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

## Lab 1 – Azure Architecture Considerations

Use the table below to document the security, performance, scalability, availability, recoverability, 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 |
| 1 | Only internal access allowed to the Azure SQL Data Warehouse | Security |
| 1 | The connected bicycle must have secure connections to 1st and 3rd party applications | Security |
| 2 | Customer Service and Presales need to scale using Bots and store conversation history | Scalability  And Performance |
| 2 | There is a requirement to scale the data warehouse system for the months of November and December | Scalability |
| 2 | There is a requirement to scale the Sales/Ordering system for the months of November and December | Scalability |
| 2 and 3 | A predictive analytics solution that is performant and resilient | Performance, Availability and Recoverability |
| 3 | The Sales/Ordering system has a high availability requirement to ensure that it has continued operations | Availability |
| 3 | The Sales/Ordering system has a data recoverability requirement of upto a day | Recoverability |
| 3 | The predictive analytics solution has a data recoverability requirement of upto a day | Recoverability |
| 4 | Regular automated data loads into Azure SQL Data Warehouse | Automation |