

# PROFESSIONAL SUMMARY

* Federal IRS OTCnet and ECP applications in Azure Gov cloud with FedRAMP High and Medium Compliance.
* 8 years on Azure, 10 years on AWS. 7+ years expertise in Data, Cloud Infra, Security, Identity & Compliance, Analytics, Migration, Containerization, Kubernetes and Application Integration.
* Total 17+ years of experience, 9 years worked in GTI (Global Technology Infrastructure) of JP Morgan Chase Bank, architecting AWS and Azure Cloud and On-Premise infrastructure at the bank.
* Expertise in Azure DevOps, Board, Releases, Pipelines, Repos with Azure App Service, Data Factory, SQLServer, TFS, Visual Studio, ARM Templates, Advanced Terraform/Terragrunt and Powershell.
* End User Computing and AVD hands-on experience on Azure as an Architect and as Sr. Lead Engineer.
* Azure Kubernetes Clustering Expert with Helm, Azure DevOps Docker Container Pipelines & Repos.
* Expertise in Jenkins and CircleCI pipelines, integrating with SCMs like Github, Bitbucket, Azure Repos etc.
* Infra As Code (IaC) with Terraform, ARM, CloudFormation, YAML/JSON, Bash, Powershell, Python and Go.
* Expertise with working on Azure services such as Azure AD, Functions, Application Gateways, Azure Service Fabric (ASF), CosmosDB, Azure SQL Databases, App Service, VM’s, VM Scale Sets, Blobs, Files, Queues, Tables, VNets, Load Balancers, CDN, Traffic Manager, Route Tables, OMS, Migration Projects, Database Migration, Server Migration, ExpressRoute.
* Azure B2C, B2B, O365, PowerApps, and other Microsoft SaaS managed application migrations.
* Azure Power platform Private integration with Azure Cloud, Power Automate Functions & Power Apps, Azure functions, Logic Apps and Teams Apps integrations for corporate.
* Worked on Snowflake SaaS in depth, Azure Databricks, Data Pipelines, Spark on Kubernetes and Hadoop systems.
* Expertise with working on AWS services such as VPC, IAM, EC2, ECS, Serverless Architecture (Lambda), Elastic Beanstalk, DynamoDB, Autoscaling, CloudFront, Route53, API Gateway, DirectConnect, S3, Kinesis, RDS, SQS, & SES. Developed several POCs on the same to prove the cost, performance and agility related efficiencies these services can bring.
* Experience within following engineering disciplines - Storage, Server OS, Networking, Messaging, Monitoring, Database, and Web technologies.
* Exposure of making business areas adopt digital strategy and explore the options of prospect, customer and partner self-service for their organizational success.
* Driving innovation with directly designing and developing proof of concepts on the AWS Cloud.

Cloud Certifications:

* Microsoft Certified: Azure Solutions Architect Expert
  + - Exam AZ-300: Microsoft Azure Architect Technologies
    - Exam AZ-301: Microsoft Azure Architect Design
  + AWS Certified Solutions Architect – Professional
    - Exam AWS Certified Solutions Architect – Associate
* AWS Certified Solutions Architect – Associate
  + Exam AWS Certified Solutions Architect – Associate
* Certified Kubernetes Administrator (CKA)
  + Linux Foundation Exam for Certified Kubernetes Administrator

TECHNICAL SKILLS:

Azure Cloud: Azure Compute (VM’s, VM Scale Sets, App Services, Containers, Availability Sets, Kubernetes), Azure Storage (Blobs, Files, Queues, Tables), Azure Database (SQL Databases, CosmosDB, Redis, MySQL, MariaDB), Azure Networking (VNets, Load Balancers, CDN, Traffic Manager, Route Tables), Azure Mgmt Tools (OMS, Templates, Monitor, App Insights), Azure Security, Identity & Compliance (Azure AD, Users, Groups), Azure Analytics (HD Insight, PowerBI, Data bricks, Data Lakes), Azure Migration (Migration Projects, Database Migration, Server Migration), Databricks, ADF

DevOps Technologies:

Azure: Azure Functions, Azure Boards, Azure Pipelines, Azure Repos, Azure Test Plans, Azure Artifacts

AWS: CodeBuild, CodePipeline, CodeCommit, CodeDeploy, CodeStar

Data: Snowflake, Databricks, SQL/NoSQL DBs, Datalake, Data Pipelines, ETL, Spark  
Open Source: Git, Github, GitLab, Jenkins, Terraform, Ansible, Chef, Puppet, Bamboo, Nomad, Nagios, QuerySurge, Vagrant, Consul, PagerDuty, Snort, Splunk, CFEngine, TeamCity, CircleCI.

AWS Cloud: EC2, Lightsail, Elastic Container Service, EKS, Lambda, Elastic Beanstalk S3, EFS, Glacier, Storage, Gateway, RDS, DynamoDB, Elasticache, Neptune, Redshift, VPC, CloudFront, Route53, API Gateway, DirectConnect, CloudWatch, AutoScaling, CloudFormation, CloudTrail, Config, Opsworks, Service Catalog, Systems Manager, IAM, Cognito, Secrets Manager, CloudDuty, SSO, Migration Hub, Database Migration, Server Migration.

On-Premise Infrastructure: OS: Windows, Linux. Database: Oracle, SQL, PL/SQL. Server, Network & Storage: IBM, Microsoft, VMware, DellEMC, Netapp, Cisco, Brocade, F5, Palo Alto & ZScaler.

Coding & Technologies: Shell, Python, JavaScript.

Methodologies & Tools: Agile, SCRUM, JIRA, Bitbucket, CVS, SVN, Clear Case.

PROFESSIONAL EXPERIENCE

IronRim July 2020 - Current

Azure Data & DevOps Architect

Client : Fiserv (Project with IRS (Internal Revenue Service))

Responsibilities :

* Worked on Application migrations of IRS applications of OTCnet (Over The Counter Network) and ECP (Electrinic Check Processing) applications from TWAI data centers to Azure Gov Cloud.
* Built myself from scratch the new TreasuryApps Azure Gov Tenant, IAM, Landing Zones, Subscriptions and Custom Azure DevOps Gov private environments.
* LogicApps Connectors, Application Setup and Integrations
* FedRAMP High Azure Government regulatory compliance built-in initiative.
* FedRAMP Moderate Azure Government regulatory compliance built-in initiative.
* Deploy and manage Azure Virtual Desktop (AVD) environments using ARM templates and PowerShell scripting, optimizing resource usage and session performance.
* Implement FSLogix for efficient user profile management and session persistence across Azure Virtual Desktop (AVD) environments.
* Configure MSIX App Attach for streamlined application delivery and management in virtualized AVD environments.
* Enforce security and compliance by configuring Multi-factor Authentication (MFA), Conditional Access, and Azure Security Center for virtual desktop environments.
* Followed Fedramp Fisma High and Fisma Medium 1100+ compliance requirements while building the Azure policies and other CIS & NIST standards in building Azure Cloud.
* EventGrid, Eventhub and Azure Functions with .Net/C# and used Event Driven Architecture.
* Created Hub and Spoke Azure architectures and wrote Azure Terraform modules from scratch and created Azure DevOps pipelines to deploy those architectures in Cloud.
* Tested post deployments using Terratest and did linting and other security testing on the code.
* Created security standards with Defender of Cloud, Firewalls, NSGs, UDRs, Gateways, Frontdoor.
* Worked with security teams at Federal departments and enabled application and infrastructure security.
* Azure Power platform Private integration with Azure Cloud, Power Automate Functions & Power Apps, Azure functions, Logic Apps and Teams Apps integrations for corporate.
* Azure API Management integration with App Gateway and App Services, Azure Kubernetes Cluster Service for Microservices Apps.
* Designed IAM solutions integrating Azure AD for identity management and access control with encryption protocols across the cloud.
* Conducted security assessments using Azure Security Center, identified vulnerabilities, and led remediation efforts to mitigate risks.
* Ensured GDPR and HIPAA compliance by designing security frameworks and policies that adhere to regulatory standards.
* Developed security policies and governance frameworks for Azure environments, collaborating with DevOps to enforce best practices.
* Azure SQL Database migration from Synapse Analytics to Azure SQL Database, also working thru PoC and Dev on Hyperscale to process large SQL queries.
* Implement and manage Snowflake’s Time Travel feature for querying historical data and recovering data from past states, ensuring auditability and data recovery for healthcare regulations.
* Develop and manage data sharing across different Snowflake accounts, leveraging Secure Data Sharing features to provide real-time data access to external partners (e.g., Payors and EMR systems).
* Implement zero-copy cloning for data versioning and efficient test environment creation, supporting rapid development cycles while maintaining data integrity.
* Use Snowflake’s multi-factor authentication (MFA) and role-based access controls (RBAC) to ensure robust security and compliance with regulatory requirements.
* Wrote and deployed Azure functions and logic apps.
* Enabled strict secret management standards with Azure via Key-vault policies, firewalls, IAM policies.
* Worked on EntraID SSO, B2C, B2B, O365 integrations, Service Connection automations, API permissions, Implicit and explicit auth permissions.
* Expert in web authentication protocols (OAuth, SAML), DNS sub-systems, TCP/IP, WNS, DHCP, and networking protocols, ensuring reliable and secure network communications.
* Configured and maintained Kerberos authentication, ensuring secure authentication protocols across Windows and Linux environments.
* Utilized configuration management tools such as Ansible, Salt, Chef, or Puppet to automate infrastructure provisioning and management across hybrid environments.
* Configured and maintained cyber defense tools like firewalls, IDS/IPS to protect against cyber threats and malicious traffic.
* Managed Identity and Access using Azure Entra ID and implemented IAM principles to secure access to cloud and on-premises resources.
* Configured and maintained Kerberos authentication, ensuring secure authentication protocols across Windows and Linux environments.
* Worked with application teams that did the penetration testing, SAST, DAST & IAST implementations.
* Hands-on with ARM templates, Bicep, Terraform via Azure DevOps pipelines and GitHub Actions Pipelines.
* Enabled data security by protecting databases via FedRAMP standards.
* Managed Azure Synapse and supported various data ingestion formats, leveraging storage, inline ingestion, and streaming ingestion processes.
* Utilized Azure Synapse advanced ingestion commands such as .dup-next-ingest, .dup-next-failed-ingest, and monitored ingestion failures using .show ingestion failures and .show streamingingestion failures commands.
* Conducted data export operations in Synapse to cloud storage, external tables, and SQL tables, including continuous data export solutions.
* Implemented and maintained cross-cluster schemas, database cursors, and query results cache for optimized data operations in Azure Synapse
* Secured remote work environments with VPNs and endpoint cyber security solutions to defend against malware and ransomware attacks.

Client : Johnson & Johnson (Contract)

Responsibilities :

* Building/Upgrading/Managing of of Terraform Code for all the environments
* Performed multiple Terraform upgrades from 0.11, 0.12, 0.14, 0.15, 1.0.11 and working towards 1.22.
* Design and implement tailored data solutions using Snowflake, specializing in healthcare data requirements.
* RBAC Management of Snowflake Platform, created DBs, Schemas, and objects.
* DevOps pipelines to integrate with Snowflake for deployment of objects.
* Lead the integration of Snowflake Discovery Data Store ensuring seamless data interoperability.
* Develop and maintain robust bulk data transfer processes and other platforms, prioritizing data integrity and security.
* Managed Azure AD with RBAC, MFA, and Conditional Access policies to secure user authentication and authorization.
* Architected Azure Key Vault for secure storage and management of encryption keys, secrets, and certificates.
* Implemented Azure Security Center to continuously monitor security posture and remediate threats across cloud resources.
* Leveraged Azure Sentinel for SIEM and SOAR capabilities, enabling proactive threat detection and incident response automation.
* Designed IAM solutions integrating Azure AD for identity management and access control with encryption protocols across the cloud.
* Conducted security assessments using Azure Security Center, identified vulnerabilities, and led remediation efforts to mitigate risks.
* Ensured GDPR and HIPAA compliance by designing security frameworks and policies that adhere to regulatory standards.
* Developed security policies and governance frameworks for Azure environments, collaborating with DevOps to enforce best practices.
* Microsoft O365 apps and PowerApps migration to SaaS migration.
* Automate virtual desktop and application deployments using Azure Resource Manager (ARM) templates, PowerShell scripting, and cloud automation best practices.
* Manage devices and endpoint compliance using Microsoft Endpoint Manager (Intune) and Autopilot for seamless device enrollment and management in Azure environments.
* Monitor and troubleshoot Azure Virtual Desktop (AVD) performance using Azure Monitor and Log Analytics, ensuring cost efficiency and session continuity.
* Design and implement device management strategies using Azure Active Directory (Azure AD) and Intune for endpoint security and policy enforcement.
* Provide for AVD environments, resolving issues related to device management, session performance, application access, and network connectivity.
* EventGrid and Azure Functions .Net/C# and CosmosDB database.
* Ensure cloud infrastructure security and compliance by integrating Azure Security Center and leveraging Conditional Access policies across AVD deployments.
* Facilitate both near-real-time and real-time data exchanges, optimizing system responsiveness and efficiency.
* Collaborate closely with stakeholders to define and meet data exchange requirements between EMRs.
* Optimize data architecture and streamline workflows to improve performance and scalability across data platforms.
* Expert in web authentication protocols (OAuth, SAML), DNS sub-systems, TCP/IP, WNS, DHCP, and networking protocols, ensuring reliable and secure network communications.
* Configured and maintained Kerberos authentication, ensuring secure authentication protocols across Windows and Linux environments.
* Worked on AzureRM version 1.x, 2.x, 3.x, worked on their syntax changes as Terraform upgrades are done.
* Building Helm Charts for Kubernetes Clusters and working on Dockerfile and related issues to help build containers.
* Building and managing DevOps Pipelines, classic and YAML, and testing via the use cases for success of pipeline usage.
* Working with Database SQL scripts for unmasking and masking of the data in the database tables and copying of masked data from prod to nonprod.
* Worked on Kubernetes Application migrations troubleshooting on working of pods, ingress, certs, AKS node pools, VMSS etc.
* Worked on Azure Networking Vnets, subnets, NSGs, UDRs, Firewall application and network rules, Private and Public Azure DNS mgmt.
* Worked on Angular and .Net Applications to be deployed in Azure App Services.
* Worked on App Services WebApp and FunctionApps and troubleshooting issues with deployment slots, app settings, diagnostics and other App Service settings
* Azure Power platform Private integration with Azure Cloud, Power Automate Functions & Power Apps, Azure functions, Logic Apps and Teams Apps integrations for corporate.
* Azure API Management integration with App Gateway and App Services, Azure Kubernetes Cluster Service for Microservices Apps.
* Worked on Keyvaults secrets, certs mgmt and integration with Azure DevOps variable groups.
* AzureAD integration with AKS Pod Identity, Azure DevOps Service Connections, Service Principals, and User and System Assigned Managed Identities.
* Deployed custom application workflows with Azure Logic Apps.
* Constructed integrated Azure design patterns with Azure Service Bus architecture designs with public-sub models. Used event driven architectures with Azure EventGrid and Event Hubs.
* Programming building and implementing applications in the cloud  (Azure) and delivering interactive web sites and user interfaces.
* Worked on Microsoft Tech stack .Net Core, C#, Visual Studio Code and developed micro services related to Microsoft Tech stack.
* Created Application migrations Docker containers for .Net, C#, integrating with micro services within Azure Kubernetes Cluster environments.
* Worked on Azure API Management: REST APIs, JSON, Swagger, Authentication mechanisms (OAuth2, JWT, TLS).
* AzureAD Groups, Users, SSO integration with applications, B2B and B2C onboarding for Applications.
* Worked on Azure DevOps Service Connections, Branch Policies and Security, Boards, Artifacts, Variable Groups, Test Cases and RBAC with Azure DevOps.
* Worked on policies related to Databricks and other Azure resources.
* Worked on Data and DevOps pipelines in Azure.
* Created RACI for Azure Application migrations and Application teams to determine the duties and responsibilities of each team.
* Managed and troubleshooted common issues related to Azure Synapse Studio, connectivity, UTF-8 text reading, and Spark job failures.
* Designed and maintained serverless SQL, Data Explorer, and Spark pools to facilitate comprehensive data analysis and reporting in Azure Synapse.
* Integrated Azure Synapse workspaces with Power BI for data visualization and pipeline automation for seamless data management.
* Implemented security measures for data exfiltration protection and access control policies across Azure Synapse environments.
* Utilized SIEM tools (e.g., Splunk, Azure Sentinel) for real-time cyber threat detection, monitoring, and response.

Client: Hershey’s (Contract)

Responsibilities :

* Worked on Snowflake DBs, Schemas, Objects and managed Roles and Privileges for Snowflake for all these resource types.
* Migrated data from Datalake Gen1 to Gen2 and integrated Datalake Gen2 with Snowflake.
* Created Data Pipelines using ADF and supported Databricks jobs in environments.
* Supported ETL jobs, Azure Data Factory Pipelines, and integration with Azure DevOps pipelines using Git.
* Worked on integrating Azure Storage Account and Azure Database with Snowflake SaaS.
* Application migrations Help support the migration of TBs of data to Snowflake.
* Develop PowerShell scripts and ARM templates to automate the provisioning and deployment process
* Azure API Management, Security, Cloud-to-Cloud Integration (Public, Private)
* Working on databases (SQL Server and MySQL).
* Azure Power platform Private integration with Azure Cloud, Power Automate Functions & Power Apps, Azure functions, Logic Apps and Teams Apps integrations for corporate.
* Wrote and deployed Azure functions and logic apps.
* Microsoft O365 apps and PowerApps migration to SaaS migration.
* EventGrid and Azure Functions .Net/C# and CosmosDB database.
* Worked on Managed disks, Azure Files, Blobs, Storage Cool and Archive Tier.
* Worked on Azure Monitor, Azure Log Analytics, Stream Analytics, Azure Queues.
* Automate virtual desktop and application deployments using Azure Resource Manager (ARM) templates, PowerShell scripting, and cloud automation best practices.
* Manage devices and endpoint compliance using Microsoft Endpoint Manager (Intune) and Autopilot for seamless device enrollment and management in Azure environments.
* Monitor and troubleshoot Azure Virtual Desktop (AVD) performance using Azure Monitor and Log Analytics, ensuring cost efficiency and session continuity.
* Design and implement device management strategies using Azure Active Directory (Azure AD) and Intune for endpoint security and policy enforcement.
* Implemented Key and Secrets management solutions using Azure KeyVault.
* Worked on ARM templates and Azure DevOps Pipelines to deploy in Azure all PaaS resources types.
* Worked on Azure AKS and ACR for Microservices based architectures.
* Continuously optimize query performance through query profiling, tuning complex joins, subqueries, and window functions, as well as leveraging result caching and automatic query optimization features.
* Implement best practices for clustering keys, partition pruning, and efficient data distribution strategies to reduce query costs and execution times for large healthcare datasets.
* Perform advanced tuning of the Snowflake virtual warehouses, optimizing resource consumption and query throughput during peak data loads and real-time analytics processes.
* Worked on Application migrations App Services WebApp and FunctionApps and troubleshooting issues with deployment slots, app settings, diagnostics and other App Service settings
* Deployed custom application workflows with Azure Logic Apps.
* Constructed integrated Azure design patterns with Azure Service Bus architecture designs with public-sub models. Used event driven architectures with Azure EventGrid and Event Hubs.
* Programming building and implementing applications in the cloud  (Azure) and delivering interactive web sites and user interfaces.
* Designed IAM solutions integrating Azure AD for identity management and access control with encryption protocols across the cloud.
* Conducted security assessments using Azure Security Center, identified vulnerabilities, and led remediation efforts to mitigate risks.
* Ensured GDPR and HIPAA compliance by designing security frameworks and policies that adhere to regulatory standards.
* Developed security policies and governance frameworks for Azure environments, collaborating with DevOps to enforce best practices.
* Worked on Azure API Management: REST APIs, JSON, Swagger, Authentication mechanisms (OAuth2, JWT, TLS).
* Worked on .Net Applications to be deployed in Azure that use Data platforms and DevOps.
* Worked on Keyvaults secrets, certs mgmt and integration with Azure DevOps variable groups.
* AzureAD integration with AKS Pod Identity, Azure DevOps Service Connections, Service Principals, and User and System Assigned Managed Identities.
* AzureAD Groups, Users, SSO integration with applications, B2B and B2C onboarding for Applications.
* Worked on Azure DevOps Service Connections, Branch Policies and Security, Boards, Artifacts, Variable Groups, Test Cases and RBAC with Azure DevOps.
* Developed and executed Azure Synapse Link integration for Apache Spark and Azure Synapse Pipelines to streamline data flow and machine learning processes.
* Ensured data governance and compliance by utilizing Azure Synapse's Data Catalog, access control management, and private endpoint configurations.
* Monitored and analyzed Azure Synapse Analytics performance using integrated monitoring tools and references for real-time data insights.
* Managed and troubleshooted common issues related to Azure Synapse Studio, connectivity, UTF-8 text reading, and Spark job failures.

Client: Navy Federal Credit Union

Responsibilities:

* Managed Azure Synapse and supported various data ingestion formats, leveraging storage, inline ingestion, and streaming ingestion processes.
* Expert in web authentication protocols (OAuth, SAML), DNS sub-systems, TCP/IP, WNS, DHCP, and networking protocols, ensuring reliable and secure network communications.
* Configured and maintained Kerberos authentication, ensuring secure authentication protocols across Windows and Linux environments.
* Utilized Azure Synapse advanced ingestion commands such as .dup-next-ingest, .dup-next-failed-ingest, and monitored ingestion failures using .show ingestion failures and .show streamingingestion failures commands.
* Conducted data export operations in Synapse to cloud storage, external tables, and SQL tables, including continuous data export solutions.
* Implemented and maintained cross-cluster schemas, database cursors, and query results cache for optimized data operations in Azure Synapse
* Worked on Application migrations ARM templates and Azure DevOps Pipelines to deploy in Azure all PaaS resources types.
* Worked on Azure AKS Application migrations and ACR for Microservices based architectures.
* In Azure DevOps, created pipelines to provision Kubernetes clusters with Linux/Windows Node Pools.
* Worked on full AzureAD integration with Kubernetes Clusters on Azure.
* Management of AKS configuration, Nodepools, Arc AKS builtin policies, Container Insights and AKS Kubenet and CNI networking configurations.
* Expertise in Azure DevOps, Board, Releases, Pipelines, Repos with Azure App Service, Data Factory, SQLServer, TFS, Visual Studio, ARM Templates, Advanced Terraform/Terragrunt and Powershell.
* Azure Kubernetes Clustering Expert with Helm, Azure DevOps Docker Container Pipelines & Repos.
* Worked on ARM templates, TemplateSpecs and Powershell Scripts to implement IaC end to end with Azure DevOps pipelines.
* Automate virtual desktop and application deployments using Azure Resource Manager (ARM) templates, PowerShell scripting, and cloud automation best practices.
* Manage devices and endpoint compliance using Microsoft Endpoint Manager (Intune) and Autopilot for seamless device enrollment and management in Azure environments.
* Monitor and troubleshoot Azure Virtual Desktop (AVD) performance using Azure Monitor and Log Analytics, ensuring cost efficiency and session continuity.
* Design and implement device management strategies using Azure Active Directory (Azure AD) and Intune for endpoint security and policy enforcement.
* Managed Azure AD with RBAC, MFA, and Conditional Access policies to secure user authentication and authorization.
* Architected Azure Key Vault for secure storage and management of encryption keys, secrets, and certificates.
* YAML pipeline migration for all classic pipelines for all environments.
* Azure Repos to GHE migration for all the AKS related repositories and deployments.
* Creation of new YAML pipeline and scripts for AKS API server cert rotation.
* Creation of new secrets management implementation, integrate Keyvaults for DevOps secrets.
* Updating of YAML pipelines for database scripts to work.
* Azure Power platform Private integration with Azure Cloud, Power Automate Functions & Power Apps, Azure functions, Logic Apps and Teams Apps integrations for corporate.
* Azure API Management integration with App Gateway and App Services, Azure Kubernetes Cluster Service for Microservices Apps.
* Wrote and deployed Azure functions and logic apps.
* Worked on ARM templates and Azure DevOps Pipelines to deploy in Azure all PaaS resources types.
* Worked on Azure AKS and ACR for Microservices based architectures.

Client: DFIN

Responsibilities:

* Design Cloud/AWS migration and transformation architecture for several JPMC applications.
* Using Flux to manage the deployment of Kubernetes Manifests files, Helm Charts and other tools pods like Fluentbit, Prometheous, Grafana, Istio.
* EventGrid and Azure Functions .Net/C# and CosmosDB database.
* Did basic implementation on Istio Traffic Management and Security Policies.
* Management of AKS configuration, Nodepools, Arc AKS builtin policies, Container Insights and AKS Kubenet and CNI networking configurations.
* Worked on Log Analytics, queries, logging management, cost mgmt on logs, and log retention policies.
* Worked on Azure policies for many resource types, mgmt groups, blueprints and other governance and compliance mechanisms available in Azure.
* Worked on Angular and .Net Applications to be deployed in Azure App Services.
* Worked on ARM templates, TemplateSpecs and Powershell Scripts to implement IaC end to end with Azure DevOps pipelines.
* Application migrations YAML pipeline migration for all classic pipelines for all environments.
* Azure Repos to GHE migration for all the AKS related repositories and deployments.
* Creation of new YAML pipeline and scripts for AKS API server cert rotation.
* Creation of new secrets management implementation, integrate Keyvaults for DevOps secrets.
* Updating of YAML pipelines for database scripts to work.
* Experience with laying strategy for infrastructure setup on AWS. Worked on setting up VM’s, Network connectivity and underlying infrastructure components such as VPC’s and Subnets.
* Experience with provisioning up EC2 and EBS instances for support specific application patterns such as External Web Apps, Internal Web Apps, Database and Data Warehouse Apps.
* Experience with provisioning required IAM roles and permissions and required Security Groups for different application tiers to communicate on the AWS platform.
* Provided Application migrations inputs and provisioned ELB’s where auto scaling of EC2 instances is required.

Client: Walgreens (Contract)

Responsibilities:

* + Managed and troubleshooted common issues related to Azure Synapse Studio, connectivity, UTF-8 text reading, and Spark job failures.
  + Designed and maintained serverless SQL, Data Explorer, and Spark pools to facilitate comprehensive data analysis and reporting in Azure Synapse.
  + Integrated Azure Synapse workspaces with Power BI for data visualization and pipeline automation for seamless data management.
  + Implemented security measures for data exfiltration protection and access control policies across Azure Synapse environments.
  + Automate virtual desktop and application deployments using Azure Resource Manager (ARM) templates, PowerShell scripting, and cloud automation best practices.
  + Manage devices and endpoint compliance using Microsoft Endpoint Manager (Intune) and Autopilot for seamless device enrollment and management in Azure environments.
  + Monitor and troubleshoot Azure Virtual Desktop (AVD) performance using Azure Monitor and Log Analytics, ensuring cost efficiency and session continuity.
  + Design and implement device management strategies using Azure Active Directory (Azure AD) and Intune for endpoint security and policy enforcement.
* Expert in web authentication protocols (OAuth, SAML), DNS sub-systems, TCP/IP, WNS, DHCP, and networking protocols, ensuring reliable and secure network communications.
* Configured and maintained Kerberos authentication, ensuring secure authentication protocols across Windows and Linux environments.
* Develop automated monitoring solutions using Snowflake's event-driven architecture (e.g., Streams and Tasks) for continuous data pipeline monitoring, error handling, and remediation.
* Implement custom alerting and notifications for key performance metrics, such as data latency, load times, and pipeline failures, using integration with external monitoring platforms (e.g., AWS CloudWatch, Azure Monitor).
* Automate Snowflake resource management using Infrastructure-as-Code (IaC) frameworks like Terraform or CloudFormation, ensuring consistent and scalable deployments across environments.
* Azure DevOps Service Connection (SPN), OAuth and PAT (Personal Access Tokens) Management. LEAP pipelines performance and resiliency
  + LEAP Python and PySpark code, environment review and DevOps feedback for optimization of existing pipelines and scripts
  + Managed Azure AD with RBAC, MFA, and Conditional Access policies to secure user authentication and authorization.
  + Architected Azure Key Vault for secure storage and management of encryption keys, secrets, and certificates.
  + VMSS image management pipeline for DevSecOps Agent Pools across multiple environments.
  + Worked on Azure Data Factory, Azure SQL Data Warehouse, Azure SQL Database, CosmosDB.
  + Develop custom features in Visual Studio based on specifications and technical designs in Azure Cloud.
  + Develop PowerShell scripts and ARM templates to automate the provisioning and deployment process
  + Azure API Management, Security, Cloud-to-Cloud Integration (Public, Private)
  + Working on databases (SQL Server and MySQL).
  + Deployed custom application workflows with Azure Logic Apps Application migrations
  + Constructed integrated Azure design patterns with Azure Service Bus architecture designs with public-sub models. Used event driven architectures with Azure EventGrid and Event Hubs.
  + Application migrations programming building and implementing applications in the cloud  (Azure) and delivering interactive web sites and user interfaces.
  + Worked on Microsoft Tech stack .Net Core, C#, Visual Studio Code and developed micro services related to Microsoft Tech stack.
  + Azure Power platform Private integration with Azure Cloud, Power Automate Functions & Power Apps, Azure functions, Logic Apps and Teams Apps integrations for corporate.
  + Azure Application migrations and API Management integration with App Gateway and App Services, Azure Kubernetes Cluster Service for Microservices Apps.
  + Wrote and deployed Azure functions and logic apps.
  + EventGrid and Azure Functions .Net/C# and CosmosDB database.
  + Event driven Pub/Sub model architecture triggering jobs and functions based on triggered events.
  + Created Docker containers for .Net, C#, integrating with micro services within Azure Kubernetes Cluster environments.
  + Worked on Azure API Management: REST APIs, JSON, Swagger, Authentication mechanisms (OAuth2, JWT, TLS).
  + Worked on Managed disks, Azure Files, Blobs, Storage Cool and Archive Tier.
  + Worked on Azure Monitor, Azure Log Analytics, Stream Analytics, Azure Queues.
  + Implemented Key and Secrets management solutions using Azure KeyVault.
  + Worked on ARM templates and Azure DevOps Pipelines to deploy in Azure all PaaS resources types.
  + Worked on Azure AKS and ACR for Microservices based architectures.
  + Worked on Angular and .Net Applications to be deployed in Azure App Services.
  + In Azure DevOps, created pipelines to provision Kubernetes clusters with Linux/Windows Node Pools.
  + Review of all the repository codebase for PySpark jobs and optimization
  + Azure Landing Zone review and recommendations for improvements
  + Creation of standard pipeline templates to be leveraged across all pipelines with standardization of use cases
  + Creation of PR Pipelines across all pipelines with throughly tested results so PRs can be approved based on successfully PR pipeline results
  + Branching policies review, branching strategy and standardization across all repos/pipelines
  + Creation of democratized data pipelines that are easy to plug and play for data engineering teams
  + Componentization of all complex and large data environments and related code in repos
  + Continuous toil estimation automated / semi-automated process to find opportunities to reduce toil
  + Review of major technical debts and plan to reduce it.
  + Breakdown larger pipelines into more smaller, nested and structured pipelines
  + Creation and centralization of architecture management process for Data Engineering and DevSecOps
  + Review of all the repository codebase for PySpark jobs and optimization
  + Snowflake build and release DevSecOps pipeline gaps analysis and improvements
  + Naming standards automation for resource deployments
  + Compliance environment requirements, auditing and reporting management on Azure and other data platforms
  + Creation of Error Budget model to ensure production reliability and alerts on specific metrics to manage quality degradation of pipelines by observing pipeline failure rates
  + Metrics, logs, queries and dashboards creation to ensure proper alerting in place with correct thresholds
  + Service dashboards for management to have the perfect central visibility with ability to go deeper into any related areas
  + AKS foundation architectural design, containerization strategy and proof of concept
  + GitOps for AKS configuration management
  + AKS networking, security and monitoring management with Istio
  + Workload Migration plan to Kubernetes (AKS) clusters for relevant workloads
  + Secured cloud environments (AWS, Azure) by applying cyber encryption standards, secure key management, and continuous compliance monitoring.

Client: Geico (Contract)

Responsibilities:

* Created Azure DevOps projects as necessary for the setup of environments based on the planning of DevOps organization.
* Developed from scratch many Terraform Modules, Scripts with Remote State and Locking in Azure and AWS.
* Worked on full AzureAD, Azure KeyVault, Azure Policy and Azure Monitor integration with VMSS based Kubernetes Clusters on AKS based Kubernetes Clusters.
* Create App Insights for Kubernetes Clusters and related resources that are provisioned.
* Wrote ARM templates to create ACR for use with Docker containers and another one modified for use with Helm Chart templates.
* Managed Azure AD with RBAC, MFA, and Conditional Access policies to secure user authentication and authorization.
* Architected Azure Key Vault for secure storage and management of encryption keys, secrets, and certificates.
* Implemented Azure Security Center to continuously monitor security posture and remediate threats across cloud resources.
* Leveraged Azure Sentinel for SIEM and SOAR capabilities, enabling proactive threat detection and incident response automation.
* Designed IAM solutions integrating Azure AD for identity management and access control with encryption protocols across the cloud.
* Conducted security assessments using Azure Security Center, identified vulnerabilities, and led remediation efforts to mitigate risks.
* Ensured GDPR and HIPAA compliance by designing security frameworks and policies that adhere to regulatory standards.
* Developed security policies and governance frameworks for Azure environments, collaborating with DevOps to enforce best practices.
* Wrote ARM template to create a pipeline that will provision Kubernetes clusters, build .NET Core/Nano Server applications, pipelines responsible for deploying .NET Core/Nano Server applications
* Wrote Azure DevOps Test templates to run smoke tests after each deployment to ensure basic functionality is not broken in the current commit, run performance tests after deploying to PQA only and run regression tests as needed.
* Worked .Net Applications to be deployed in Azure App Services.
* Wrote ARM and provisioned Kubernetes Clusters with Windows and Linux Node Pools
* Wrote ARM to create Container Registries for Containers and Helm Charts.
* Recommended Azure migration and design strategies with stakeholders and C-Level executives.
* Develop PowerShell scripts and ARM templates to automate the provisioning and deployment process
* Azure API Management, Security, Cloud-to-Cloud Integration (Public, Private)
* Working on databases (SQL Server and MySQL).
* Worked on Managed disks, Azure Files, Blobs, Storage Cool and Archive Tier.
* Worked on Application migrations, Azure Monitor, Azure Log Analytics, Stream Analytics, Azure Queues.
* Implemented Key and Secrets management solutions using Azure KeyVault.
* Worked on ARM templates and Azure DevOps Pipelines to deploy in Azure all PaaS resources types.
* Worked on Azure AKS Application migrations and ACR for Microservices based architectures.

Client: Marel (Contract)

Responsibilities:

* Worked on Data Pipelines in Azure Data Factory for ELT/ETL, Data Migrations, Data Transformation, Data Lake with Blobs, SQL DBs, Cosmos DBs and Storage Accounts.
* Worked on Azure Data Explorer (ADX) and Azure Data Factory related to IoT and Data Science data architectures.
* Strong understanding of event driven architectures utilizing APIs, Azure Event Grid, and Azure Service Bus.
* Deep understanding of Azure data storage technologies such as Azure Blob Storage, Azure Data Lake Gen2, Synapse, Azure SQL and the frameworks applied to each.
* Data modelling experience shaping and transforming data into third normal form and dimensional models.
* Worked on Data Lake file systems for large volumes of ingress and egress activities.
* Worked on big-data ecosystems such as Hadoop systems.
* Worked on Angular and .Net Applications to be deployed in Azure App Services.
* Worked on Azure Data Factory, Azure SQL Data Warehouse, Azure SQL Database, CosmosDB.
* Develop custom features in Visual Studio based on specifications and technical designs in Azure Cloud.
* Develop PowerShell scripts and ARM templates to automate the provisioning and deployment process
* Azure API Management, Security, Cloud-to-Cloud Integration (Public, Private)
* Working on databases (SQL Server and MySQL).
* Worked on Managed disks, Azure Files, Blobs, Storage Cool and Archive Tier.
* Worked on Azure Monitor, Azure Log Analytics, Stream Analytics, Azure Queues.
* Implemented Key and Secrets management solutions using Azure KeyVault.
* Worked on ARM templates and Azure DevOps Pipelines to deploy in Azure all PaaS resources types.
* Worked on Azure AKS and ACR for Microservices based architectures.
* In Azure DevOps, Application migrations created pipelines to provision Kubernetes clusters with Linux/Windows Node Pools.
* Event driven Pub/Sub model architecture triggering jobs and functions based on triggered events.
* Worked on full AzureAD integration with Kubernetes Clusters on Azure.
* Created AWS DevOps projects and setup of environments while planning of DevOps organization.
* Created Azure Kubernetes Cluster Auto-Scaler (VM/Node) by writing a per scale set type (Linux/Windows) ARM template to enable autoscaling.

Client: Medtronic (Contract)

Responsibilities:

* Worked on GIT to maintain source code in Git and GitHub repositories
* Created builds and release pipelines in VSTS and done deployments using SPN (secure endpoint connection) for implementing CI/CD.
* Implemented automation for deployments by using YAML scripts for massive builds and releases
* Created LTA (Logical Technical Architecture) diagrams using Microsoft Visio for Application migrations.
* Worked on Angular and .Net Applications to be deployed in Azure App Services.
* Used tools like Visual Studio Community Edition, Visual Studio Code, Power Shell ISE and SQL Server Management Studio.
* Worked with Agile methodology in XL Deploy and XL Release, CI/CD automation from scratch, Docker, Openshift)
* Built and Implemented complete CI stack to migrate from a Puppet stack in a colo to Terraform with Chef in AWS.
* Wrote shell scripts to handle server processing migrating applications from .Net to Python monitoring applications and server performance with Splunk and Jenkins.
* Worked on Jenkins to implement Continuous Integration and deployment into Tomcat /Web Logic Application Server.
* Developed applications and methods with Python for ETL, writing and reviewing code for server-side Python applications.
* Assist with configuration of Cloud Compute systems using OpenStack on Ubuntu, collaboration using Orchestration with Keystone, Kubernetes and other functions within Open Stack.
* Responsible for Configuring Kafka Consumer and Producer metrics to visualize the Kafka System performance and monitoring

Worked for 5 scrum teams (Java, AEM, Jenkins, Ant, Maven, SVN, git, Agile methodology, cucumber scripts, sonar, XL Deploy and XL Release, SharePoint, CI/CD automation from scratch, Docker.

Client: AT&T (Contract)

Responsibilities:

* Setup from scratch Azure architectures, implemented Azure foundations and performed migrations for multi-million dollar application workloads.
* Wrote Azure DevOps Pipelines to deploy .Net and Java applications in docker files, wrote helm charts, build docker containers and manages docker image lifecycle in ACR.
* In Azure DevOps, created pipelines to provision Kubernetes clusters with Linux/Windows Node Pools.
* Worked on full AzureAD integration with Kubernetes Clusters on Azure.
* Created AWS DevOps projects and setup of environments while planning of DevOps organization.
* Created Azure Kubernetes Cluster Auto-Scaler (VM/Node) by writing a per scale set type (Linux/Windows) ARM template to enable autoscaling.
* Worked on Azure Data Factory, Azure SQL Data Warehouse, Azure SQL Database, CosmosDB.
* Develop custom features in Visual Studio based on specifications and technical designs in Azure Cloud.
* Develop PowerShell scripts and ARM templates to automate the provisioning and deployment process
* Azure API Management, Security, Cloud-to-Cloud Integration (Public, Private)
* Working on databases (SQL Server and MySQL).
* Worked on Managed disks, Azure Files, Blobs, Storage Cool and Archive Tier.
* Worked on Azure Monitor, Azure Log Analytics, Stream Analytics, Azure Queues.
* Implemented Key and Secrets management solutions using Azure KeyVault.

Hanu Software Solutions Dec 2018 – July 2020

Azure Infra Architect

Client: State of Ohio Department of Health

Responsibilities:

* Managed Azure Synapse and supported various data ingestion formats, leveraging storage, inline ingestion, and streaming ingestion processes.
* Utilized Azure Synapse advanced ingestion commands such as .dup-next-ingest, .dup-next-failed-ingest, and monitored ingestion failures using .show ingestion failures and .show streamingingestion failures commands.
* Conducted data export operations in Synapse to cloud storage, external tables, and SQL tables, including continuous data export solutions.
* Implemented and maintained cross-cluster schemas, database cursors, and query results cache for optimized data operations in Azure Synapse
* Created Azure DevOps projects as necessary for the setup of environments based on the planning of DevOps organization.
* Expert in web authentication protocols (OAuth, SAML), DNS sub-systems, TCP/IP, WNS, DHCP, and networking protocols, ensuring reliable and secure network communications.
* Configured and maintained Kerberos authentication, ensuring secure authentication protocols across Windows and Linux environments.
* Developed from scratch many Terraform Modules, Scripts with Remote State and Locking in Azure and AWS.
* Worked on full AzureAD, Azure KeyVault, Azure Policy and Azure Monitor integration with VMSS based Kubernetes Clusters on AKS based Kubernetes Clusters.
* Create Application migrations App Insights for Kubernetes Clusters and related resources that are provisioned.
* Wrote ARM templates to create ACR for use with Docker containers and another one modified for use with Helm Chart templates.
* Wrote ARM template to create a pipeline that will provision Kubernetes clusters, build .NET Core/Nano Server applications, pipelines responsible for deploying .NET Core/Nano Server applications
* Wrote Azure DevOps Test templates to run smoke tests after each deployment to ensure basic functionality is not broken in the current commit, run performance tests after deploying to PQA only and run regression tests as needed
* Wrote ARM and provisioned Kubernetes Clusters with Windows and Linux Node Pools
* Wrote ARM to create Container Registries for Containers and Helm Charts.
* Recommended Azure migration and design strategies with stakeholders and C-Level executives.
* Helped with pricing on Azure, and comparison with other cloud providers such as AWS.
* Did ODH Portfolio review for Azure Migration to PAAS services like App Service, Azure SQL Server etc.
* Created Application migrations Pilot and POC environments for Azure Migration and created a plan to migrate for Azure.
* Meet with .Net/C# developers and worked on resolving critical Azure DevOps problems in Pipelines, Releases and recommended standard approaches.
* Created Azure ARM templates to provision Azure Resources in the cloud
* Architected standard designs for Azure PaaS migration.
* Deployed Migration Assistants for Azure App Service and Azure SQL Server Migrations.
* Did SQL Server Application migrations Database Assessments with DBAs, went over the DB issues and remediation plan to prepare for SQL Server database migration to Azure.
* Worked on Azure Data Factory to prove it as a go to solution to integrate On-premise with Azure.

Client: McGrawHill Education

Responsibilities:

* Wrote Azure DevOps Pipelines to deploy .Net and Java applications in docker files, wrote helm charts, build docker containers and manages docker image lifecycle in ACR.
* In Azure DevOps, created pipelines to provision Kubernetes clusters with Linux and Windows Node Pools.
* Worked on full AzureAD integration with Kubernetes Clusters on Azure.
* Created AWS DevOps projects as necessary for the setup of environments based on the planning of DevOps organization.
* Developed from scratch many Terraform Modules, Scripts with Remote State and Locking in Azure and AWS.
* Create and Test Server Core, Nano Server and Linux Docker Container Images and deploy them in Kubernetes Clusters.
* Wrote a re-usable parameterized Chart.yaml, Configmap.yaml, Deployment.yaml, Default Values.yaml, Environment Specific Values (dev, pqa, prod....), Horizontal Pod Auto-Scaler (HPA).
* Wrote standard ingress.yaml, and a canary.yaml for use with standard yaml in blue green deployment process.
* Worked on full AzureAD, Azure KeyVault, Azure Policy and Azure Monitor integration with VMSS based Kubernetes Clusters on AKS based Kubernetes Clusters.
* Created Azure Kubernetes Cluster Auto-Scaler (VM/Node) by writing a per scale set type (Linux/Windows) ARM template to enable autoscaling.
* Created Network Policy with a default deny all, allow kube-dns/kube-system egress on port 53 TCP/UDP, allow port 443 only ingress, optional SQL Server port 1433 TCP egress yaml.
* Create Cluster Roles for Cluster, network, namespace, user, service, application, ingress roles for Admin, Management, Read Only
* Worked on Azure Policies to enforce PCIDSS compliance requirements.
* Created Istio Policies, Service Mesh and integrated with Azure Policies for Compliance.
* In Azure DevOps, created pipelines to provision Kubernetes clusters and create pipelines.
* Architected Azure PAAS and IAAS cloud environments for .NET applications with Azure DevOps integration across multiple subscriptions.
* Extensive experience migrating .NET applications into Azure App Service with Azure SQL Server database, setting up Web Jobs, Powershell scripts, and Azure DevOps integration.
* Migrated to Azure with and without Azure SQL Server Migration Assistant, Azure App Service Migration Assistant, SFTP migrations to App Service and setting up non-impacting zero downtime migrations.
* Designed and configured Azure Virtual Networks (VNets), subnets, Azure network settings, DHCP address blocks, DNS settings, security policies and routing.
* Event-driven Azure Function Apps with CosmosDB database backend.
* Automate deployment of VMs, VMSS, Storage, Networking, Load Balancing, containers and various other resources using ARM templates, Powershell, Visual Studio, Terraform, Ansible and Jenkins
* Using Azure Site Recovery (ASR) for ON-Premise to Azure and AWS to Azure migrations of VMs.
* Worked on Azure Data Factory, Azure SQL Data Warehouse, Azure SQL Database, CosmosDB.
* Develop Application migrations custom features in Visual Studio based on specifications and technical designs in Azure Cloud.
* Develop PowerShell scripts and ARM templates to automate the provisioning and deployment process
* Azure API Management, Security, Cloud-to-Cloud Integration (Public, Private)
* Working on databases (SQL Server and MySQL).
* Worked on Managed disks, Azure Files, Blobs, Storage Cool and Archive Tier.
* Worked on Azure Monitor, Azure Log Analytics, Stream Analytics, Azure Queues.
* Implemented Key and Secrets management solutions using Azure KeyVault.
* Developed and enforced cyber access control policies using role-based access control (RBAC) and least privilege principles.

Client: Grupo Bimbo

Responsibilities:

* Developed from scratch many Terraform Modules, Scripts with Remote State and Locking in Azure and AWS.
* Deployed NextGen VM-Series Palo Alto Firewalls in AWS and Azure from scratch, built architecture, pricing, POC, implementation and released in production by migrating routes cutover.
* Automate deployment of VMs, VMSS, Storage, Networking, Load Balancing, containers and various other resources using ARM templates, Powershell, Visual Studio, Terraform, Ansible and Jenkins
* Using Azure Site Recovery (ASR) for ON-Premise to Azure and AWS to Azure migrations of VMs.
* Worked on Azure Data Factory, Azure SQL Data Warehouse, Azure SQL Database, CosmosDB.
* Develop custom features in Visual Studio based on specifications and technical designs in Azure Cloud.
* Develop PowerShell scripts and ARM templates to automate the provisioning and deployment process
* Azure API Management, Security, Cloud-to-Cloud Integration (Public, Private)
* Working on databases (SQL Server and MySQL).
* Worked on Managed disks, Azure Files, Blobs, Storage Cool and Archive Tier.
* Expert in web authentication protocols (OAuth, SAML), DNS sub-systems, TCP/IP, WNS, DHCP, and networking protocols, ensuring reliable and secure network communications.
* Configured and maintained Kerberos authentication, ensuring secure authentication protocols across Windows and Linux environments.
* Worked on Azure Monitor, Azure Log Analytics, Stream Analytics, Azure Queues.
* Implemented Key and Secrets management solutions using Azure KeyVault.
* Worked on bulk data migrations that used Azure Import/Export and Azure Databox.
* Secured cloud environments Azure by applying cyber encryption standards, secure key management, and continuous compliance monitoring.

# JP Morgan Chase & Co. March 2010 – October 2018

# Solutions Architect

Responsibilities:

* Managed Azure Synapse and supported various data ingestion formats, leveraging storage, inline ingestion, and streaming ingestion processes.
* Utilized Azure Synapse advanced ingestion commands such as .dup-next-ingest, .dup-next-failed-ingest, and monitored ingestion failures using .show ingestion failures and .show streaming ingestion failures commands.
* Conducted data export operations in Synapse to cloud storage, external tables, and SQL tables, including continuous data export solutions.
* Implemented and maintained cross-cluster schemas, database cursors, and query results cache for optimized data operations in Azure Synapse.
* Managed and troubleshooted common issues related to Azure Synapse Studio, connectivity, UTF-8 text reading, and Spark job failures.
* Managed Azure AD with RBAC, MFA, and Conditional Access policies to secure user authentication and authorization.
* Architected Azure Key Vault for secure storage and management of encryption keys, secrets, and certificates.
* Implemented Azure Security Center to continuously monitor security posture and remediate threats across cloud resources.
* Leveraged Azure Sentinel for SIEM and SOAR capabilities, enabling proactive threat detection and incident response automation.
* Designed IAM solutions integrating Azure AD for identity management and access control with encryption protocols across the cloud.
* Conducted security assessments using Azure Security Center, identified vulnerabilities, and led remediation efforts to mitigate risks.
* Ensured GDPR and HIPAA compliance by designing security frameworks and policies that adhere to regulatory standards.
* Developed security policies and governance frameworks for Azure environments, collaborating with DevOps to enforce best practices.
* Expert in web authentication protocols (OAuth, SAML), DNS sub-systems, TCP/IP, WNS, DHCP, and networking protocols, ensuring reliable and secure network communications.
* Configured and maintained Kerberos authentication, ensuring secure authentication protocols across Windows and Linux environments.
* Designed and maintained serverless SQL, Data Explorer, and Spark pools to facilitate comprehensive data analysis and reporting in Azure Synapse.
* Integrated Azure Synapse workspaces with Power BI for data visualization and pipeline automation for seamless data management.
* Implemented security measures for data exfiltration protection and access control policies across Azure Synapse environments.
* Setup Application migrations from scratch Azure architectures, implemented Azure foundations and performed migrations for multi-million dollar application workloads.
* Deployed custom application workflows with Azure Logic Apps.
* Constructed integrated Azure design patterns with Azure Service Bus architecture designs with public-sub models. Used event driven architectures with Azure EventGrid and Event Hubs.
* Programming building and implementing applications in the cloud  (Azure) and delivering interactive web sites and user interfaces.
* Worked on Microsoft Tech stack .Net Core, C#, Visual Studio Code and developed micro services related to Microsoft Tech stack.
* Created Docker containers for .Net, C#, integrating with micro services within Azure Kubernetes Cluster environments.
* Worked on Azure API Management: REST APIs, JSON, Swagger, Authentication mechanisms (OAuth2, JWT, TLS).
* Wrote Azure DevOps Pipelines to deploy .Net and Java applications in docker files, wrote helm charts, build docker containers and manages docker image lifecycle in ACR.
* In Azure DevOps, created pipelines to provision Kubernetes clusters with Linux/Windows Node Pools.
* Worked on full AzureAD integration with Kubernetes Clusters on Azure.
* Created AWS DevOps projects and setup of environments while planning of DevOps organization.
* Created Azure Kubernetes Cluster Auto-Scaler (VM/Node) by writing a per scale set type (Linux/Windows) ARM template to enable autoscaling.
* Created Network Policy with a default deny all, allow kube-dns/kube-system egress on port 53 TCP/UDP, allow port 443 only ingress, optional SQL Server port 1433 TCP egress yaml.
* Create Cluster Roles for Cluster, network, namespace, user, service, application, ingress roles for Admin, Management, Read OnlyExtensive experience migrating .NET applications into Azure App Service with Azure SQL Server database, setting up Web Jobs, Powershell scripts, and Azure DevOps integration.
* Create Windows and Linux VMs on all 6 different categories on instance types.
* Automate deployment of VMs, VMSS, Storage, Networking, Load Balancing, containers and various other resources using ARM templates, Powershell, Visual Studio, Terraform, Ansible and Jenkins
* Using Azure Application migrations Site Recovery (ASR) for ON-Premise to Azure and AWS to Azure migrations of VMs.
* Worked on Azure Data Factory, Azure SQL Data Warehouse, Azure SQL Database, CosmosDB.
* Worked on Managed disks, Azure Files, Blobs, Storage Cool and Archive Tier.
* Worked on Azure Monitor, Azure Log Analytics, Stream Analytics, Azure Queues.
* Implemented Security using TrendMicro, NessusPro in Azure
* Implemented Key and Secrets management solutions using Azure KeyVault.
* Worked on bulk data migrations that used Azure Import/Export and Azure Databox.
* Worked on Azure Functions for Azure IAAS and PAAS service integrations, DR implementations, triggering jobs.
* Worked on Azure Functions with azure queue based triggers, moving files, customize notification triggers.
* Deployed Azure IaaS virtual machines (VMs) and Cloud services (PaaS role instances) into secure VNets.
* 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 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).
* Design Cloud/AWS migration and transformation architecture for several JPMC applications.
* Experience with laying strategy for infrastructure setup on AWS. Worked on setting up VM’s, Network connectivity and underlying infrastructure components such as VPC’s and Subnets.
* Experience with provisioning up EC2 and EBS instances for support specific application patterns such as External Web Apps, Application migrations, Internal Web Apps, Database and Data Warehouse Apps.
* Experience with provisioning required IAM roles and permissions and required Security Groups for different application tiers to communicate on the AWS platform.
* Provided inputs and provisioned ELB’s where auto scaling of EC2 instances is required.
* Identified and suggested application patterns which are suitable for Serverless architecture and provided input on how to move to services such as Lambda.
* Setting up ECS service with underlying Docker instances.
* Designed and configured Azure Virtual Networks (VNets), subnets, Azure network settings, DHCP address blocks, DNS settings, security policies and routing.
* Deployed Azure IaaS virtual machines (VMs) and Cloud services (PaaS role instances) into secure VNets.
* 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 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).
* Expertise in DevOps, Release Engineering, Configuration Management, Cloud Infrastructure, Automation. It includes Amazon Web Services (AWS), Ant, Maven, Jenkins, Chef, Bitbucket, GitHub, Build Forge, CVS, Tomcat, LINUX etc.
* Worked on CI/CD tool Jenkins to automate the build process from version control tool into testing and production environment.
* Worked on CI build agents, on Docker and Redhat Linux platform.
* Maintained SVN & Bitbucket repositories for DevOps environment: automation code and configuration
* Automated deployment of all resources related to my work as the Lead Python Developer.
* Developing Docker images to support Development and Testing Teams and their pipelines, distributed Jenkins etc
* Working closely with Architecture, Development, Test, Security and IT Services teams.
* Developing scripts for build, deployment, maintenance and related tasks using Jenkins, Docker, Maven, Python and Bash.
* Application migrations, Installing, configuring and maintaining Continuous Integration, Automation and Configuration Management tools.
* Design and develop continuous deployment pipeline, integrating Bitbucket, Git, Jenkins, across geographically separated hosting zones in AWS.
* EMC Storage experience in Administration/Design and Implementation on EMC Storage arrays, Symmetrix, Clariion, Celerra or Centerra.
* Experience in capacity planning, Fibre Channel, Zoning, fabric topologies, volume and file systems management, clustering, replication and mirroring, backup/archive and recovery solutions, high availability, storage consolidation/migration, performance and tuning.
* Experience in SRDF and timefinder configuration in EMC storage environment.
* Experience planning, installing and administering of SAN/NAS environments with large enterprise storage systems, including Hitachi HNAS, EMC Isilon, IBM V7000. SAN fabrics, SAN Volume Controller (SVC), McData and Brocade switching technology.
* Experience in Designing, Configuring and troubleshooting Fabric Environment constituting Brocade/ McData/ Connectrix/ Cisco switches.
* Responsible for Data ONTAP 7-mode operations, including setting up Vfilers, Vfiler DR, Snapmirror, Snapvault, CLI, SnapManager, SMVI backups of VM’s, SnapDrive.
* Responsible for Clustered Data ONTAP operations, including creating vservers, volumes, qtrees, setting up namespaces, setting up and implementing Export Policies and netgroups (NFS), setting up snapmirrors to DR site, and troubleshooting and escalating issues to NetApp when necessary.
* Proficient in the use of DFM/Operations Manager – configured to monitor filers worldwide and email alerts when thresholds are reached (% full aggrs/volumes/qtrees, loss of connectivity, performance highs/lows, latency).
* Data Migration using NDMP, Snapmirror and Qtree Snapmirror across same and different domains within the Enterprise, as well as Virtual Storage Console in the migration of VMs.
* Responsible for performing Data ONTAP upgrades (non disruptive).

Experience working on storage subsystem I/O, NIC, and HBA, RAID, networking technologies including protocols, NFS, CIFS, TCP/IP, routing and QoS of LAN and WAN

* Lead and assist on setup and removal of SAV for NAS and Virus cleanup. o Implement NFS, CIFS and Security on filers across the Enterprise.
* Implement Deduplication, setup snapshots.
* Setup and Implementation of DFS to access CIFS shares for all supported filers.
* Design, planned and implemented solutions: Unix (Solaris, HP-UX, AIX, RHEL, SuSEL) Severs (Sun

Sparc/X86, HP RISC/BL/DL, IBM RS/6000, Dell) Consolidation, Storage (EMC) Consolidation, SAN (Brocade, Cisco, Qlogic) consolidation, Backup Solution, Data Center Consolidation, DR Solution that resulted in cost savings of $1+ millions.

* Setup NFS/CIFS clients on all platforms (Centos, Windows and Solaris).
* Developed key documentations and templates in Excel, World and Visio format that were used by various organizations to maintain and troubleshoot their environment.
* Automated Operating installations using Jumpstart, Kickstart, AutoYAST.
* Managed cyber patch management programs to ensure timely application of critical updates across all systems.

# American Solutions Inc., Newark DE January 2008 – Feb 2010 Systems Administrator/SAN Admin

Responsibilities:

* Developed, tested, documented and implemented quality infrastructure within targeted due dates. Resolve complex infrastructure issues with no guidance.
* Responsible for over 150 controllers around the world and over 5 PB of data.
* EMC Storage experience in Administration/Design and Implementation on EMC Storage arrays, Symmetrix, Clariion, Celerra or Centerra.
* Experience in capacity planning, Fibre Channel, Zoning, fabric topologies, volume and file systems management, clustering, replication and mirroring, backup/archive and recovery solutions, high availability, storage consolidation/migration, performance and tuning.
* Experience in SRDF and timefinder configuration in EMC storage environment.
* Experience planning, installing and administering of SAN/NAS environments with large enterprise storage systems, including Hitachi HNAS, EMC Isilon, IBM V7000. SAN fabrics, SAN Volume Controller (SVC), McData and Brocade switching technology.
* Experience in Designing, Configuring and troubleshooting Fabric Environment constituting Brocade/ McData/ Connectrix/ Cisco switches.
* Responsible for Data ONTAP 7-mode operations, including setting up Vfilers, Vfiler DR, Snapmirror, Snapvault, CLI, SnapManager, SMVI backups of VM’s, SnapDrive.
* Responsible for Clustered Data ONTAP operations, including creating vservers, volumes, qtrees, setting up namespaces, setting up and implementing Export Policies and netgroups (NFS), setting up snapmirrors to DR site, and troubleshooting and escalating issues to NetApp when necessary.
* Proficient in the use of DFM/Operations Manager – configured to monitor filers worldwide and email alerts when thresholds are reached (% full aggrs/volumes/qtrees, loss of connectivity, performance highs/lows, latency).
* Data Migration using NDMP, Snapmirror and Qtree Snapmirror across same and different domains within the Enterprise, as well as Virtual Storage Console in the migration of VMs.
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* Setup and Implementation of DFS to access CIFS shares for all supported filers.
* Design, planned and implemented solutions: Unix (Solaris, HP-UX, AIX, RHEL, SuSEL) Severs (Sun

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* Developed key documentations and templates in Excel, World and Visio format that were used by various organizations to maintain and troubleshoot their environment.
* Automated Operating installations using Jumpstart, Kickstart, AutoYAST.

# EDUCATIONAL BACKGROUND

* MS - Master of Science in Telecommunication – State University of New York (SUNY), Utica NY, USA.
* BE - Bachelor of Engineering in Electronics and Telecommunications – Nagpur University, Nagpur, India.