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| Assignment 8  ITRI 623 | ENRICO DREYER  31210783 |

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# Introduction

For this assignment we were asked to present on the question: “Do we have to worry about security when we move our data to the Microsoft Azure platform?”. The presentation should be between 5 and 7 minutes long.

Topics that will be discussed:

* What is Microsoft Azure? (Azure, 2021) and (Acronis, 2021)
* Moving your data to Microsoft Azure (Azure, 2020)
* Cloud Migration Types (Mutune, 2021)
* Security concerns (Mutune, 2021)
* Do you need to worry? (Fear, 2020)



The presentation and video of presenting will be attached in the same zip file as this document.

# My notes for presenting:

## Slide 1: Introduction

Hi, my name is Enrico, this is study unit 7 of ITRI 623.

## Slide 2: Layout

* First is What is Microsoft Azure
* Moving data to Azure
* Cloud migration types
* Security concerns
* And do you need to worry

## Slide 3: What is Microsoft Azure?

* 200 products and cloud services
* Bring more solutions to life
* The capability to manage your applications on the cloud
* Trust in the cloud

## Slide 4: Cloud platforms

* Azure 28%
* Amazon Web Service 22%
* Google 15%
* IBM Cloud 10%

## Slide 5: Moving data to Azure

* Make use of encryption
* Important to financial institutions that have sensitive data
* Secure during cloud migration
* Protect during transit, at rest and in use
* Evolving economy more data driven
* Capital markets, banking, and insurance trust azure
* Right set of tools to secure your data

## Slide 6: Cloud Migration Types

* **On-premises**
* From local to the cloud
* **Cloud-to-cloud**
* From one cloud to the other, but is very expensive
* **Reverse cloud**
* **Off the cloud to local IT environment**

## Slide 7: Security Concerns

* Data exposure during migration process
* Target insiders to steal in the cloud storage
* Misconfiguration grant the wrong people permission
* Insider’s threat employees make mistakes
* Unintendedly share files that are confident

## Slide 8: More security concerns

* Lack of resources
* Budget required to buy the tools
* Demand skilled workforce
* Regularity compliance
* Changes to applications
* Most fall behind to implement controls
* Shortcutting security
* As easy as clicking a link

## Slide 9: Do you have to worry?

* Between you, the customer and database provider
* All-access attempts are monitored
* Customer data ownership
* Azure does not snoop through your data
* Or claim ownership

## Slide 10: Azure security requirements

* Network security
* Authorization
* Global replication
* Regional Failover
* And so on

## Slide 11: Thank you

* Final thought
* I trust Azure

# Reference List

Acronis. (2021). What is Azure - A Complete Guide. <https://www.acronis.com/en-us/articles/what-is-microsoft-azure/>

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Fear, T. L. (2020). Azure customer data protection. <https://docs.microsoft.com/en-us/azure/security/fundamentals/protection-customer-data>

Mutune, G. (2021). Cloud Migration Security Challenges and Mitigation Strategies. <https://cyberexperts.com/cloud-migration-security-challenges-and-mitigation-strategies/#:~:text=In%20addition%20to%20security%20concerns%2C%20the%20availability%20of,data%20protection%20and%20applications%20during%20the%20transfer%20process>.