**Practical Work Experience and Portfolio Building**

**Evidence Reporting Document**

* **Introduction**

*The main goal of this document is to keep track of the practical hands-on work experience and lab challenges you will complete throughout the program. By doing so, at the end of the program, you will have a great portfolio that you can use for evidence of your practical skills, and you can also come back for review whenever needed. This evidence is essential in the long run and keeps you on track with the time you will spend on your career upgrade process. These notes will also play a vital role in identifying the skills and tools to reflect on your marketing materials like your CV/resume or LinkedIn Page.*

* **General Details**

**Date: 17 May 2024**

**Your Name: LOK HIM TAM (Himson)**

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**Name of the Challenge:** Enable Azure Defender for SQL in an Azure SQL Database [Guided]

**Access Details (URL or source):** AZ500

**Details of the Challenge:**

In this lab I have working following exercise:

* Created an Azure SQL database.
  + Create an Azure SQL database
  + In database, create a query to retrieve all of the rows in the SalesLT.Customer table.
    - SELECT \* FROM SalesLT.Customer
  + I have created an Azure SQL database with name prefixed by db.
  + I have created a new logical SQL server with name prefixed by sql.
  + I created a Server admin login named AzureAdmin for the logical SQL server.
  + I have allowed Azure services and resources to access the logical SQL server.
  + I have copied the correct number of Affected rows from the query.
* Enabled Microsoft Defender for SQL.
  + Enable Microsoft Defender for SQL
  + Perform a vulnerability assessment for the **db41230612** database.
  + I have enabled Microsoft Defender for SQL.
  + I have performed a vulnerability assessment.
* Managed security recommendations in Microsoft Defender for SQL.
  + I have approved the current scan result as the Baseline value for rule VA1143.
  + I have accepted the Data Discovery & Classification recommendations.

**Lab Topology**

Create an Azure SQL database on a new logical SQL server by using the values in the following table. For any property that is not specified, use the default value.

| **Property** | **Value** |
| --- | --- |
| Resource group | **corp-datalod41230612** |
| Database name | db41230612 |
| Server name (new) | sql41230612 |
| Authentication method | **Use SQL authentication** |
| Server admin login | AzureAdmin |
| Password | AzPwd41230612! |
| Workload environment | **Development** |
| Service Tier | **Standard (Budget friendly)** |
| DTUs | **10** |
| Data max size (GB) | **250** |
| Connectivity method | **Public endpoint** |
| Allow Azure services and resources to access this server | **Yes** |
| Add current client IP address | **Yes** |
| Enable Microsoft Defender for SQL | **Not now** |
| Use existing data | **Sample** |

* **Challenge Details**

**Before starting the challenge:**

1. Be sure that the lab is in the scope of your niche.
2. You have enough time to solve the full lab or have a proper plan to solve a part of it and complete the remaining sections later.
3. Try to build a good learning environment with less distraction for at least 30 minutes to an hour.

**After completing the challenge:**

1. Were you able to finish the lab? Did you need extra time? Was the lab relevant to your expectations? Did you need additional help to solve the lab?

* Yes I am able to finish the lab within 45 mins. It is relevant to my expectations. And I can finish it without additional help.

1. Write down your learning outcomes, skills you developed or improved and the tools you used in this challenge.

*(You may use the keywords listed in the lab details or add your own skills that you think you acquired.)*

* I have learn how to created an Azure SQL database.
  + I have learnt how to create a query to retrieve all of the rows in the SalesLT.Customer table.
    - SELECT \* FROM SalesLT.Customer
  + I have created an Azure SQL database with name prefixed by db.
  + I have created a new logical SQL server with name prefixed by sql.
  + I created a Server admin login named AzureAdmin for the logical SQL server.
  + I have allowed Azure services and resources to access the logical SQL server.
  + I have copied the correct number of Affected rows from the query.
* I learnt how to enabled Microsoft Defender for SQL, and perform a vulnerability assessment for the **db41230612** database.
  + I have enabled Microsoft Defender for SQL.
  + I have performed a vulnerability assessment.
* I learnt how to managed security recommendations in Microsoft Defender for SQL.
  + I have approved the current scan result as the Baseline value for rule VA1143.
  + I have accepted the Data Discovery & Classification recommendations.

1. Prepare a self-reflection and reporting video using any screen recording tool (like Loom) and share the link.

*(The report may include but is not limited to your thoughts about the problem solved, difficulties encountered, any notes to discuss with your peers, anything to ask the mentors and last but not least how it may help you in your ideal job. Please prepare the summary in a way that you are presenting this to your managers and colleagues in your ideal workplace)*

**URL:**

[**https://www.loom.com/share/cc602508f7874d449000861a8bfb24ef?sid=3caf1608-3b79-4998-837c-7ed16c6a01e1**](https://www.loom.com/share/cc602508f7874d449000861a8bfb24ef?sid=3caf1608-3b79-4998-837c-7ed16c6a01e1)