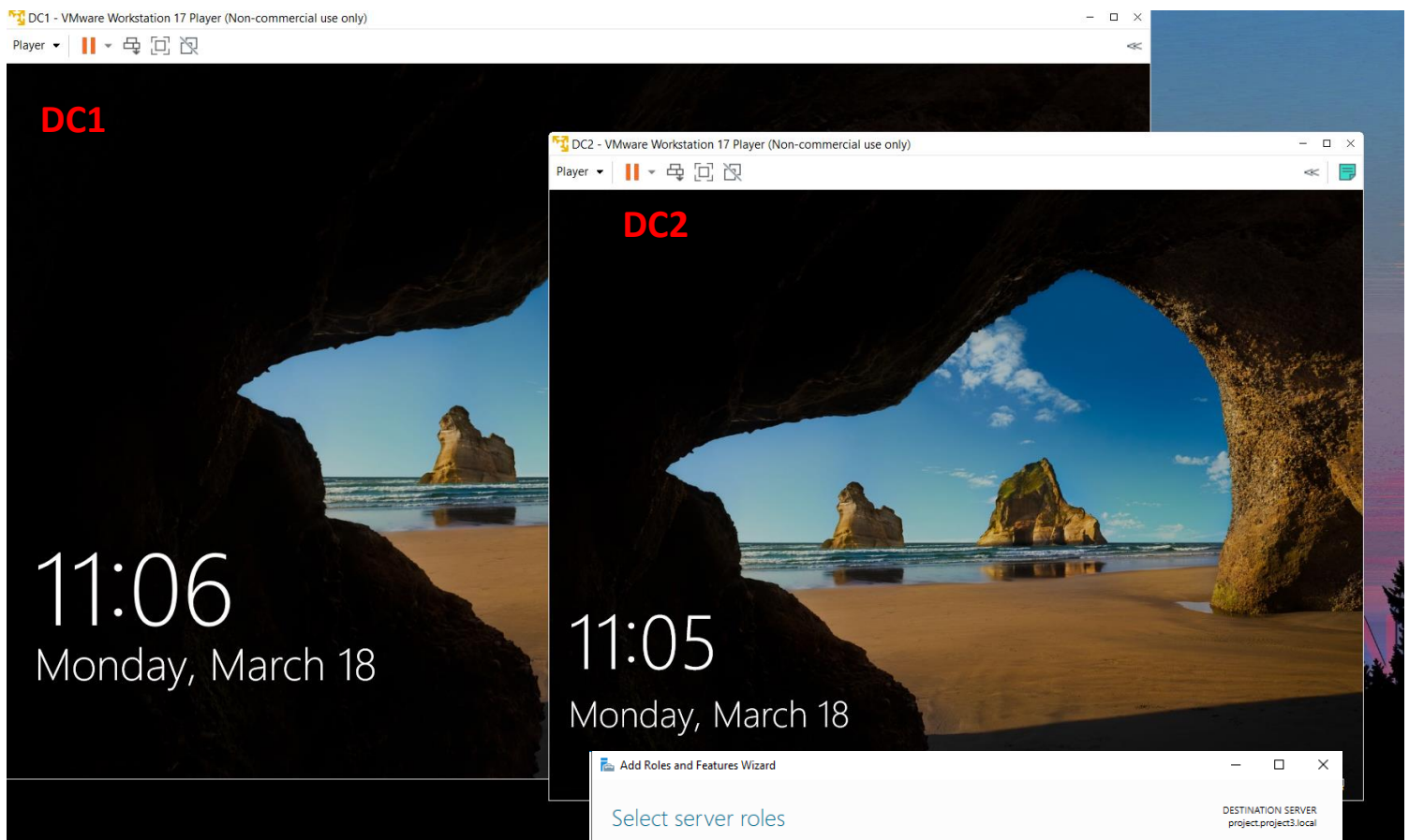


# Secure Active Directory Setup for New Office

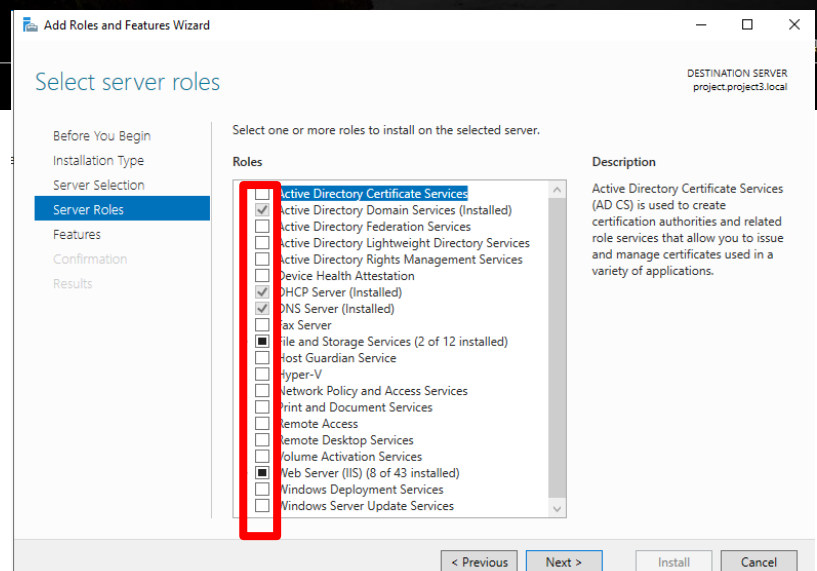


## Server Setup

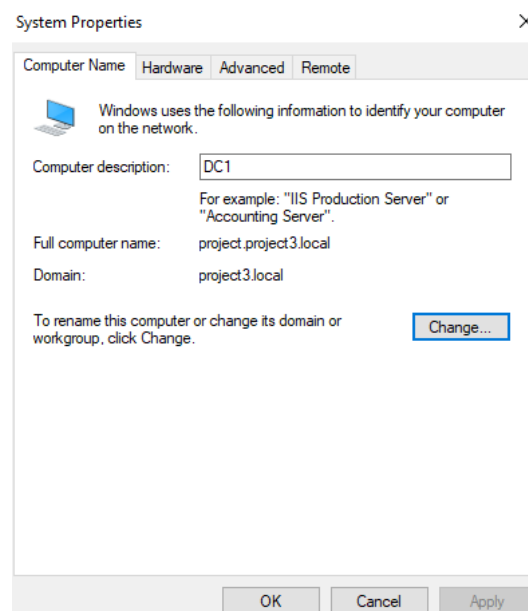
To start, we'll set up two Windows Server systems as virtual machines (VMs). This involves creating virtual copies of Windows Servers on our computer instead of using physical machines.



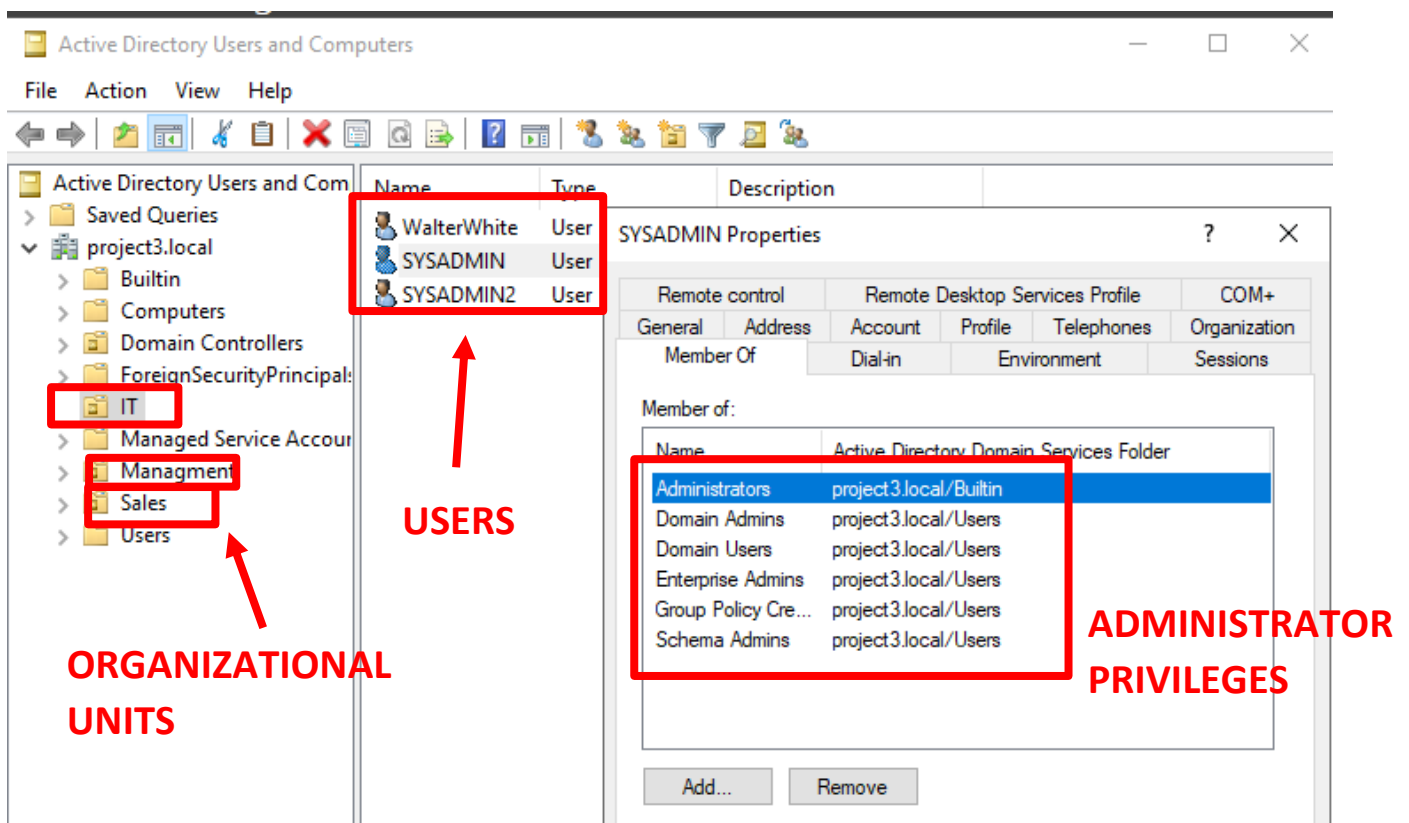
And make the necessary installments on our main server DC1:



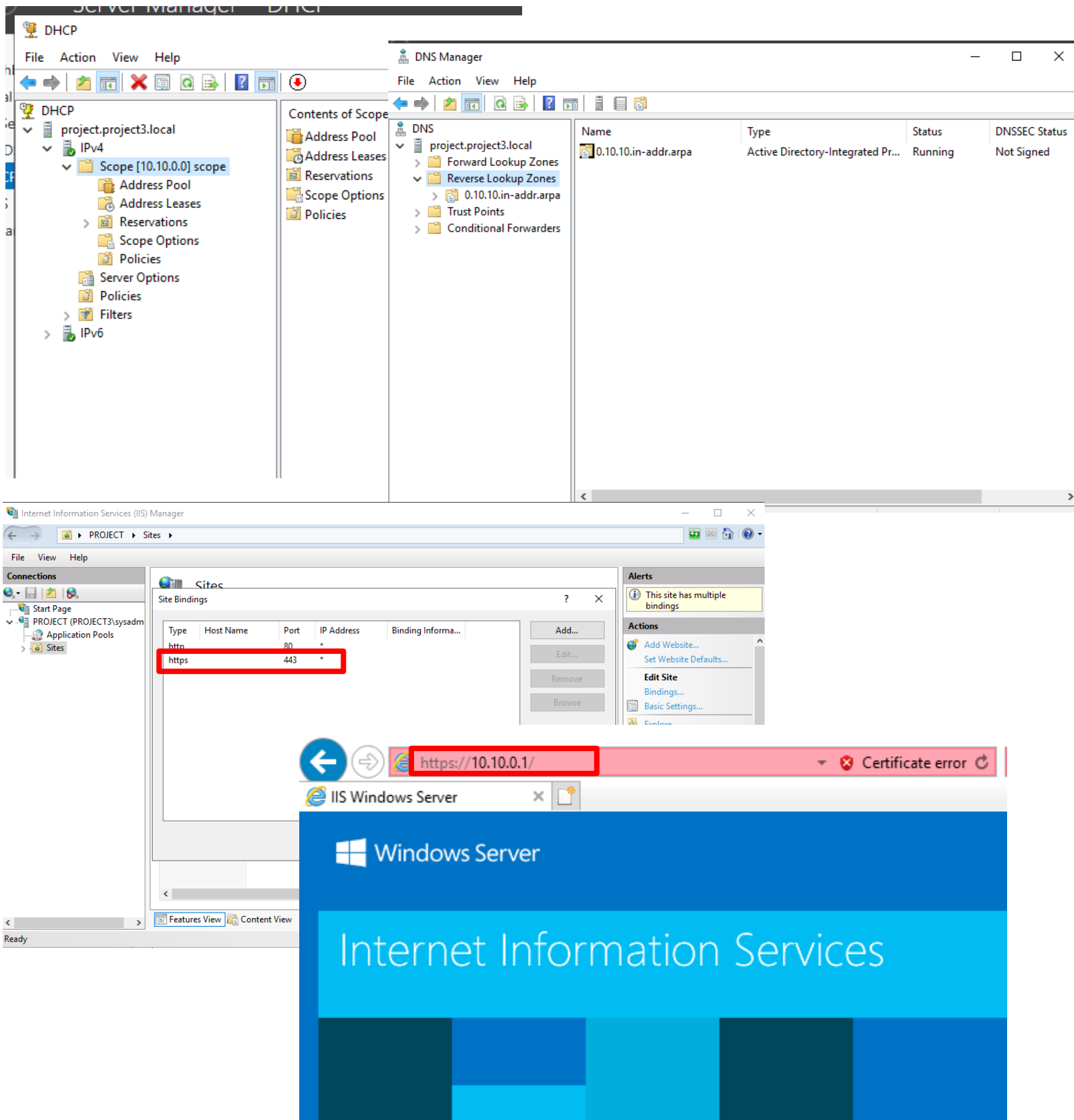
## Configure DC1:

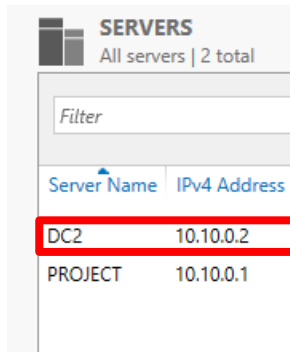


Now we need to create 3 organizational units in our AD, add users, give administrator privileges to a user and disable Administrator:



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





SERVERS	
All servers   2 total	
Filter	
Server Name	IPv4 Address
DC2	10.10.0.2
PROJECT	10.10.0.1

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
```

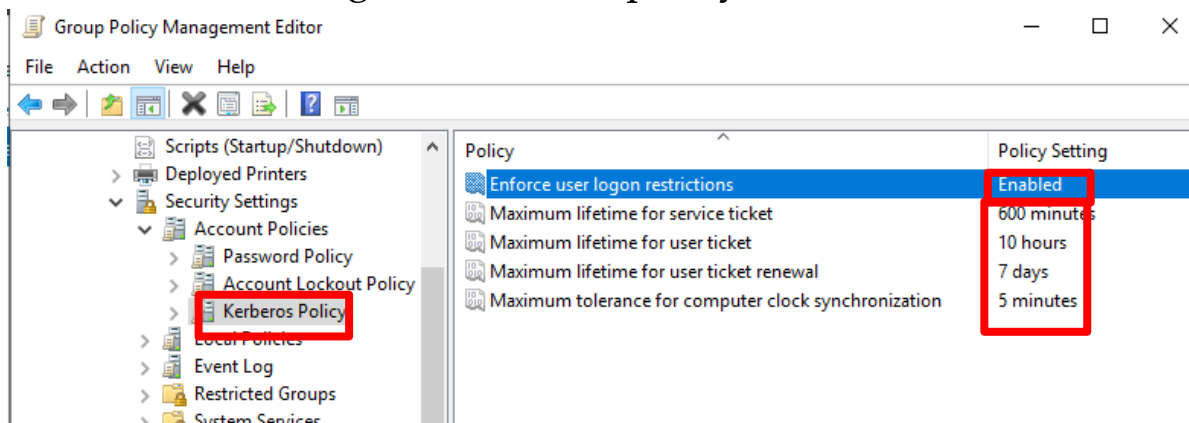
```
sudo nano /etc/vsftpd.conf
```

- **local\_enable=YES**
- **write\_enable=YES**
- **chroot\_local\_user=YES**

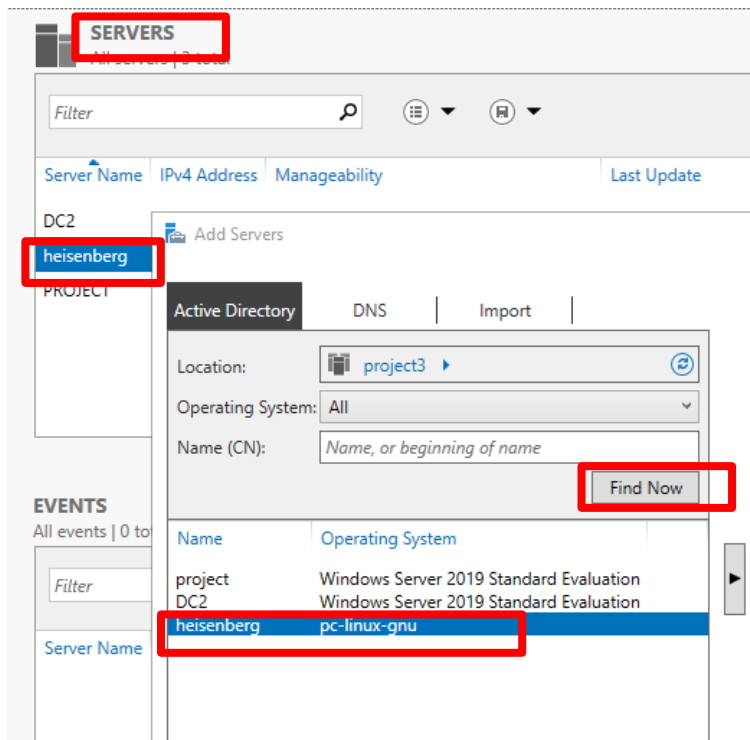
```
sudo systemctl restart vsftpd
```

## Kerberos

Here we can configure Kerberos policy:

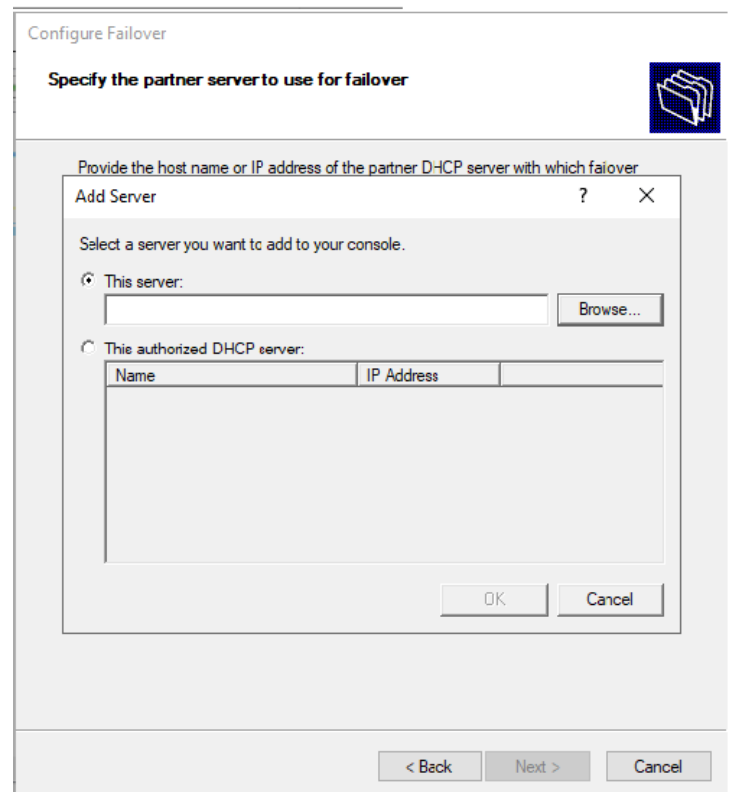
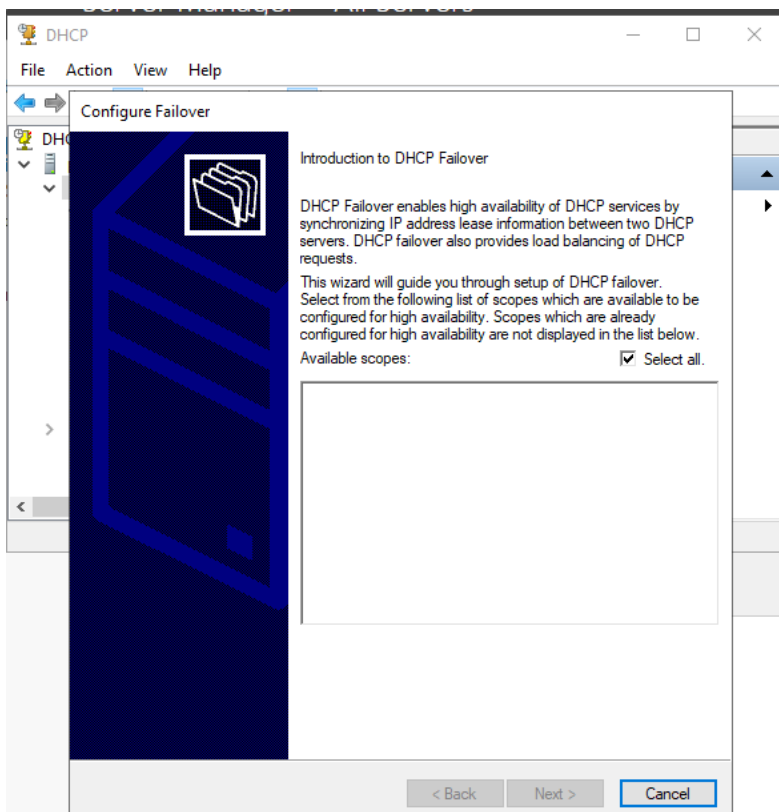


## Adding Linux Server to AD

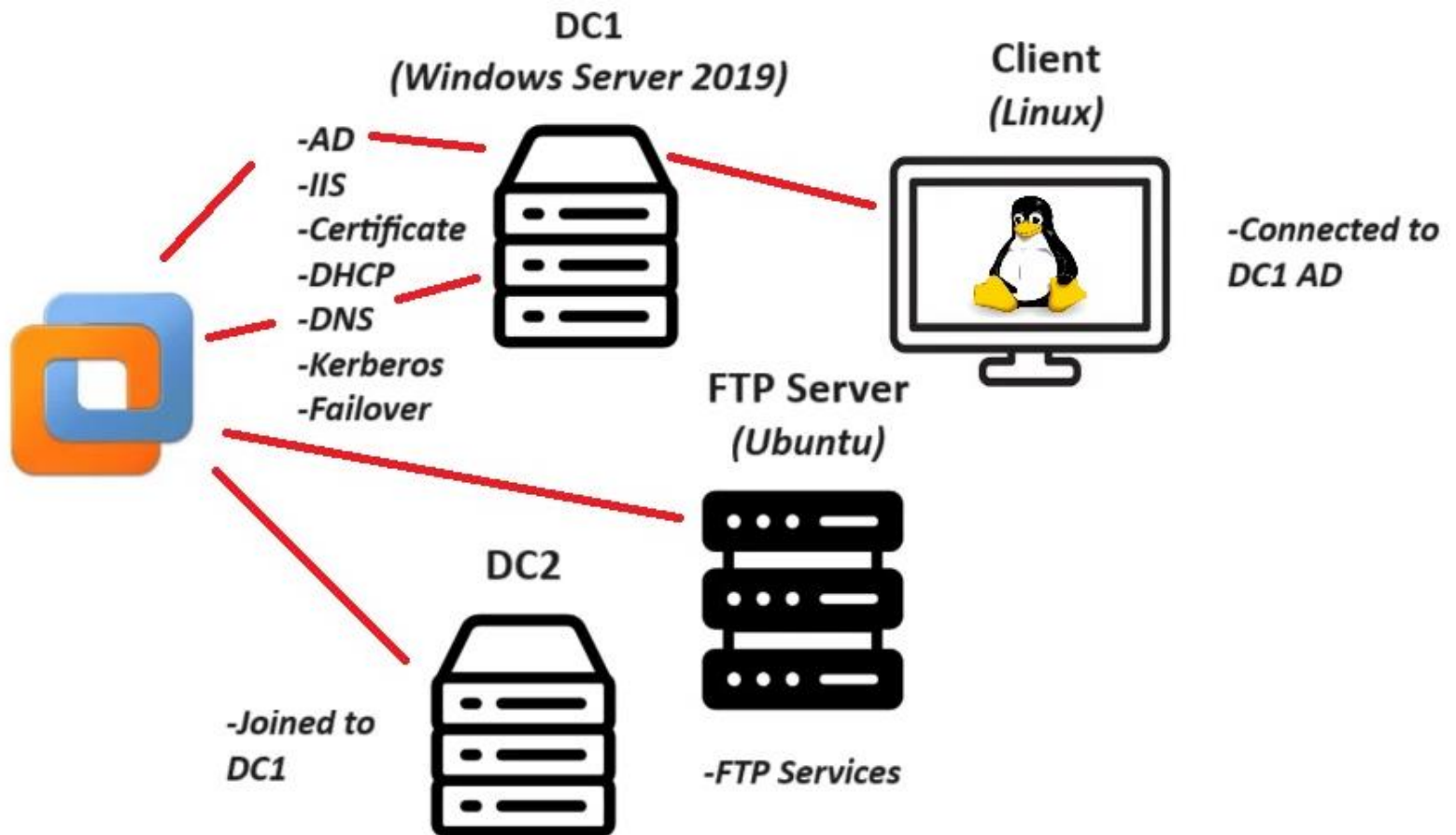


And here we can join Linux to our AD:

## 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.

**References:**

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**relq**

20/03/2024