIFICATION:**

Diploma in computer science, Quli Qutab Shah College, 2012