



Active Discovery - Formation ActiveDirectory

Initiation

Summary: This project introduces you to the basics of system administration under the Microsoft Server operating system.

Version: 1.00

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Chapter I

Preamble

This subject is the production of a partnership between 42 and [Microsoft Corporation](#).

Microsoft Corporation is an American multinational technology corporation headquartered in Redmond, Washington. Microsoft's best-known software products are the Windows line of operating systems, the Microsoft Office suite, and the Internet Explorer and Edge web browsers.

Through this partnership, we aim to provide you with a unique opportunity to simplify your journey towards obtaining certifications offered by Microsoft. These certifications hold significant value and recognition in the industry, enabling you to enhance your professional profile and unlock exciting career prospects in the field of security.

To access the Microsoft certification programs and explore the wide range of certificates available, you can visit the following link: [Microsoft Security Certification](#). This comprehensive platform offers extensive training resources and examinations covering various security-related topics.

By successfully completing the projects and earning Microsoft certifications, you will demonstrate your proficiency and expertise in security practices. These certifications serve as a testament to your skills and can open doors to exciting career opportunities.

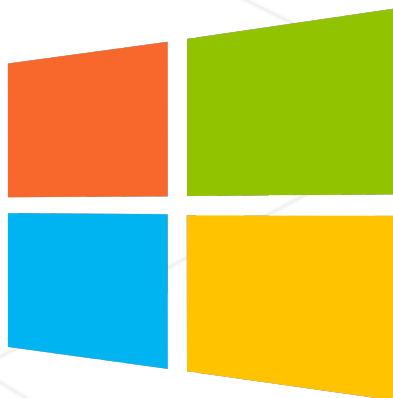


Figure I.1: <https://www.microsoft.com/>

Chapter II

Introduction



In partnership with Microsoft

Active Directory (AD) is Microsoft's implementation of LDAP directory services for Windows operating systems.

The primary objective of Active Directory is to offer centralized identification and authentication services to a network of computers using Windows, macOS, and Linux. It also facilitates the administration of policies, enforcement of policies, and installation of critical updates by administrators.

Active Directory provides a comprehensive listing of managed network elements such as user accounts, servers, workstations, shared folders, printers, and more. It enables users to easily locate shared resources, while administrators can exercise control over their usage through distribution, replication, partitioning, and secure access to the listed resources.

In this project, you are introduced to the functionality and features of Active Directory.



You're provided with a helper pdf, foundable inside the attachments of the subject.

It will show you how to access the VMs created for you to complete this subject, how to lock your VMs, etc.

Chapter III

Mandatory part

III.1 Presentation

In this project, you will install and configure the computer infrastructure for "Domolia," a company that specializes in selling home automation tools.

The company is divided into two buildings:

- A workshop, managed by a supervisor, with several workers.
- An office, where the company manager is located.

The company requires two Microsoft Server installations, one in each building, along with a Windows workstation that will connect to the respective building's server.



Ensure that you use a long-term support (LTS) version of Microsoft.

Your objective is to set up virtual machines that closely resemble the desired network organization.

Remember: You are a team of two students, and this project likely requires more than just the power of friendship!



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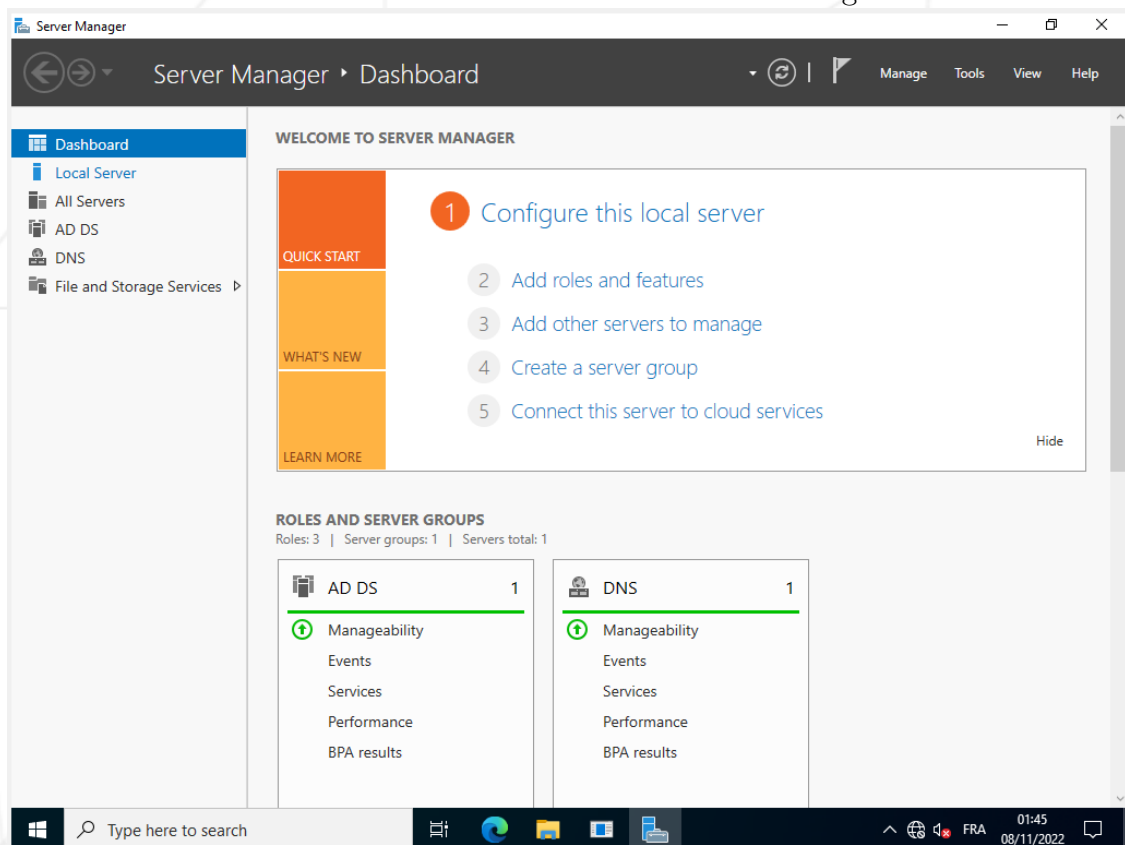
III.2 Forest creation

In this part, you have to install and configure the server located in the administration building.

The server must have the Active Directory Domain Controller service installed and configured. You need to add any necessary modules you think are required for this service.

The server must have a suitable name that allows easy identification on the network.

You should create a forest on the server and choose an intelligent name for it.



When you finish this part of the project, you should have something like this on your screen.

III.3 Domain controller configuration

In this part, you need to connect the second server to the first one in order to enable it to join the existing forest.

This server will be responsible for hosting its own domain controller.

Similar to the previous server, you should choose an appropriate name for this server.

III.4 Resources creation

In this part, you are required to create three different folders where users can store important files.

- Create a folder on the Administration server specifically for storing administrative files.
- Create another folder on the Administration server for storing generic data and files.
- Lastly, create a folder on the Workshop server dedicated to storing working project files.



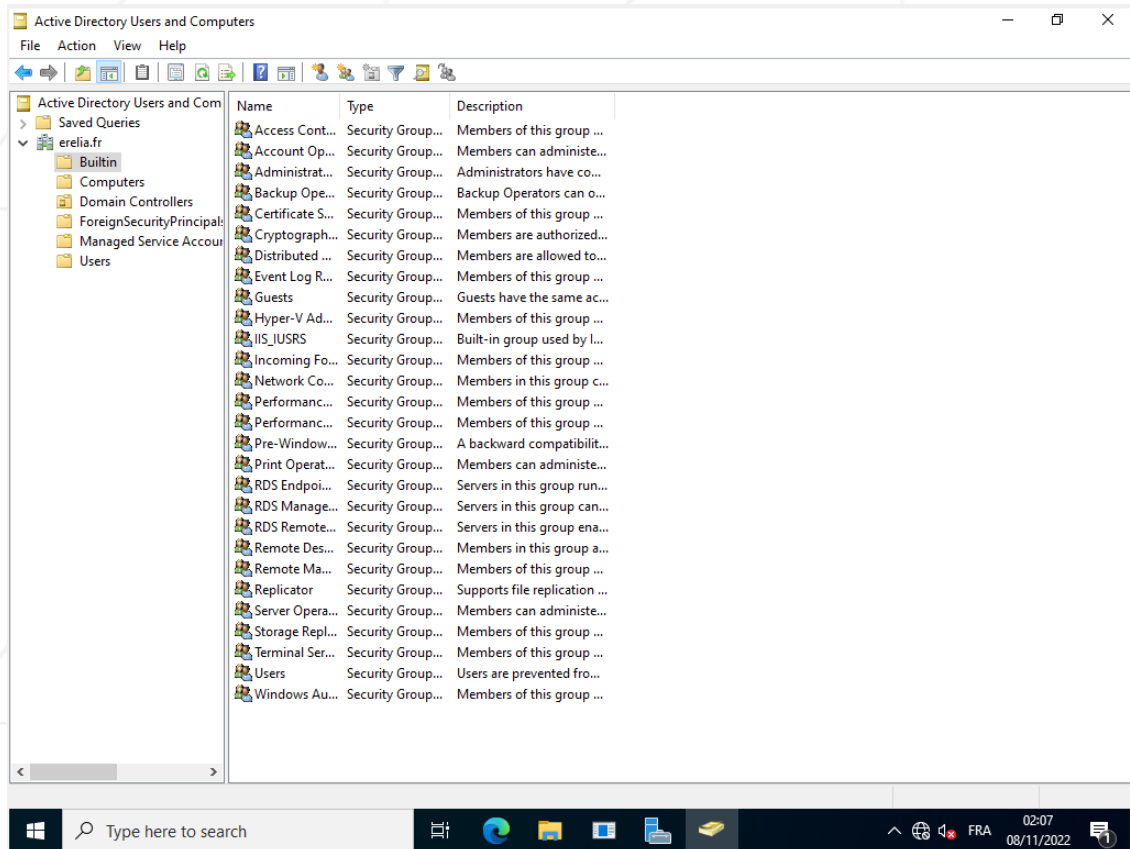
Ensure that you give clear and descriptive names to these resources so that you can easily identify the contents they hold.

III.5 User account creation

In this part, you need to create a user account on each of the previously created controllers.

The account on the administration server should have the ability to view and edit the administration resources folder and the generic resources folder.

On the workshop server, the account should have the capability to view and edit the working resources folder and the generic resources folder.



You should have a screen that resembles the image above while working on this task.

Chapter IV

Submission and peer-evaluation



You're provided with a helper pdf, foundable inside the attachments of the subject.

It will show you how to access the VMs created for you to complete this subject, how to lock your VMs, etc.

Once you've finish your assignment, you may lock your virtual machine, following the "Submission" section of the helper PDF. Note that, once locked, you will not be able to edit your virtual machines anymore, and a snapshot will be taken of your virtual machines at this moment, and will be reset to said snapshot before each evaluation.

So, be sure to have completely finished your work, as no modification non-requested by the scale will be acceptable during the evaluation !