

# TATA PROJECTS LIMITED CASE STUDY

## Tata Projects at a glance

Tata Projects is a leading infrastructure company in India, renowned for its commitment to quality and innovation. Tata Projects is recognized for its cutting-edge technology and sustainable solutions, contributing significantly to the nation's development.

## Key Highlights

- Migrated 300+ resources (100+ applications) within one month with minimal downtime.
- Successfully migrated over 1400 Data Factory pipelines in under an hour, ensuring uninterrupted data processing.
- Achieved rapid replication of Unity catalog data in 20 minutes, expediting Azure Databricks environment restoration.
- Implemented Layer 7 and Layer 4 protection with a zero-trust security approach for each application.
- Restored 40+ TB file server data to Azure NetApp with permissions intact.

## CHALLENGES

This project had limited documentation for the 300+ resources (including 100+ applications) slated for migration within a tight one-month timeframe. There was a need for a detailed assessment of the target environment and the migration of 40 TB of file server data to Azure NetApp while preserving user permissions. Migration of 1400 pipelines within Azure Data Factory. There was a need to ensure uninterrupted service and maintain the continuous availability of 130+ dashboards crucial for business operations – all within a limited 1-hour downtime window.

## SOLUTION

In-depth application assessments informed LLD/HLD creation for traffic flow, and a detailed migration plan ensured a smooth transition. The secure landing zone prioritized scalability and utilized PAM for access control. A specialized tool restored 40 TB of file server data to Azure NetApp with permissions intact. The data and analytics migration maintained uninterrupted service and continuous dashboard availability within a tight timeframe.

| Service Type      | Source On-Premises                         | Target Azure                        |
|-------------------|--|-------------------------------------|
| Compute Service   | Hyper-V, VMware & Physical                 | Azure virtual Machine               |
| Fileshare         | Windows Fileshare, NAS - Storage Solutions | Azure NetApp                        |
| Firewall          | Palo Alto                                  | Active-Active Palo Alto firewall    |
| Load Balancer     | Windows NLB                                | Azure Load balancer                 |
| WAF               | -  | Azure WAF                           |
| PAM Services      | PAM  | ARCON PAM                           |
| SIEM Tool         | PICO                                       | PICO                                |
| Hybrid Connection | -  | ExpressRoute Circuit & IPsec Tunnel |

## OUTCOME

The cloud migration project successfully transitioned 300+ resources with minimal disruption. Detailed planning and secure access controls ensured a smooth move, while specialized tools efficiently handled the 40 TB data migration, maintaining uninterrupted service and dashboard access.



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