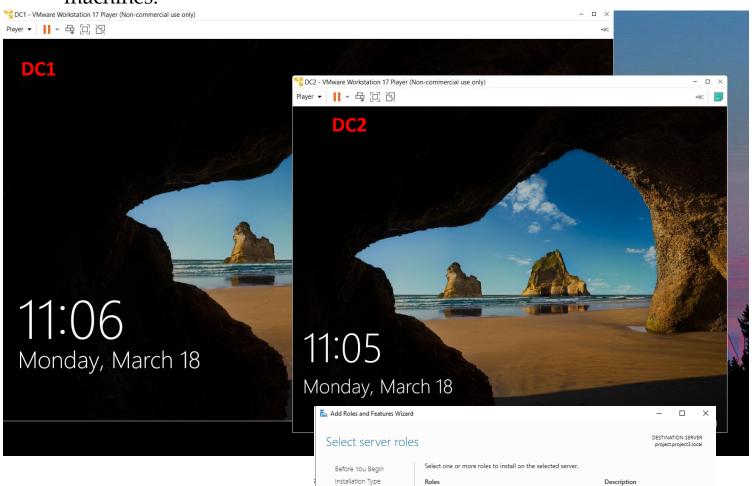
# Secure Active Directory Setup for New Office

## Server Setup

To start, we'll set up two Windows Server systems as virtual machines (VMs). This involves creating virtual copies of Windows Servers on our computer instead of using physical machines.



Features

Active Directory Certificate Services (AD CS) is used to create

certification authorities and related

role services that allow you to issue and manage certificates used in a

Install Cancel

variety of applications.

ctive Directory Domain Services (Installed) ctive Directory Federation Services

ctive Directory Lightweight Directory Services ctive Directory Rights Management Services levice Health Attestation

ile and Storage Services (2 of 12 installed)

< Previous Next >

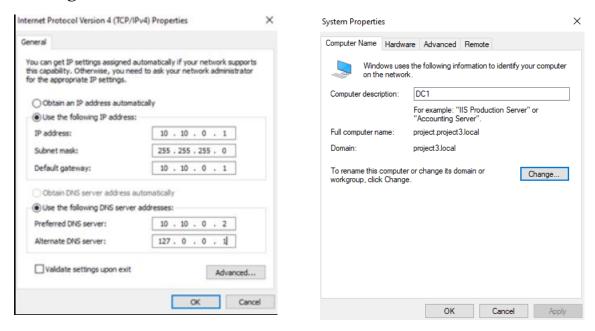
twork Policy and Access Services

rint and Document Services emote Access emote Desktop Services olume Activation Services Veb Server (IIS) (8 of 43 installed) Vindows Deployment Services Vindows Server Update Services

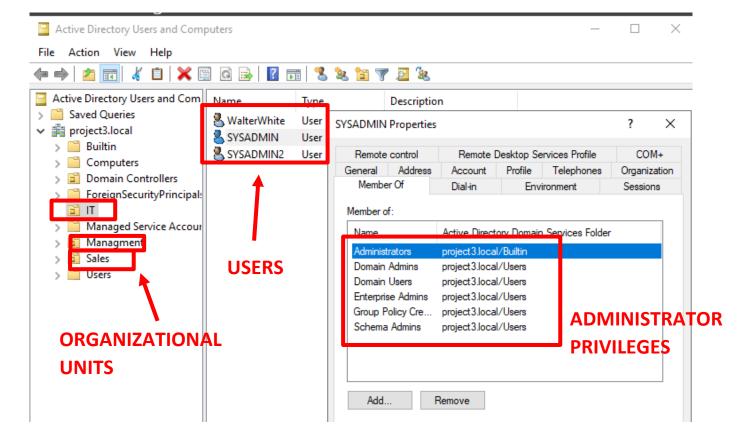
HCP Server (Installed) NS Server (Installed) ax Server

And make the necessary installments on our main server DC1:

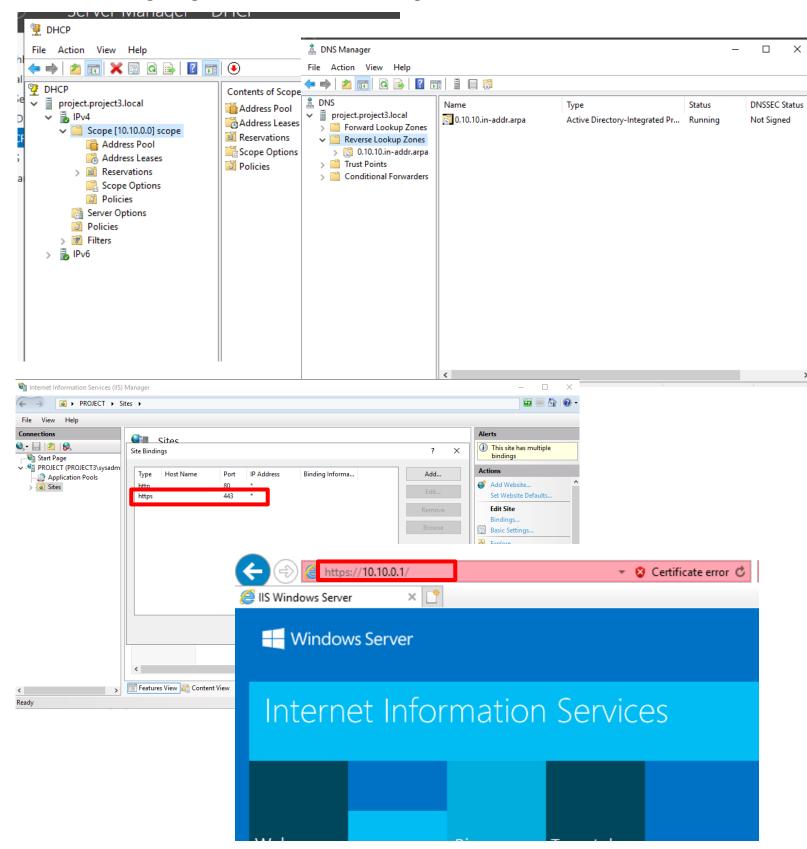
## Configure DC1:

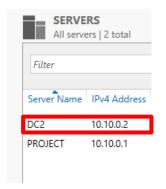


Now we need to create 3 organizational units in our AD, add users, give administrator privileges to a user and disable Administrator:



#### Configuring DNS, DHCP, IIS and adding certificate:





After doing DC2s configuration, we can join two servers:

### File Server Setup

To create FTP server, I'll be using ubuntu VM. After installing the machine, here are the steps:

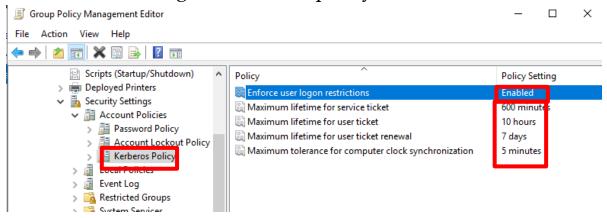
```
sudo apt-get update
sudo apt-get install vsftpd
sudo nano /etc/vsftpd.conf
```

- local\_enable=YES
- write\_enable=YES
- chroot local user=YES

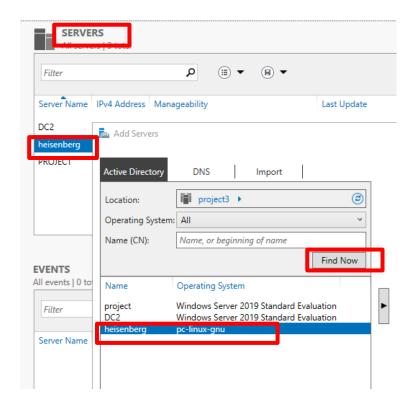
sudo systemctl restart vsftpd

#### **Kerberos**

Here we can configure Kerberos policy:

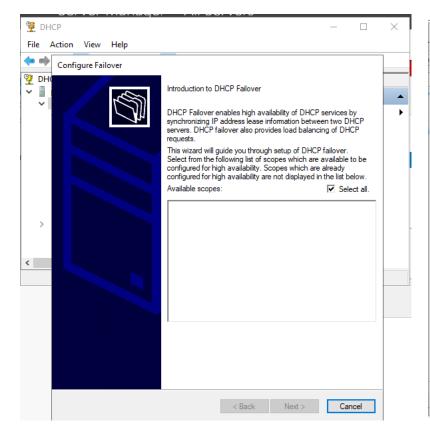


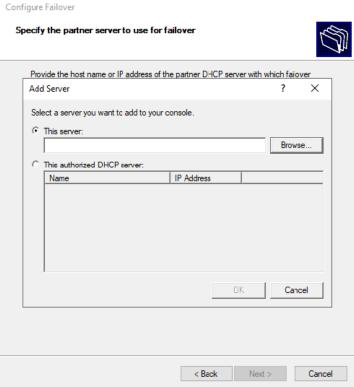
## Adding Linux Server to AD



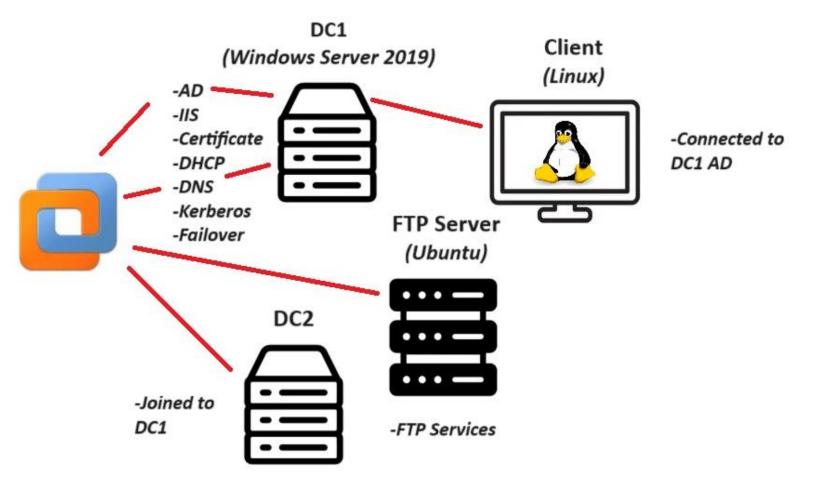
And here we can join Linux to our AD:

# **Failover Configuration**





# Diagram





#### **Conclusion:**

In summary, this project provided hands-on experience in setting up Windows Servers with essential services like Active Directory and IIS. Configuring Group Policies for security enforcement,

implementing a dedicated file server, and learning load balancing techniques were key highlights. This experience enhanced my understanding of network administration and bolstered my practical skills for managing network infrastructure effectively.

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