

- TP 1 : Introduction to Cloud
- Professor: Ouassim Karrakchou
- Level : 4th year

TP 1

Introduction to Microsoft Azure

Objectives:

The goal of this TP is to introduce you to the different components of Microsoft Azure.

We will do the following tasks:

- Discover the key architectural components of Azure.
- Discover the basic compute and network services available in Azure.

Evaluation:

These TPs have two parts that are evaluated:

1. Experimental part: call the Professor to verify what you did when it tells you to do so.
2. Assignment: an assignment needs to be done at the end of the class. Please send it by email to your TP teacher **before midnight the day of the TP**:

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The TP must be done in groups of 2 to 3 students. The groups must stay the same for all the next TPs.

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I- Introduction:

The first TP of the Cloud Foundations course will introduce you to the Microsoft Azure Cloud services. You will follow an e-learning on the official Microsoft learn platform that introduces you to the Microsoft Azure Cloud, as well as provide with several exercises where you will discover how to configure it to create several resources. The e-learning modules you will see today are needed to prepare you for the AZ-900 certification, which evaluates foundational knowledge of cloud services and how those services are provided with Microsoft Azure. Details about this certification can be found here: <https://learn.microsoft.com/en-us/certifications/exams/az-900/>

Three learning paths are available to prepare you for the AZ-900 certification:

1. Microsoft Azure Fundamentals: Describe cloud concepts
2. Azure Fundamentals: Describe Azure architecture and services
3. Azure Fundamentals: Describe Azure management and governance

We will cover today parts of the second learning path: **Azure Fundamentals: Describe Azure architecture and services**

II- Microsoft Learn Modules:

1. Connect to the following website: <https://learn.microsoft.com/en-us/training/paths/azure-fundamentals-describe-azure-architecture-services/>
2. You will see 4 modules. We will do the first two modules:



Describe the core architectural components of Azure

6 min remaining • Module • 7 of 9 units completed

★★★★★ 4.8 (15,977)



Describe Azure compute and networking services

1 hr 8 min remaining • Module • 0 of 14 units completed

★★★★☆ 4.6 (12,870)

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3. Follow these modules and do the different exercises on them, as well as the knowledge checks. **Whenever you do an exercise or a knowledge check, call the professor to show him/her what you did.**

III- Assignment:

Based on what you learned in the TP explain the different steps needed to create an Ubuntu VM in Azure, and the different resources that are created. Use screenshots from the Azure portal. When you have finished, make sure you delete all the resources you used (show the steps).