2021

Formative Assessment 2



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Project

- Creating an Azure key vault and storing keys and secrets in the vault.
- Create a SQL Database and encrypting content of columns in database tables by using Always Encrypted.

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• Configure the Key Vault resource with a key and a secret - [25]

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Task 2: Add a key to Key Vault



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Task 3: Add a Secret to Key Vault

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• Configure an Azure SQL database and a data-driven application- [20]

Version

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Task 1: Enable a client application to access the Azure SQL Database service.







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Task 2: Create a policy allowing the application access to the Key Vault.

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Task 3: Retrieve SQL Azure database ADO.NET Connection String

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Task 4: Log on to the Azure VM running Visual Studio 2019 and SQL Management Studio 2018

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Task 5: Create a table in the SQL Database and select data columns for encryption









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• Demonstrate the use of Azure Key Vault in encrypting the Azure SQL database- [20]

Task 1: Run a data-driven application to demonstrate the use of Azure Key Vault in encrypting the Azure SQL database



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1. In the **Object Explorer** pane, right-click the medical database and, in the right-click menu, click **New Query**.

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2. From the query window, run the following query to verify that the data that loaded into the database from the console app is encrypted.

SELECT FirstName, LastName, SSN, BirthDate FROM Patients;

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3. Switch back to the console application where you are prompted to enter a valid SSN. This will query the encrypted column for the data. At the Command Prompt, type the following and press the Enter key:

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Note: Verify that the data returned by the query is not encrypted.

4. To terminate the console app, press the Enter key

Clean up resources



Conclusion

The assignment was done by following the instructions given in some I did what I can in my own way.