# **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.

|  |  |  |
| --- | --- | --- |
| Exercise # | Requirement | Requirement type |
|  |  | Security,  Scalability,  Performance,  Availability,  Recoverability,  Automation  Or  Operations |
|  | For all services: business continuity, minimise restore time | Recoverability |
|  | Data store available to hold the images | Availability |
|  | Global availability of applications for data sales and ordering purposes, particularly in November and December | Scalability/Performance |
|  | Slow on-premises reporting server, evaluating Azure Synapse. Restricted access | Security |
|  | Predictive analytics capabilities (text analytics engine), solution that is resilient and performant | Performance, Availability,  Recoverability |
|  | High calls volumes, scale issues. Chat bots for usual functions   * Recommendation systems for bicycle purchase * Information retrieval for orders * Bicycle parts suitable for owned bike (with recommendations for parts) | Scalability |
|  | real-time tracking of fraudulent activities | Security/Performance |
|  | Social media tracking | Performance |
|  | IoT real-time connection with 3rd party apps integration. Daily summary data | Availability, Security |
|  | Maintenance services based on:   * Telemetry * Bicycle usage info * Predictions. | Performance |
|  | Load data in Synapse | Automation |