**Thivakar J**

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**OBJECTIVE**

To work in a globally competitive environment on challenging assignments that will yield the twin benefits of the job satisfaction and a steady-paced professional growth.

**Experience Summary**

* Azure Architect with 10+ years of experience designing, implementing, and managing secure and scalable cloud solutions on Microsoft Azure. Proven expertise in landing zone deployment, infrastructure as code (IaC), DevOps practices, and cloud optimization. Dedicated to delivering innovative solutions that drive business efficiency and cost savings.
* Experience in Security best practices and governance policies
* Experience in Cost optimization and resource management
* Design and implementation of secure and scalable landing zones
* Experience in configuring CI/CD pipelines using Azure Devops and Jenkins
* Worked with various application teams to create the pipelines in Azure Devops.
* Experience working in an agile/scrum development process
* Experience on docker and Azure Kubernetes Service (AKS)
* Developed IaC framework for Azure, GCP, and CC clouds, deploying 1000+ resources.
* Implemented containerization strategies with Docker and Kubernetes.
* Designed Azure infrastructure patterns for security, cost optimization, and network security.
* Implemented disaster recovery using Azure Site Recovery
* Migrated on-premises workloads to Azure.

**EDUCATION**

* Bachelor of Engineering in ECE from Satyabhama Science and Technology

(Deemed University) with 6.80 CGPA, Chennai

* Diploma in ECE from Sriram polytechnic college with 76%, Tiruvallur

**CERTIFICATIONS**

* [AZ-305: Designing Microsoft Azure Infrastructure Solutions](https://docs.microsoft.com/en-us/learn/certifications/exams/az-104)
* AZ-400: Microsoft Certified - DevOps Engineer Expert

**TECHNICAL SKILLS**

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| **Scripting Languages** | PowerShell, python, groovy |
| **Azure Services** | Virtual Machines, Azure App Service, Azure Storage, Azure AD, Azure Networking, Azure Security Center, Azure DevOps, Azure Sentinel, Azure Cost Management, Azure Resource Manager (ARM) templates, Bicep, ADF, ADLS and Databricks |
| **Cloud Architecture** | Landing zones, multi-tenant environments, microservices, serverless computing, disaster recovery |
| **DevOps** | Git, CI/CD pipelines, Infrastructure as Code (IaC) with Terraform, Ansible |
| **Database** | SQL, Azure SQL, Mysql |
| **Monitoring Tool** | Azure Monitor, Application insights, Datadog |
| **Cloud Platform** | Azure, AWS and open stack |
| **Security** | Secure coding practices, threat modeling, identity and access management, encryption |

**PROFESSIONAL EXPERIENCE**

**Organization: Tata Consultancy Services Limited**

**Project 1: SAP**

**Role: Azure Architect**

**Duration: Jun 2020 to till date**

* Experience in design and implementation of a secure and scalable landing zone for a large enterprise customer, enabling rapid cloud adoption and resource governance.
* Automated infrastructure provisioning and management using IaC tools, reducing deployment times and ensuring consistency.
* Migrated on-premises workloads to Azure, optimizing resource utilization and achieving significant cost savings.
* Designed and implemented a CI/CD pipeline for cloud deployments, improving development velocity and release quality.
* Developed and implemented security best practices for Azure environments, including Azure Security Center policies and role-based access control.
* Developing the IAC framework for Azure, GCP and CC cloud infrastructure and deployed more then 3000+ resources in the cloud infrastructure
* Good experience in creating the CI/CD pipeline using Jenkins for infrastructure deployment
* Proficient experience in creating the Terraform modules for Azure and GCP cloud infrastructure
* Implemented containerization strategies using Docker and orchestrated deployments with Kubernetes on Azure Kubernetes Service (AKS).
* Utilized Azure Integration Runtimes, including self-hosted runtimes for on-premises connectivity.
* Collaborated with development teams to containerize applications and deploy them using Helm charts.
* Experience in fixing the vulnerabilities for applications and infrastructure level
* Good knowledge and experience in Chef and run deck services for automation framework
* Scripting experience in python and PowerShell for automate the most of the Azure related services
* Developed self-service tool for Disk extension, VM Resize and Additional NIC provisioning for Azure and GCP, for OpenStack cloud used open stack SDK for automation
* Good experience of agile development methodology in designing and implementation of
* Continuous Integration and Delivery (CI/CD) methodology.
* Experience in Build Automation using Git, GitHub, MS-Build, Azure DevOps, Docker &, Azure Services which Reduces the effort of developers and operation team in performing maintenance and daily Operations.
* Automation of build process CI/CD pipelines using Azure DevOps, MS-Build, Azure Artifacts, GitHub, Power Shell.
* Strong knowledge on source controls concepts like Branches, Merges and Tags.
* Experience in using NPM and MS-Build as a build tool for building deployable java artifacts (WAR & EAR) from source code.
* Design and implement CI/CD pipelines using Azure DevOps to automate the build, test, and deployment of containerized applications to AKS
* Experience with containerization and orchestration (Docker, Kubernetes).
* Created Kubernetes manifest YAML files for various different micro services and from there put them in a GitLab repo, which reads and triggers the CI/CD pipeline based on the YAML configurations.
* Configured DockerFile for containerization for node.js and Angular apps.
* Deployed Azure Kubernetes Services (AKS) and Azure services to Azure cloud using IaC Terraform

**Project 2: M&S**

**Role: Devops Engineer**

**Duration: June 2019 to May 2020**

* Designed and implemented Azure solutions for various clients, including web applications, mobile apps, and data analytics platforms.
* Managed the entire cloud lifecycle, from infrastructure design and deployment to ongoing optimization and cost management.
* Collaborated with stakeholders to understand business needs and translate them into effective cloud solutions
* Creating the Branching and Merging Strategies for the development using Version Control System Git.
* Configured Jenkins CI tool for project and setup Nightly Builds. Automated the code deployment process in each environment (development, QA Staging, Production).
* Experience in developing Continuous Integration / Continuous delivery Pipelines
* Creating Different branch Policies to Protect Branches from unwanted merging
* Setting up pre and post deployment approvals before deployment to multiple stages in Release Pipeline.
* Automate static code analysis of source code for security risks, maintainability, and bugs using Sonar cloud in Build Pipeline.
* Creating Different types of variables invariable groups and used in release pipelines
* Creating Azure Key Vault for storing important Keys and used in Azure DevOps Release Pipeline instead of hard coding.
* 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
* Responsible for Maintaining and Administration of Git Version control tool.
* Performing Branching, tagging, Merging and Also take the backup of the code.
* Maintaining up of Maven build scripts and Tomcat application server creating artifacts using Maven
* Troubleshoot Build issues and coordinate with development team on resolving those build issues
* Responsible for Maintaining and Administration of Azure DevOps Continuous Integration Tool.
* Creating pipelines using Azure DevOps and deploy the infra using Terraform in Azure.
* Experience on Kubernetes and Azure DevOps and Boards and Azure repos.
* Performing deployments to multiple environments like Dev, QA, UAT & Production environments.
* Building Infrastructure on Azure Cloud which involves configuring\managing Compute and Storage services
* Creating and Managing Virtual Machines Scale Set with more granular auto-scaling rules
* Manage Azure Disk Encryption using Bit locker in Windows and DM-Crypt in Linux OS
* Implement Azure storage blobs and Azure files, configuration of diagnostics, monitoring and analytics.
* Troubleshoot Azure Virtual Machines: Linux/Windows connectivity issue.
* specialized in troubleshooting Azure VM deployments (ARM, CLI, PowerShell etc.).
* Deploying Azure VM’s, automate configuration Management using VM Extension
* Infrastructure and Application monitoring across production and non-production platform
* Configure VM backups and assign backup policies and monitor mail alerts for each
* Troubleshooting Azure Storage and VM performance (CPU, Memory, Network) issue
* Expert in Specialized and Generalized VM deployments

**Project 3: Newyork Life Insurance**

**Role: Cloud Consultant**

**Duration: Jan 2016 to June 2019**

* Experience in Azure IAAS environment (Compute/Storage/Virtual Networks).
* Experience on creating, configuring, maintaining, troubleshooting and scaling applications on Azure IAAS.
* Designing the Azure infrastructure patterns for application servers deployment and security aspects, cost optimization and network security with Hub and spoke model
* Experience in writing the terraform scripts for Azure infrastructure resource provisioning
* Experience on Deploying and configuring the PAAS services in Azure
* Creating Metrics for Azure services through Azure Monitor and Monitoring the Azure services through Azure Portal
* Experience on Deploying and configuring Azure load balancer, Application Gateway and troubleshooting
* Implementing the DR for Critical application servers using Azure Site recovery and performing the failover every half year
* Migrating on-premises workloads to Azure with Azure site recovery tool, lift and shift and rehost based on application, operating system compatibility
* Experience in creating Azure VM and Storages by using Azure PowerShell Script
* Hands on Experience on creating the Resource groups, VM’s, Vnet, configuring the Gateway, storage account, maintaining the Azure Active Directory.
* Good Knowledge of MS Azure Clustering & high Availability. Good Knowledge of Monitoring of MS Azure Services.
* Should have excellent oral and written communication skills. Maintained DEV, SIT, UAT, STAGE and PROD for various
* Worked with PowerShell script to manage Azure Resources Good understanding of Event Viewer logs with taking troubleshooting step
* Good knowledge of Delegation and Security of AD Object Knowledge of Active Directory PowerShell
* Experience on migrating the resources from one subscription to another subscription
* Experience on creating, configuring, maintaining, troubleshooting and scaling applications on Azure IAAS.
* Creating Metrics for Azure services through Azure Monitor and Monitoring the Azure services through 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
* Good Understanding knowledge and experience in MS Azure Services (IAAS with PowerShell) and Active Directory
* Worked on Azure Site Recovery and Azure Backup- Deployed Instances on Azure environments and in Datacentres 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.
* Created Azure Automation Assets, Graphical runbook, PowerShell runbook that will automate specific tasks

**Organization: Team lease services Private Limited**

**Client: Capgemini**

**Role: Associate**

**Duration: Oct 2014 to Dec 2015**

* Managing over 2000+ VMware servers 2008 and 2012 with vSphere client 5.5,6.0 Supervised 2000 VM servers for daily backups. Managing VPN user and Active Directory by resetting passwords, unlocking accounts, adding users, and GP.
* VMware ESXI 5.5,6.0 Host Server Installation, Configuration Maintenance, vSphere Suite with P2P and P2V, Virtual Machines Installation, Configuration Maintenance.
* Managed separate VMware clusters like QA, Development and Production.
* Worked on ESX and VM storage issues and also coordinated with the storage admin team.
* Configuring High Availability HA and Distributed Resource Scheduler DRS Creation of template
* Worked on Disaster Recovery Exercises for DR Plan for Production Servers.
* Deploying virtual servers using template and cloning of virtual server.
* Providing and maintaining user access in vCenter server and maintenance of vCenter server.
* Configuration and Maintenance of Microsoft Windows cluster Servers.
* Disk space increase using VMware converter and importing of virtual server using VMware converter.
* Monitored and managed performance of ESX servers and Virtual Machines.
* Install applications, applied patches, and software updates for Windows and UNIX/Linux servers
* Create virtual switches and port groups, configure virtual networking settings for redundancy by teaming up NICs, and configure network traffic, security and load balancing policies.
* Designed and Implemented Microsoft Active Directory.
* Created RHEL and Windows Virtual Machines as per the business requirements.
* Installed and Implemented VMware ESXI 5.0 host server with vSphere client. Configured HBAs and ISCSI San storage
* Involved in the creation of Test Cases, Tests Execution, logging and reporting Defects.
* Performed LUN management, RAID groups, storage groups

**Organization: Care IT solution Pvt Ltd**

**Client: Wipro**

**Role: Support Engineer**

**Duration: Nov 2012 to Oct 2014**

* Provide end-to-end technical support for hardware, software, and networking issues for a end user.
* Install, configure, and troubleshoot desktops, laptops, printers, and other peripheral devices.
* Collaborate with IT teams to deploy software updates, patches, and antivirus solutions.
* Conduct regular system audits to ensure compliance with security policies and optimize system performance.
* Resolve service desk tickets promptly, maintaining a high level of customer satisfaction.
* Train end-users on software applications and provide documentation for common troubleshooting procedures.
* Collaborate with vendors for hardware and software procurement, ensuring cost-effective solutions.