Microsoft ADC Cybersecurity Skilling Program

Week 9 Assignment

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Introduction

This week I worked through the Microsoft Certified: Azure Security Engineer Associate, which is part of the Microsoft Certified: Azure Security Engineer Associate certification. The focus was on the module:

1. **Plan and implement security for storage**
2. **Plan and implement security for Azure SQL Database and Azure SQL Managed Instance**

Tasks Completed

1. Plan and implement security for storage

In this module, I learned how to plan and implement comprehensive security measures for Azure storage resources, including configuring access control for storage accounts, managing access keys, selecting and configuring appropriate methods for accessing various Azure storage services, protecting against data security threats through techniques like soft delete, backups, versioning, and immutable storage, and enhancing data encryption with Bring Your Own Key (BYOK) and double encryption at the Azure Storage infrastructure level.

Verification link: https://learn.microsoft.com/api/achievements/share/en-us/VincentCollins-8814/QS946W7E?sharingId=49EE7BF9191BBE82

Ask Learn

Keep up the great work!

Plan and implement security for storage

Module assessment passed

You have earned an achievement!

Congratulations, but what should you do next?

First, let's share your achievement

You put in the time to learn something new, let your network share in your victory!

MODULE

Plan and implement security for storage

Module assessment passed

Vincent Collins
completed this module on 6/3/2025
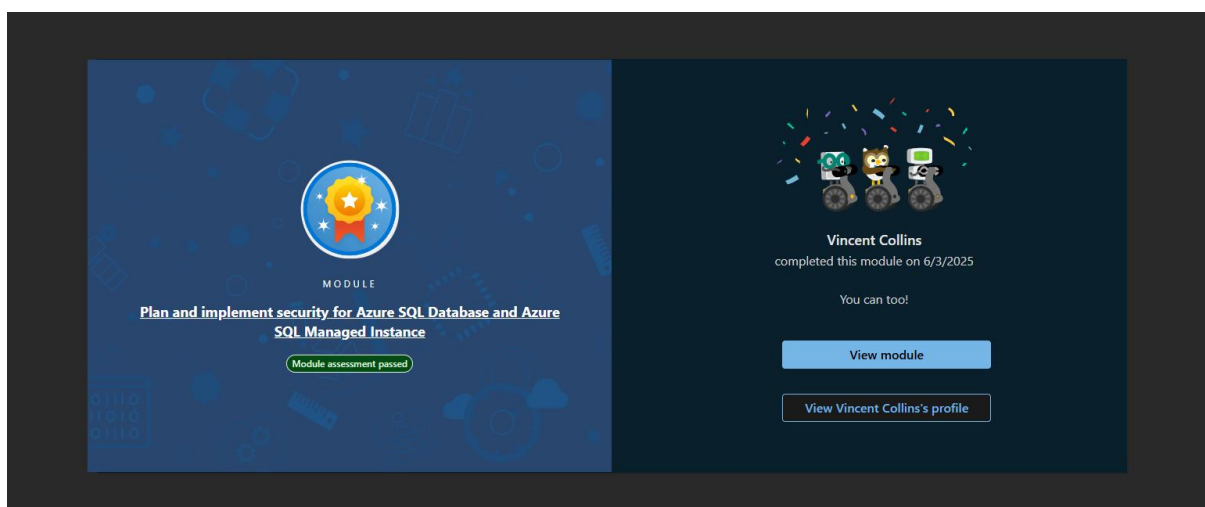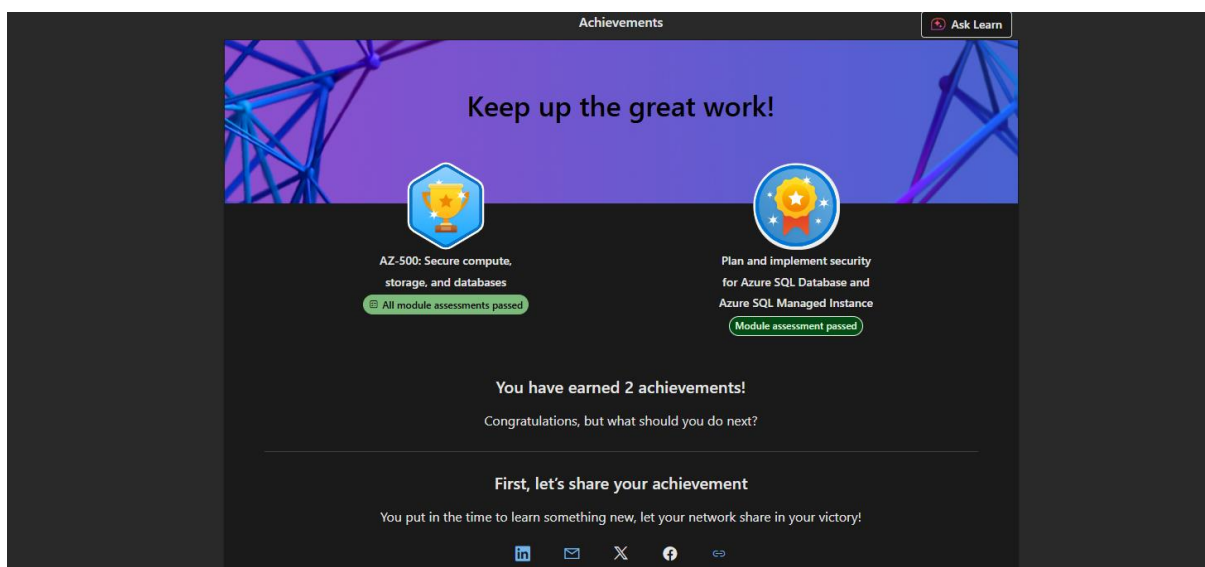
You can too!

View module

View Vincent Collins's profile

2. Plan and implement security for Azure SQL Database and Azure SQL Managed Instance

In this module, I learned how to plan and implement robust security measures for Azure SQL Database and Azure SQL Managed Instance, including enabling secure database authentication with Microsoft Enterprise Identity, database auditing, utilizing the Microsoft Purview governance portal for data classification, implementing dynamic masking for sensitive information, Transparent Database Encryption (TDE), and making informed decisions about when to use Azure SQL Database Always Encrypted for client-side data encryption.

Verification link: https://learn.microsoft.com/api/achievements/share/en-us/VincentCollins-8814/3AQWMKEH?sharingId=49EE7BF9191BBE82

Conclusion

The first module provided me with the knowledge and skills required to plan and implement comprehensive security measures for Azure storage resources, safeguarding data integrity, confidentiality, and availability. The second module empowered me with the knowledge and skills needed to plan and implement robust security measures for Azure SQL Database and Azure SQL Managed Instance, ensuring data protection and regulatory compliance.