

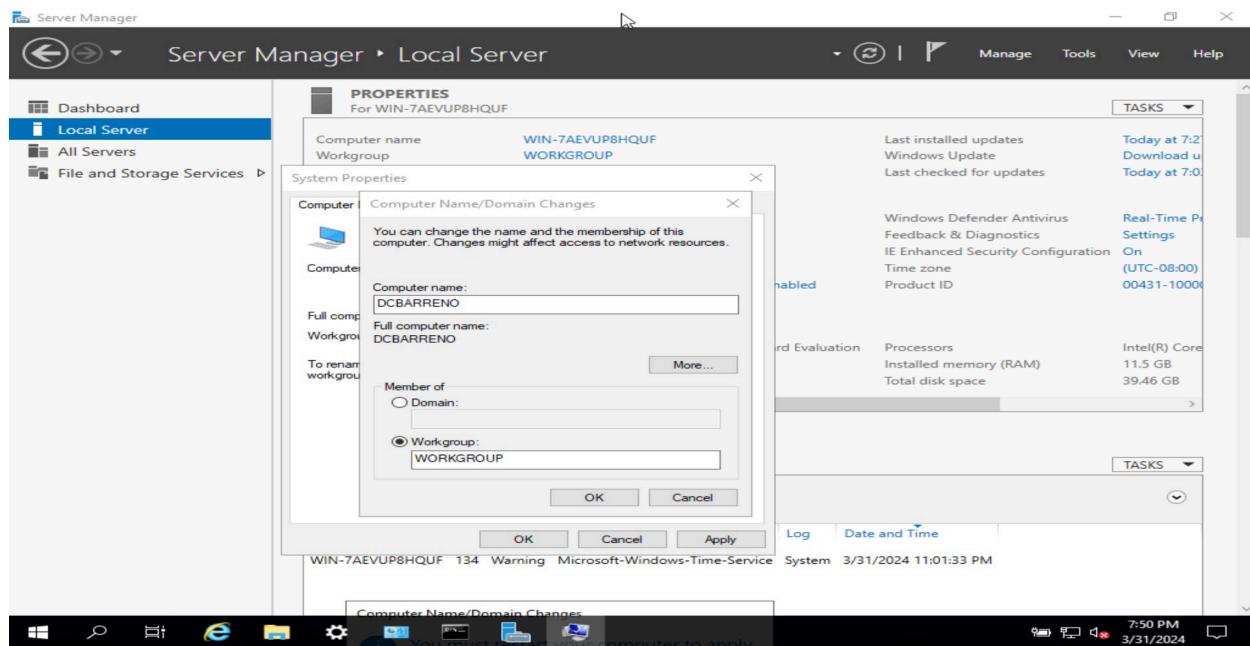
Name: Cristian Barreno

Deploying Active Directory (AD) domain controller (DC) using the Windows Graphical User Interface (GUI)

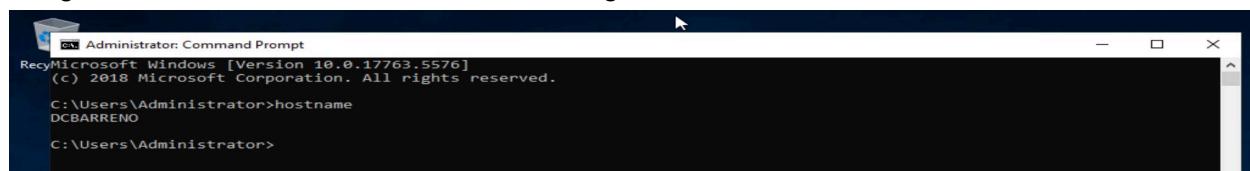
Requirements

- Windows server 2019 with administrator privileges installed in Virtual Box Home Lab.

The first step is to assign a name to the server that reflects its role. I used DCBARRENO “Domain Controller Barreno”

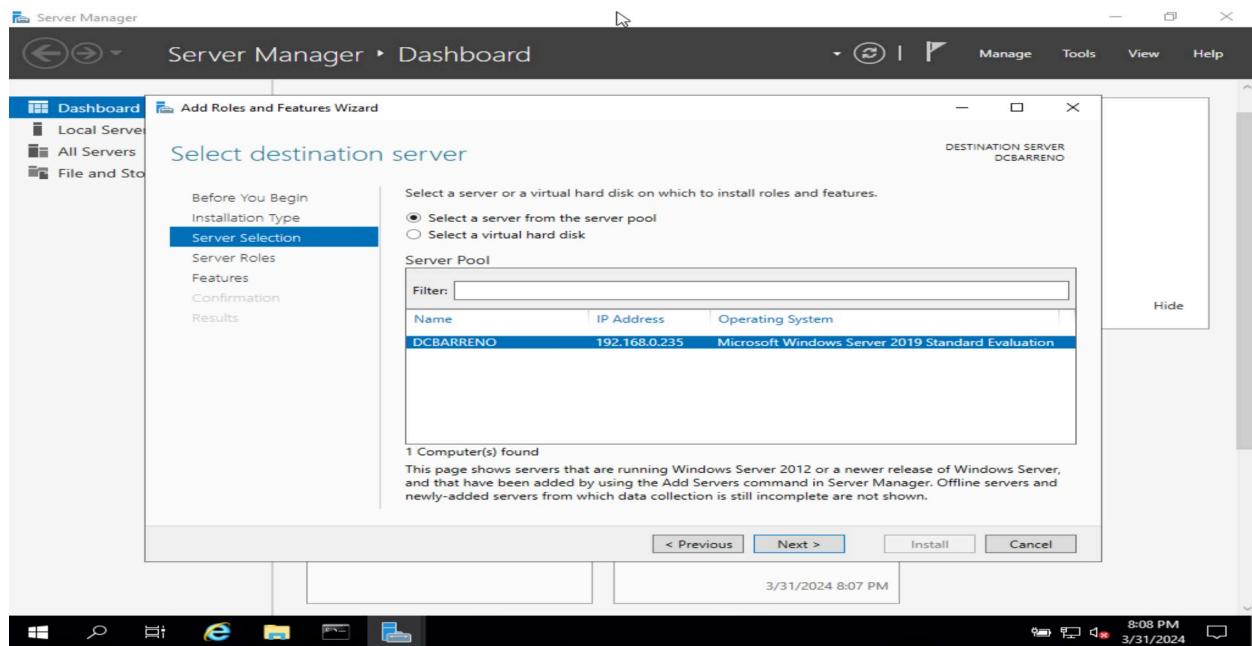


The computer will require you to restart. Once it is back up again, open a command prompt. By using [hostname](#) i can see the host name change to DCBARRENO.

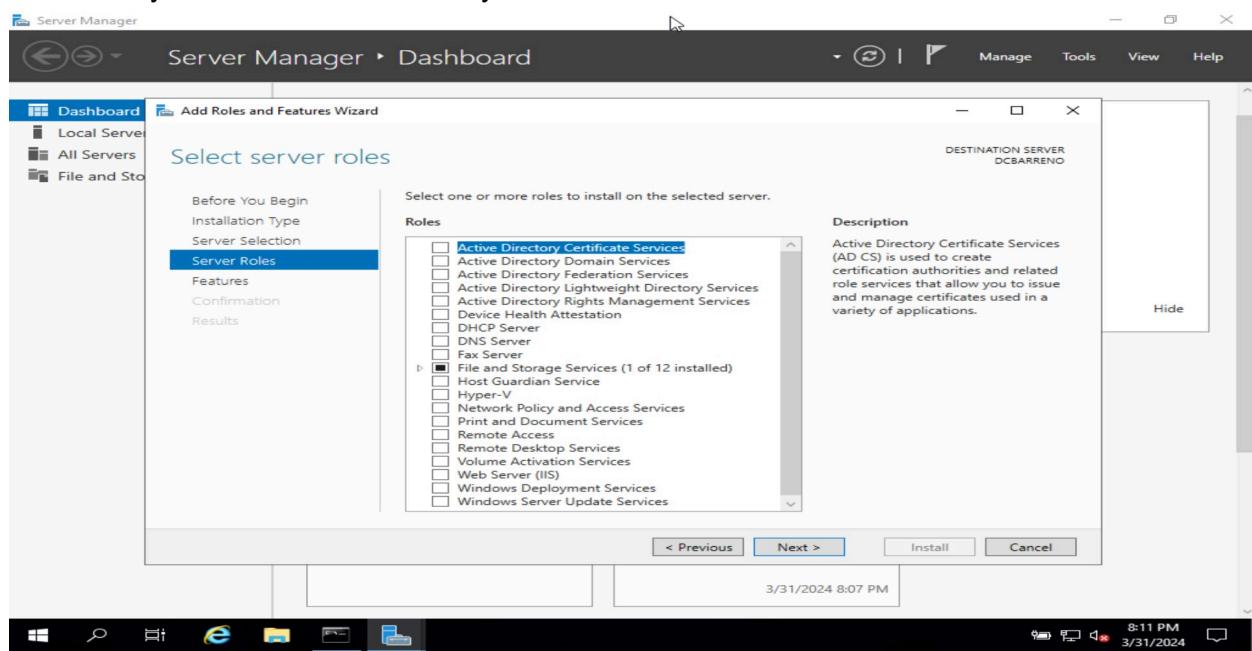


Next, we are going to install AD Service roles.

Click on Manage, and then Add Roles and Features. Follow the steps of the installation wizard. Make sure Role-based or feature-based is selected, and click next.



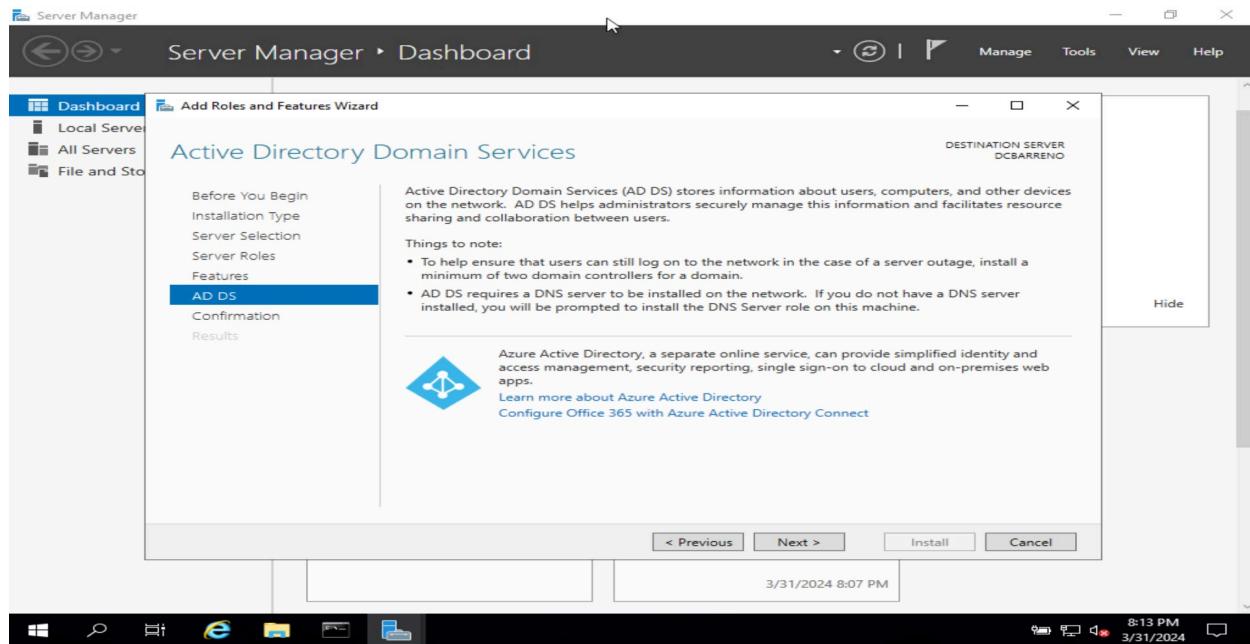
Make sure you select Active Directory Domain Services from the list of roles.



Click next until you get Active Directory Domain Services, here it tells us what AD DS does. Basically AD DS stores information about users, and devices from the network. It also helps administrators securely manage that information, and facilitate collaboration between users.

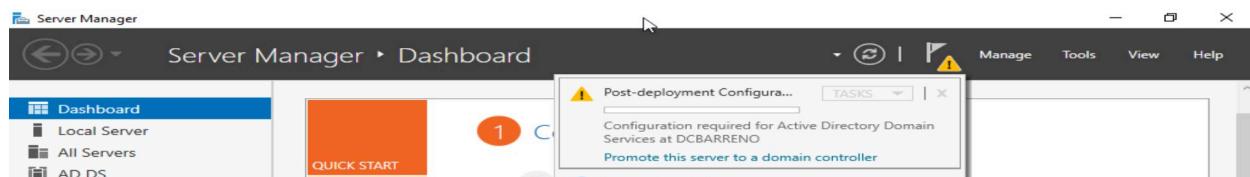
It's also important to keep in mind that Active Directory Domain Services requires a DNS to be installed on the network. That will be the next step.

Click next and the installation is complete.



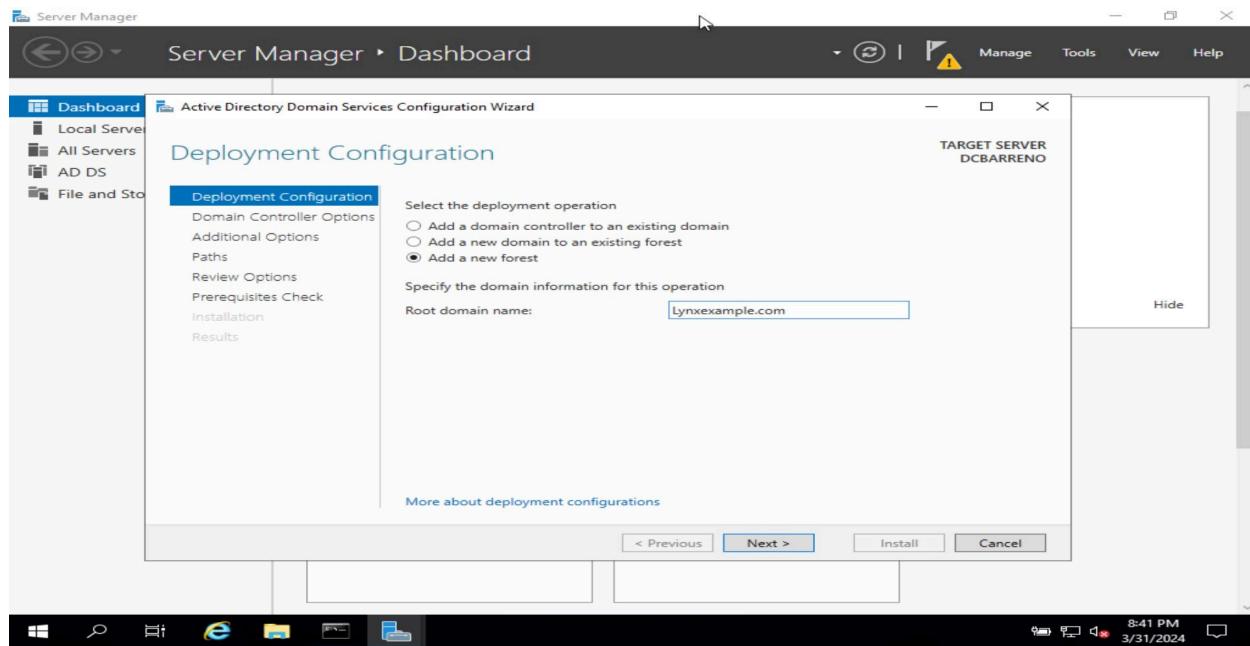
Configuring Active Directory.

Here we are going to open Server Manager. Click on the exclamation mark on the upper right corner. Here click Promote this server to a domain controller.

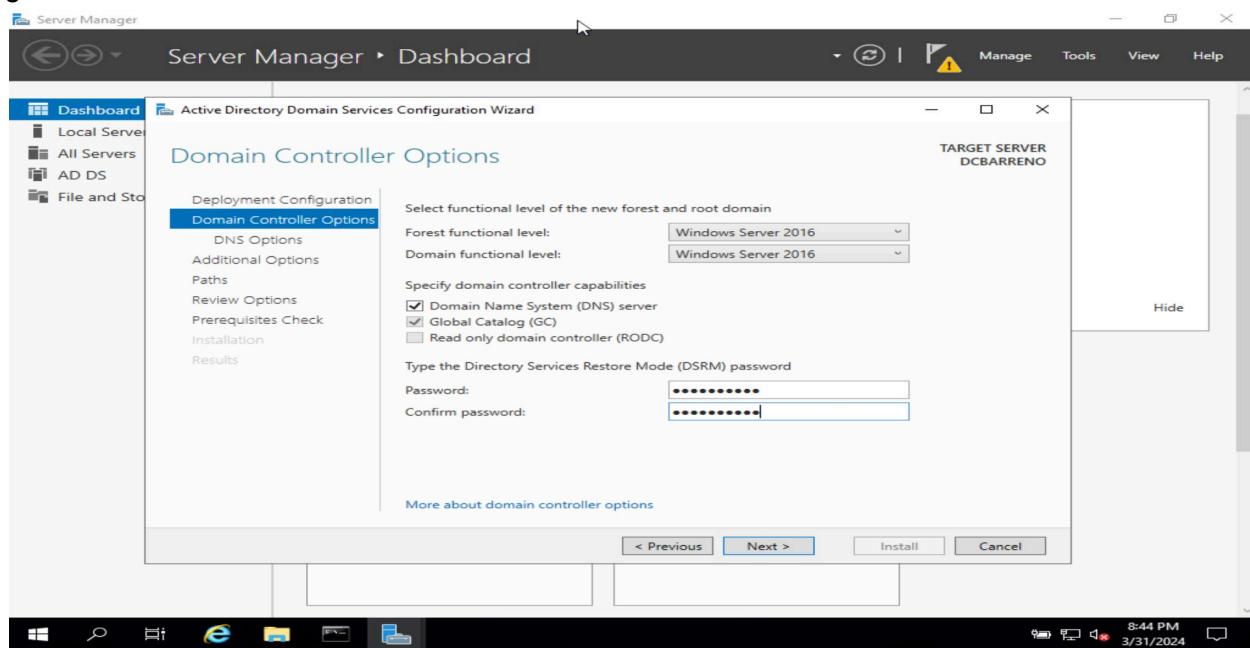


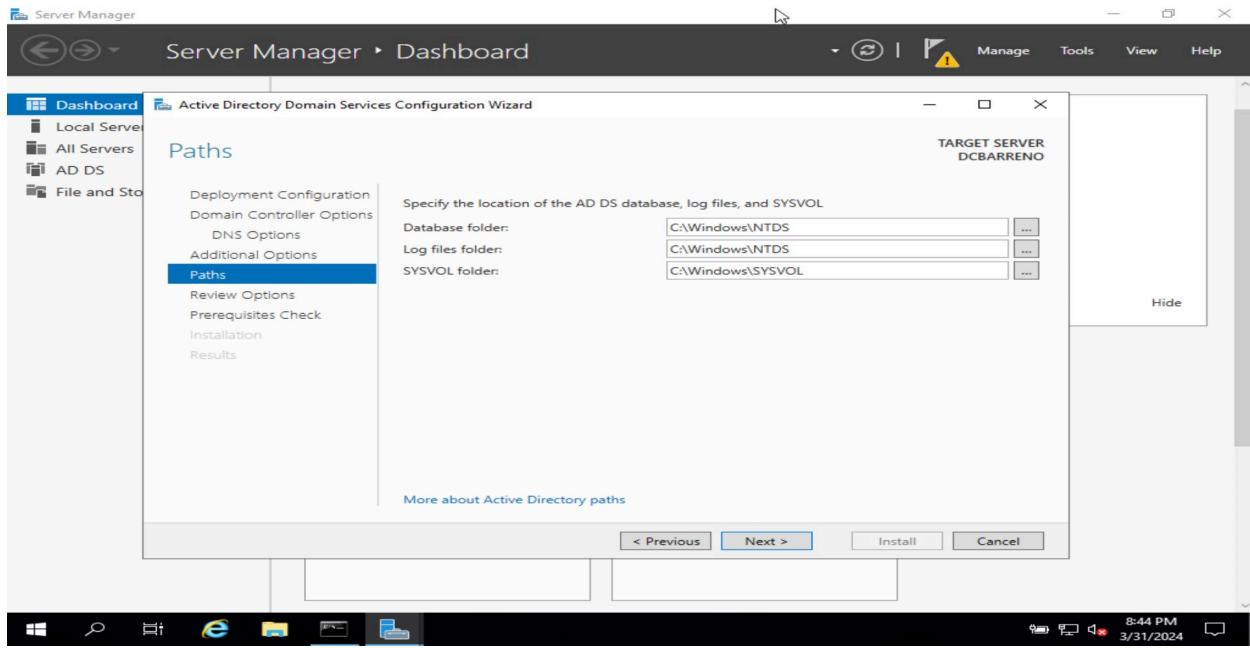
Next we are going to go over the deployment configuration tab.

We are going to add a new forest. A Forest is the highest level of organization of an Active Directory. For the root domain name I decided to go with Lynxexample.com.

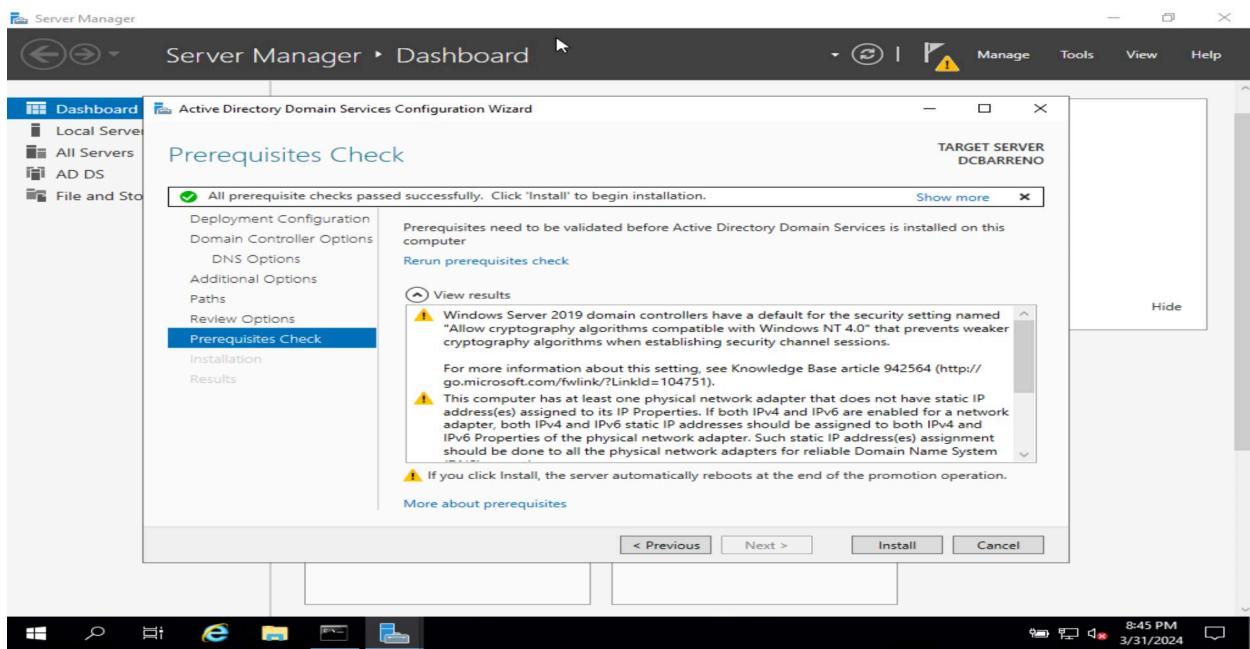


If we want to restore AD from Backup we are required to enter a password. Then Click until you get to Paths.

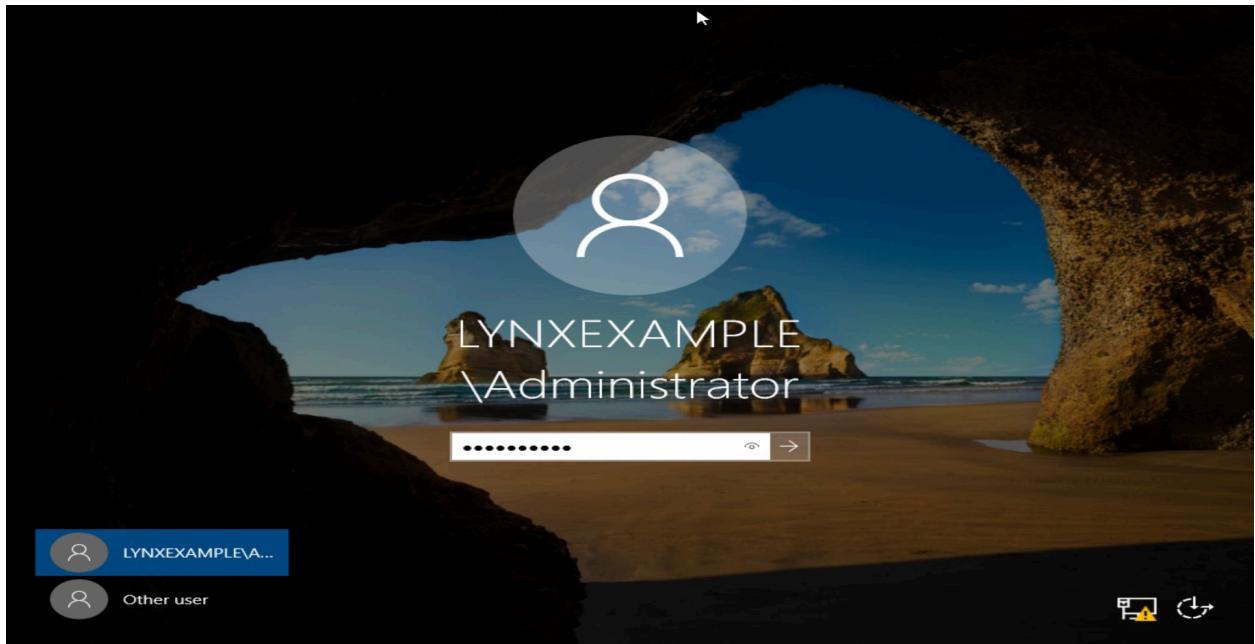




Next the system will do a prerequisites check to make sure AD can be installed on the server. Click Install and the computer will restart.



Below we can see the domain administrator account logging page. Next we will login with our password.



On the screenshot below we can see the Computer name / Domain changes.

A screenshot of the Microsoft Server Manager interface. The title bar shows "Server Manager > Local Server". The left sidebar has "Local Server" selected. The main area displays the "PROPERTIES" for the server "DCBARRENO".

PROPERTIES		TASKS	
Computer name	DCBARRENO	Last installed updates	Today at 7:22
Domain	Lynxexample.com	Windows Update	Download updates
		Last checked for updates	Today at 7:00
Windows Defender Firewall	Private: On	Windows Defender Antivirus	Real-Time Protection Settings
Remote management	Enabled	Feedback & Diagnostics	On
Remote Desktop	Disabled	IE Enhanced Security Configuration	(UTC-08:00)
NIC Teaming	Disabled	Time zone	00431-1000
Ethernet	IPv4 address assigned by DHCP, IPv6 enabled	Product ID	
Operating system version	Microsoft Windows Server 2019 Standard Evaluation	Processors	Intel(R) Core
Hardware information	innotek GmbH VirtualBox	Installed memory (RAM)	11.5 GB
		Total disk space	39.46 GB

Below the properties section is an "EVENTS" pane titled "All events | 0 total". It includes a filter bar and a table with columns: Server Name, ID, Severity, Source, Log, and Date and Time.