

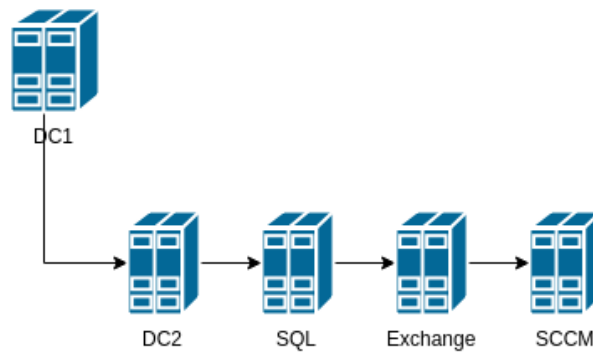
# Windows Server: Domeincontroller 2

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2018 - 2019

## 1 Introductie

U bent IT-Consultant en krijgt de vraag om een voorstel te maken en te demonstreren van een Windows-omgeving. Deze omgeving moet bestaan uit het volgende. De cliënt wenst een redundante oplossing voor zijn servers. Dit vooral op de domeincontrollers. De cliënt wenst ook dat er een mailomgeving geïnstalleerd wordt en een omgeving die toelaat om op een efficiënte manier Windows toestellen te installeren en te deployen.

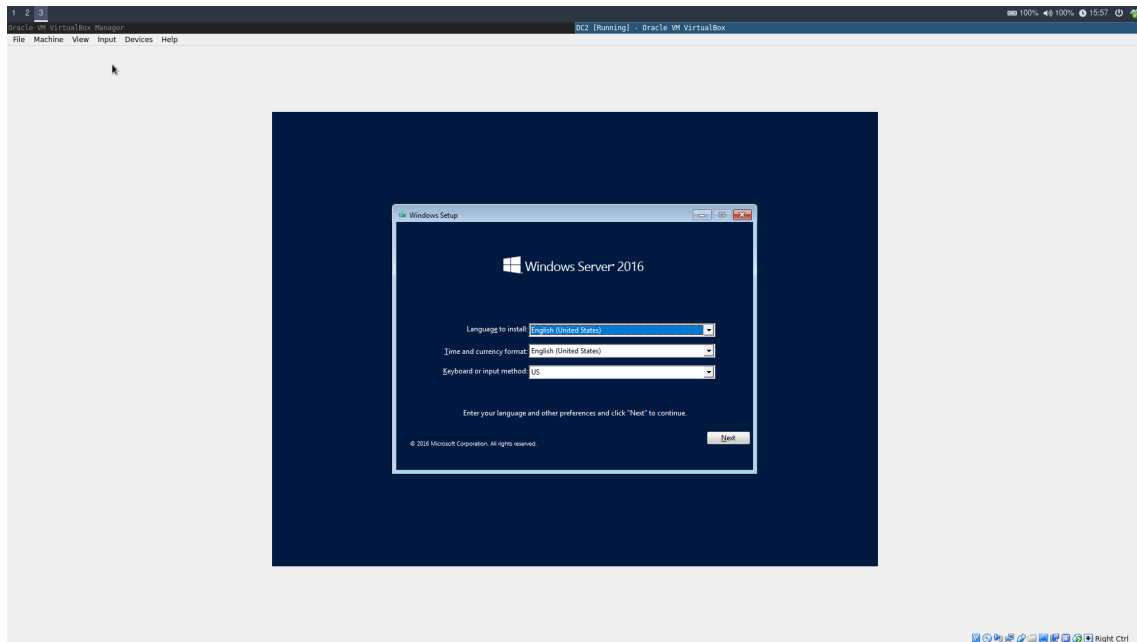


## 2 Server Requirements

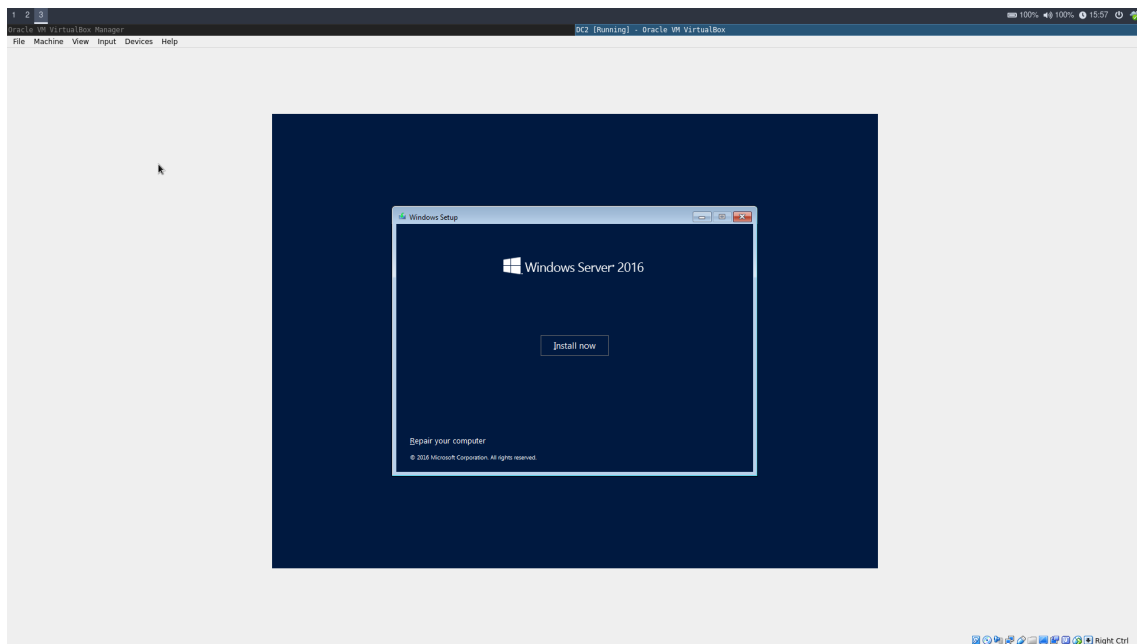
1. DC1
  - (a) RAM: 2048 MB
  - (b) HDD: 50 GB
  - (c) Netwerkadapters: NAT en Internal Network (jenduf.gent)
    - i. NAT
    - i. IP: 192.168.1.1
    - ii. SN: 255.255.255.0
  - (d) OS Version: Windows Server 2016

2. DC2
  - (a) RAM: 2048 MB
  - (b) HDD: 50 GB
  - (c) Netwerkadapters: Internal Network (jenduf.gent)
    - i. IP: 192.168.1.2
    - ii. SN: 255.255.255.0
    - iii. DG: 192.168.1.1
  - (d) OS Version: Windows Server 2016
3. SQL Server
  - (a) RAM: 2048 MB
  - (b) HDD: 50 GB
  - (c) Netwerkadapters: Internal Network (jenduf.gent)
    - i. IP: 192.168.1.3
    - ii. SN: 255.255.255.0
    - iii. DG: 192.168.1.1
  - (d) OS Version: Windows Server 2016
  - (e) SQL Version: SQL Server 2013-2016
4. Exchange Server
  - (a) RAM: 8096 MB
  - (b) HDD: 100 GB
  - (c) Netwerkadapters: Internal Network (jenduf.gent)
    - i. IP: 192.168.1.4
    - ii. SN: 255.255.255.0
    - iii. DG: 192.168.1.1
  - (d) OS Version: Windows Server 2016
  - (e) Exchange Version: Exchange Server 2013-2016
5. SCCM Server
  - (a) RAM: 8089 MB
  - (b) HDD: 100 GB
  - (c) Netwerkadapters: Internal Network (jenduf.gent)
    - i. IP: 192.168.1.5
    - ii. SN: 255.255.255.0
    - iii. DG: 192.168.1.1
  - (d) OS Version: Windows Server 2016
  - (e) OS Version: Windows Deployment Server 2012

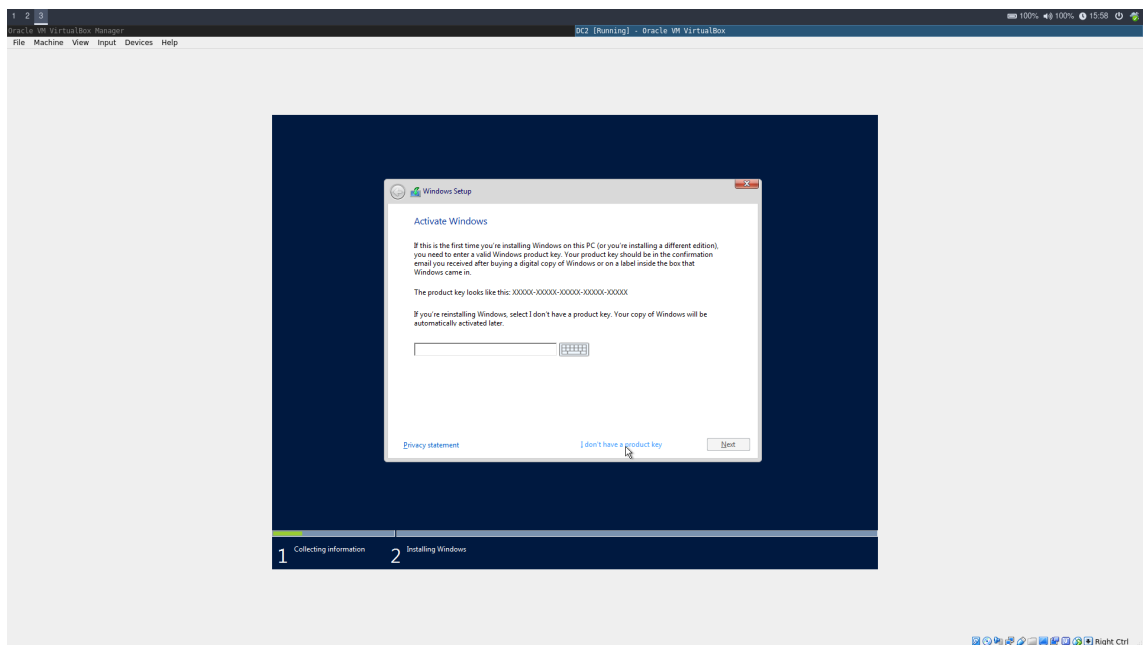
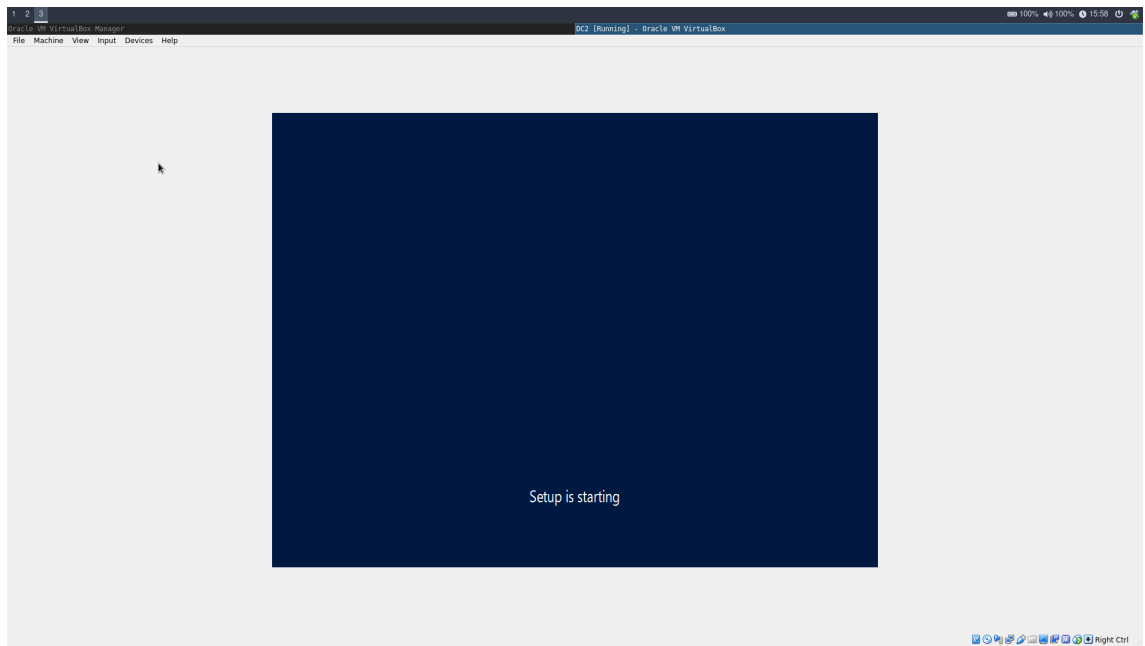
### 3 Windows Server Installatie



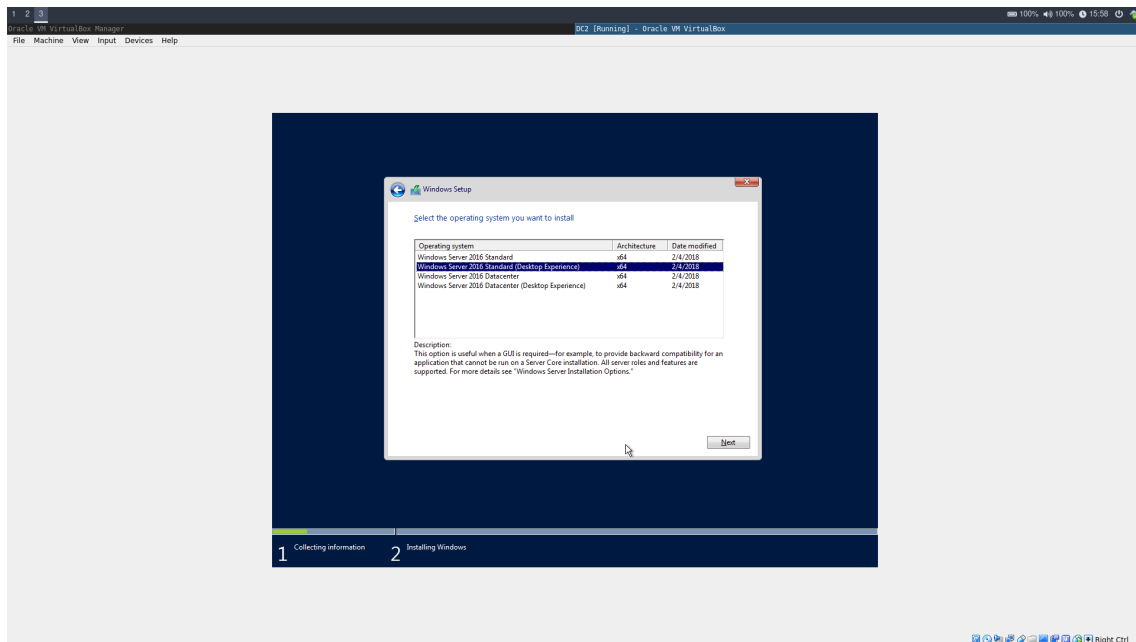
Selecteer de gewenste taalinstellingen.



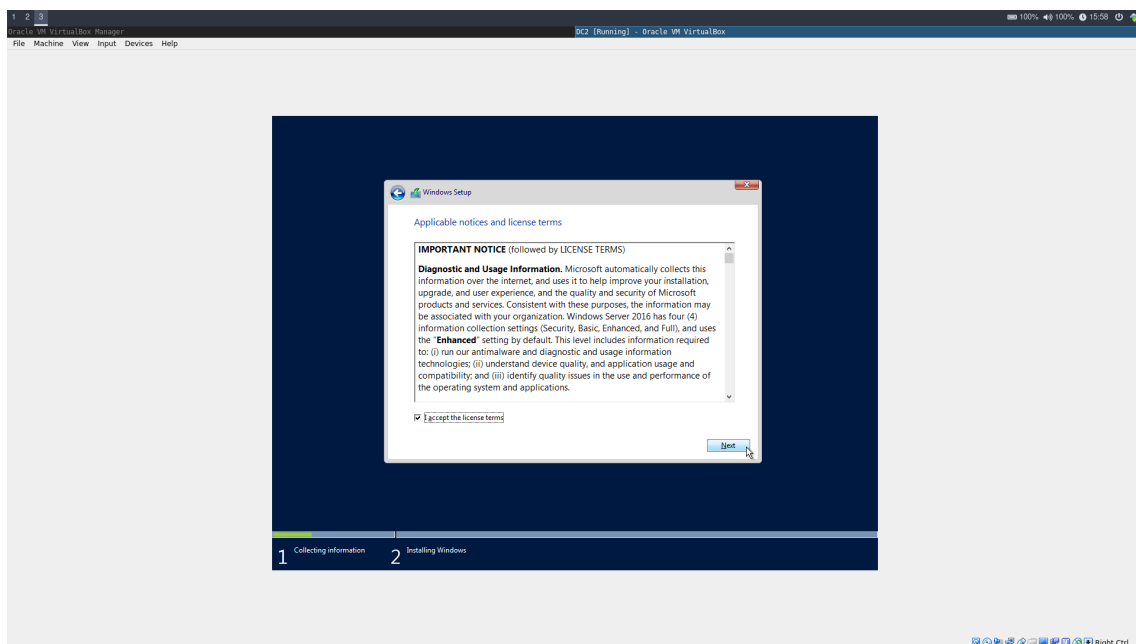
Start de installatie.



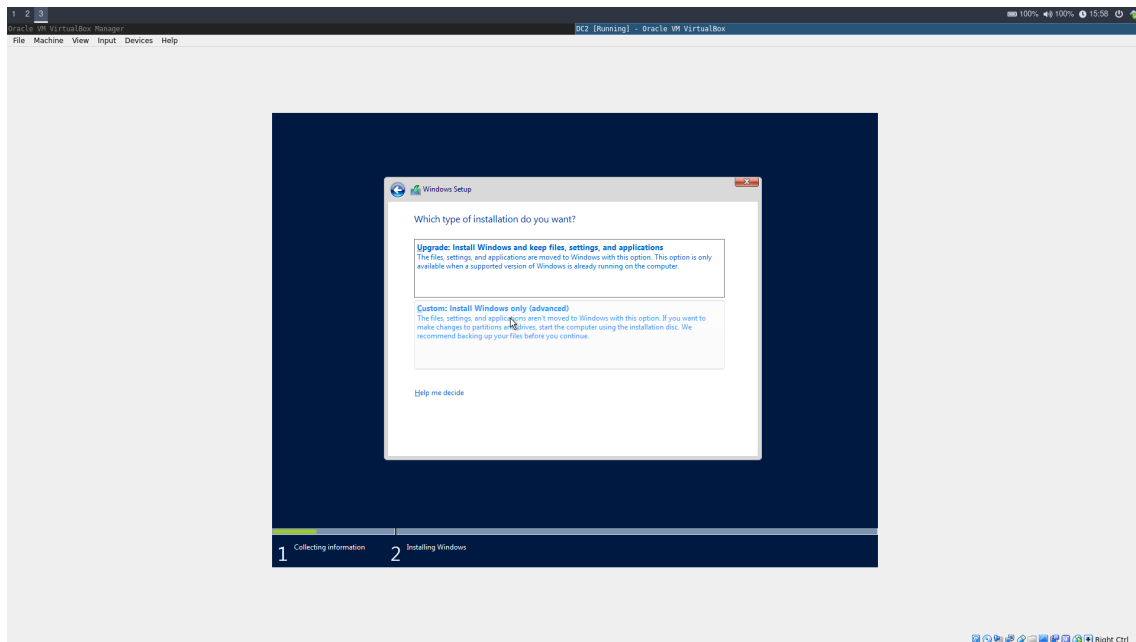
Selecteer "I don't have a product key".



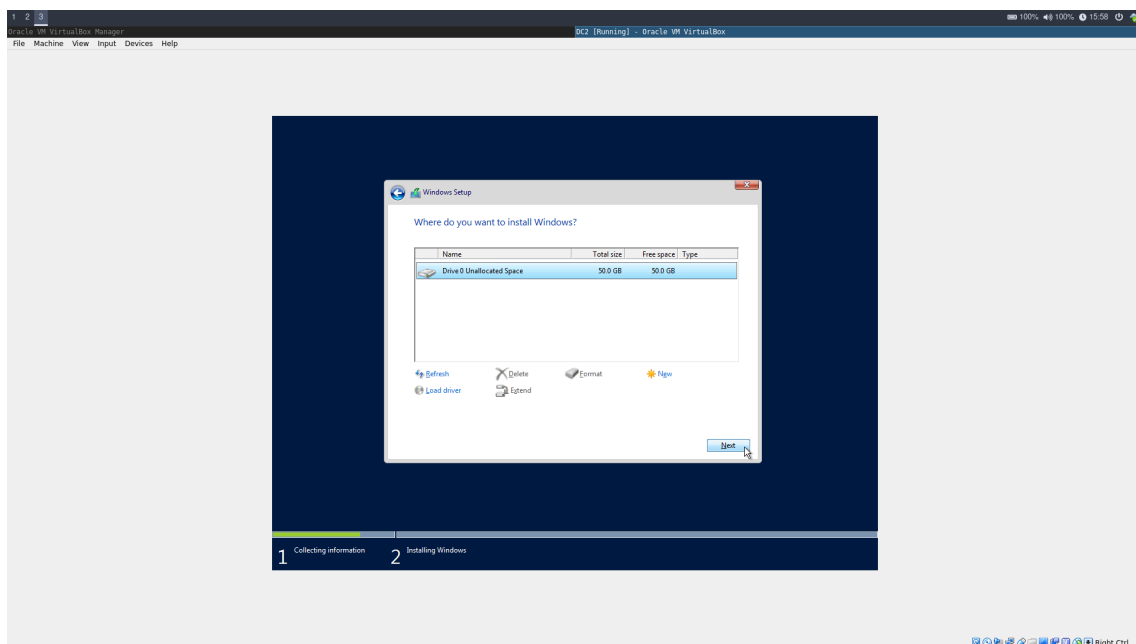
Selecteer "Windows Server 2016 Standard (Desktop Experience)".



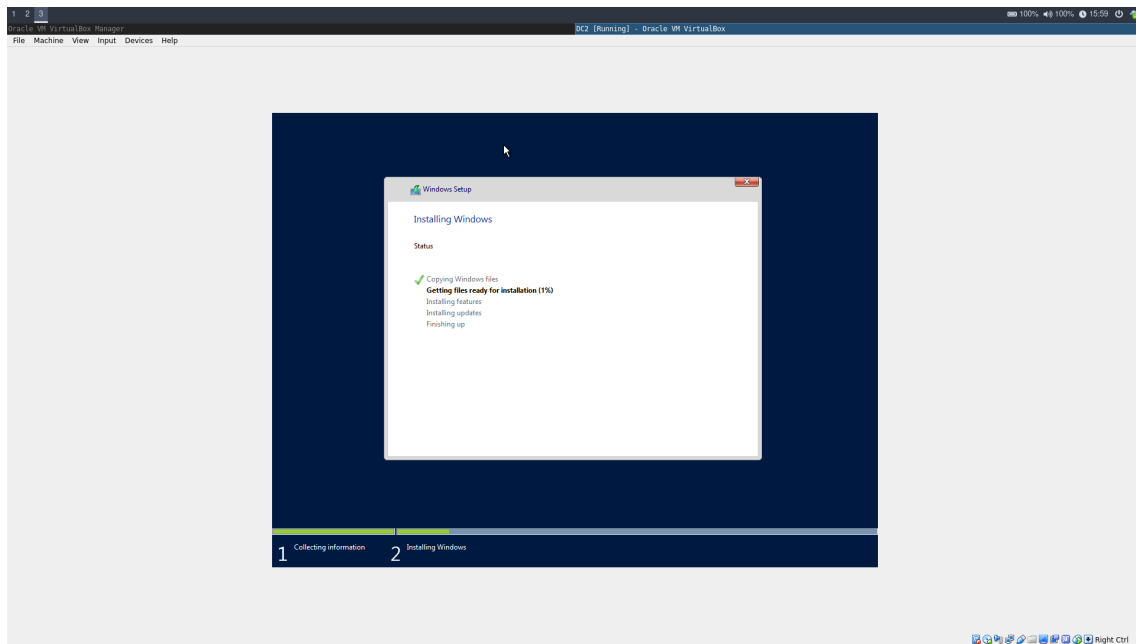
Ga akkoord met de gebruiksvoorwaarden.



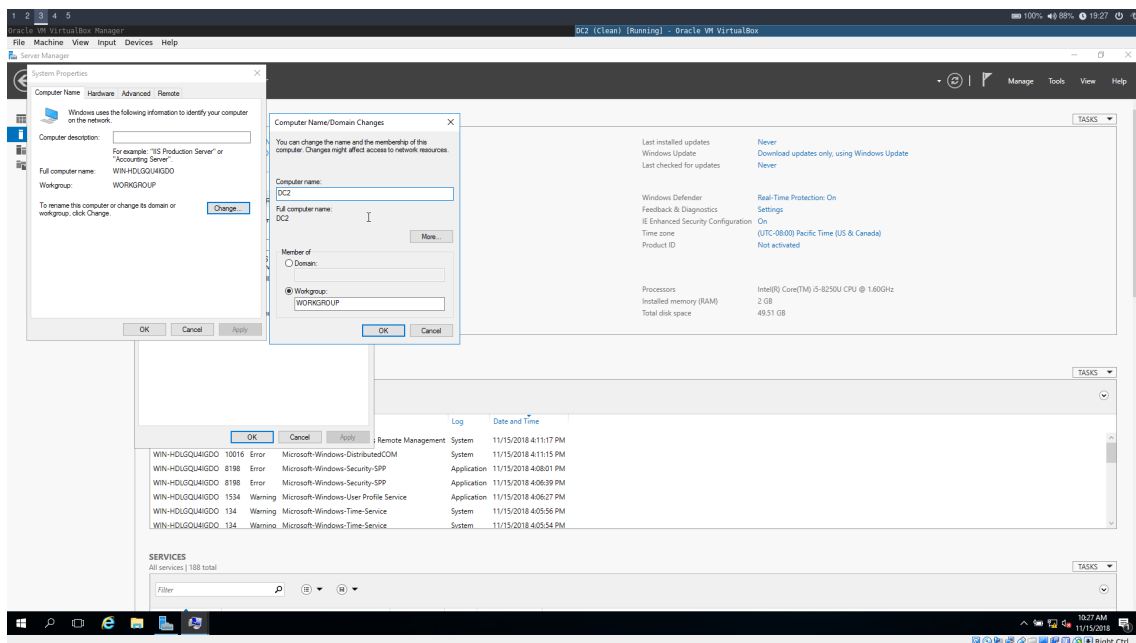
Selecteer "Custom: Install Windows only (Advanced)".



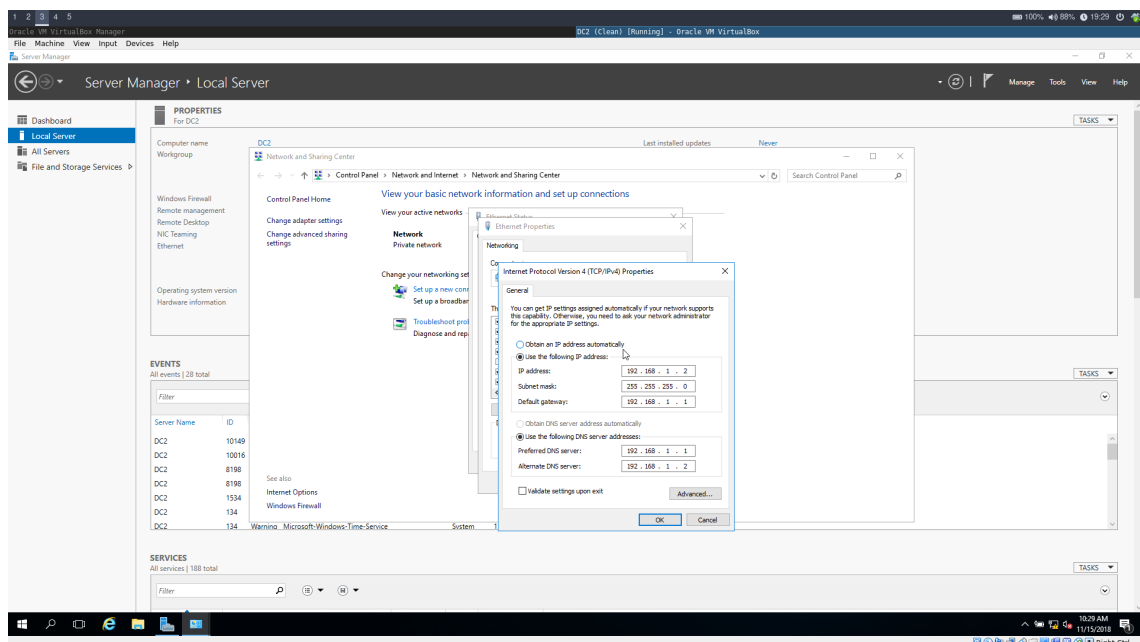
Ga verder.



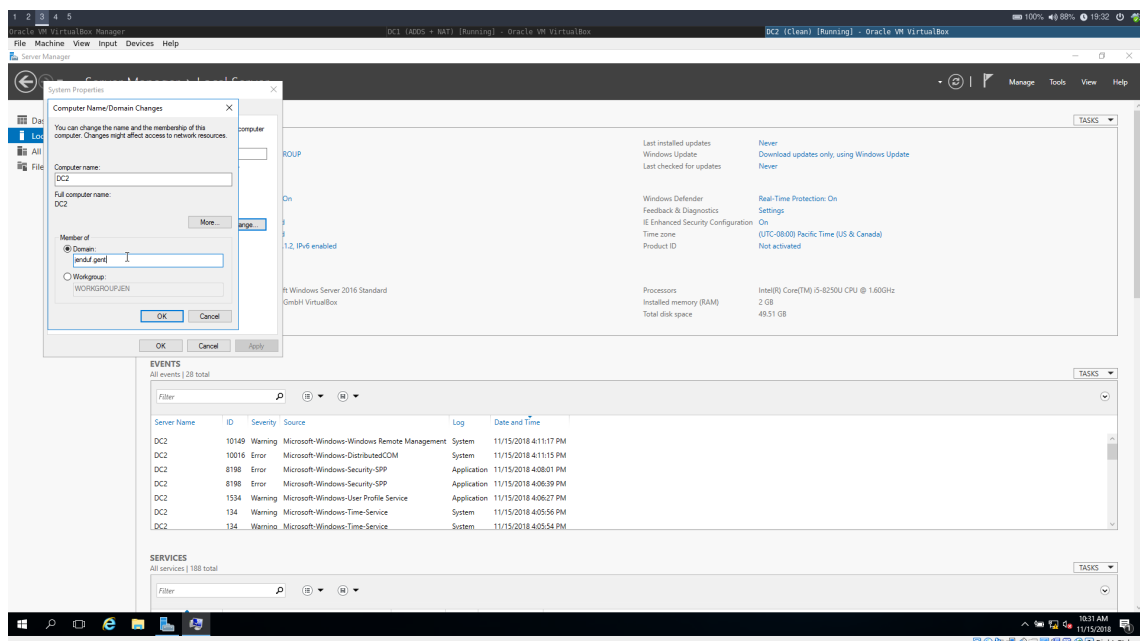
### 3.1 Server Hernoemen



## 3.2 IP Instellingen

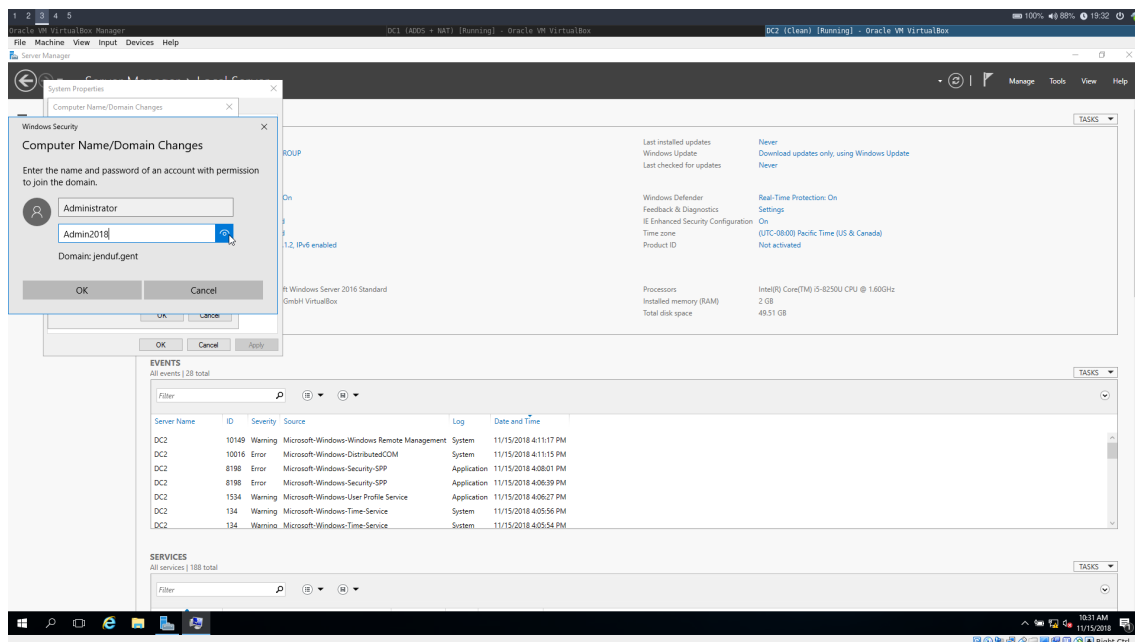


## 3.3 Toevoegen aan het domein

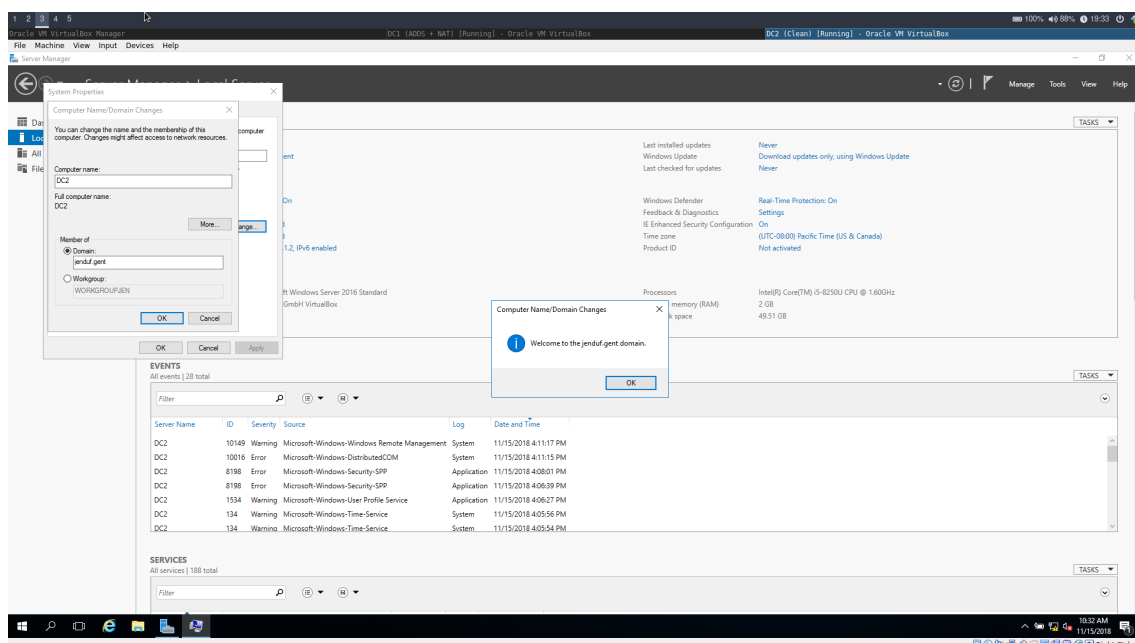


Geef als domein jenduf.gent in.



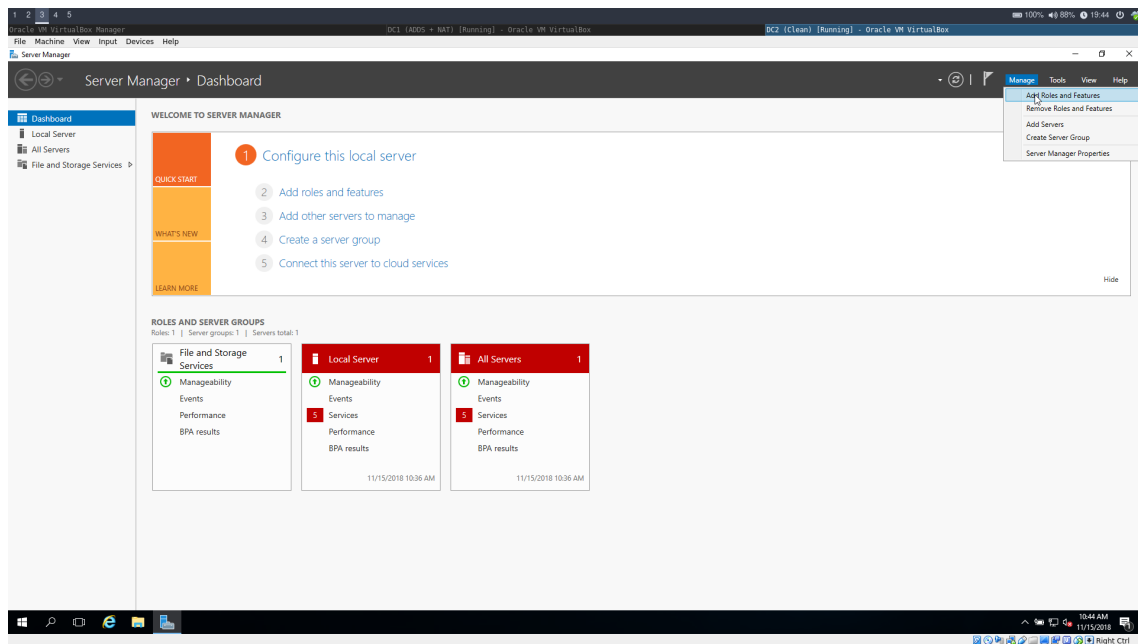


Geem gebruikersnaam "Administrator" in en paswoord "Admin2018".

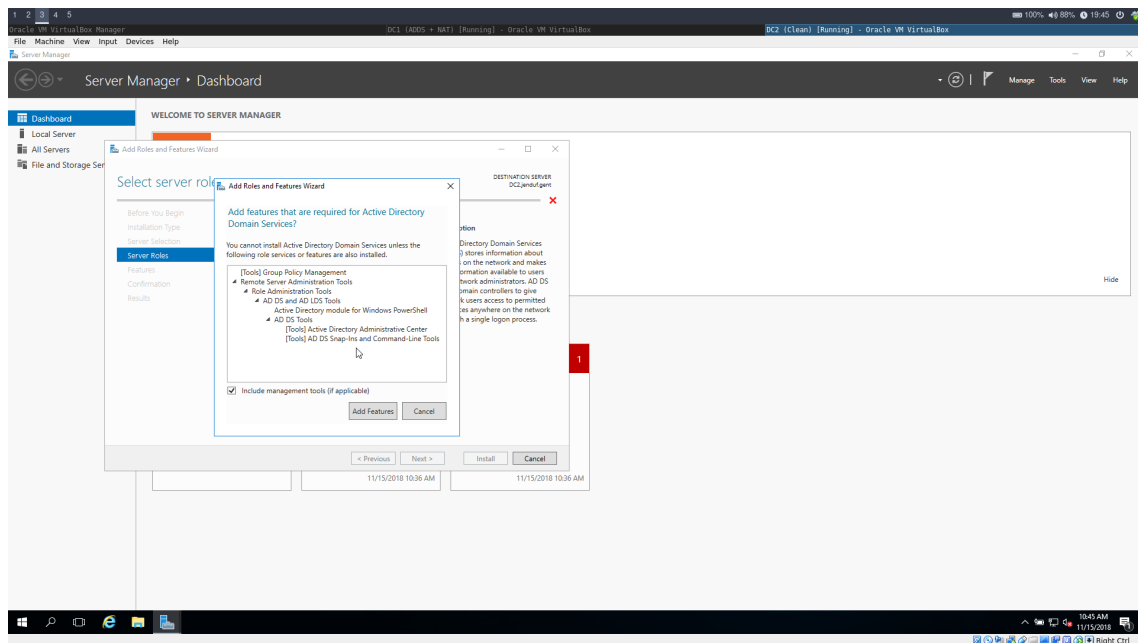


De connectie is geslaagd bij het weergeven van volgende boodschap.

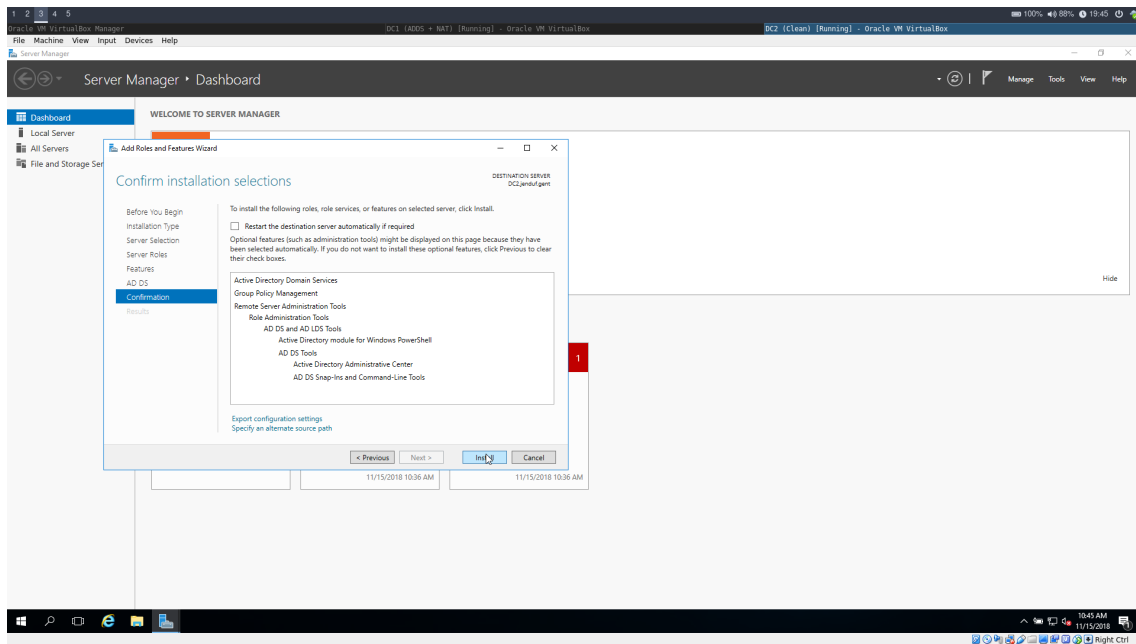
## 4 Installatie ADDS



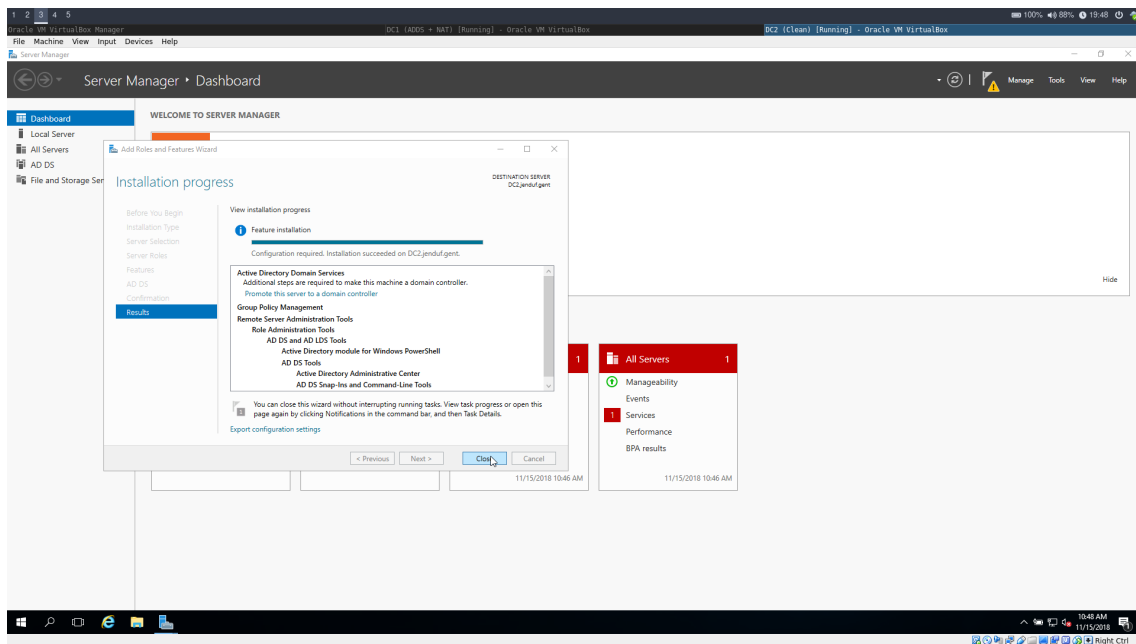
Voeg een nieuwe rol toe.

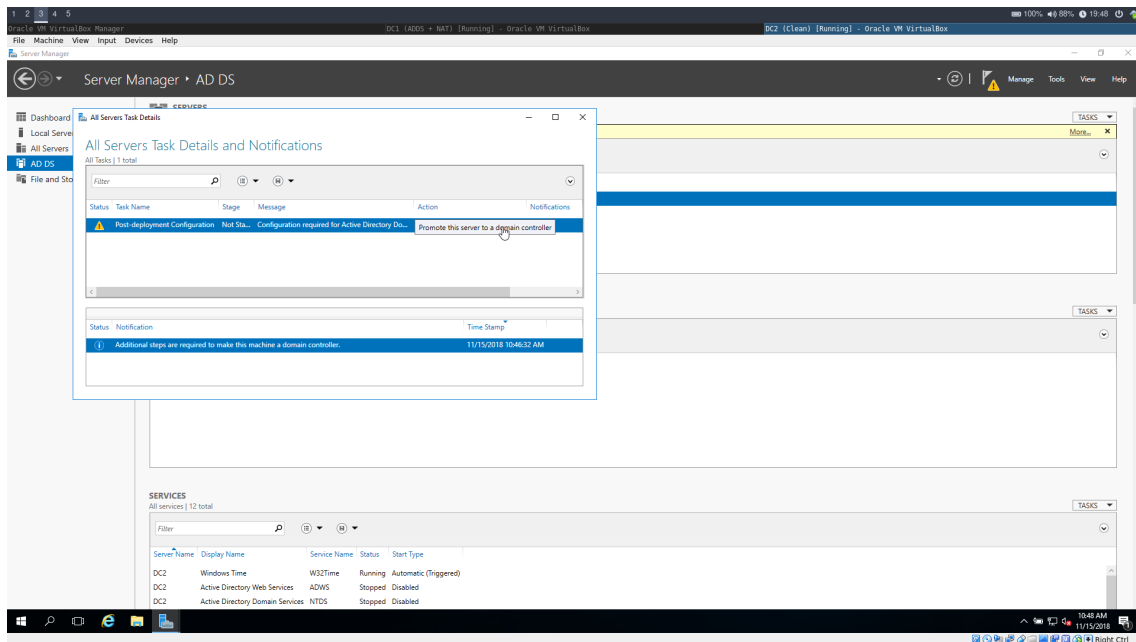


Selecteer "Active Domain Directory Service".

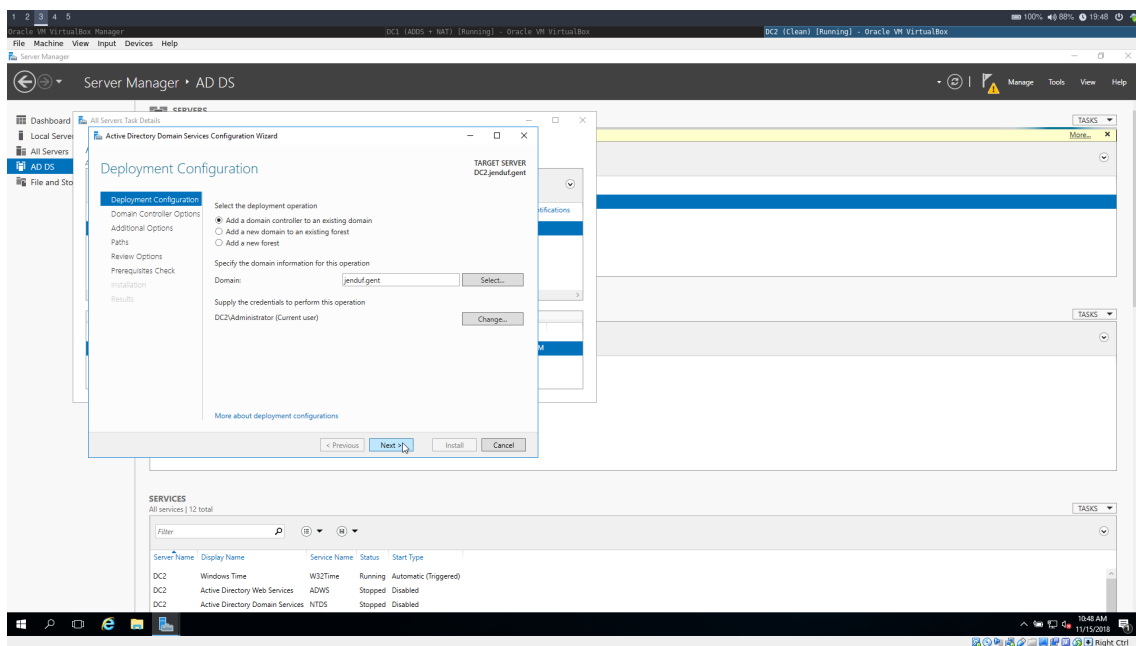


Volg de installatiewizard.

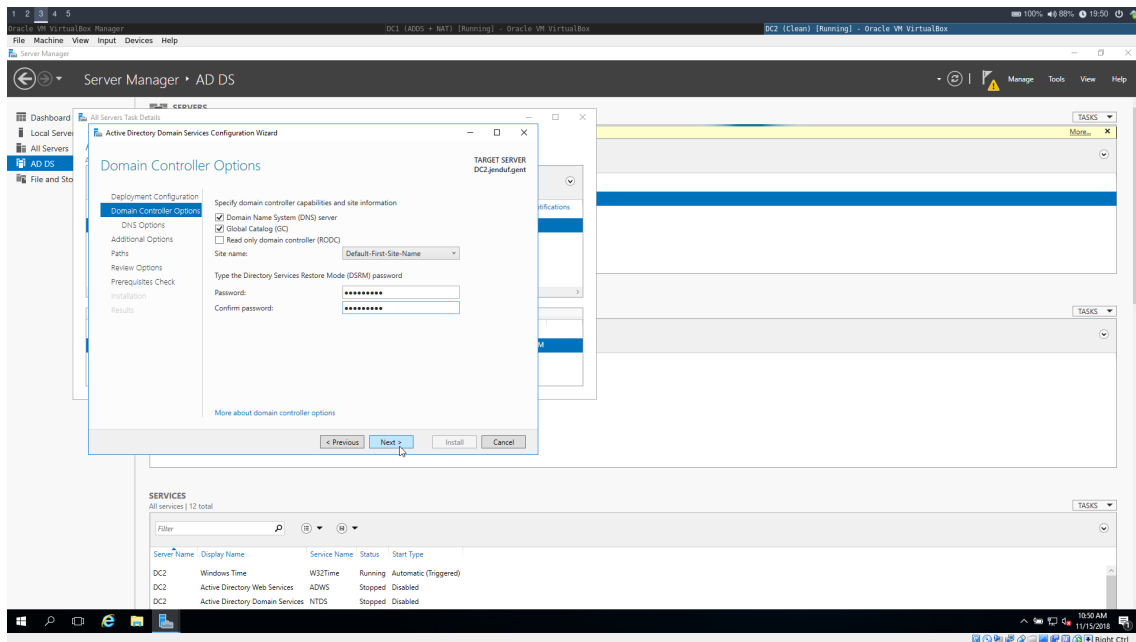




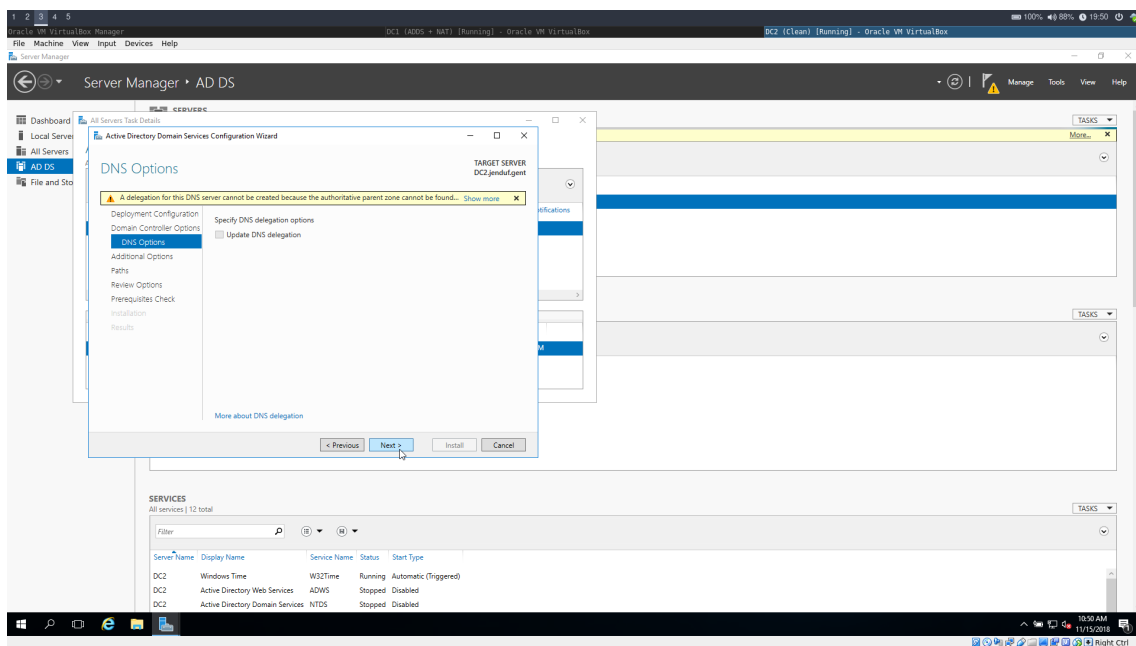
Promoveer de server tot een domeincontroller.



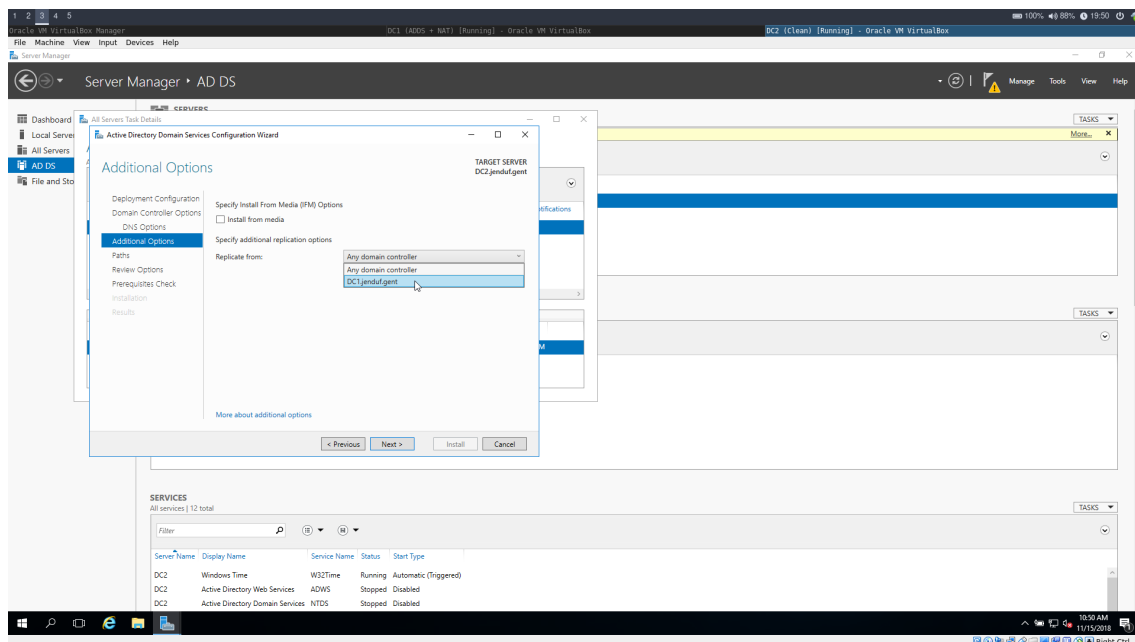
Selecteer "Add domain controller to an existing domain".



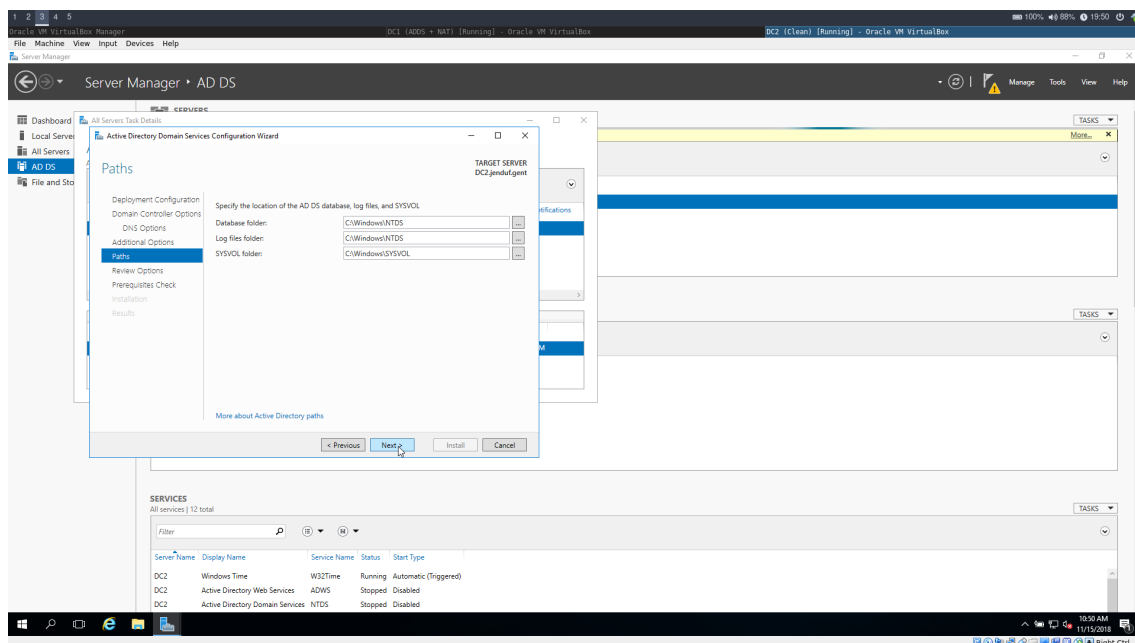
Kies als paswoord opnieuw "Admin2018".

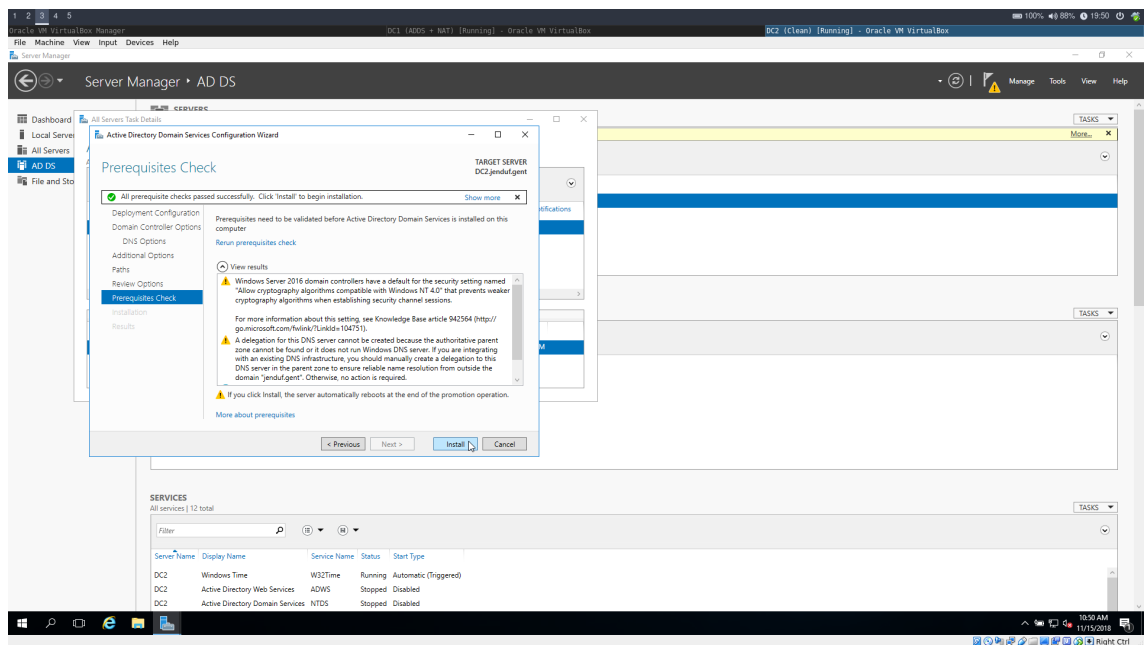
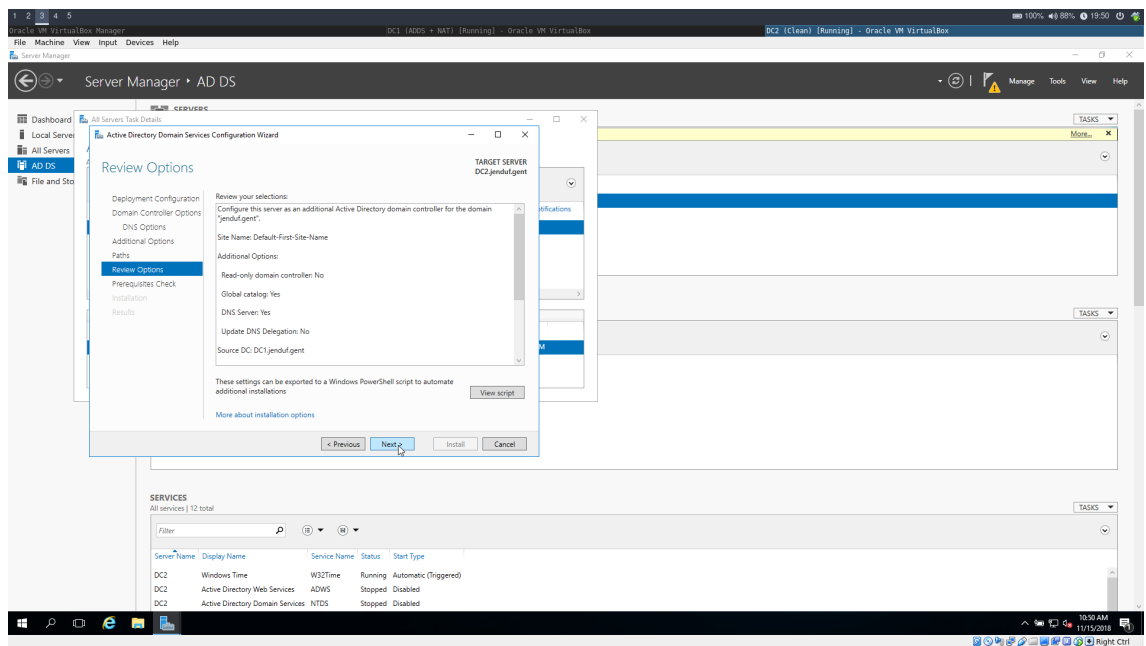


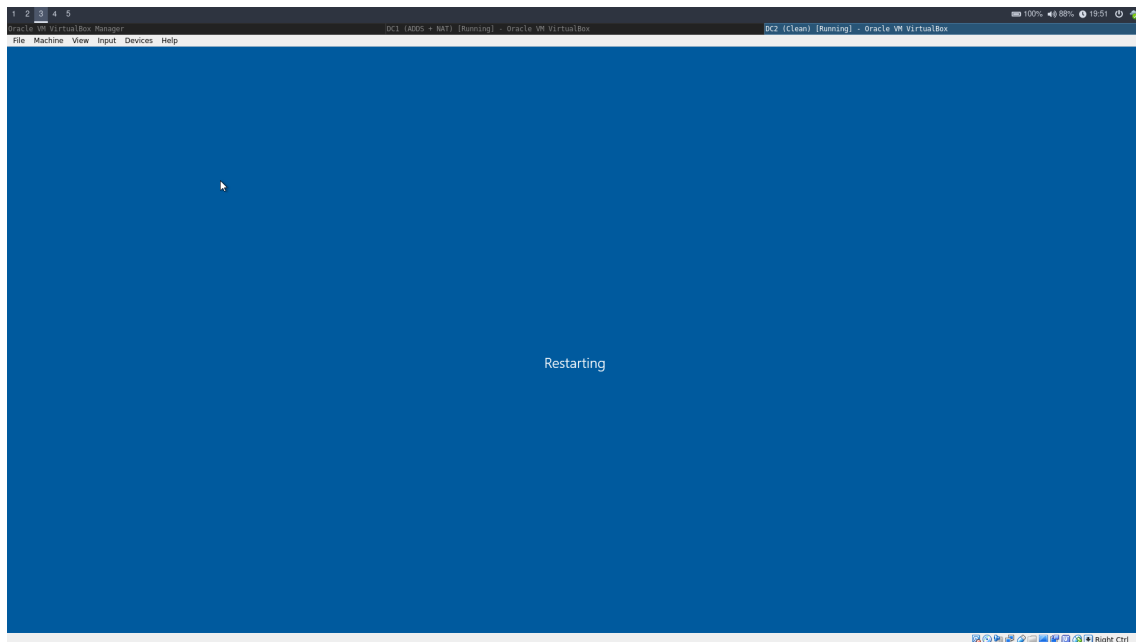
Volg de configuratiewizard verder.



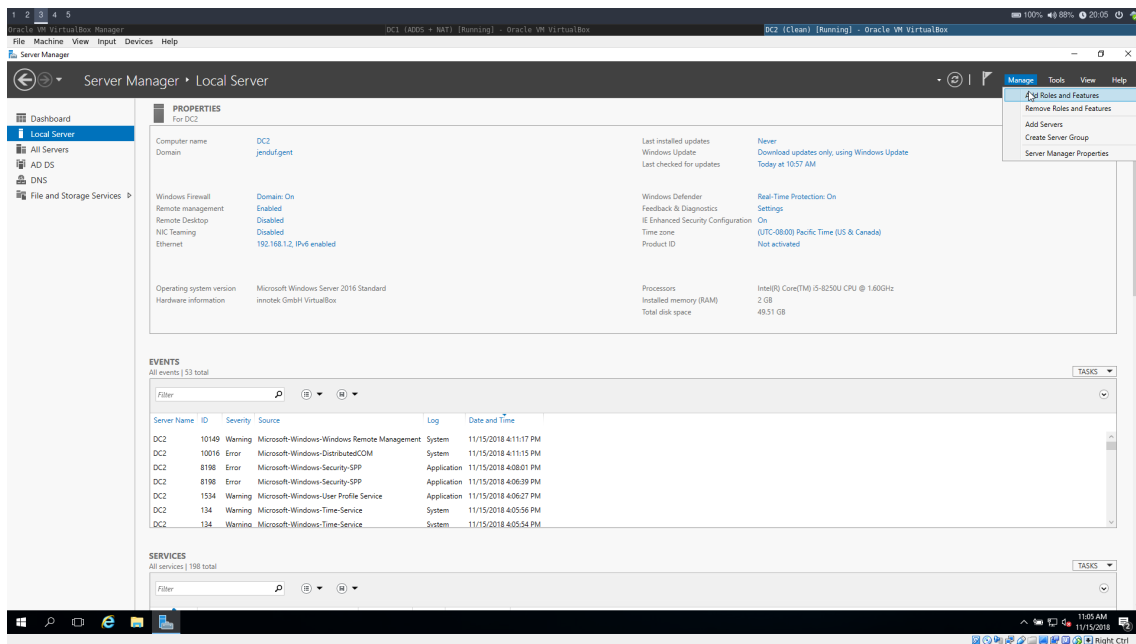
Replicate van "DC1.jenduf.gent"





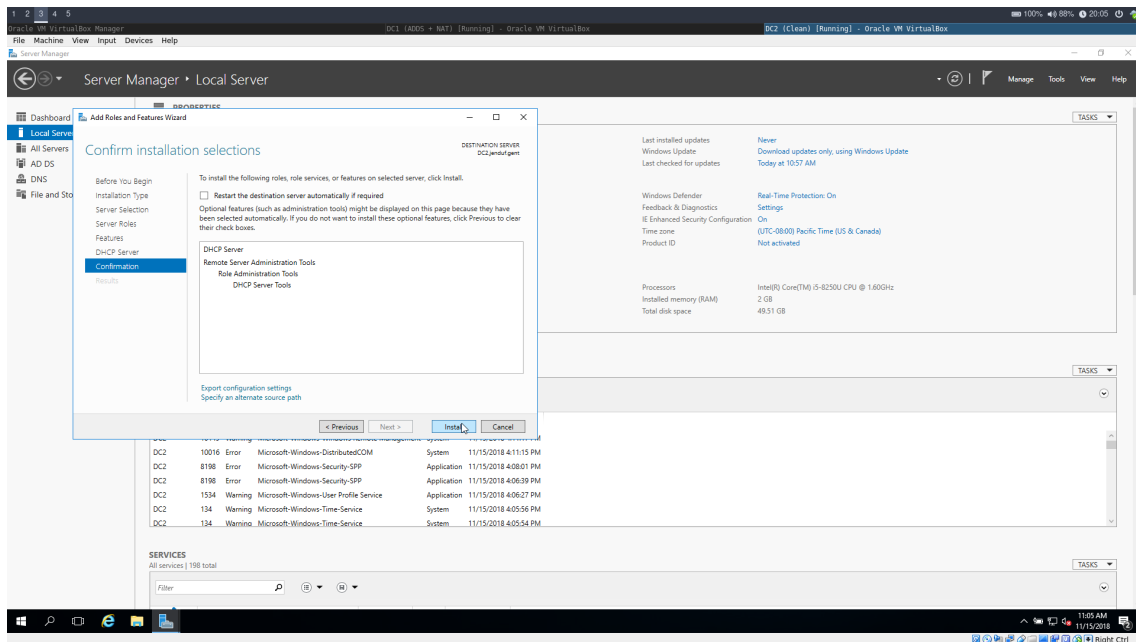


## 5 Configuratie DHCP

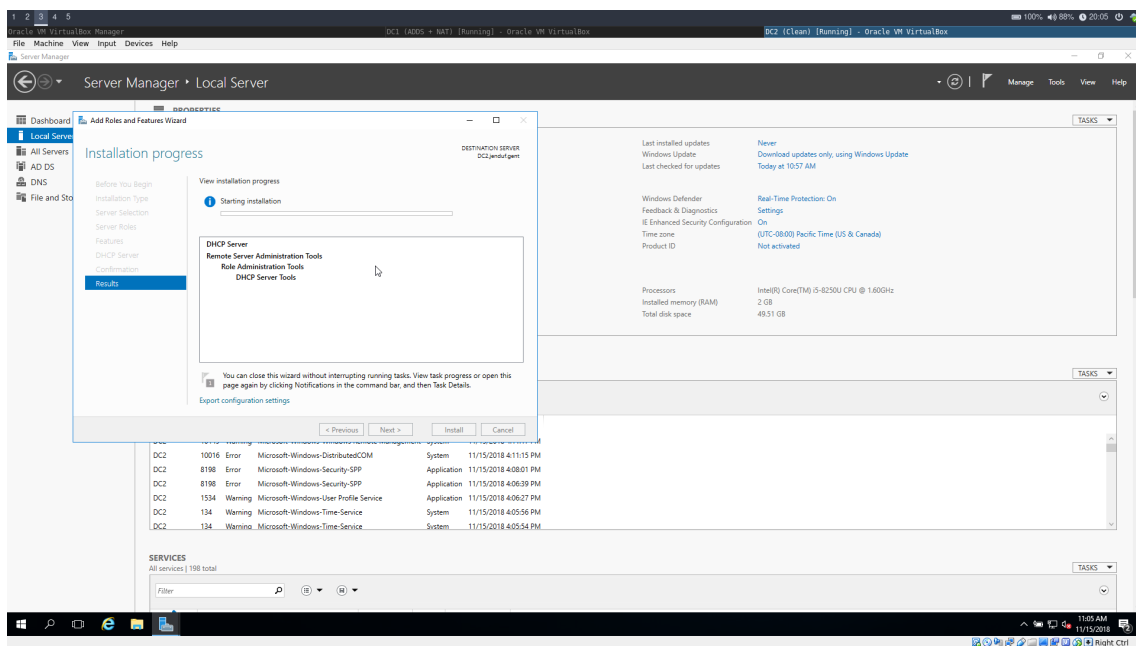


Voeg een nieuwe rol toe aan de server.

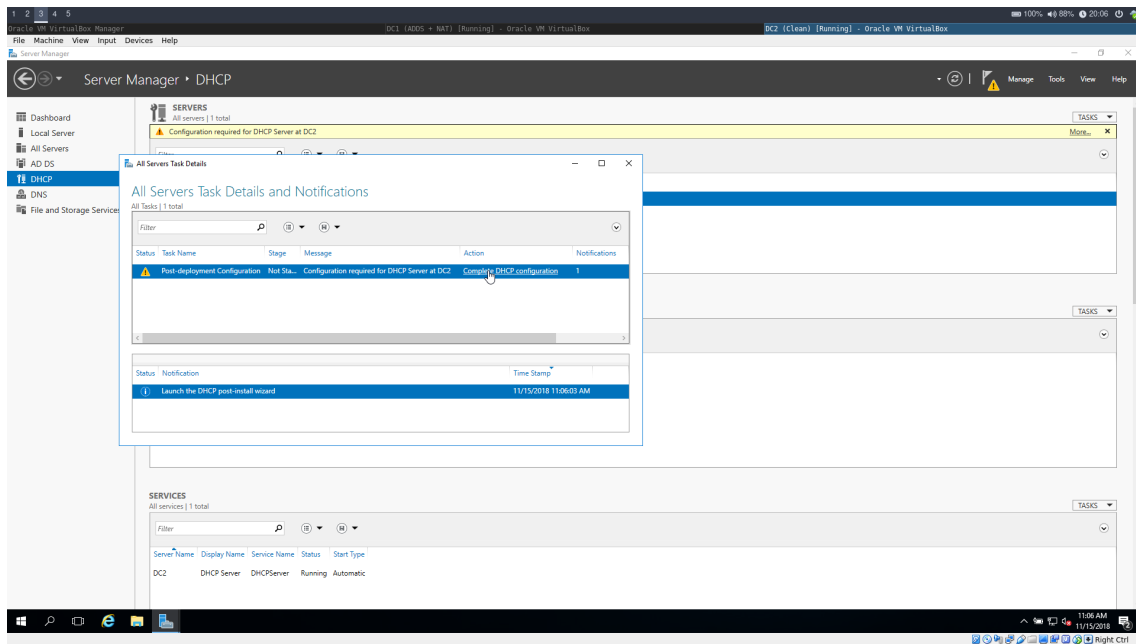




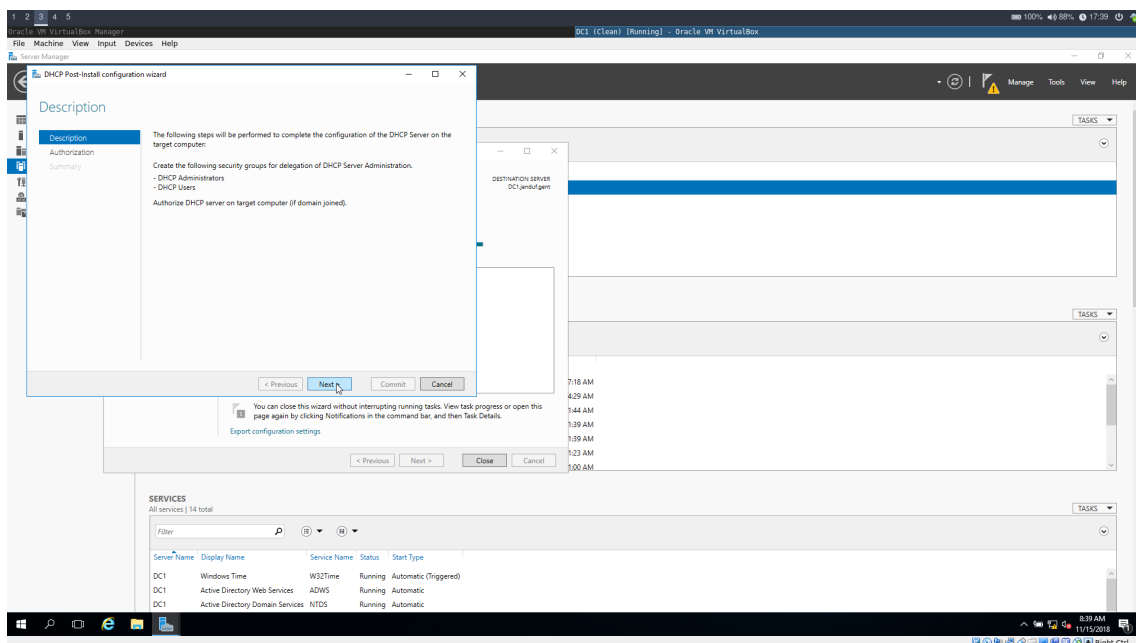
Kies voor de DHCP Server.

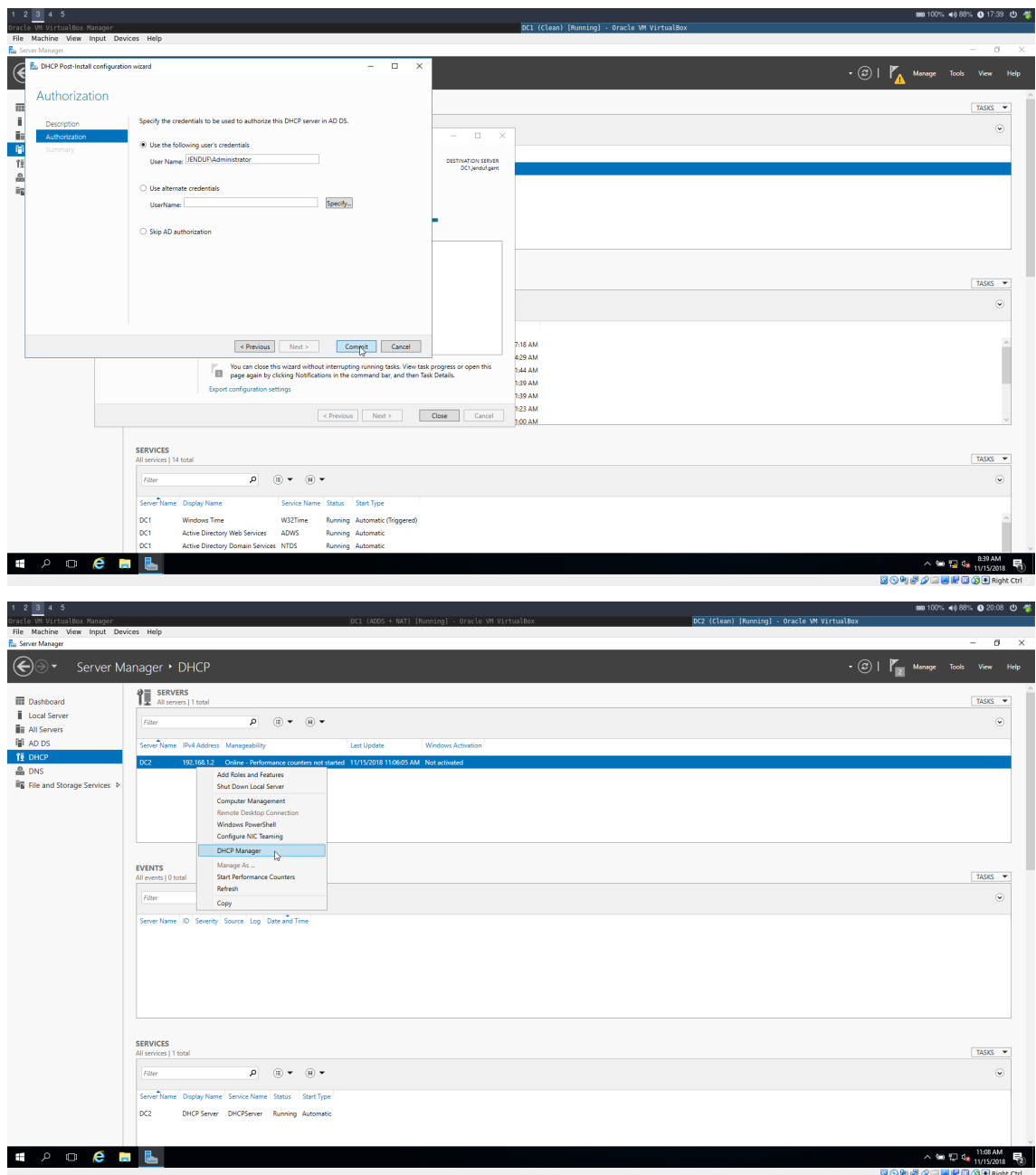


Volg de installatiewizard.

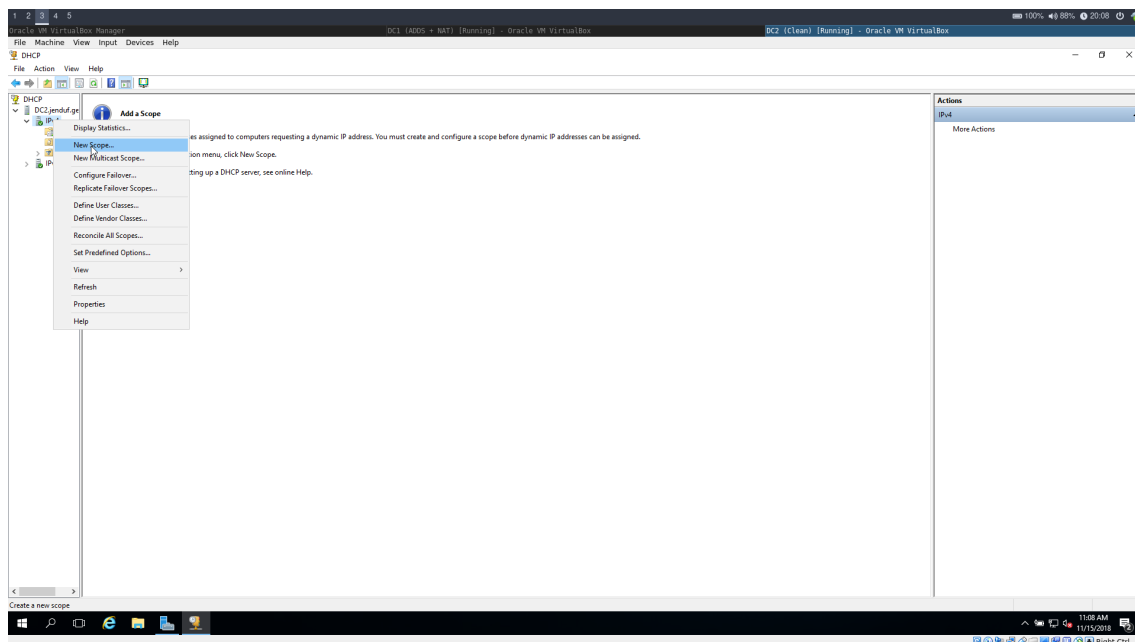


Start de inițiale configuratie.

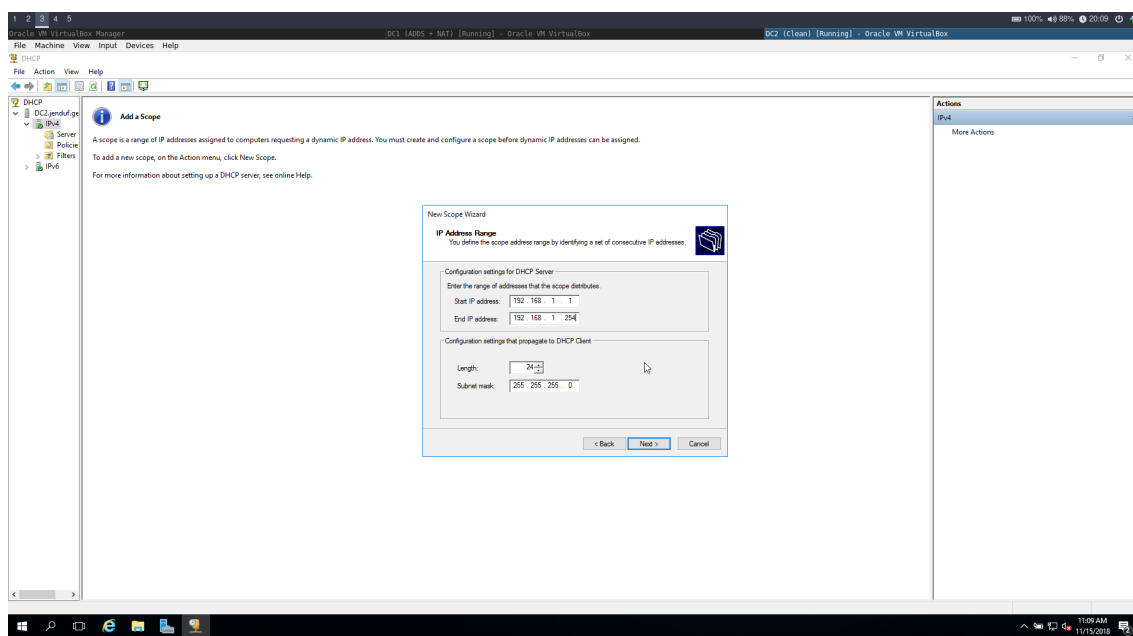




Open de DHCP Manager.

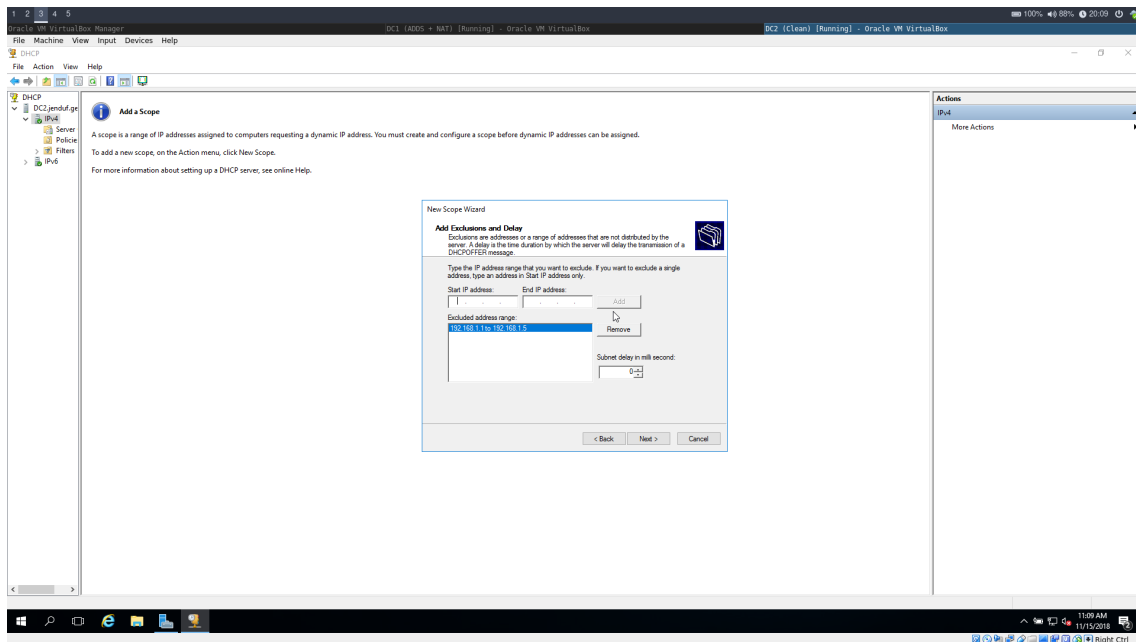


Initialiseer een nieuwe scope op de DHCP Server.

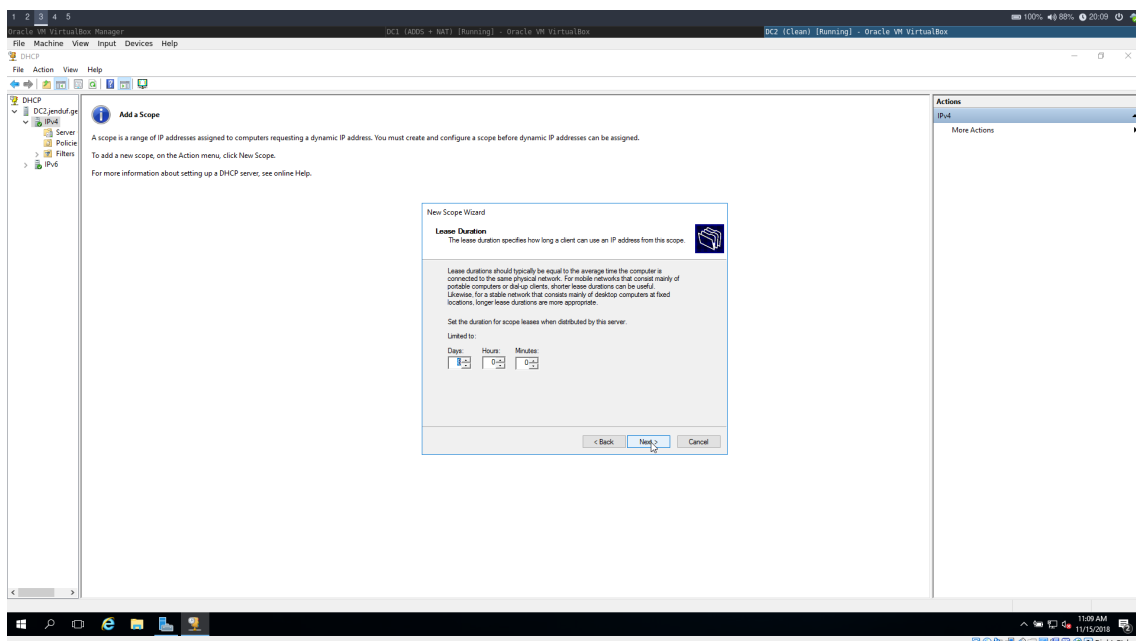


het IP bereik in van de DHCP Server.

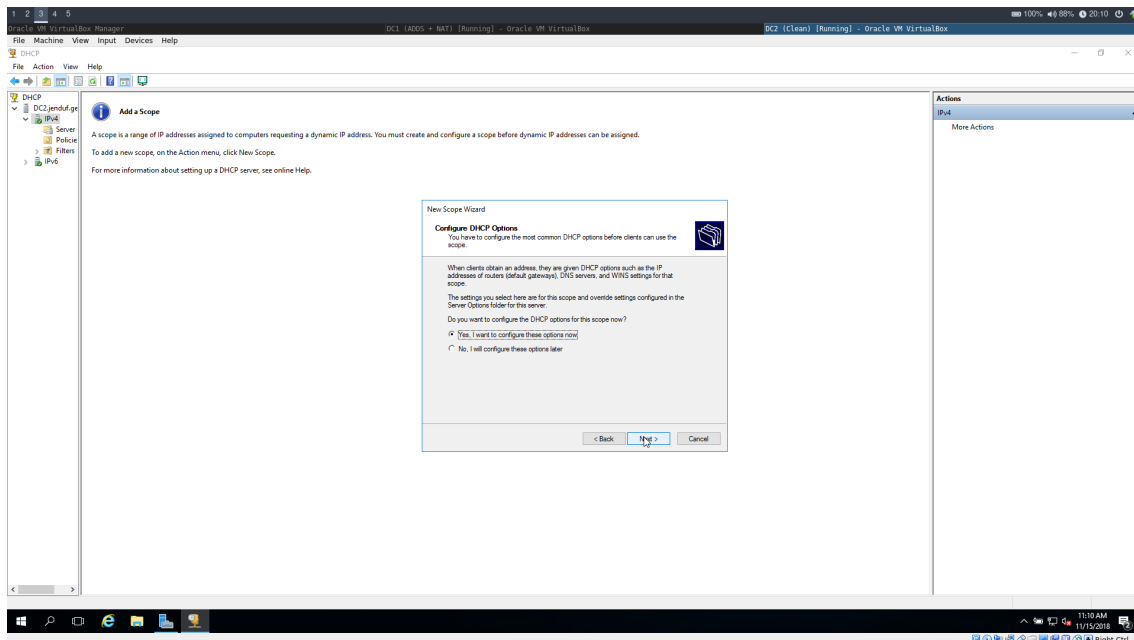
Geef



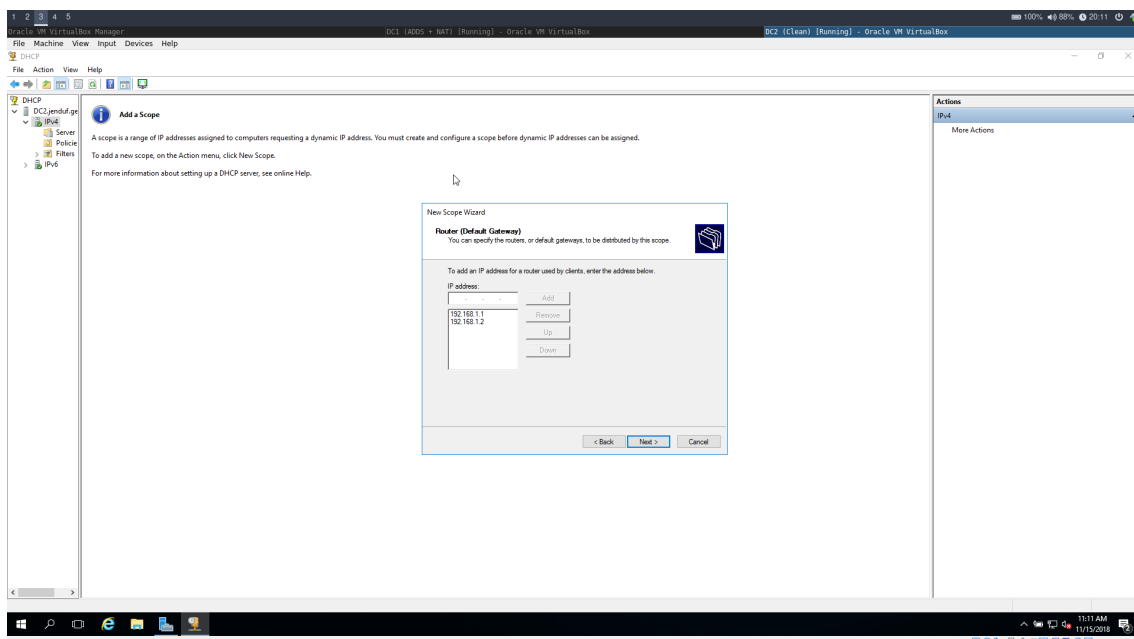
Voeg de IP uitsluitingen uit aan de DHCP Server.



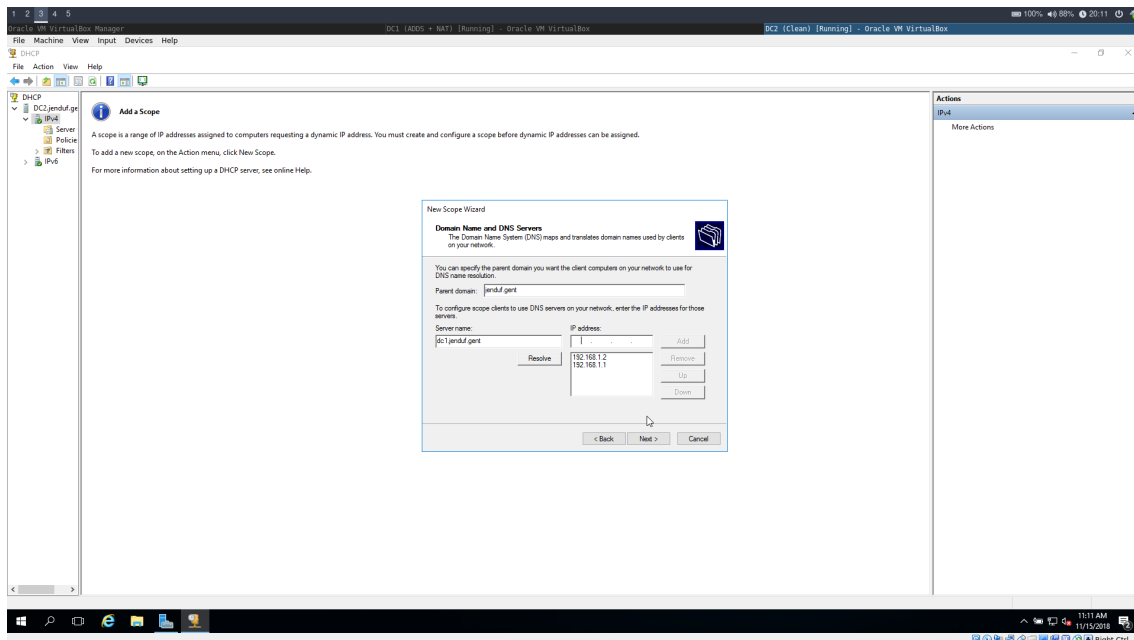
Stel de levensduur in op 8 uur.



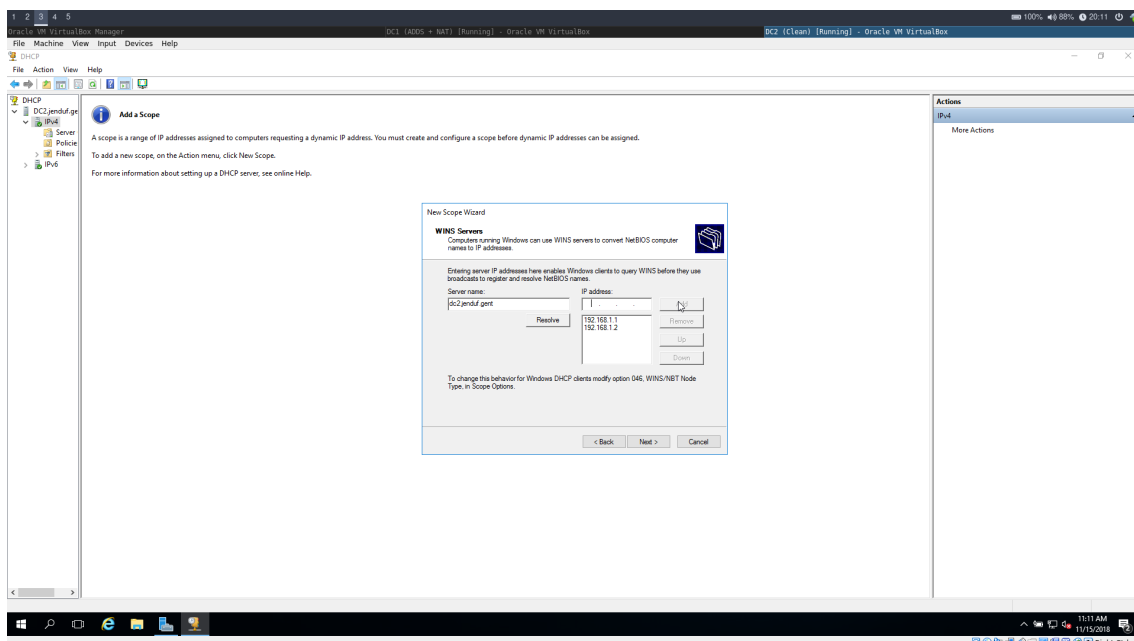
Configureer de opties meteen.



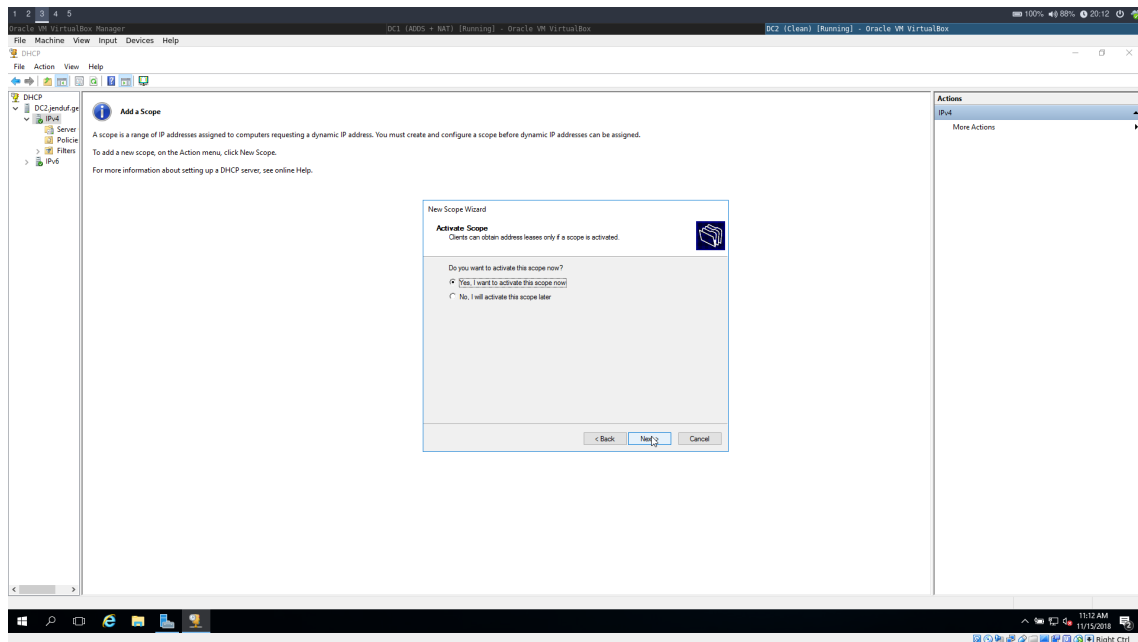
Voeg het IP van DC1 en DC2 toe als Router.



Voeg het IP van DC1 en DC2 toe als DNS.



Voeg het IP van DC1 en DC2 toe als WINS Server.



Activeer de scope onmiddellijk.

## 6 Configuratie DNS

De DNS-service werd automatisch geïnstalleerd met de ADDS.



## 7 Powershell

Script 1:

```
#Activeer PS
Set-ExecutionPolicy Unrestricted
#Declaring variables
$hostname = "DC2"

#Computer naam wijzigen
Rename-Computer -ComputerName $env:COMPUTERNAME -newName $hostname -Force -Restart
```

Script 2:

```
#Declaring variables
$domainname = "jenduf.gent"

#IP-adres en default gateway wijzigen
New-NetIPAddress -InterfaceAlias "Ethernet" -IPAddress 192.168.1.2
-DefaultGateway 192.168.1.1 -PrefixLength 24
Set-DnsClientServerAddress -InterfaceAlias "Ethernet" -ServerAddresses 192.168.1.1, 192.18.1.2

#Firewall uitschakelen
Set-NetFirewallProfile -Profile Domain,Public,Private -Enabled False

#JoinDomain
Write-Host 'Trying to join domain jenduf.gent'
$DomainName = "jenduf.gent"
$SafeModeAdministratorPassword = "Project2018" | ConvertTo-SecureString -AsPlainText -Force
$domain = "jensduf"
$joindomainuser = "Administrator"
$credential = New-Object System.Management.Automation.PSCredential
($joindomainuser,$SafeModeAdministratorPassword)
Add-Computer -DomainName $DomainName -Credential $credential

#DC en DNS installeren en domeinnaam instellen
Install-WindowsFeature AD-Domain-Services -IncludeManagementTools
Install-ADDSDomainController -DomainName $domainname -SafeModeAdministratorPassword:
(ConvertTo-SecureString -String "Admin2018" -AsPlainText -Force) -Force

#Server opnieuw opstarten
Restart-computer
```