

A global industrial minerals firm achieves improved data & app security by using **“Lift & Shift”** infrastructure migration on Azure



The customer is a leading provider of minerals and material solutions for the Industrial and Energy markets, with a broad array of high-quality products and the industry's most comprehensive and accessible distribution network.

The Customer Challenge

Built through the merging of two leading organizations, the customer had challenges in migrating solutions to the new Azure environment.

Project Management Office (PMO) is one such Application which they wanted to migrate to their newly built **Azure PaaS environment**.

There were many non-conventional deployment and implementation approaches used for PMO.

Key requirements include

- Deployment of PMO App across UAT and Production environments.
- Restoration of the database backups to UAT and Production
- Preparation of Functional Specification document
- Preparation of Technical Specification document.
- Preparation of Assessment & Recommendation document.

WinWire Solution

WinWire proposed several solutions for PMO App, which covers different tiers of the App, for example – Frontend tier, DB tier, Service tier; and even on functional tier as well. Below are the salient solutions proposed to the customer for PMO App.

Database:

- Remove Database access from the public network
- Implement Azure SQL Data replication
- Data traffic should be load balanced

Security

- Remove App access from the public network
- SSO should be implemented
- Critical configuration related info should not be easily accessible and human readable

Application

- Load balance the web traffic
- Upgrade App UI framework to the latest version
- Implement data caching to avoid multiple master data
- Use Visual Studio based deployment for UI App, instead of complex and multi-step node terminal and FileZilla

Functional

- Correction required for financial data display
- Implement RLS based data display
- Report publishing time is significantly high and should be minimized
- Remove hardcoded Project lifecycle value
- Multiple approver-based scenario has a flaw to promote any project to the next level

The Business Value

- Improved data and app security
- Better response time
- Easier manageability and maintainability
- Modern UI