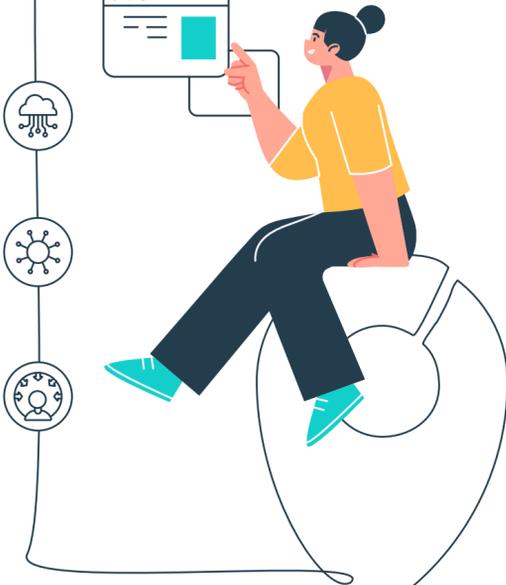




Assisted an airline solutions provider by designing and implementing an optimal cost-effective and scalable Azure Cloud solution

About the Client

- A leading cloud-tech solutions provider with products focused on the airline industry
- Core specialties include development in IATA New Distribution Capabilities and ONE Order resolutions standards
- Aims to help the airline industry evolve from a ticket-based system to a customer-centric world of the future



Business Needs

Optimize cloud setup with the following aspects:

- 24X7 availability for CoreDNS and Metrics Server
- Autoscaling of cluster
- Ensuring secured accessibility of APIs for internal and external usage
- Effective logging mechanism
- Support the multi-tenant B2B and B2C applications with API assistance
- Supervised storage, retrieval and archiving of data
- Effective disaster recovery strategy
- Stringent authentication rules with enhanced user management
- Superior data security for multi-tenant applications



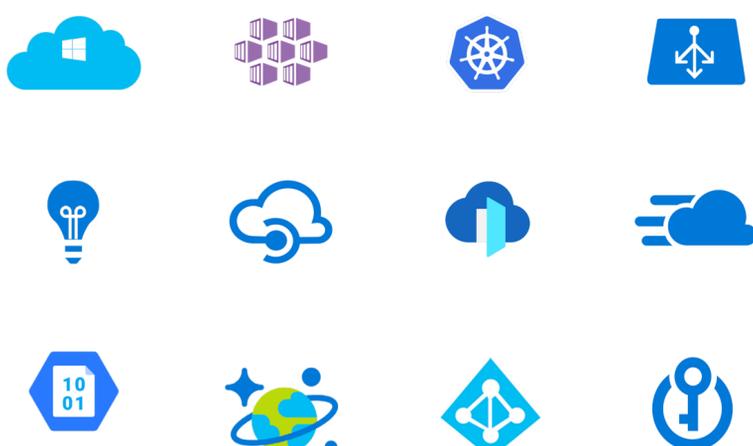
- Utilized Azure Kubernetes Services (AKS) to manage clusters for services hosted on agent nodes
- Used AKS cluster auto-scaler for adding nodes to the cluster automatically
- Created a public AKS cluster and APIs that are accessible to permissible IP ranges
- K8s Load Balancer Service used to access application services from external environments
- App Insight Agent 3.0+ utilization that enabled coddles logging mechanism to collect automatic metrics for analysis
- Hosted containerized applications through Azure Container Instance (ACI)
- Organized 150+ APIs and exposed needed ones to the external sphere using API Management (APIM) from Azure
- Conducted path-based routing for the primary and secondary region using Front Door provided by Azure

Solutions

- Hosting SPA sites on Azure Blob as a static websites
- Harnessed Azure CDN and Blob storage for terabytes storage, and archival & catching of static data
- Utilized Cosmo DB for NoSQL database usage
- Implemented B2B and B2C flavor of Azure Active Directory for authentication
- Stored API keys, passwords, certificates, and cryptographic keys using the Key Vault service



Technology Stack



Business Impact

- Launched the start-up phase of the application with dynamic capabilities scaled as per B2B or B2C demands with optimized Azure cloud setup
- Improved business continuity with the help of a highly secure setup with failover support
- Smooth storage planning helped in optimizing cost without compromising on scaling capabilities
- Easy on-boarding of new B2B partners without impacting existing B2B or B2C users
- Enhanced the multi-tenant application with an isolated database and secured data storage that helped gain better traction



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