Contoso in the Microsoft Cloud

How a fictional but representative global organization has implemented the Microsoft Cloud

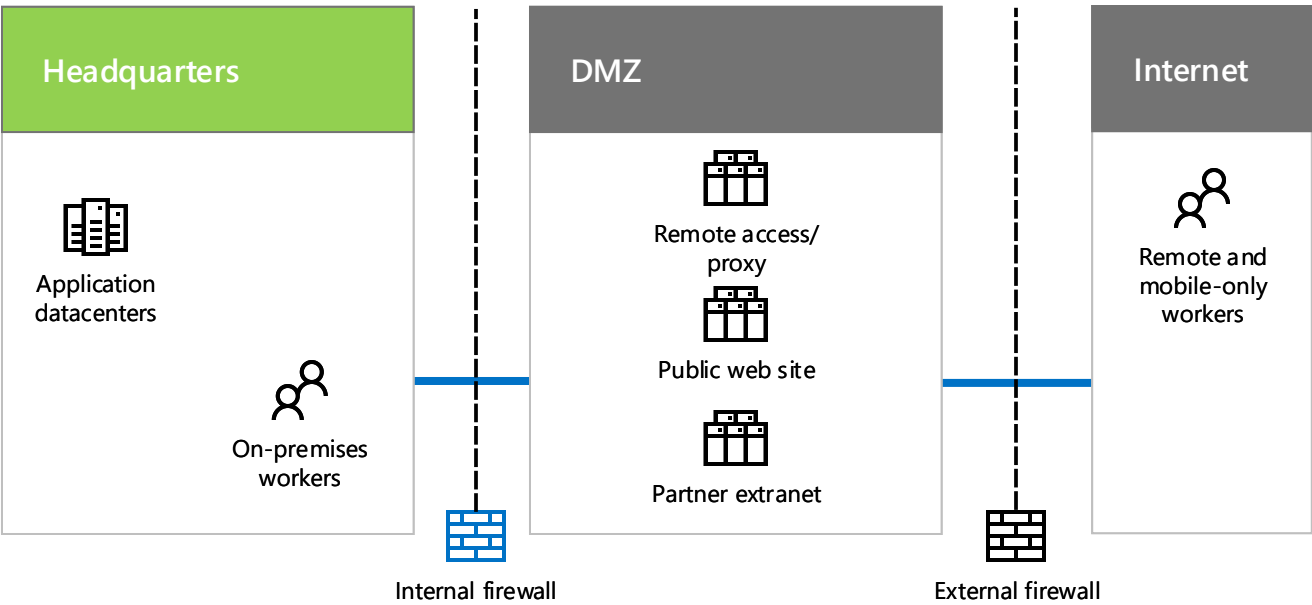## Contoso's IT infrastructure and needs

Contoso is in the process of transitioning from an on-premises, centralized IT infrastructure to a cloud-inclusive one that incorporates cloud-based personal productivity workloads, applications, and hybrid scenarios.

Contoso's existing IT infrastructure

Contoso uses a mostly centralized on-premises IT infrastructure, with application datacenters in the Paris headquarters.

Headquarters

Application datacenters

On-premises workers

DMZ

Remote access/ proxy

Public web site

Partner extranet

Internal firewall

External firewall

Internet

Remote and mobile-only workers

In Contoso's DMZ, different sets of servers provide:

- Remote access to the Contoso intranet and web proxying for workers in the Paris headquarters.
- Hosting for the Contoso public web site, from which customers can order products, parts, or supplies.
- Hosting for the Contoso partner extranet for partner communication and collaboration.

Contoso's business needs

1 Adhere to regional regulatory requirements

To prevent fines and maintain good relations with local governments, Contoso must ensure compliance with data storage and encryption regulations.

2 Improve vendor and partner management

The partner extranet is aging and expensive to maintain. Contoso wants to replace it with a cloud-based solution that uses federated authentication.

3 Improve mobile workforce productivity, device management, and access

Contoso's mobile-only workforce is expanding and needs device management to ensure intellectual property protection and more efficient access to resources.

4 Reduce remote access infrastructure

By moving resources commonly accessed by remote workers to the cloud, Contoso will save money by reducing maintenance and support costs for their remote access solution.

5 Scale down on-premises datacenters

The Contoso datacenters contain hundreds of servers, some of which are running legacy or archival functions that distract IT staff from maintaining high business value workloads.

6 Scale-up computing and storage resources for end-of-quarter processing

End-of-quarter financial accounting and projection processing along with inventory management requires short-term increases in servers and storage.

Mapping Contoso's business needs to Microsoft's cloud offerings

SaaS
Software as a Service

Office 365: Primary personal and group productivity applications in the cloud. 1 3 5

Dynamics 365: Use cloud-based customer and vendor management. Remove partner extranet in the DMZ. 2

Intune/EMS: Manage iOS and Android devices. 3

Azure PaaS
Platform as a Service

Host sales and support documents and information systems using cloud-based apps. 3

Mobile applications are cloud-based, rather than Paris datacenter-based. 3 4

Azure IaaS
Infrastructure as a Service

Move archival and legacy systems to cloud-based servers. 5

Migrate low-use apps and data out of on-premises datacenters. 5

Add temporary servers and storage for end-of-quarter processing needs. 6

Microsoft