# **DP201 - Designing an Azure Data Platform Solution**

## Lab 1 – Azure Architecture Considerations

Use the table below to document the security, performance, scalability, availability, recoverability, and efficiency and operations requirements as identified from the AdventureWorks case study.

Below are some examples of the requirements that could be identified.

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| Exercise # | Requirement | Requirement type |
|  |  | Security,  Scalability,  Performance,  Availability,  Recoverability,  Automation  Or  Operations |
|  | Data availability going from 1 office to global (6 more offices) (24x7 availability of data) | Availability |
|  | Data redundancy across azure regions | Recoverability |
|  | Active Directory/authentication/access in the cloud across global domain | Security |
|  | Scaling of compute resources for sales/ordering system during the holiday season of November/December | Scalability |
|  | On-prem datawarehouse moving to Synapse/CosmosDB in cloud. Should run baseline performance metrics to properly architect a solution in the cloud. | Performance |
|  | Multi-language support for website and user interfaces + any outward facing technologies (Connected bicycle, maintenance services, Chatbot) | Operations |
|  | The need for a Chatbot (AI) (Azure bot service) | Automation |
|  | 3rd party applications that need access to data + realtime information. The need for secured data in transit/at rest. (Access, api) | Security |
|  | Expectation of 3rd party companies that the data is always available to their api calls or data pulls etc.. | Availability |
|  | Comprehensive business continuity that meets the corporate objective of minimizing restore times when recovering data | Recoverability |
|  | Cust. Service and sales dept experiencing scale issues due to high call volume. Need to scale up/out to handle these call volumes once in cloud. (See chatbot for solution) | Scalability/Performance |
|  | User Opt-in for notifications (Bicycle maintenance services) | Security |
|  | Should run baseline performance metrics for storage for on-prem web app (moving from iis to azure web app + azure blob storage) | Scalability |
|  | Global governance rules of data (ex. From dp 200 – Ireland) | ?? |