**Overview**

A company named cloudportalhub has an on-premise environment. The on-premise environment consists of a single-domain Active Directory forest named cloudportalhub.com.

**Infrastructure**

Their current infrastructure consists of different types of servers that are used for different business operations

* File servers
* Domain controllers
* Microsoft SQL Servers

All of the servers and client machines are joined to the Active Directory domain.

The company also has an Internet facing application that has the following tiers

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

Each tier has 3 virtual machines. All user requests are processed by the web front end using HTTPS

**Planned requirements**

The company is planning on implementing the following

* Move all tiers of the web application to Azure. Here all the virtual machines would be moved to Azure.
* Move existing files to Azure Blob storage. All of these files must be moved to Azure over the Internet. Also, all files must be stored in the archive storage tier.
* Create a hybrid directory to support a future Microsoft Office 365 migration
* Prevent user passwords or hashes of passwords from being stored in Azure
* Ensure that all the virtual machines hosting the various application tiers are protected by backups.
* Make use of unmanaged standard storage for hard disks for Azure virtual machines.
* Users who are part of an Azure AD group named developers should be able to join their devices to Azure AD. These users would need to verify their identity using a mobile phone when they join their devices.
* Create a new user named Admin1 who would be the service administrator for the Azure subscription
* Create a new user named Admin2 who would be able to create network objects for the Azure subscription.
* All administrative tasks should be minimized