

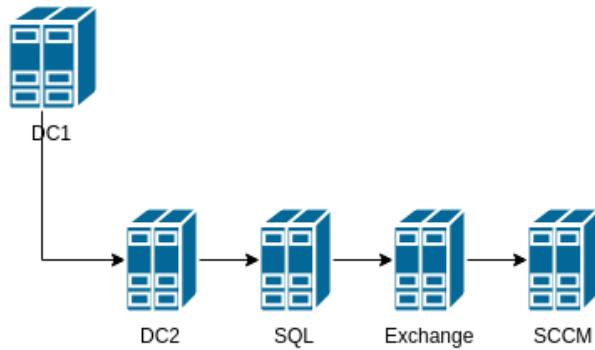
Windows Server: Exchange Server

Jens Du Four

2018 - 2019

1 Introductie

U bent IT-Consultant en krijgt de vraag om een voorstel te maken en te demonstreren van een Windowsomgeving. 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

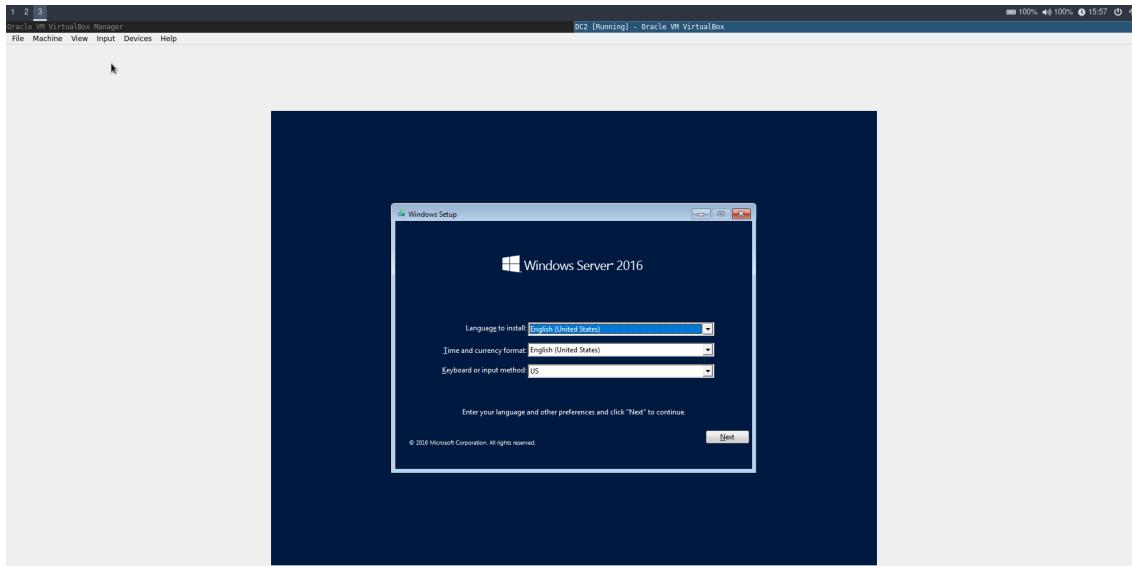
4. Exchange Server

- (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

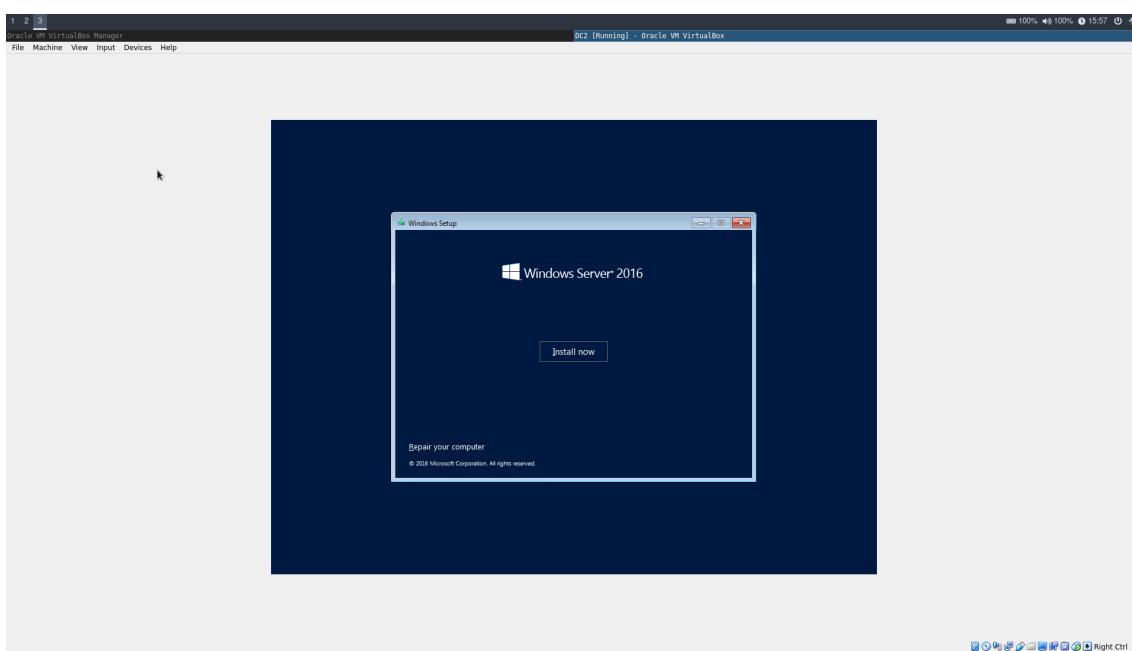
5. SCCM Server

- (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

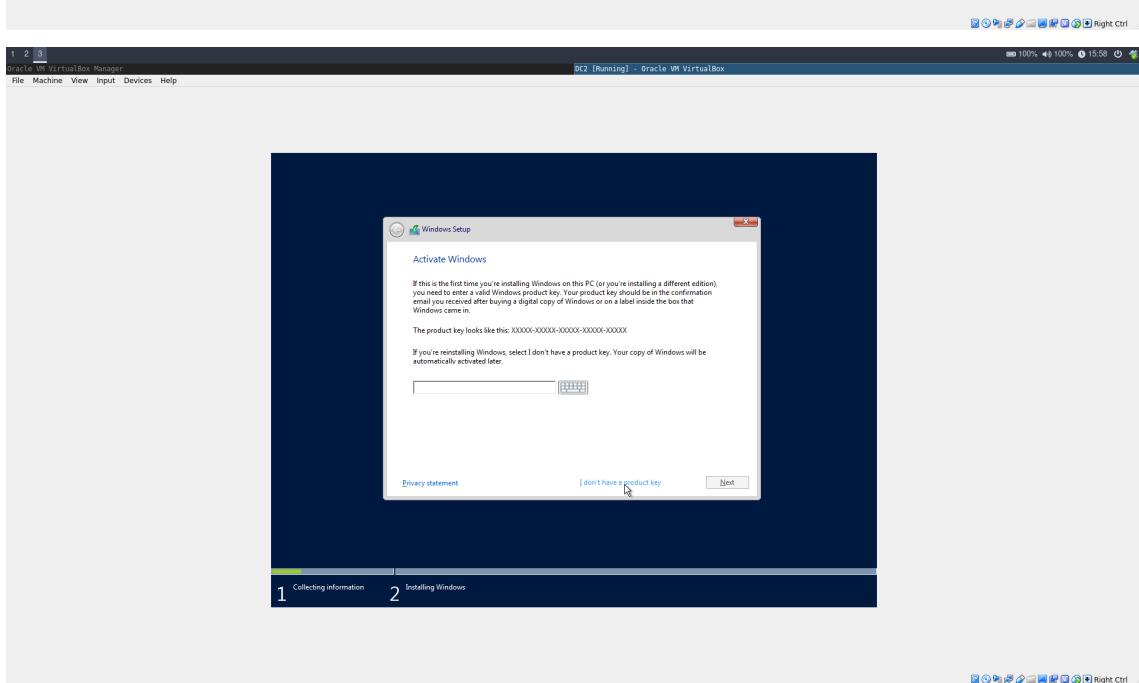
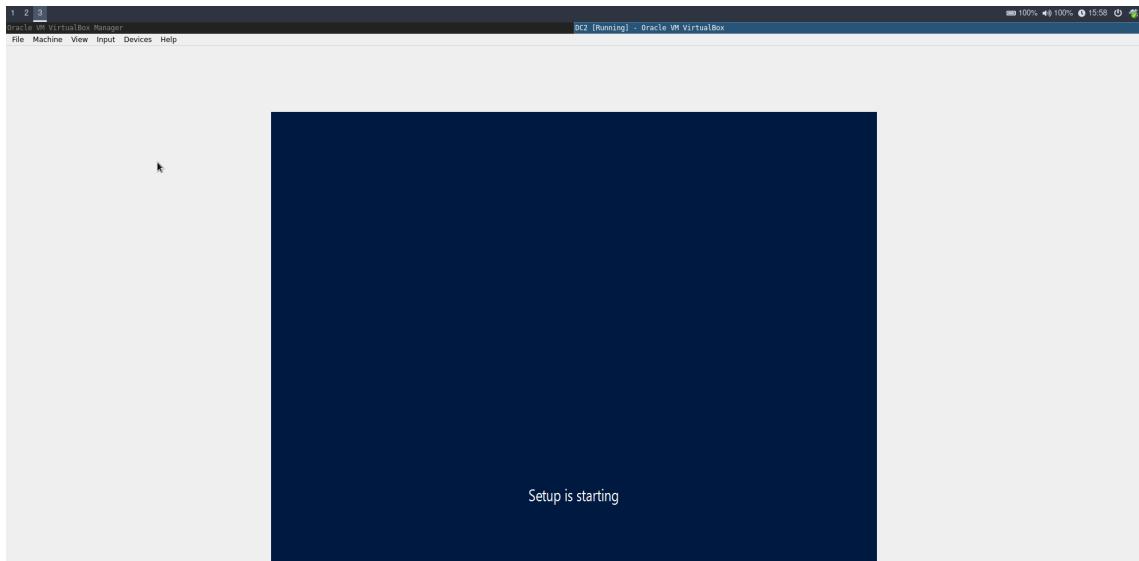
3 Windows Server Installatie



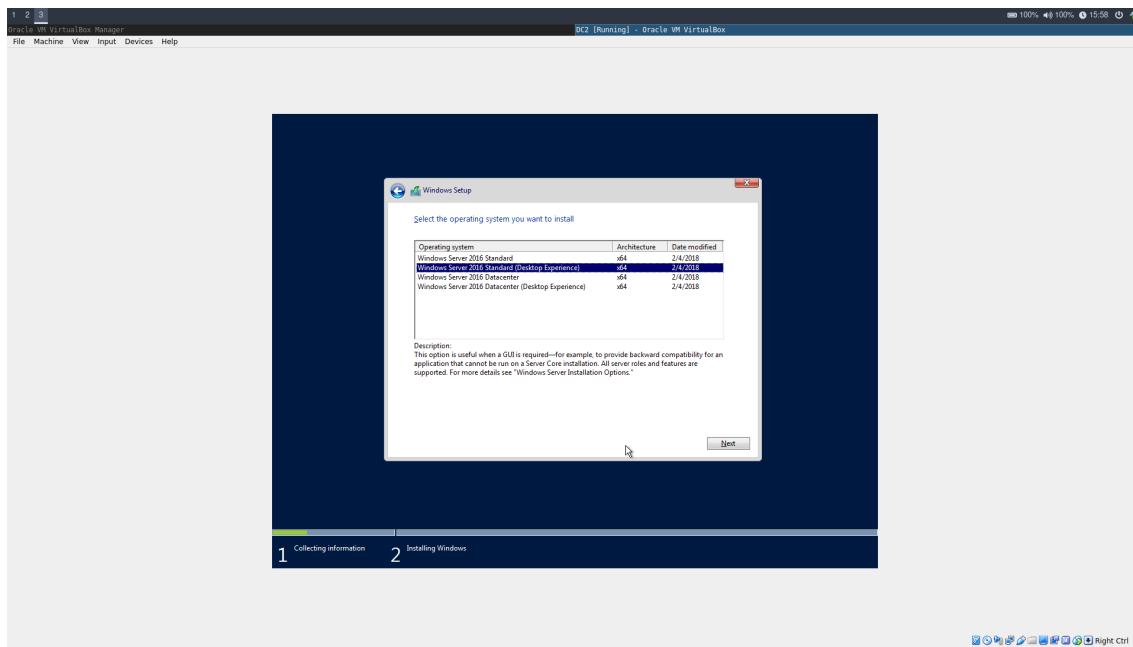
Selecteer de gewenste taalinstellingen.



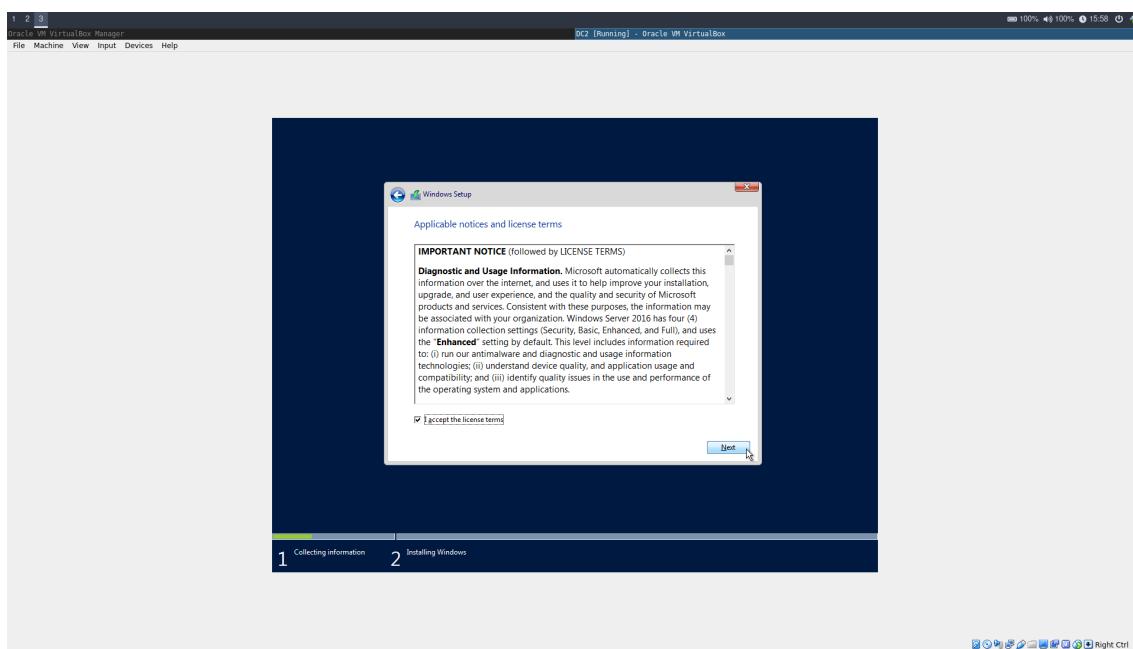
Start de installatie.



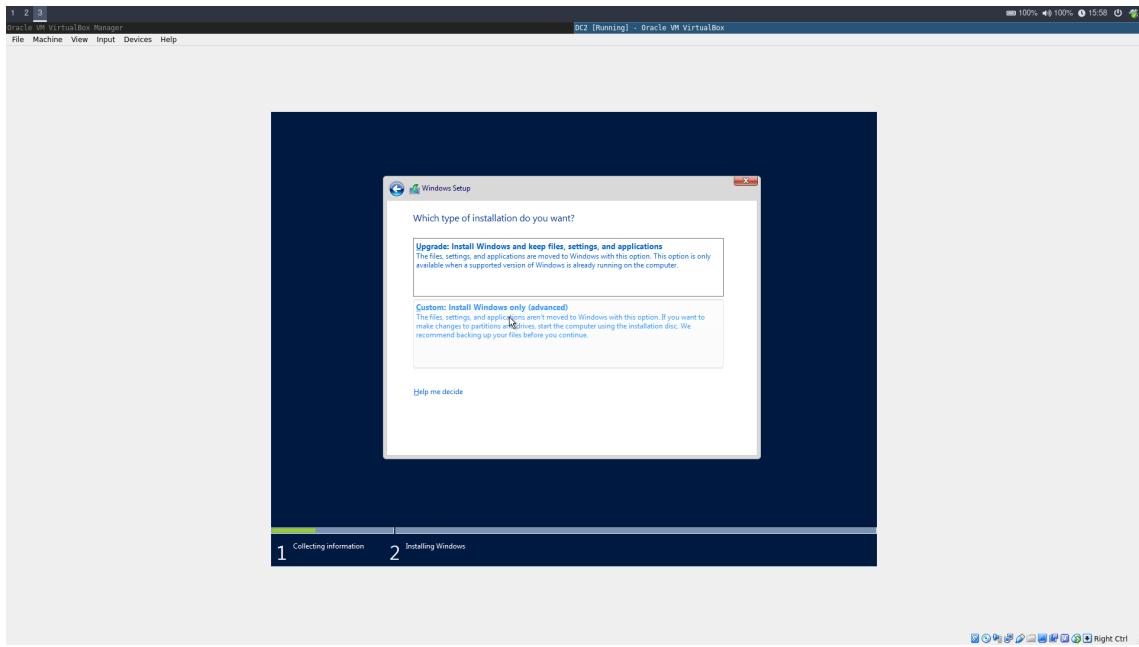
Selecteer "I don't have a product key".



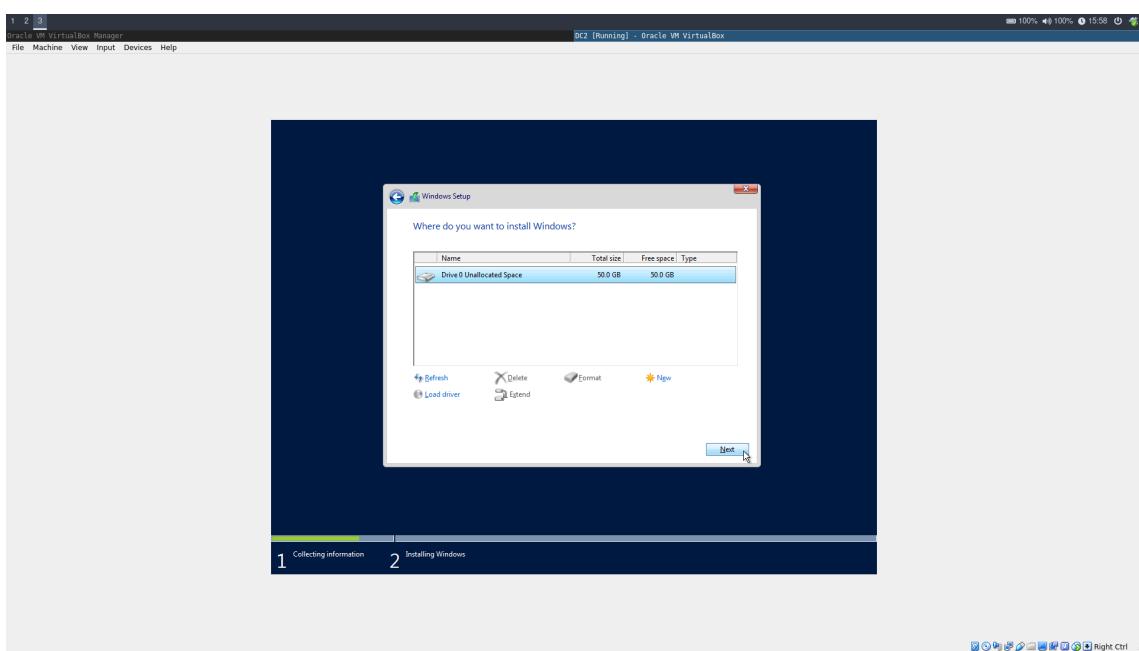
Selecteer "Windows Server 2016 Standard (Desktop Experience)".



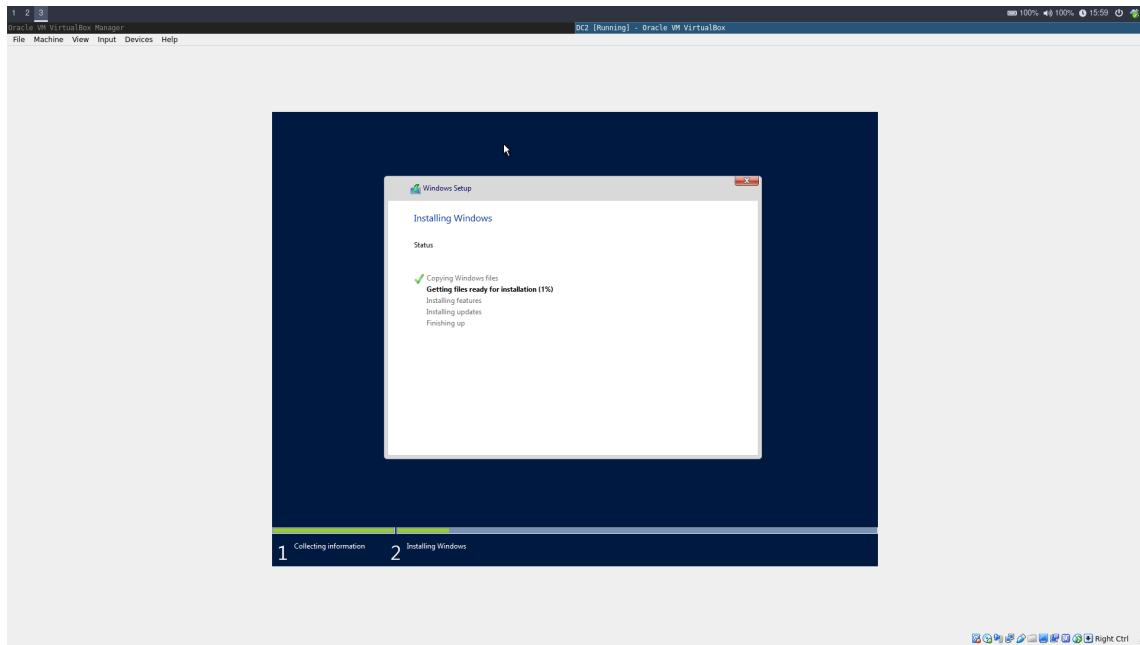
Ga akkoord met de gebruiksvoorwaarden.



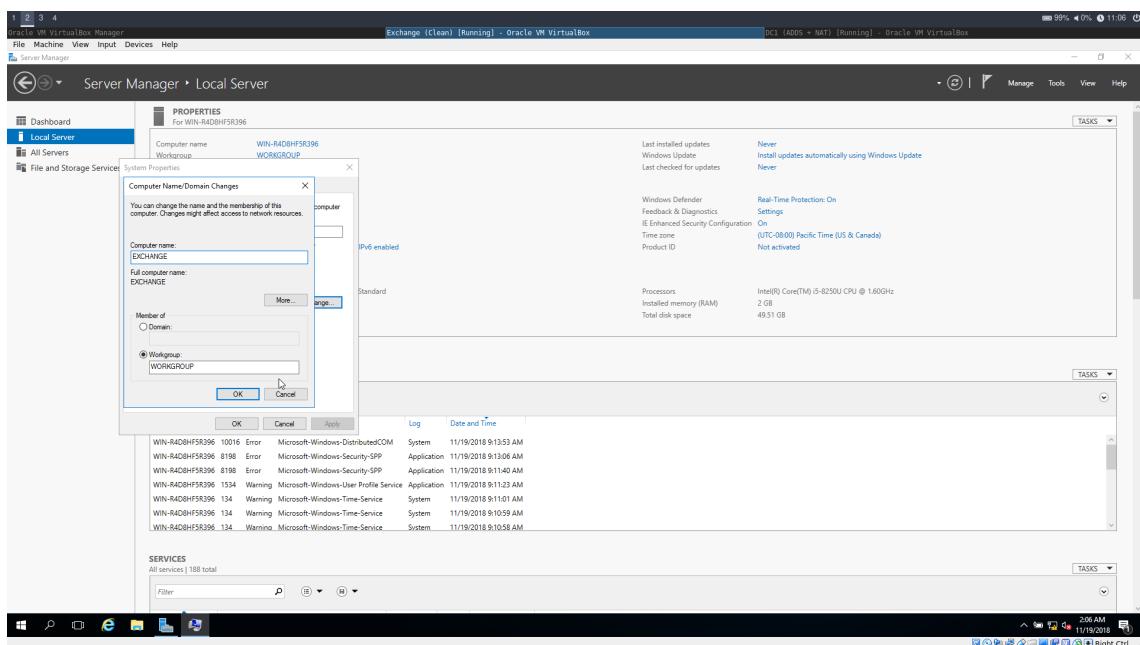
Selecteer "Costum: Install Windows only (Advanced)".



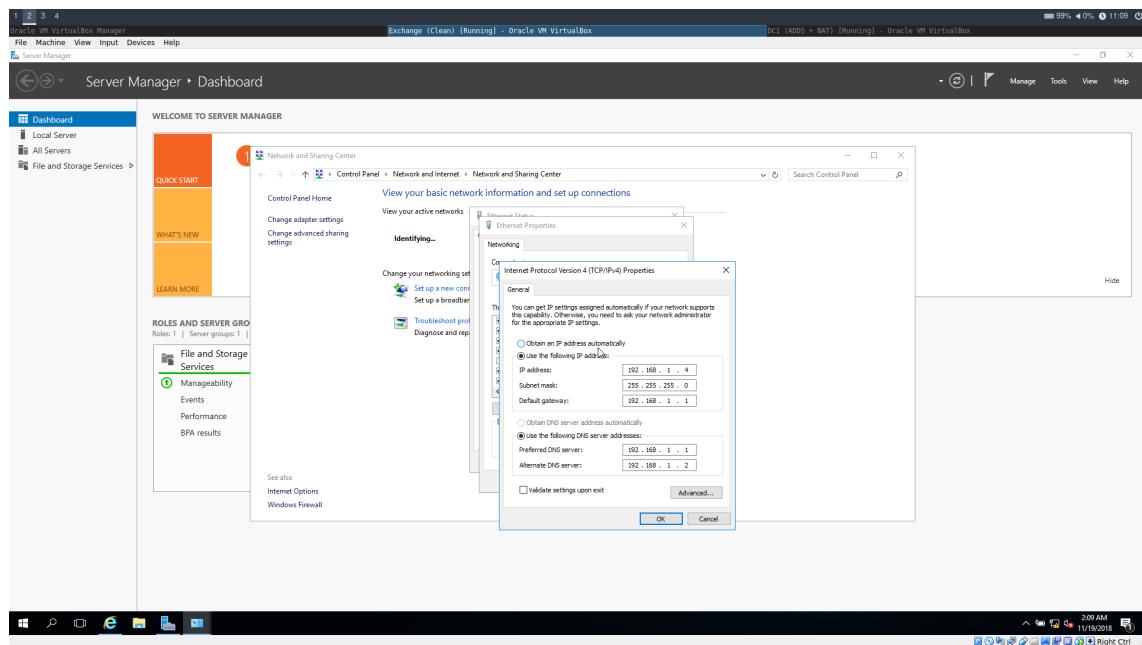
Ga verder.



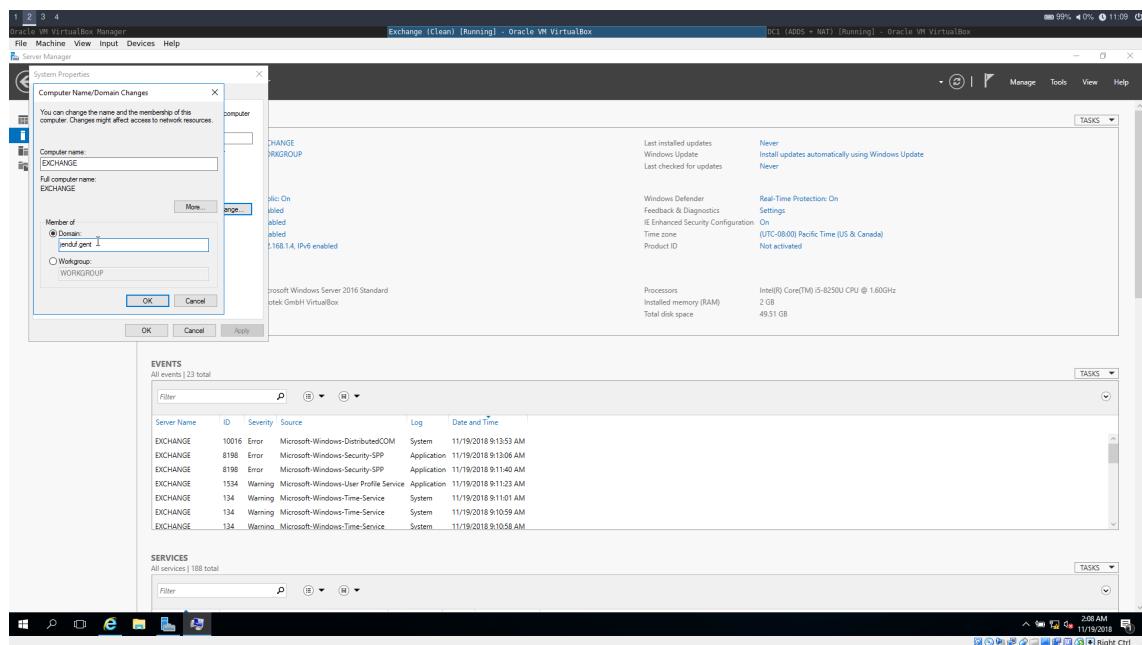
3.1 Server Hernoemen



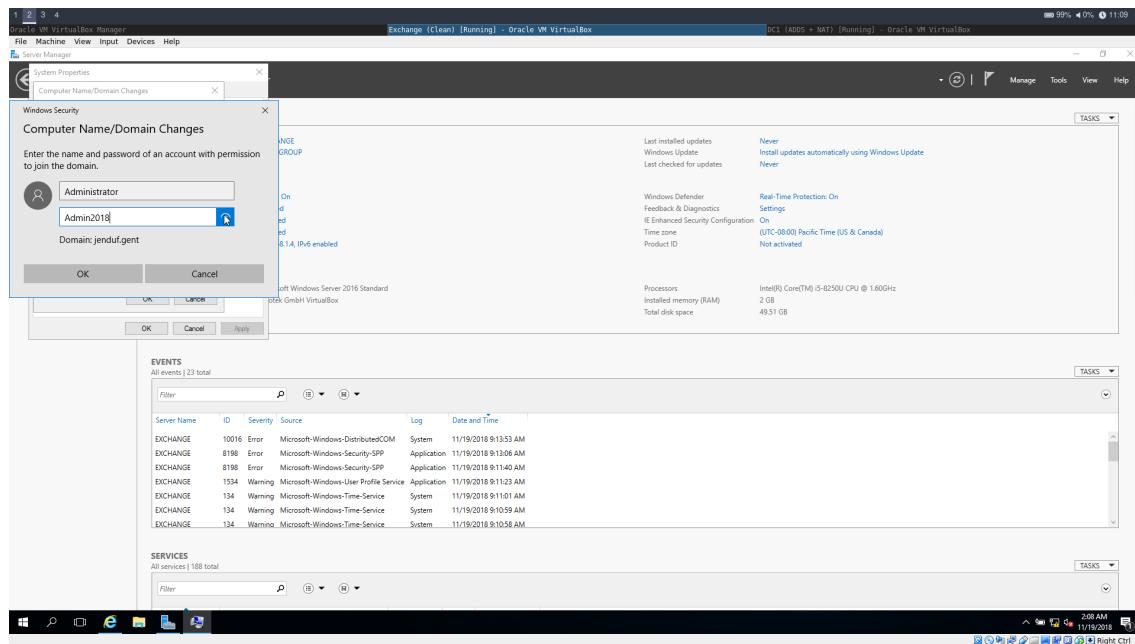
3.2 IP Instellingen



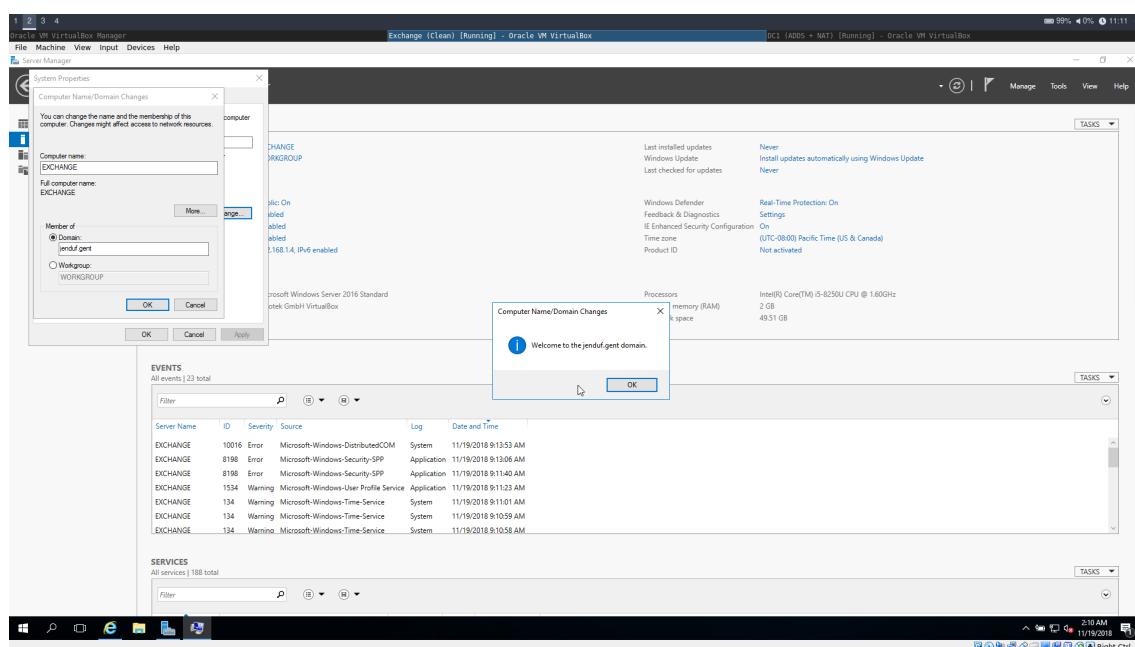
3.3 Toevoegen aan het domein



Geef als domein jenduf.gent in.



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



De connectie is geslaagd bij het weergeven van volgende boodschap.

4 Installatie Exchange Server

4.1 Aanmaken Exchange-user op DC1

The screenshot shows the Windows Server 2012 R2 Server Manager interface. The left navigation pane is expanded to show 'All Servers' under 'AD DS'. In the center pane, the 'Active Directory Users and Computers' section is selected. A sub-menu for 'Active Directory Users and Computers' is open, listing various management tools. The main pane displays a list of users in the 'Users' container, including 'Administrator', 'Guest', and 'Invited'. The bottom pane shows the 'SERVICES' list, which includes services like 'Wired AutoConfig', 'Contact Data_Belie1', and 'Telephony'. The taskbar at the bottom indicates the system is running on 'DC1 (Clean) [Running] - Oracle VM VirtualBox'.

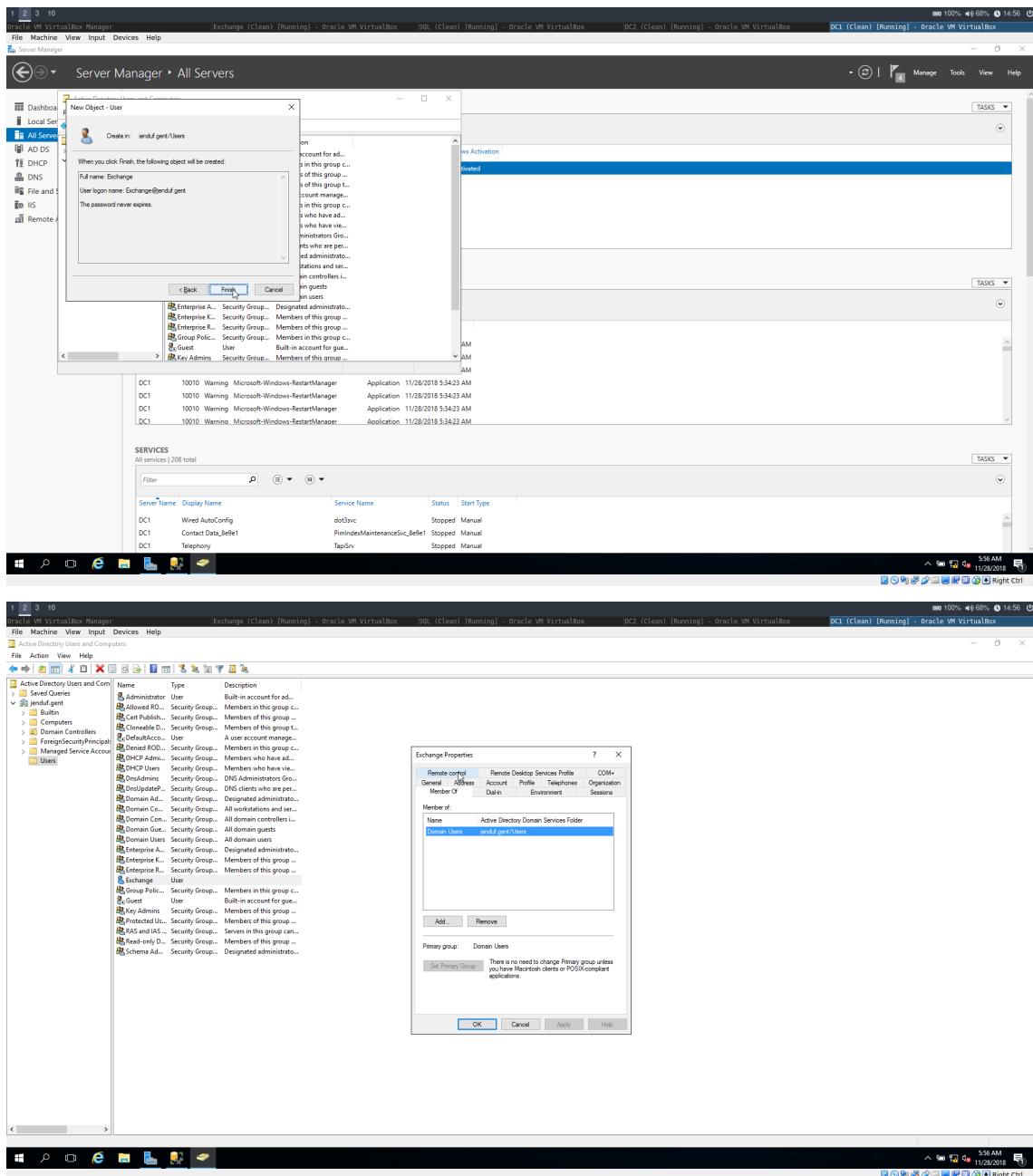
The image displays two screenshots of a Windows Server 2012 R2 interface, showing the creation of a new user account and the Services window.

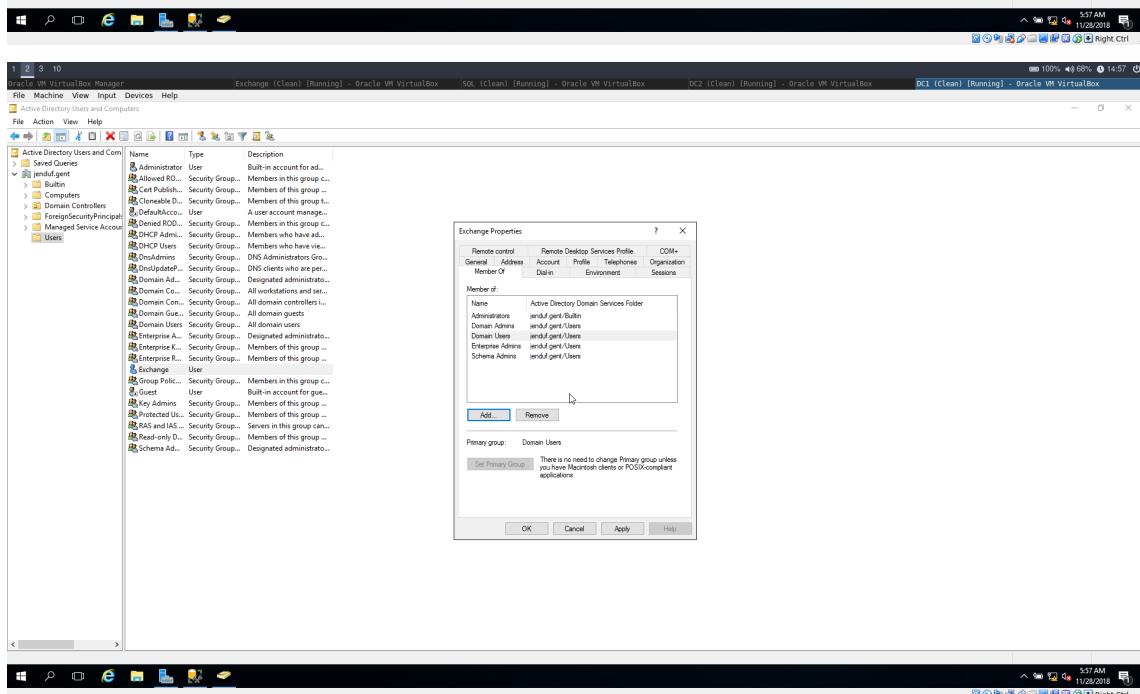
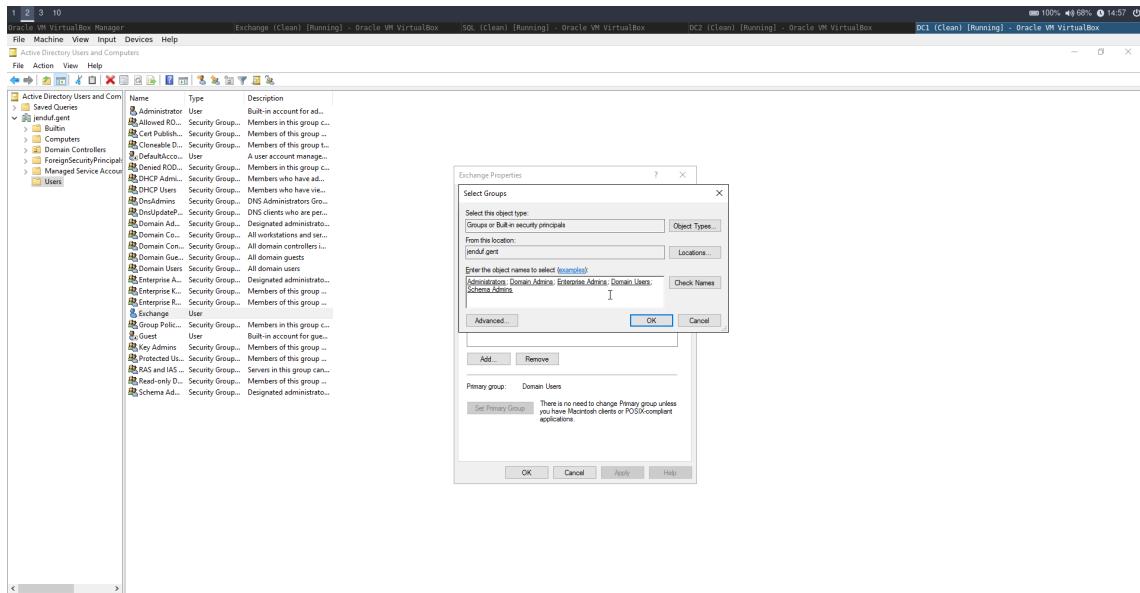
Screenshot 1 (Top):

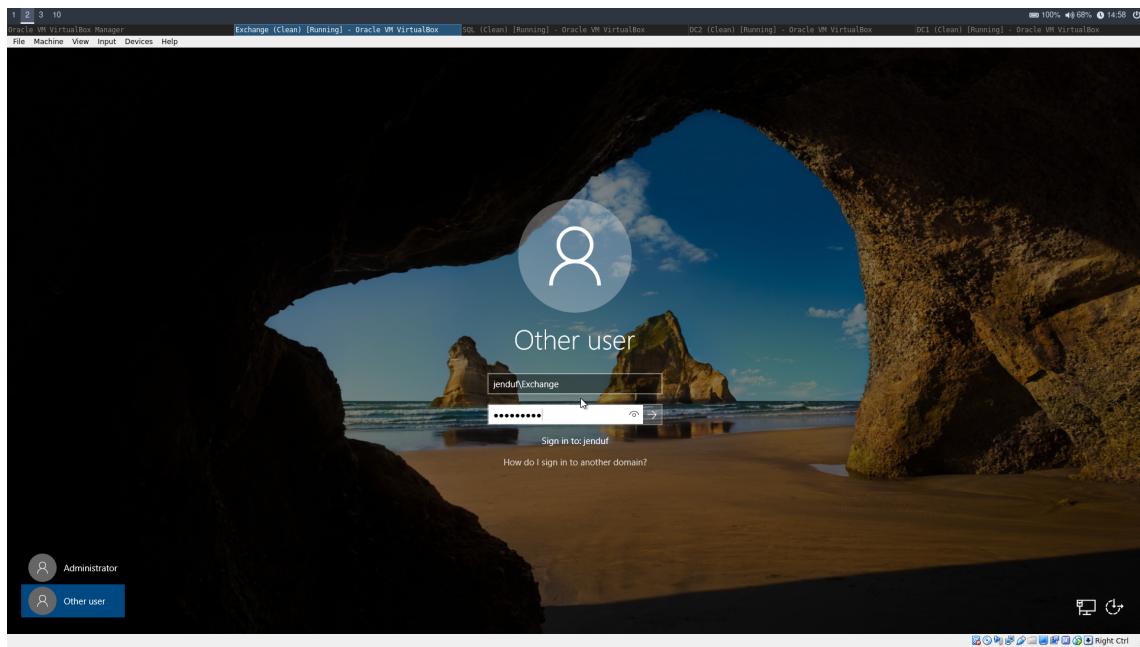
- User Creation:** A "New Object - User" dialog box is open. The "First name" field contains "Exchange" and the "Last name" field contains "Exchange". The "User logon name" dropdown shows "Exchange" and "JENDEUF". The "User logon name [pre-Windows 2000]" dropdown also shows "Exchange". Below the fields are several checkboxes for security options, with "Password never expires" and "Account is disabled" checked.
- Services Window:** The "SERVICES" window shows four services: DC1, 10010 Warning Microsoft-Windows-RestartManager Application 11/28/2018 5:34:23 AM; DC1, 10010 Warning Microsoft-Windows-RestartManager Application 11/28/2018 5:34:23 AM; DC1, 10010 Warning Microsoft-Windows-RestartManager Application 11/28/2018 5:34:23 AM; DC1, 10010 Warning Microsoft-Windows-RestartManager Application 11/28/2018 5:34:23 AM.

Screenshot 2 (Bottom):

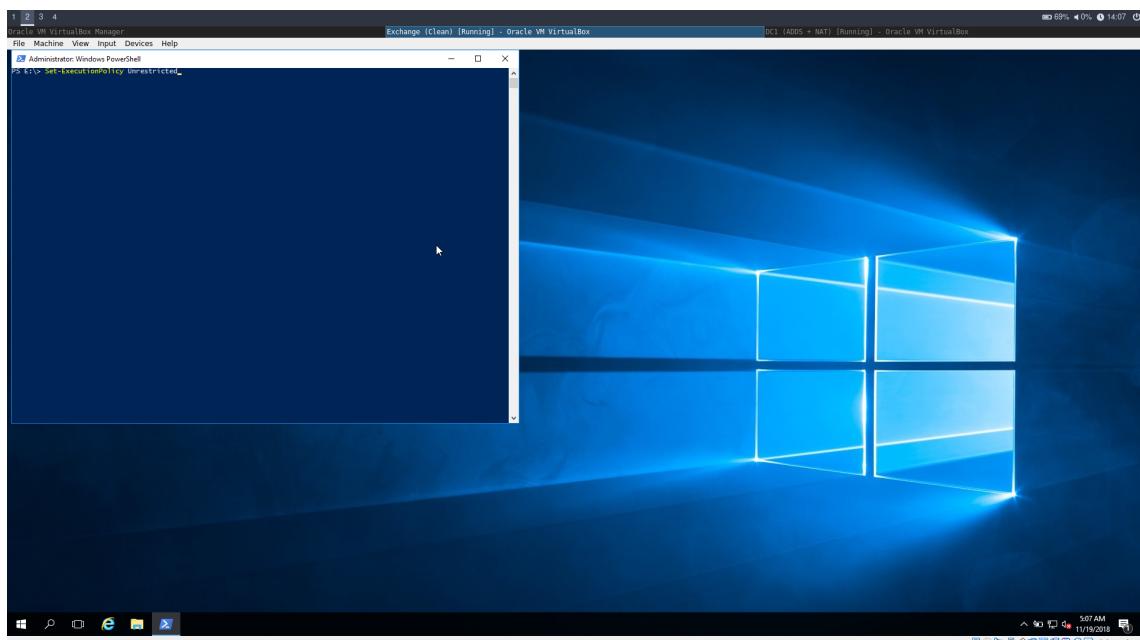
- User Creation:** The same "New Object - User" dialog box is shown, but the "Password" and "Confirm password" fields now contain "*****". The checkboxes for security options remain the same.
- Services Window:** The "SERVICES" window shows the same four services: DC1, 10010 Warning Microsoft-Windows-RestartManager Application 11/28/2018 5:34:23 AM; DC1, 10010 Warning Microsoft-Windows-RestartManager Application 11/28/2018 5:34:23 AM; DC1, 10010 Warning Microsoft-Windows-RestartManager Application 11/28/2018 5:34:23 AM; DC1, 10010 Warning Microsoft-Windows-RestartManager Application 11/28/2018 5:34:23 AM.



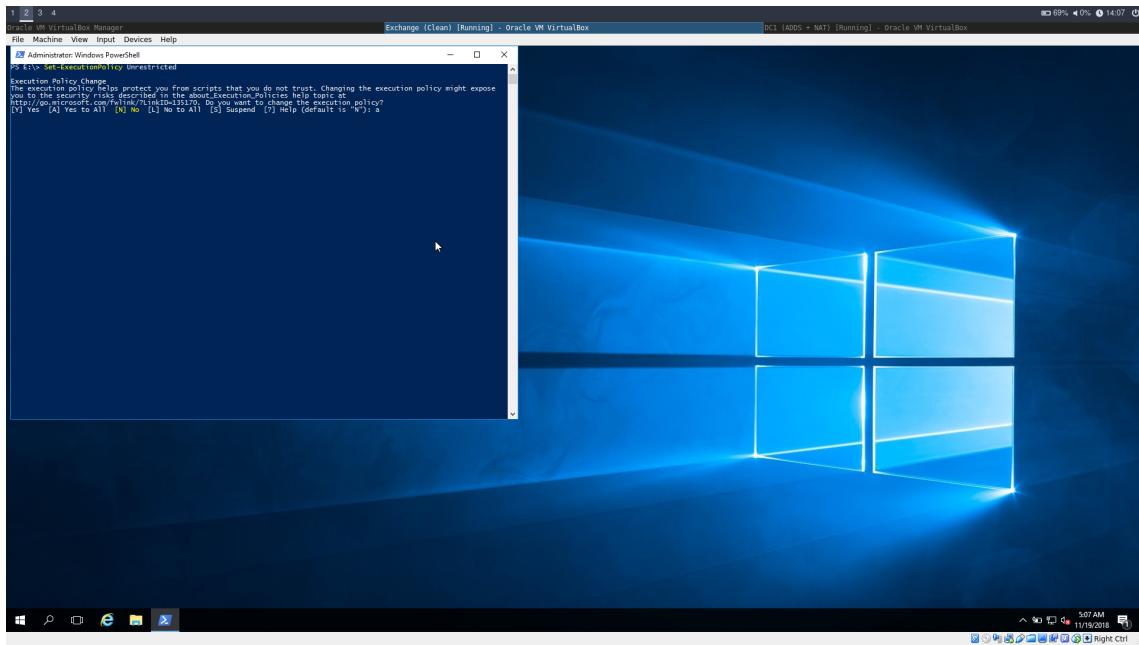




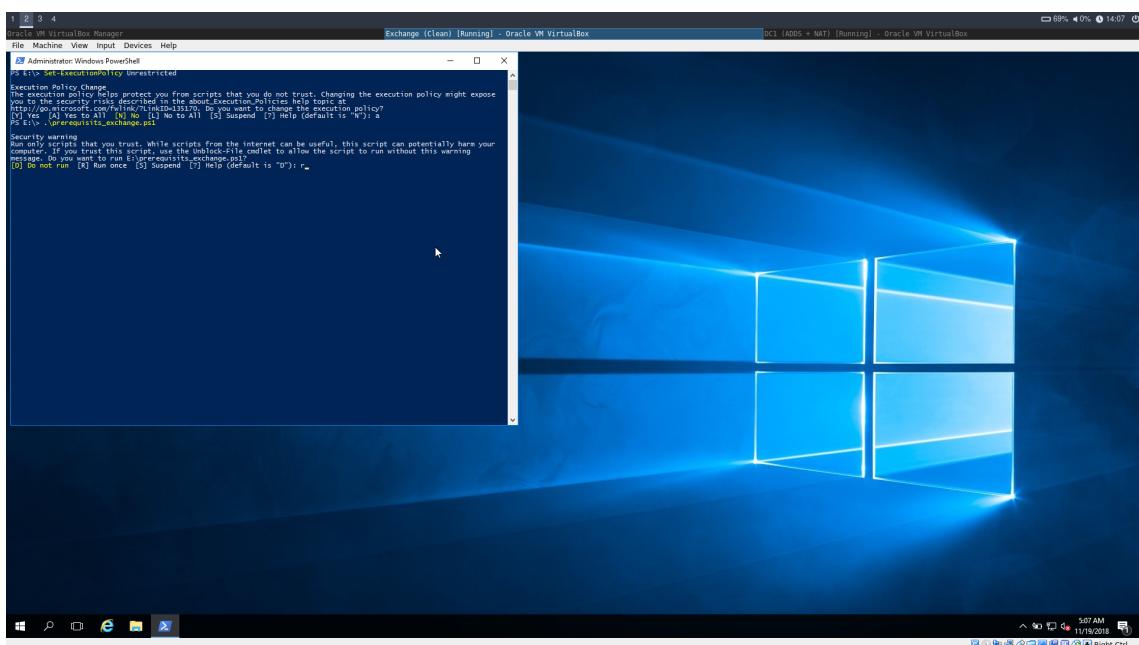
4.2 Prerequisites



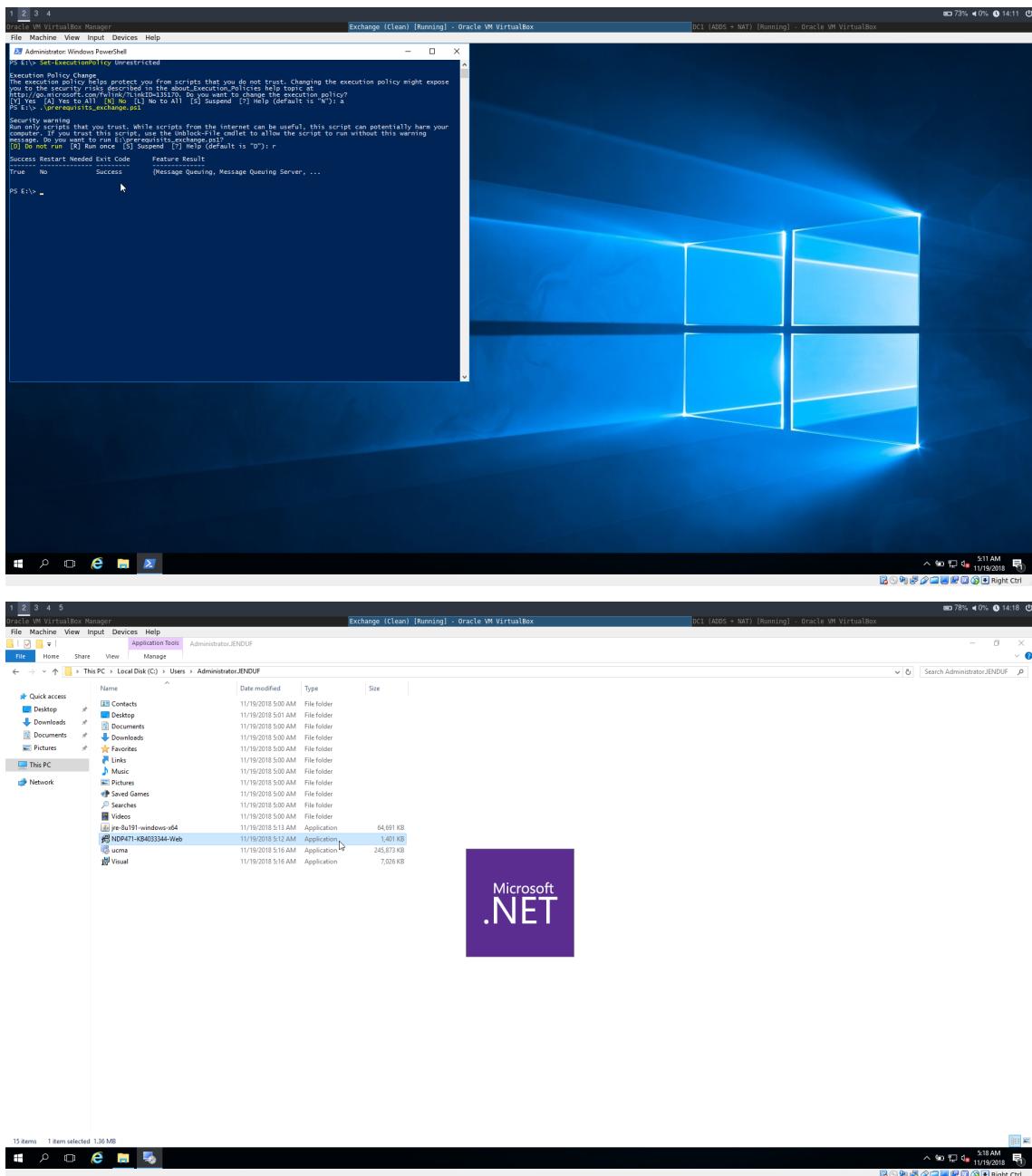
Stel het "ExecutionPolicy" op "Unrestricted".

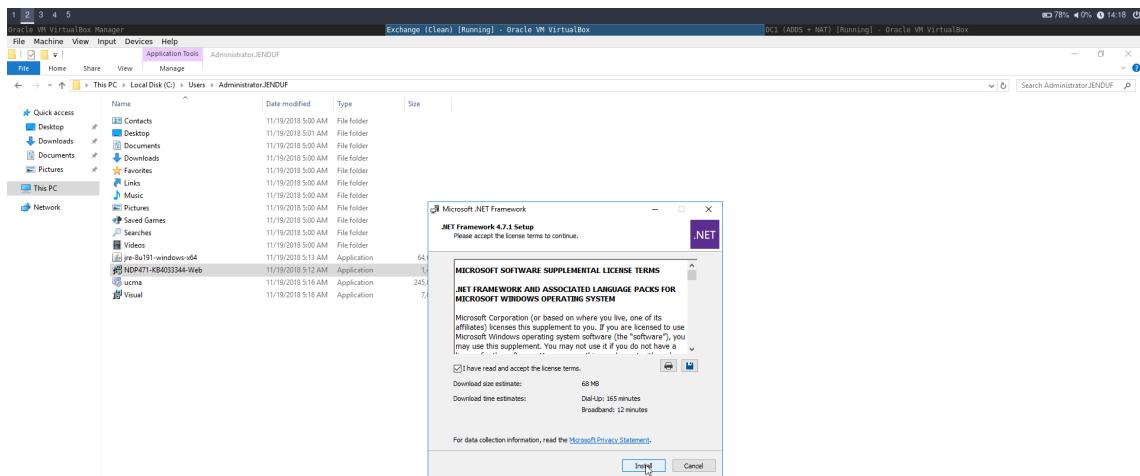


Selecteer "Yes to All".

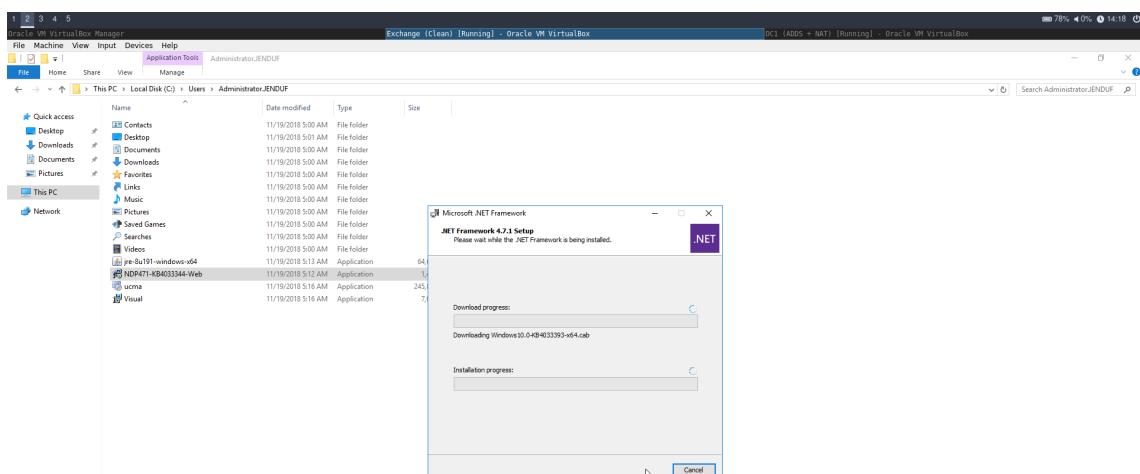


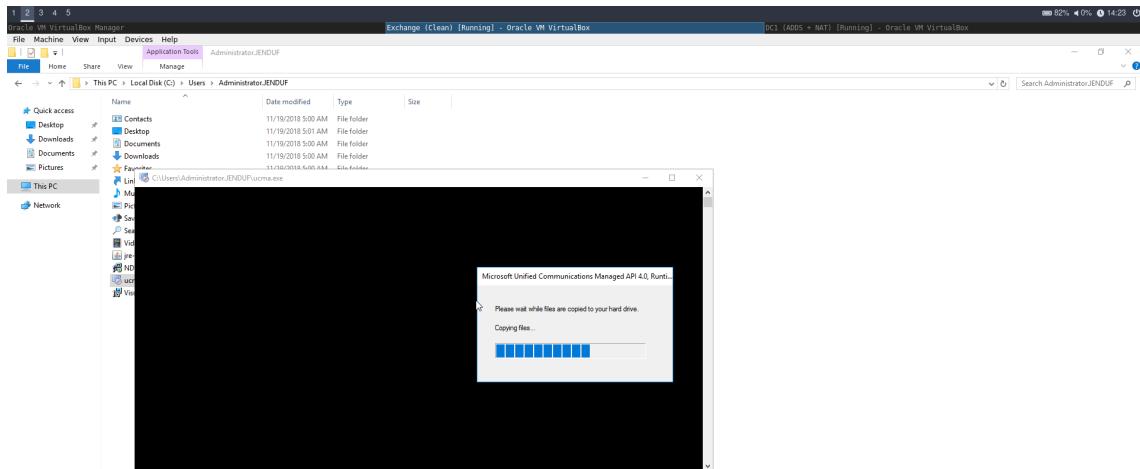
Voer het script uit en selecteer "Run once".



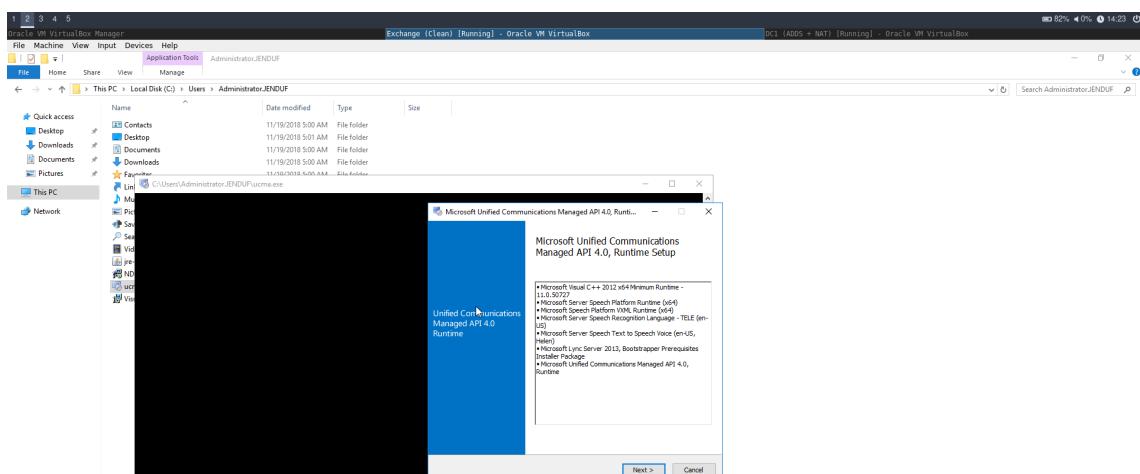


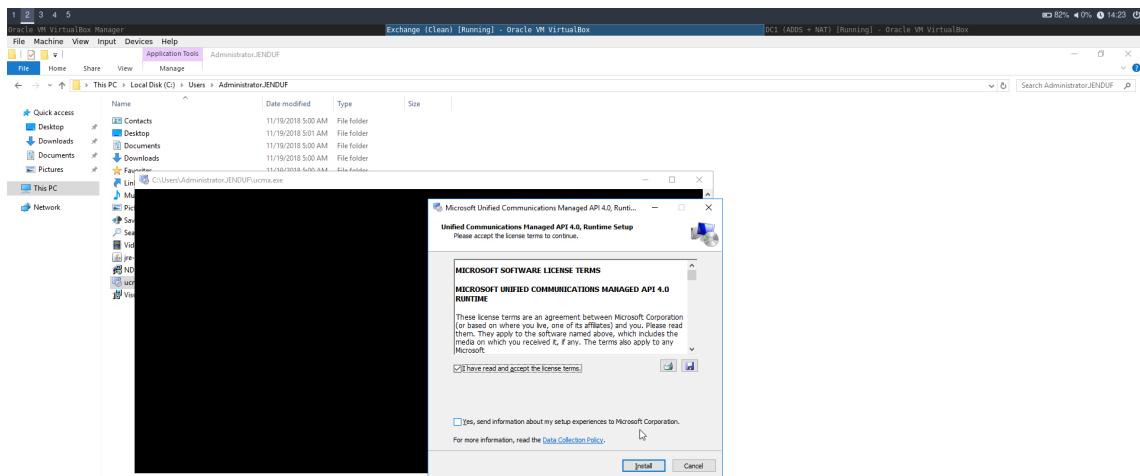
Ga akkoord met de voorwaarden en druk op "Install".



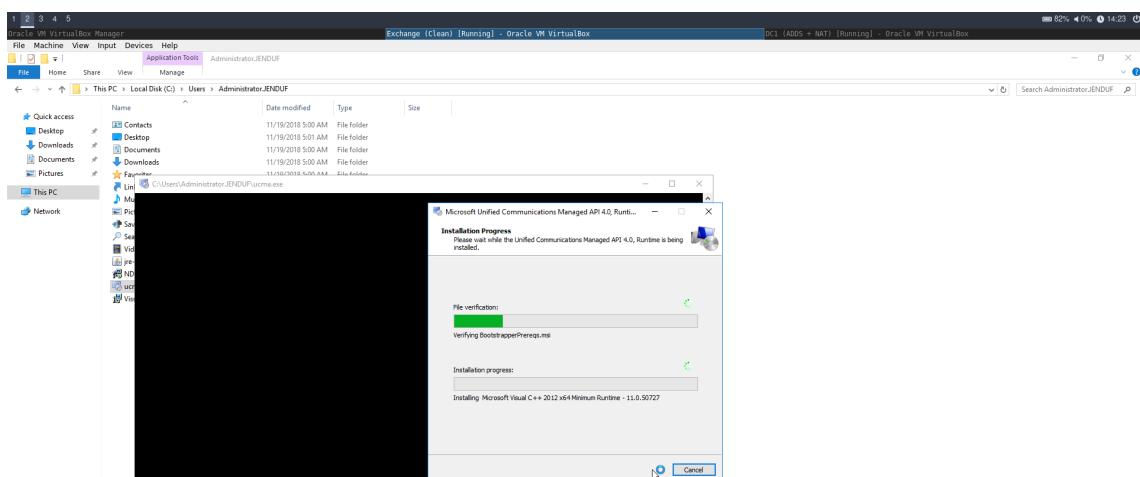


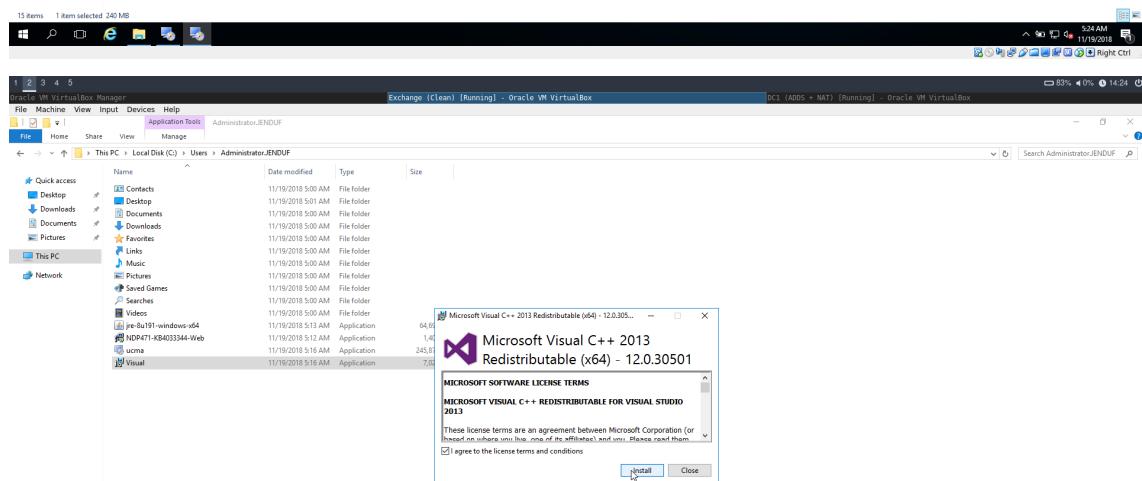
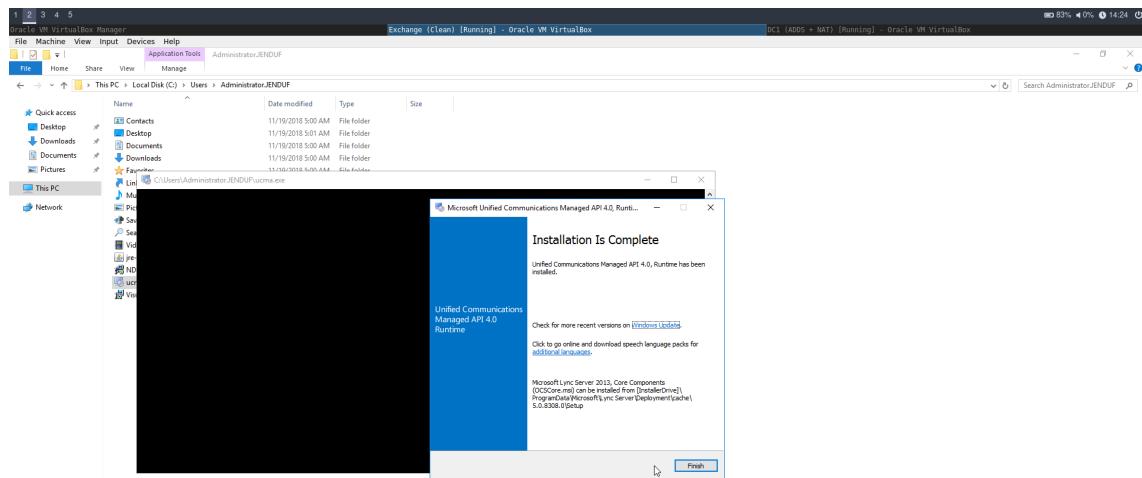
Installeer de "Microsoft Unified Communications Managed API".





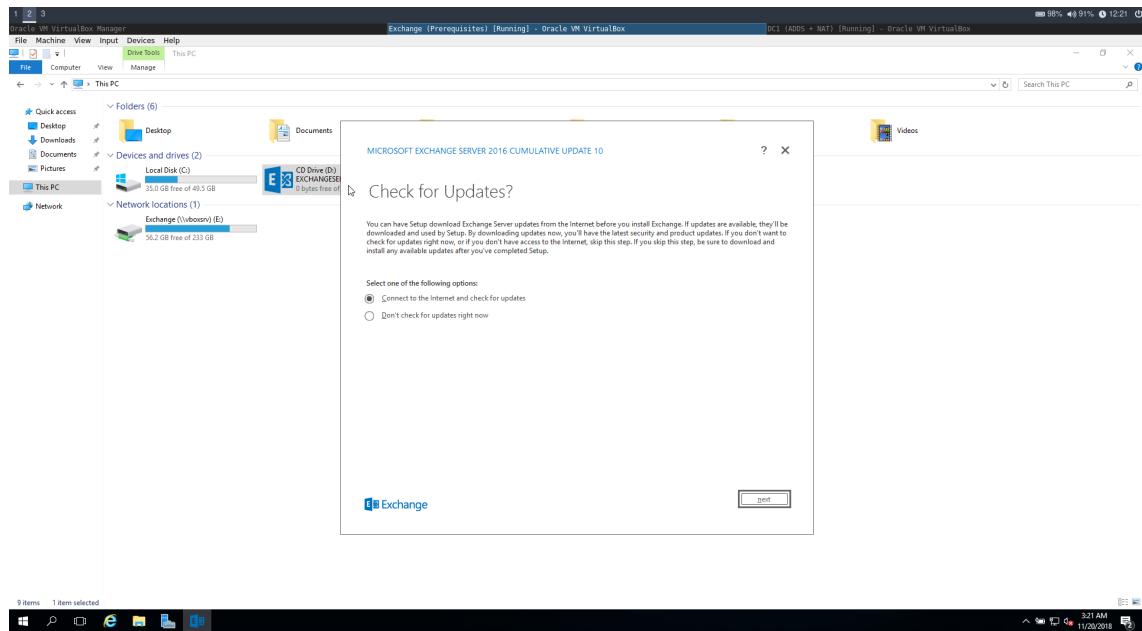
Ga akkoord met de licentievooraarden en installeer.



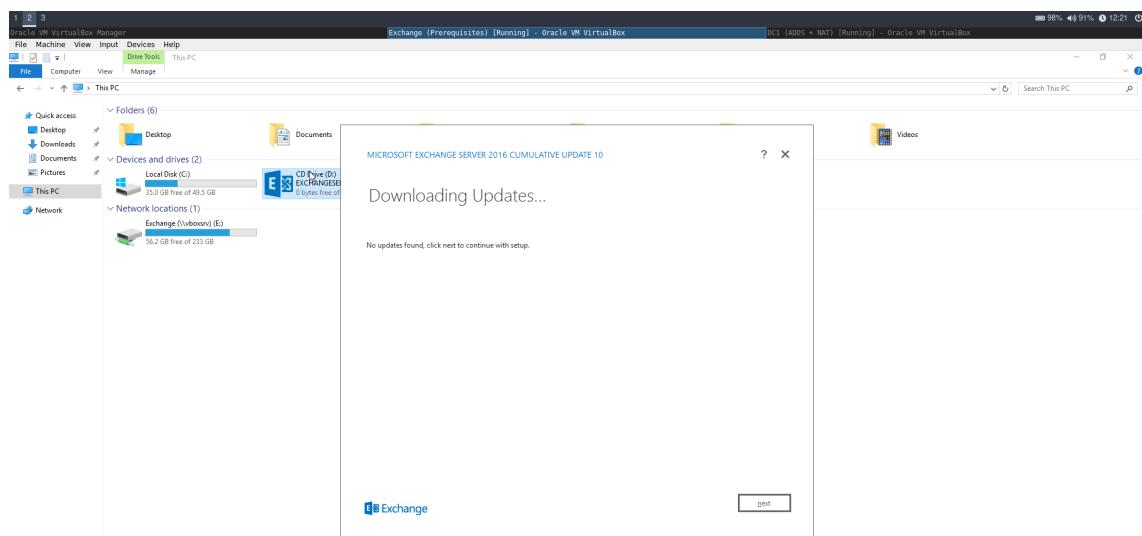


Installeer "Microsoft Visual C++ 2013".

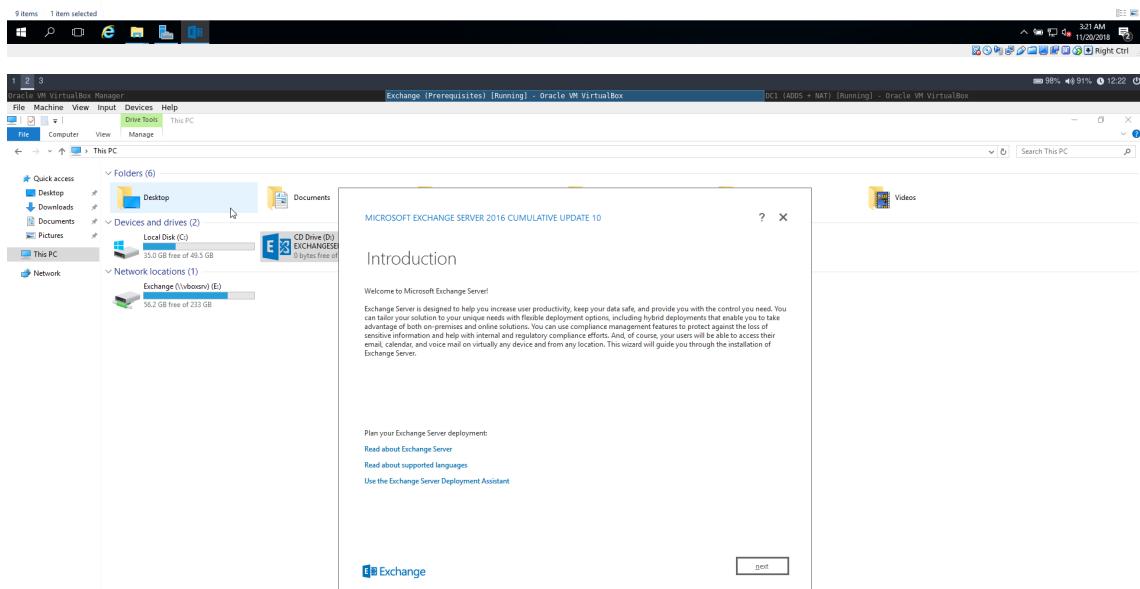
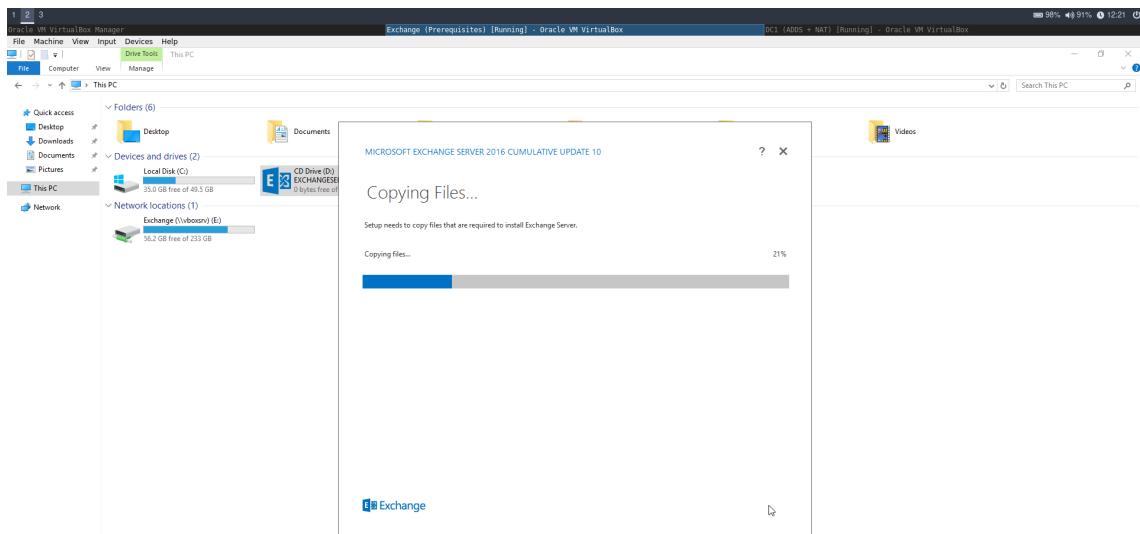
4.3 Installatie Exchange Server

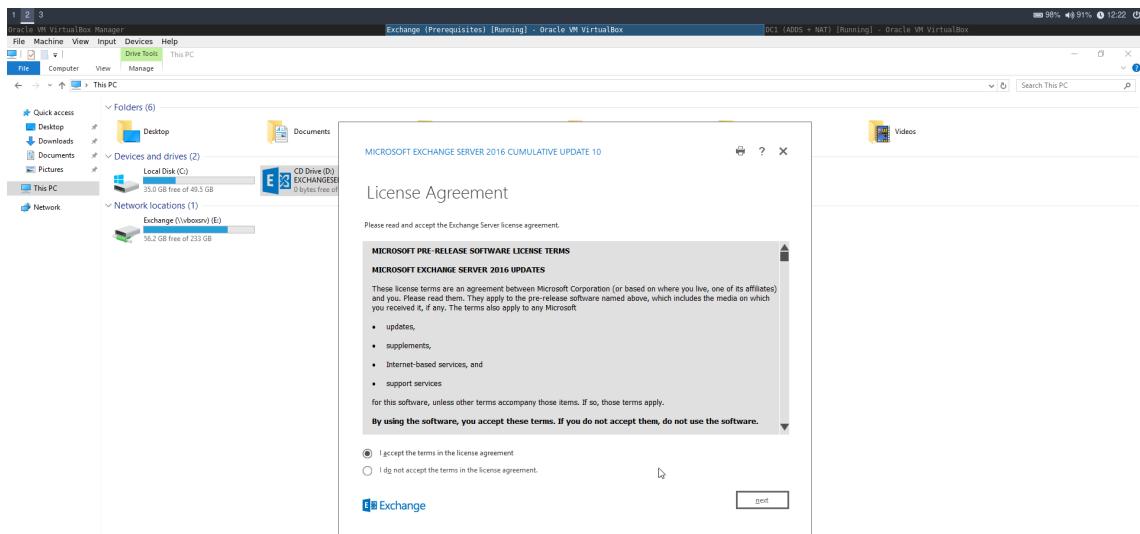


Zeek naar updates voor de start van de installatie.

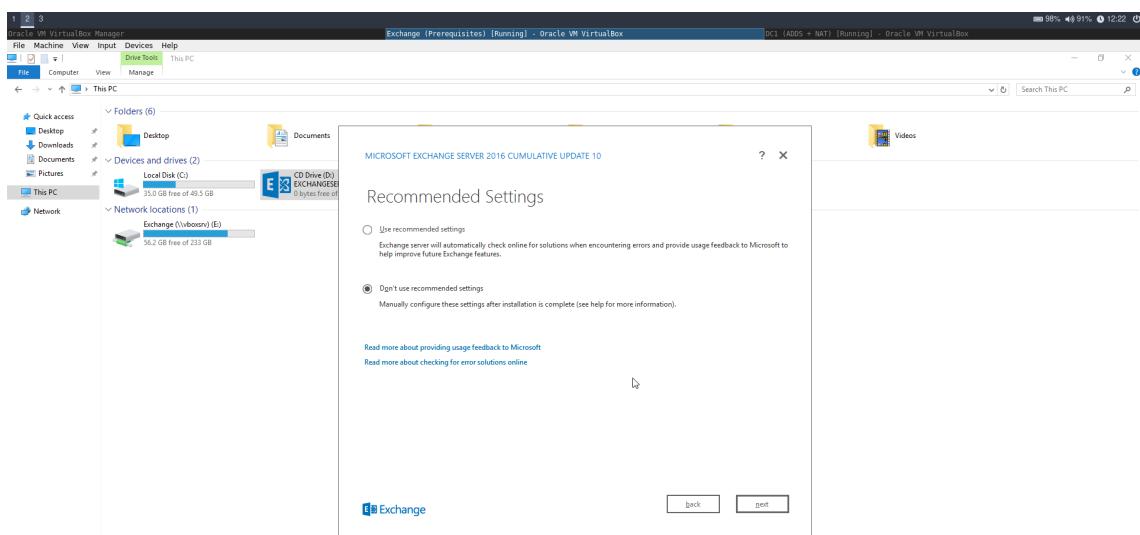


Ga verder na het zoeken naar updates.

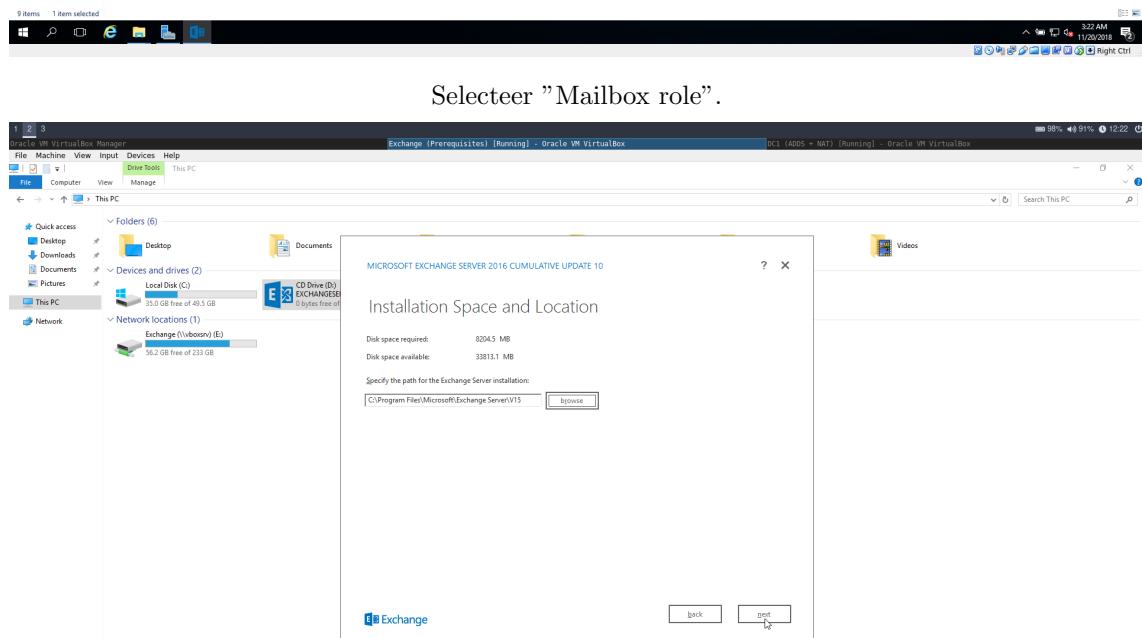
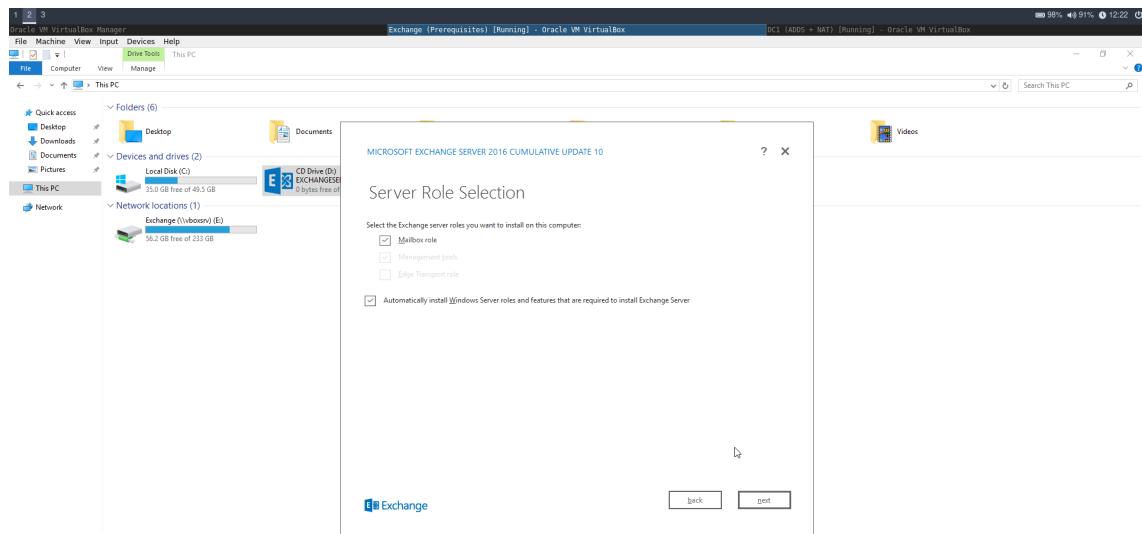


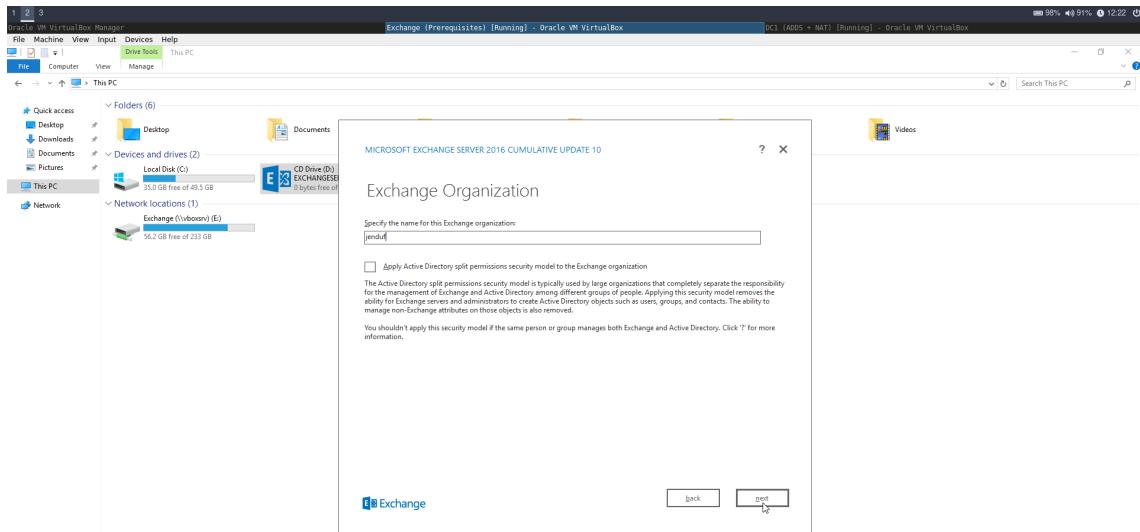


Ga akkoord met de licentievoorwaarden.

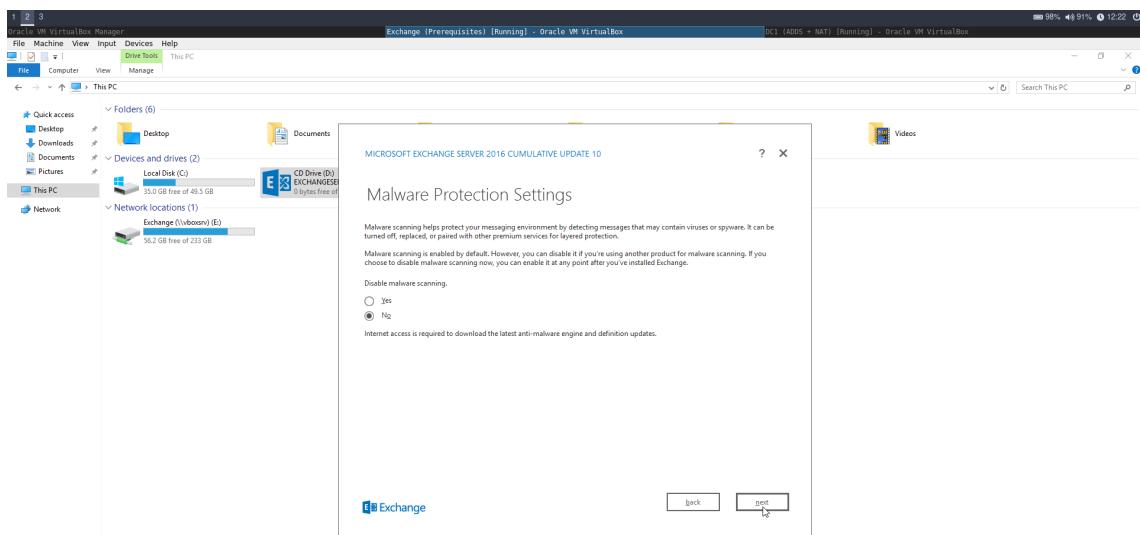


Selecteer "Don't use recommended settings".

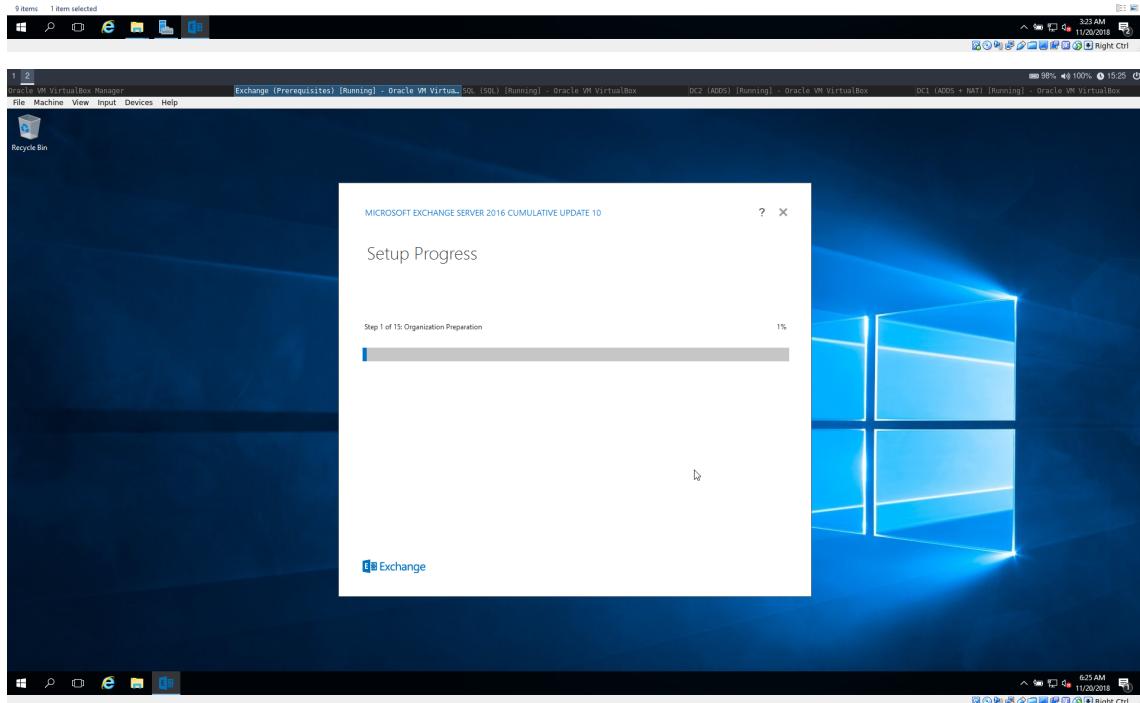
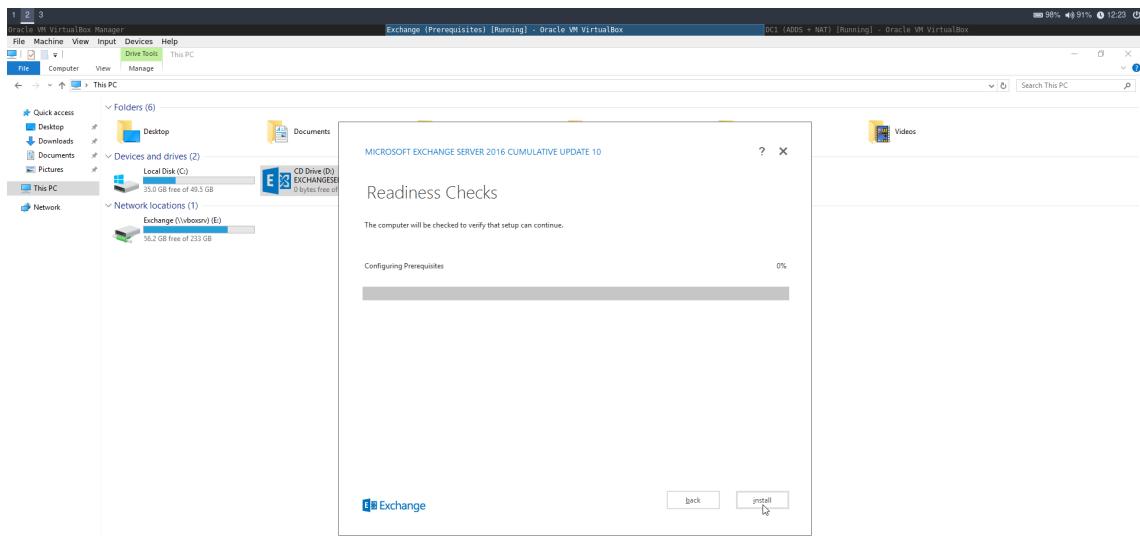


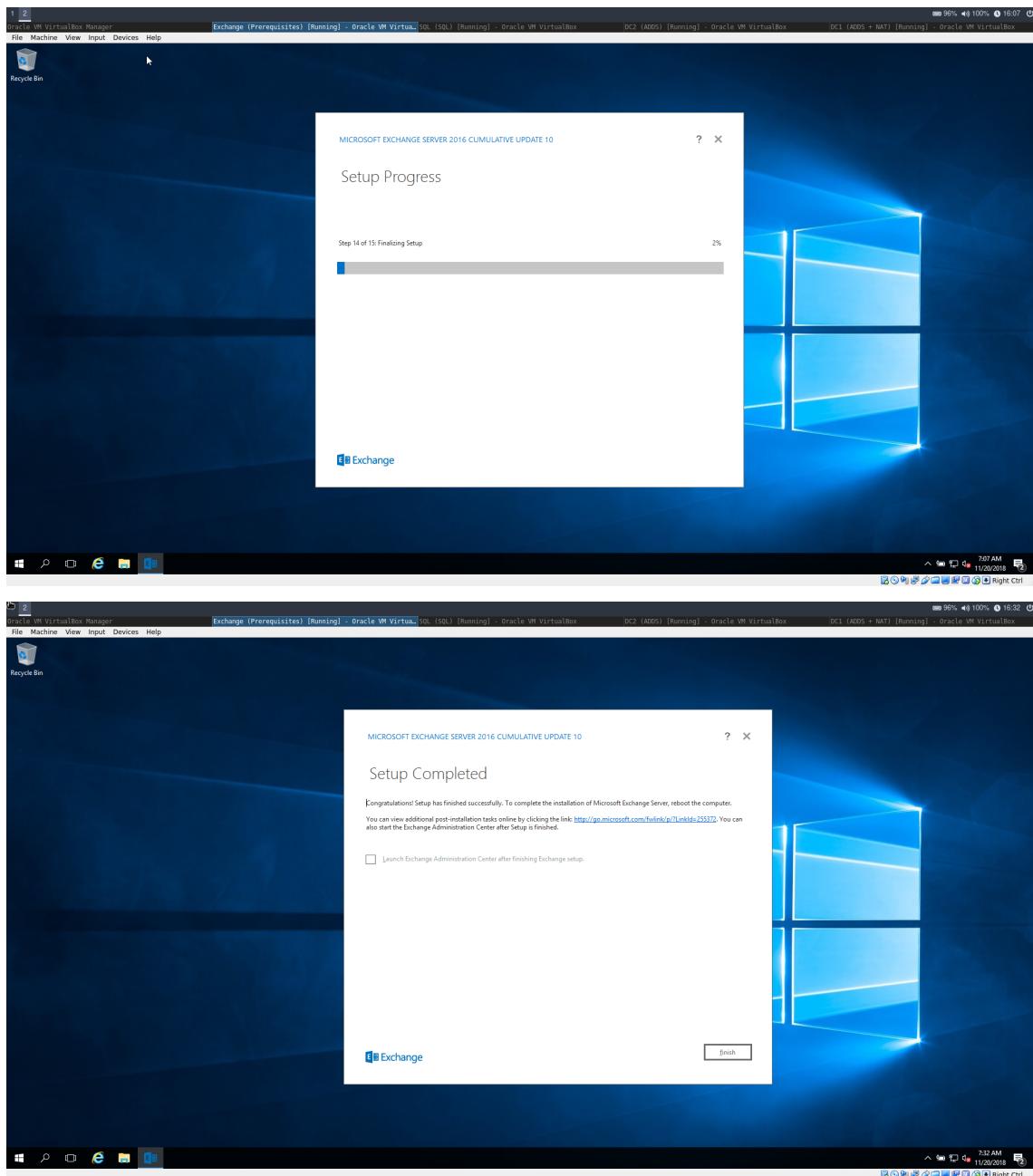


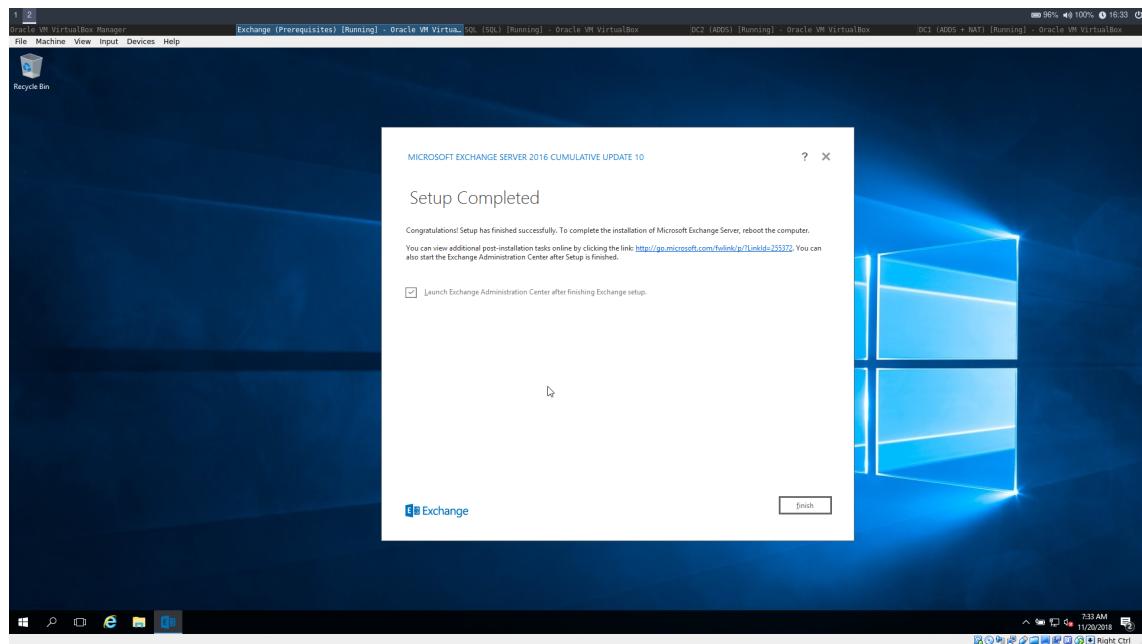
Geef "jenduf" in als organisatienaam.



Selecteer "No" voor de malwarebescherming.

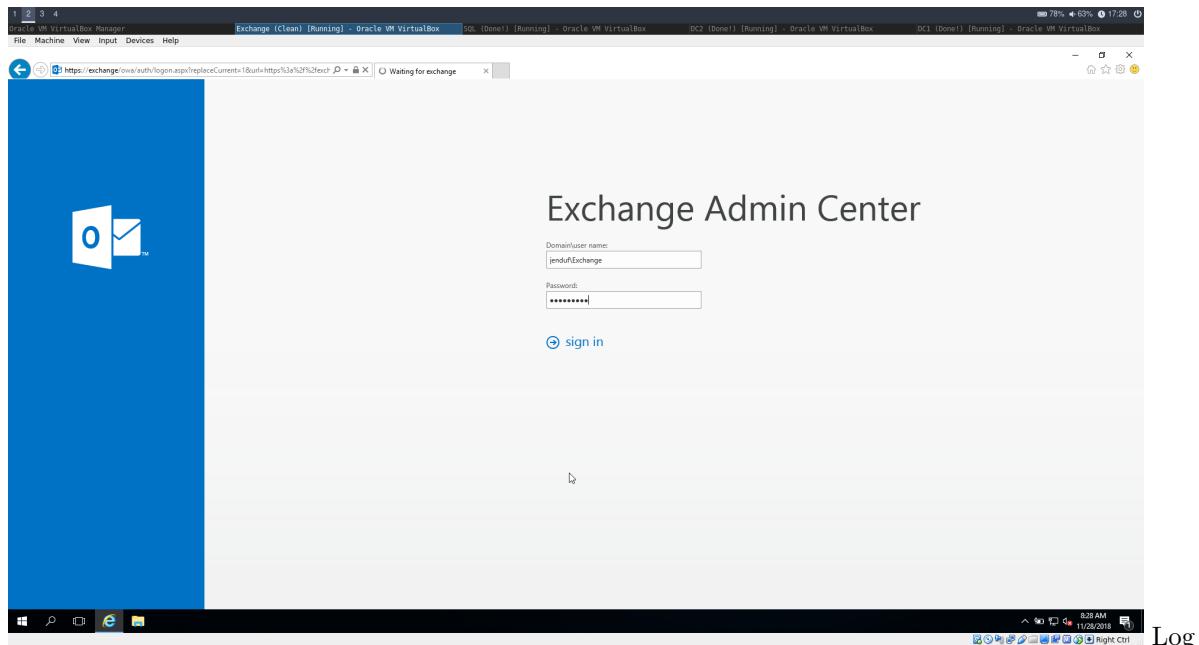




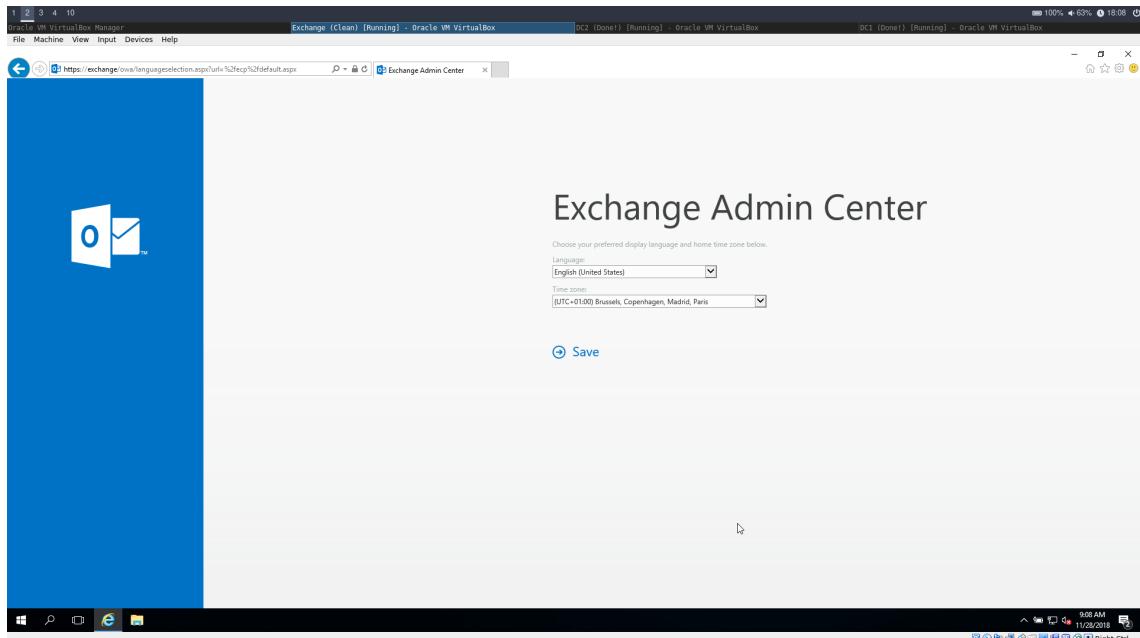


Vink het selectievak aan en klik op "finish".

4.4 Configuratie Exchange-server

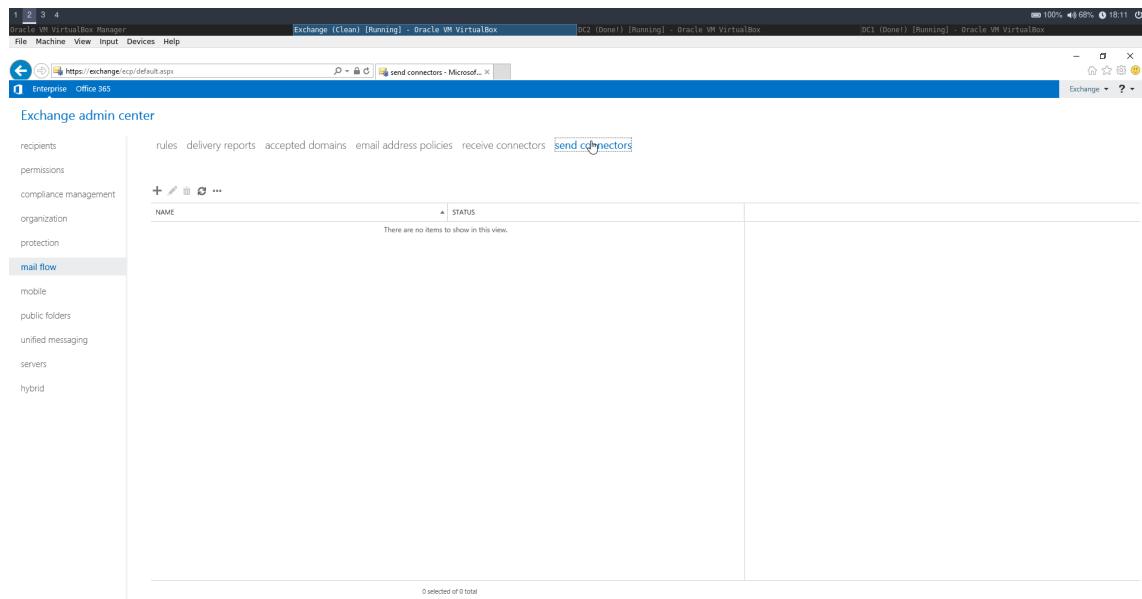


in met de vooraf aangemaakte Exchange-gebruiker.

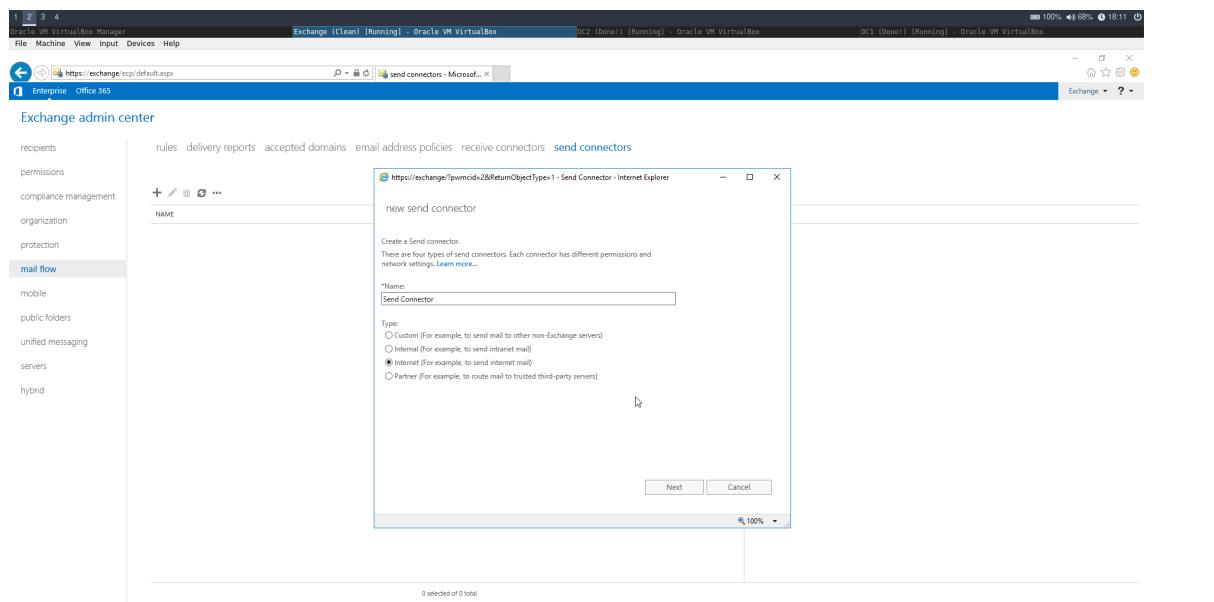


Selecteer de voorkeurstaal en stel de tijdszone in op Brussel.

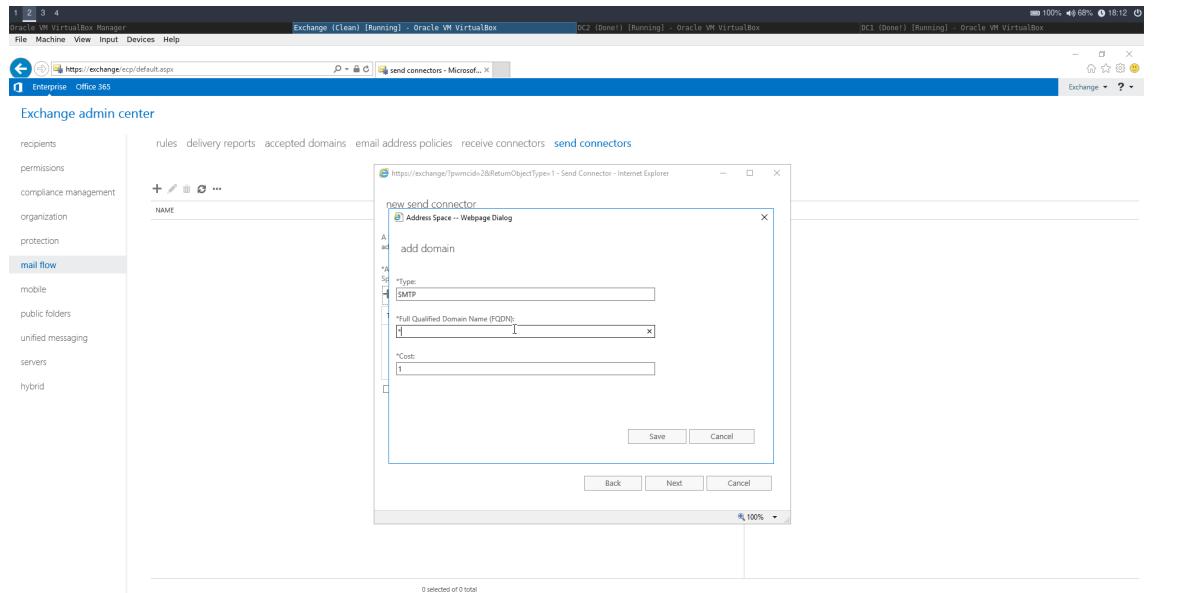
The screenshot shows the Exchange Admin Center mailbox management interface. The left sidebar has a "recipients" tab selected, showing links for "permissions", "compliance management", "organization", "protection", "mail flow", "mobile", "public folders", "unified messaging", "servers", and "hybrid". The main content area shows a table for managing mailboxes. The first row of the table has columns: DISPLAY NAME, MAILBOX TYPE, and EMAIL ADDRESS. The first row contains the values "Exchange", "User", and "Exchange@ynduf.gent". To the left of the table is a toolbar with icons for creating (+), editing (pencil), deleting (trash), and other actions. To the right of the table is a detailed view pane for the selected "Exchange" mailbox. It shows basic information like "User mailbox" and "Exchange@ynduf.gent", and various settings sections such as "Phone and Voice Features", "Mobile Devices", "In-Place Archive", and "Email Connectivity". The status bar at the bottom shows "9:11 AM" and the date "11/28/2018".



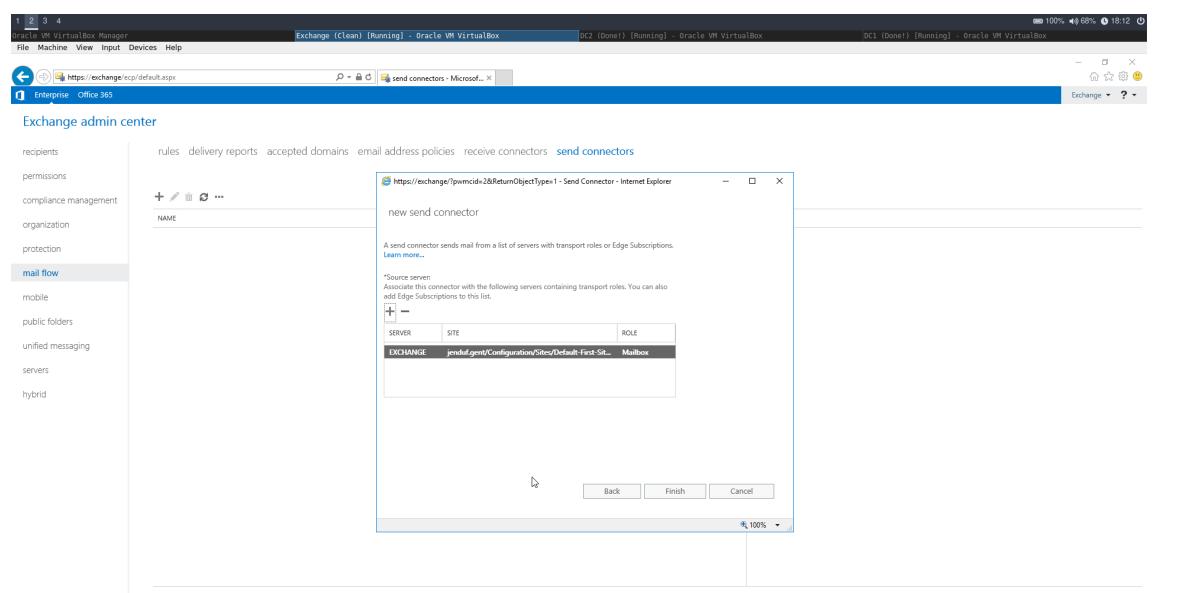
Navigeer naar de "send connectors" in de optie "mail flow".



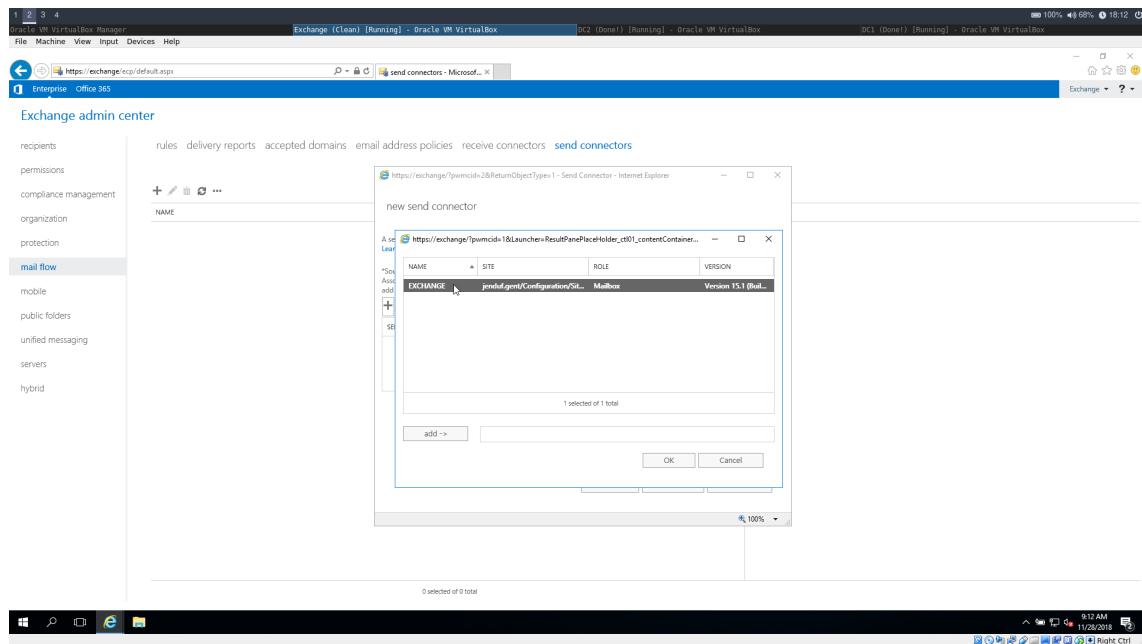
Voeg een nieuwe "send connector" en selecteer de optie "Internet".



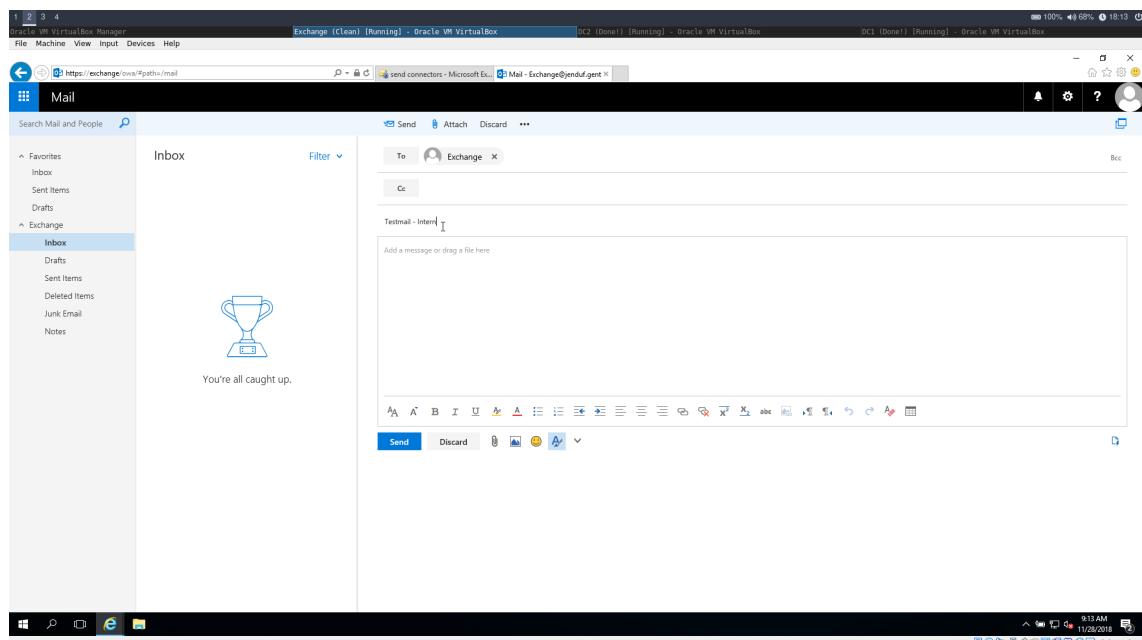
een "*" (Asterisk) in als "FQDN".



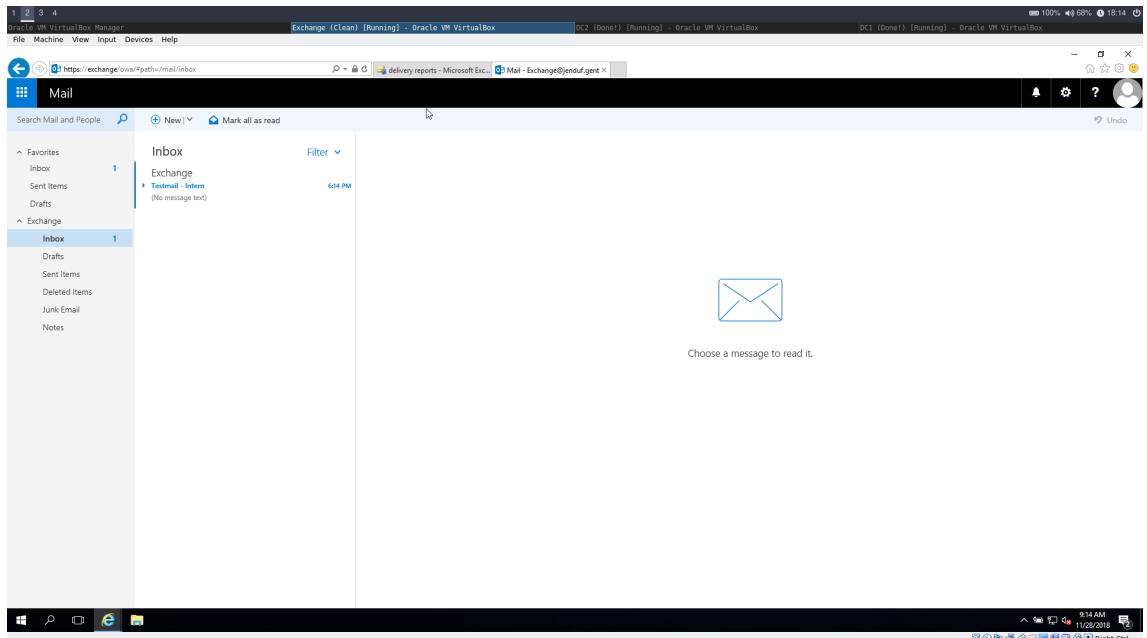
Selecteer de Exchange-server als "Source server"



4.5 Testen Exchange-server



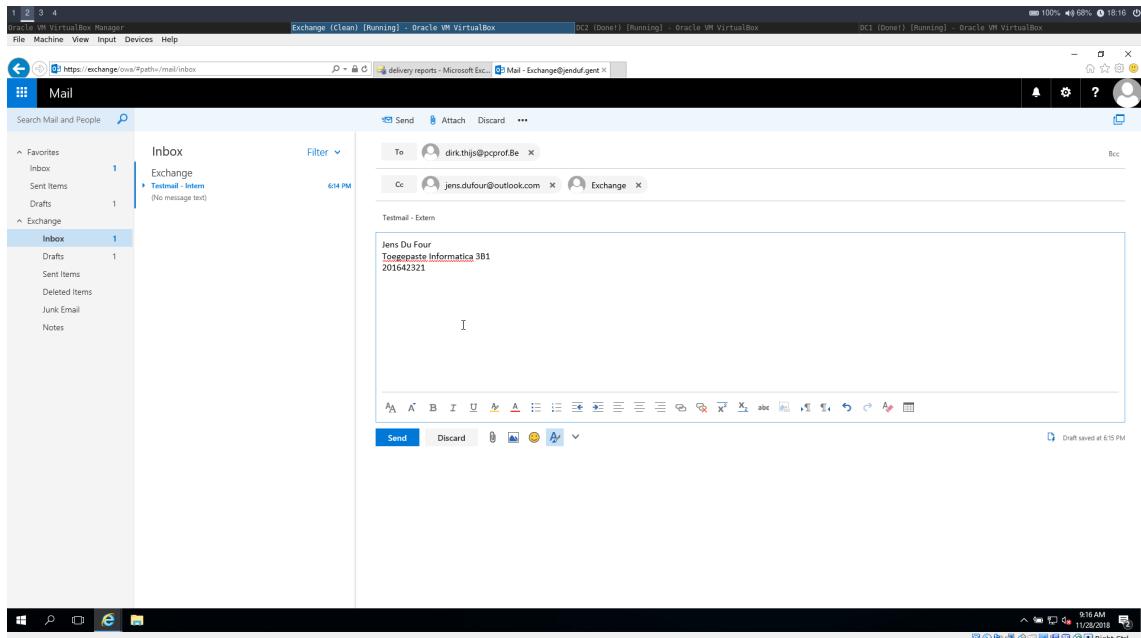
We schrijven een mail aan een intern e-mailadres.



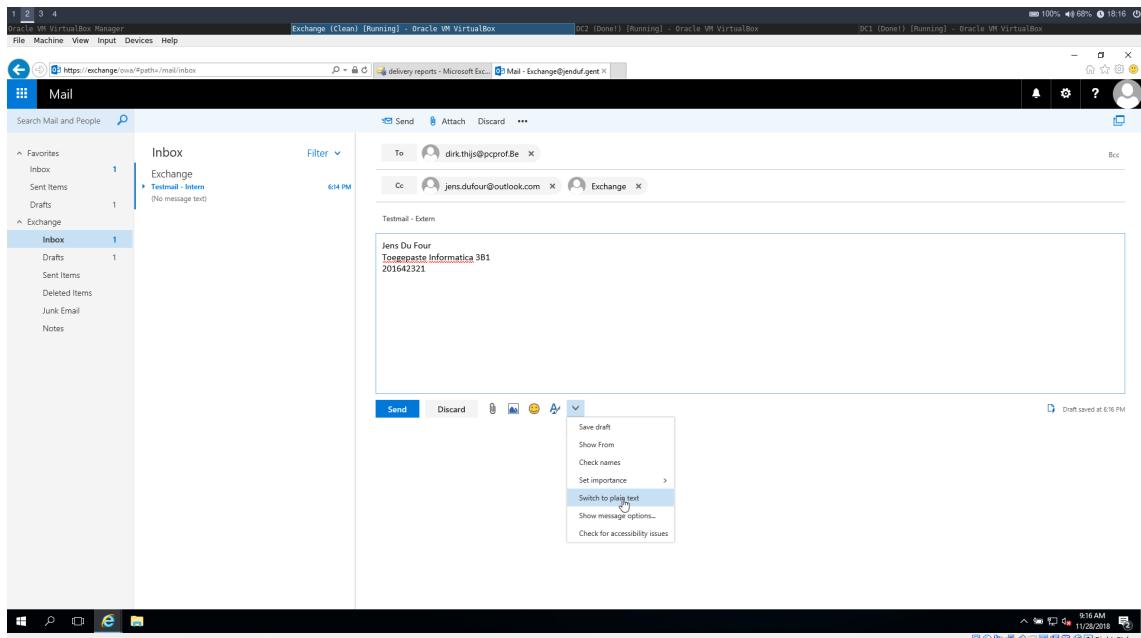
We zien dat deze mail zonder probleem in onze mailbox terecht komt.

A screenshot of the Exchange Admin Center Mail flow search interface. On the left, a sidebar lists categories such as recipients, permissions, compliance management, organization, protection, and mail flow (which is selected). The main area contains a search form for delivery reports, accepted domains, email address policies, receive connectors, and send connectors. Below the search form, there's a search results table with one entry: 'Testmail - Intern' from 'Exchange' to 'Exchange' at 11/28/2018 6:13 PM. The status bar at the bottom indicates the date and time as 11/28/2018 9:14 AM.

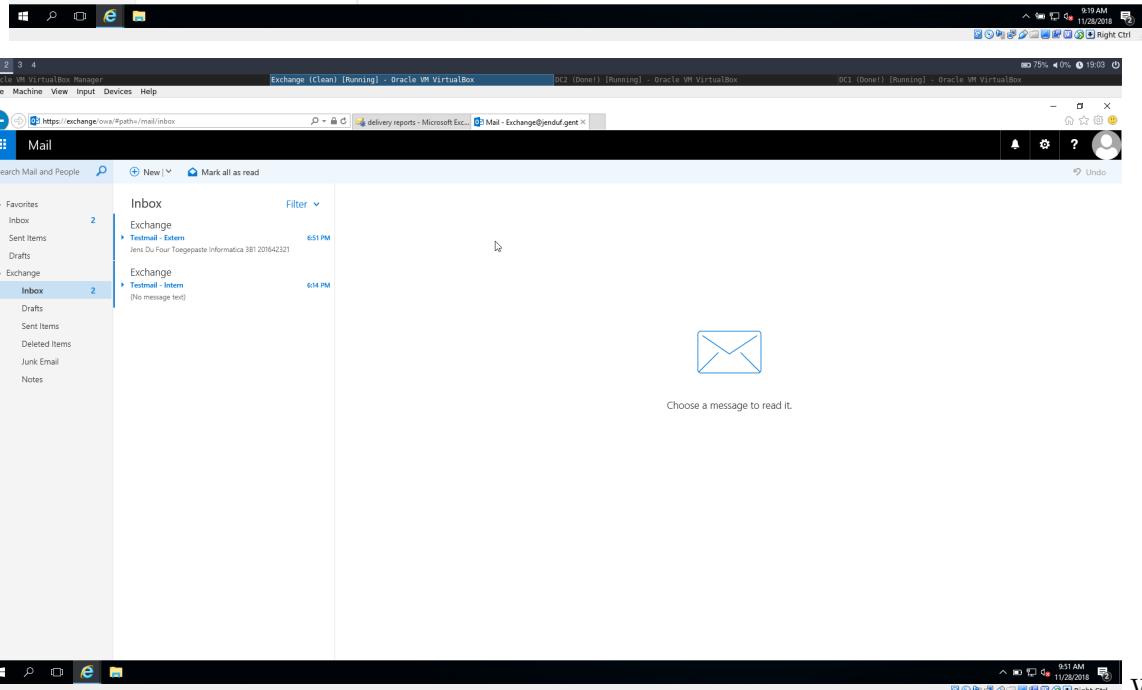
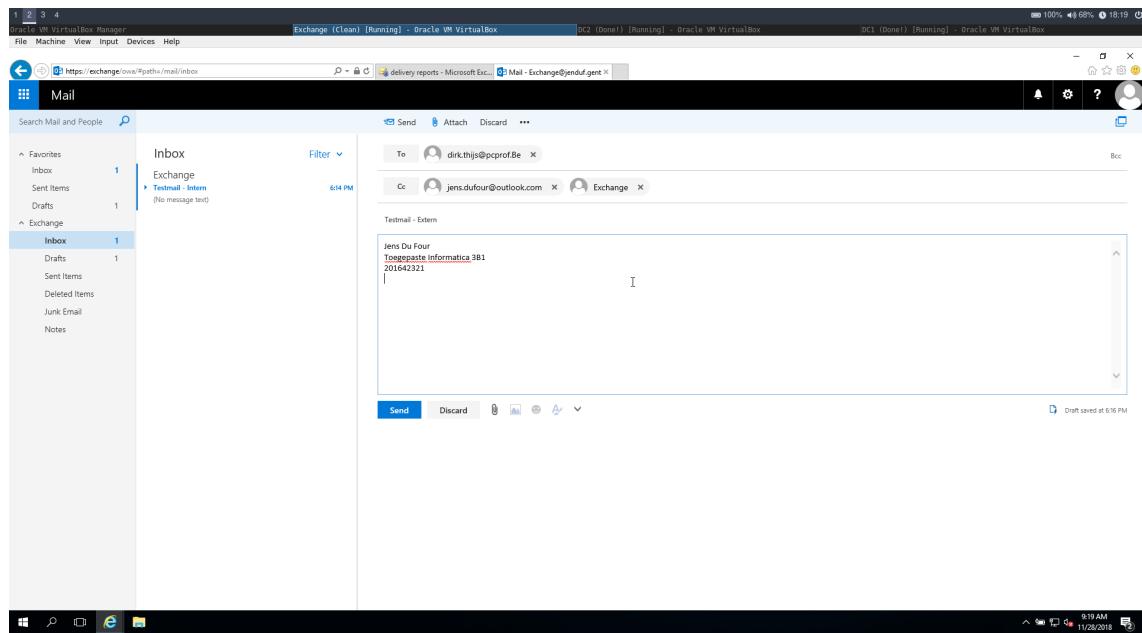
We zien ook van uit "Exchange Admin Center" dat deze zonder fout verzonden werd.



We schrijven hierna een mail naar een extern e-mailadres. Ter controle voegen we ook nog een intern e-mailadres toe.



We verzenden deze als "plain text" zodat deze makkelijker door de veiligheidscontrole geraakt.



We zien dat we deze intern zonder foutmelding ontvangen.

Exchange admin center

rules delivery reports accepted domains email address policies receive connectors send connectors

Search for delivery information about messages sent to or from a specific person. You can narrow the search to messages with certain keywords in the subject.

*Mailbox to search: Exchange

Search for messages sent to: select users...

Search for messages received from: select a user...

Search for these words in the subject line:

search clear

FROM	TO	SUBJECT	SENT TIME
Exchange	jens.dufour@outlook.com;Exchange;dirk.thijssen@poprof.be	Testmail - Extrem	11/28/2018 6:51 PM
Exchange	Exchange	Testmail - Intern	11/28/2018 6:13 PM

1 selected of 2 total

Bij een van de twee externe e-mailadressen is deze ook zonder problemen ontvangen.

Exchange admin center

rules delivery reports accepted domains email address policies receive connectors send connectors

Search for delivery information about messages sent to or from a specific person. You can narrow the search to messages with certain keywords in the subject.

*Mailbox to search: Exchange

Search for messages sent to: select users...

Search for messages received from: select a user...

Search for these words in the subject line:

search clear

To	Status	Date
dirk.thijssen@poprof.be	Unsuccessful	11/28/2018 6:51 PM
Exchange	Delivered	11/28/2018 6:51 PM
jens.dufour@outlook.com	Transferred	11/28/2018 6:51 PM

Delivery Report

From: Exchange
To: jens.dufour@outlook.com;Exchange;dirk.thijssen@poprof.be
Sent: 11/28/2018 6:51 PM

Summary to date: 3 Recipients | 1 Delivered | 1 Transferred | 1 Unsuccessful

To	Status	Date
dirk.thijssen@poprof.be	Unsuccessful	11/28/2018 6:51 PM
Exchange	Delivered	11/28/2018 6:51 PM
jens.dufour@outlook.com	Transferred	11/28/2018 6:51 PM

11/28/2018 6:51 PM EXCHANGE
The message was submitted to exchange.jenduf.gent.
Pending
11/28/2018 6:51 PM exchange.jenduf.gent
Message was received by exchange.jenduf.gent from Exchange.jenduf.gent.
Failed
11/28/2018 6:51 PM exchange.jenduf.gent
The message couldn't be delivered
[LID=579;T=7406;Action=Denied;Banned sending IP 118.198.64.78] To request removal from our list please visit <http://VendorOffice.com/> and follow the directions. For more information please go to <http://go.microsoft.com/fwlink/?LinkId=326651> (A516012609); [MSGID=10920N=poprof-be-mail-protection.outlook.com/]([IP=213.199.154.202];[XET=11092018 5:51:29 PM])

Close

Bij een van de twee externe e-mailadressen moeten we ons IP laten controleren.