

CASE STUDY



Migration from Onpremise to Azure Cloud for a leading airline company based out of South East Asia

CHALLENGES

The client reached out to Euphoric's team with the following challenges in place:

1. **Complex Infrastructure:** The client's data center housed numerous VMware VMs with interconnected applications, databases, and services. Migrating this complex environment while ensuring data integrity and application compatibility was a primary challenge.
2. **Minimal downtime:** The financial services sector operates around the clock. The client required a migration strategy that would minimize downtime during the migration process to avoid any negative impact on customer services.
3. **Resource Allocation:** Selecting the appropriate Azure virtual machine sizes and configurations to match the on-premise VMs' performance was critical to ensure consistent application performance post-migration.
4. **Network Connectivity:** Ensuring a seamless network transition from the on-premise environment to Azure's cloud network infrastructure required careful planning to maintain secure and efficient communication.

SOLUTIONS

1. **Assessment and Planning:** An in-depth assessment of the on-premise VMware environment was conducted to identify VM dependencies, application interconnections, and performance characteristics. A detailed migration plan was devised, outlining the migration sequence, timelines, and resource allocation.
2. **Azure Cloud Design:** Azure resources were provisioned to replicate the on-premise VM environment. Azure Virtual Machines were chosen based on the performance and resource requirements of the existing VMs.
3. **Network Connectivity:** Azure Virtual Network was established to mirror the on-premise network configuration, including subnets and security groups. Site-to-Site VPN or Azure ExpressRoute was configured for secure data transfer.
4. **Data Migration:** The client used Azure Site Recovery to replicate on-premise VMs to Azure. Once replication was established, a final synchronization was performed to minimize data loss during cutover.
5. **Testing and Validation:** A comprehensive testing phase was executed to ensure that the migrated VMs functioned properly in the Azure environment. Application functionality, data integrity, and performance were rigorously tested.
6. **Cutover and Validation:** After successful testing, a scheduled maintenance window was chosen for the cutover. During this window, the final synchronization was completed, and DNS records were updated to point to the new Azure VMs.

BENEFITS

The client gained a complete set of following benefits from the solution provided by Euphoric:

1. **Minimized Downtime:** By using the lift-and-shift approach, ABC Enterprises was able to minimize downtime during the migration. This ensured that critical financial services remained operational without disruptions.
2. **Application compatibility:** The migration process retained the integrity of interdependent applications, databases, and services, ensuring seamless functionality post-migration.
3. **Performance Consistency:** The Azure VMs were selected and configured to match the performance requirements of the on-premise VMs, ensuring consistent application performance.
4. **Scalability:** The client gained the flexibility to scale resources up or down as needed by taking advantage of Azure's scalability features.
5. **Cost Savings:** While the initial investment was required for Azure resources, the client anticipated long-term cost savings due to reduced hardware maintenance and increased efficiency.
6. **Security and compliance:** Azure's built-in security features and compliance certifications helped ensure that data remained secure and compliant throughout the migration process.

