

Overview

Photon is an online training provider.

Existing Environment

The existing environment for Photon currently consists of the following resources in their On-premise data centre. These resources are used for the daily operations for the various business units

- File servers – Windows Server 2016
- Domain controllers – Windows Server 2012 R2
- Microsoft SQL Server servers - Windows Server 2016

The domain controllers support an Active Directory forest named photon.com

Photon also supports a web-based application called photon-app. This application is used by users across the world. The application consists of the following tiers

- A SQL database
- A web front end
- A processing middle tier

Following are the planned changes for Photon

- Movement of all tiers of photon-app to Azure
- Each tier would consist of 5 virtual machines
- Users would access the web application tier using HTTPS only
- Movement of existing documents to Azure Blob storage.

Following are the technical Requirements for Photon

- All Virtual machines hosted in Azure should be backed-up
- The documents in Azure BLOB storage should be stored in an archive storage tier.
- Azure AD should be used along with the on-premise Active Directory.
- Users should be synched between Azure AD and the on-premise Active Directory.
- User passwords or hashes should not be stored in Azure
- When users joined their own devices to Azure AD, they need to use a phone verification method to verify their identity
- Administrative effort should be minimized whenever possible a mobile phone to verify their identity.
- There should be a pilot group so that testing of devices joining Azure AD can be carried out.
- A new user called photon-admin would be set as a service administrator of the Azure subscription.