

## Case Study

Industry: **Design and Construction**

# Leading Middle East Construction Firm Achieves 95% Storage Reduction with Tiger Bridge and Microsoft Azure



## Customer Overview

This regional design-build construction firm focuses on fast-track, turnkey delivery of low-rise commercial, industrial, and institutional projects, with thousands of completed developments across the Middle East, Africa, and Southeast Asia.

## Project Background

- Exponential data growth >70TB
- Massive file proliferation of 39+ million files
- Decentralized storage across 12 servers with 24 drives
- Data fragmentation across 7 locations
- Aging infrastructure

## Challenges and Opportunities

As the company's project portfolio grew over three decades, so did their data challenges. With operations spanning multiple continents and thousands of building projects, the company struggled with increasingly unmanageable data infrastructure.

The company faced exponential data growth exceeding 70TB comprising more than 39 million files spread across 12 servers. This decentralized storage architecture fragmented data across 7 global locations, making it difficult to maintain visibility and control.

Their aging infrastructure was reaching critical capacity limits, with servers nearly full and no space remaining for growth. However, the company recognized an opportunity: with most data being archival, intelligent tiering could dramatically reduce infrastructure costs if they could gain visibility into their access patterns.

"Our servers were nearing capacity. We knew the majority of our data was archival in nature, but we didn't want to continue expanding our on-premises infrastructure."

— IT Manager

## The Solution

The construction firm partnered with Tiger Technology to implement a comprehensive data management solution built on Tiger Bridge and Microsoft Azure Blob storage. The engagement began with understanding their data through an Executive Storage Assessment.

### Storage Assessment and Analysis

Tiger Technology conducted a detailed assessment examining every server and storage unit across the organization, analyzing:

- Access patterns and data lifecycle
- Size of current local volumes
- Data growth rate projections

The analysis revealed that local storage could be reduced to just 5-10% of total capacity while still accommodating local access to files up to 2 years old.

### Intelligent Data Tiering

The company implemented a three-tier storage strategy leveraging Azure Blob storage:

**Hot Tier:** Optimized for frequently accessed data with higher storage costs but lower access costs.

**Cool Tier:** For infrequently accessed data (30-day minimum), offering lower storage costs.

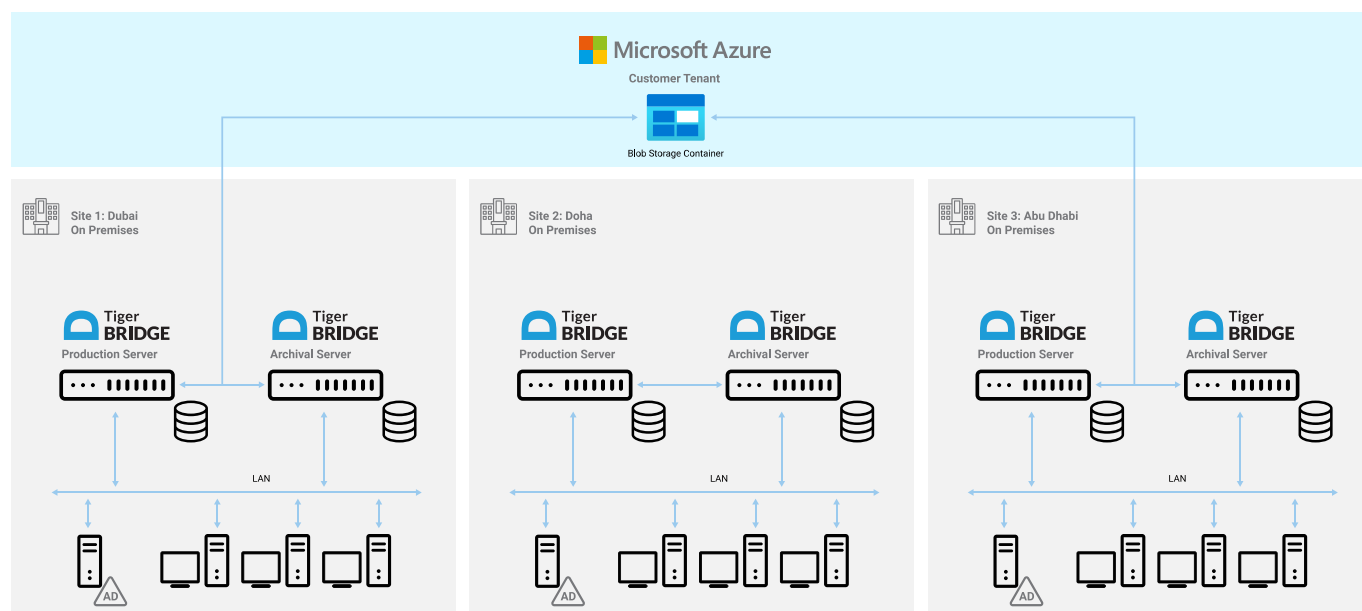
**Archive Tier:** For rarely accessed data with flexible latency (180-day minimum), providing lowest costs.

Tiger Bridge's recommended default tier was Cool storage, with frequently accessed data cached locally. The assessment identified specific servers where data could bypass Cool tier entirely and move directly to Archive.

### Continuous Data Protection (CDP)

The solution incorporated Tiger Bridge CDP to protect the entire dataset with versioning and undelete capabilities, utilizing Azure's Soft Delete and Versioning features. Since CDP is included in the Tiger Bridge license, the total cost consists only of storage costs for new versions generated in Azure Blob.

Solution Architecture Diagram



## Results

### Key Results at a Glance

- 95% reduction in local storage – from 70TB to just 5-10% on-premises capacity
- Fully automated archive and backup processes across 7 global offices
- Seamless data access maintained for users regardless of storage tier
- No vendor lock-in – constant access and control over all data
- Disaster recovery simplified through cloud-based architecture
- Cost-optimized scalability – ready to grow from 70TB to 120TB over 5 years

The Tiger Bridge and Azure Blob storage implementation delivered transformative results for the company's data management capabilities:

**Dramatic Storage Reduction:** Local storage requirements were reduced to just 5-10% of total capacity, freeing up valuable on-premises infrastructure while maintaining fast access to current working files.

**Automated Data Management:** Archive and backup processes became fully automated, eliminating manual intervention and ensuring consistent data protection across all global offices.

**Maintained Access and Flexibility:** Users retained constant, transparent access to their data regardless of tier, with no vendor lock-in concerns.

**Cost-Optimized Growth:** With intelligent tiering policies in place, the company can now accommodate projected growth to 120TB over 5 years without proportional increases in infrastructure costs.

"Tiger Bridge transformed our data management approach. We went from servers bursting at the seams with no clear path forward to a scalable, automated solution that will support our growth for years to come."

– Technology Leader

The solution has positioned this regional leader to focus on their core business—delivering world-class construction projects—rather than managing data infrastructure challenges.



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Tiger Technology helps enterprises manage critical data efficiently while optimizing costs, enhancing security, and enabling global collaboration. Its on-premises-first approach offers cloud scalability without performance trade-offs. Trusted by global clients across industries, Tiger Technology provides measurable results throughout the data lifecycle.

Tiger Technology is a Validated Azure Storage ISV Partner for Primary and Secondary Storage, Archive, Backup, and Disaster Recovery, Data Governance, Management, and Migration.