# Hands-on demo Azure SQL Data Warehouse

## Create a Resource Group

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| Navigate to <https://portal.azure.com> |  |
| Login with the account you want to use to perform this hands-on demo. |  |
| On the home tab click on **Create a resource** |  |
| In the search box on the Azure Marketplace search for ‘resource group’ |  |
| Select the Resource group option |  |
| Click in the New Resource Group screen on **Create** |  |
| Select the appropriate Subscription, give your Resource Group a name and select the region in which you want the Resource Group to be hosted (e.g. (Europe) North Europe). |  |
| Click on **Review + Create** |  |
| In the Create a Resource Group blade review your information and click on **Create.** |  |
| Once created go to the blade for the Resource Group you just created |  |

## Provision an Azure SQL Data Warehouse

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| On the Resource Group blade click on **Add,** to add a resource to the group. |  |
| In the Marketplace search for SQL Data Warehouse, and click on the SQL Data Warehouse button to start provisioning. |  |
| In the next screen click on **Create** |  |
| Select the proper subscription and the resource group you just created.  Provide a name for your Data Warehouse. |  |
| At the server option, click on **Create new.**  Provide a name for the server, as well as a name for the server admin and a strong enough password.  Select the same region you used for the resource group.  Take care and remember the Server admin login and Password, you will need it later on to connect to the data warehouse. |  |
| Click **Select** |  |
| At the Performance Level option, click **Select performance level**.  Make sure Gen2 is selected and scale your DW to DW100c.  And click **Apply**. |  |
| Click on **Next : Additional Settings** |  |
| On Additional Settings tab select the **Sample** option, to get some sample tables in your Data Warehouse. |  |
| Click on **Review + Create**. |  |
| Review your details and click on **Create** to provision your Data Warehouse. |  |

## Set firewall rules for SQL Data Warehouse

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| Once the deployment of SQL Data Warehouse is succeeded, navigate to its Resource page.  On the resource page locate the Server name link. Write it down so you can use it later in this demo. Then click on it. |  |
| On the SQL Server Resource page navigate to the security menu and click on **Firewalls and virtual networks**. |  |
| Click on **Add client IP**, and provide a recognizable rule name |  |
| Click on **Save** to update the firewall rules. |  |

## Connect to Azure SQL Data Warehouse using SQL Server Management Studio

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| Open SQL Server Management Studio |  |
| In the connect to server dialog, provide the server name you wrote down earlier. Provide the login name of the Server admin login and the password.  Then click Connect. |  |
| In the Object Explorer you get an overview of the objects which are available in your Data Warehouse. |  |
| Right-click on dbo.DimEployee and select **Select Top 1000 Rows**. |  |

To avoid unnecessary cost, make sure you pause the Azure SQL Data Warehouse after you are finished with your work.