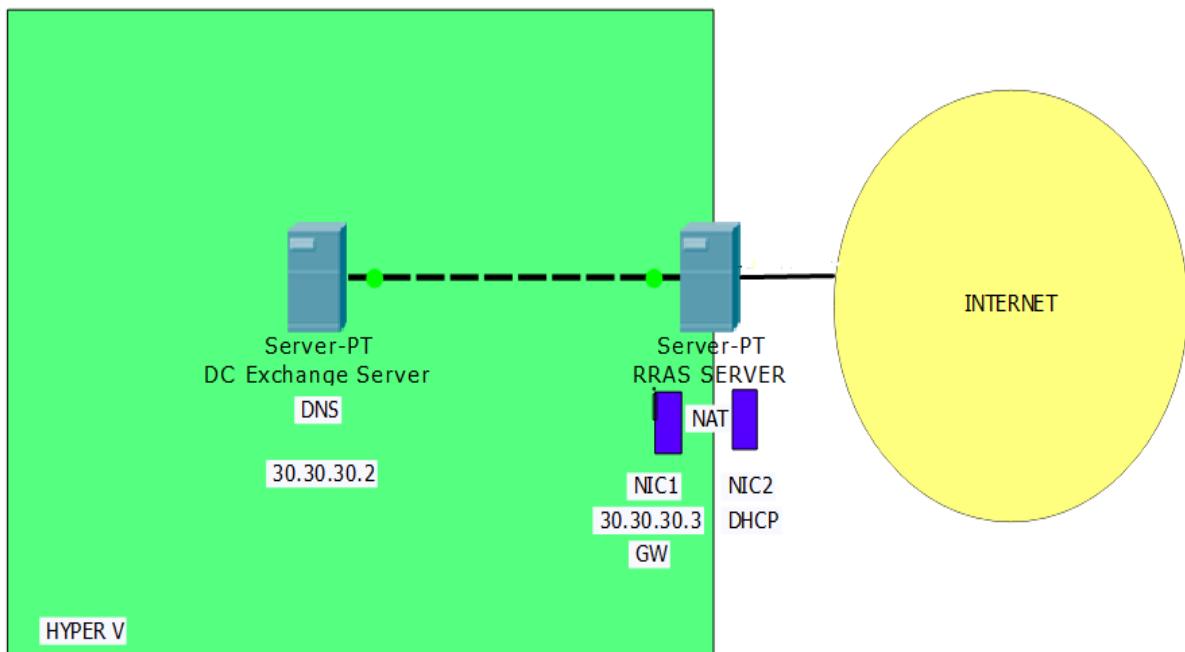


EXCHANGE SERVER with WINDOWS SERVER 2016

AMAÇ:

Windows Server 2016 sunucularında Client Exchange Server ve ara yüz olarak RRAS server kullanılarak (bu serverı router görevi vermiş gibi) NAT yaparak internețe çıkması, aynı zamanda domain içerisindeki ve farklı domainlerde olan kullanıcıların birbirleri arasında mail alışverişinde bulunmasını sağlamaktır.

Bu amaç doğrultusundaki topolojimiz şu şekildedir.



Kurulum için gerekli aşamalar kaydedilir.

1. VM updateleri
2. Powershell “add Windows feature” komutları
3. VM isimleri ve Statik IP ayarları
4. Active Directory kurulumu(1DC, 1Domain Computer)
5. Exchange Server kurulumu(DC'de) topolojiye göre
 - a. ISCSI diskleri eklenir.
 - b. Log dosyaları yeni log diskine yönlendirilir.
 - c. Yeni DB oluşturulur → Yeni DB mount edilir.
 - d. Backup diski yönlendirilir.(exchange komutu management shell)
6. Yeni DB(mail) kullanıcı mailbox oluşturulması
7. LOCAL kullanıcılar arası mail atma
8. RRAS Server kurulumu(Domain'e alınır!)
 - a. External NIC eklenir.(DHCP Auto)
 - b. Add Role→Remote Access

RAS connection Manager Administrator Kit→Routing
VPN

VPN=Direct Access

9. RRAS IP'si GW(Gateway) olacak DC'de konfigüre edilir.

10. Routing and Remote Access (Tools)

→RRAS SERVICE

→Configure and enable routing

→NAT

→Interface EKLE!

11. Exchange serverin kurulu olduğu sunucuda ping testi yapıldı.

12. DNS forward lookup zone eklentisi

- a. Google DNS eklenir.(8.8.8. or 8.8.4.4)

13. Administrator ECP(Exchange Control Panel)

- a. →mail flow →accepted domains → Xlowdomain

→gmail.com / accepted domain {WARNING, OK }

→hotmail.com / "*" → ALL

- b. External Relay {Amacımız dışarıya mail göndermek}

14. SMTP CONNECTOR eklenir. (RRAS)

Routing and Remote Access → RRAS local > IPV4 > NAT > External NIC →

properties > Services and Ports →SMTP [Edit Service on this interface:

EXCHANGE SERVER IP

15. Herhangi bir gmail adresine mail atılarak kontrol edilir.

16. Disclaimer oluşturmak
17. Distribution grup oluşturmak ve gruba mail yollamak
18. İki mailbox için Archive mail oluşturmak
19. Mailbox Kota Ayarları
20. Public Folder Oluşturmak
21. Kişisel Bilgisayarımızda Outlook ile Maillerimize Ulaşma
22. A-) Migration için Exchanger Server 2010 kurma, kullanıcı oluşturma ve Backup alma
B-) Exchange Server 2013 Kurma ve Migration

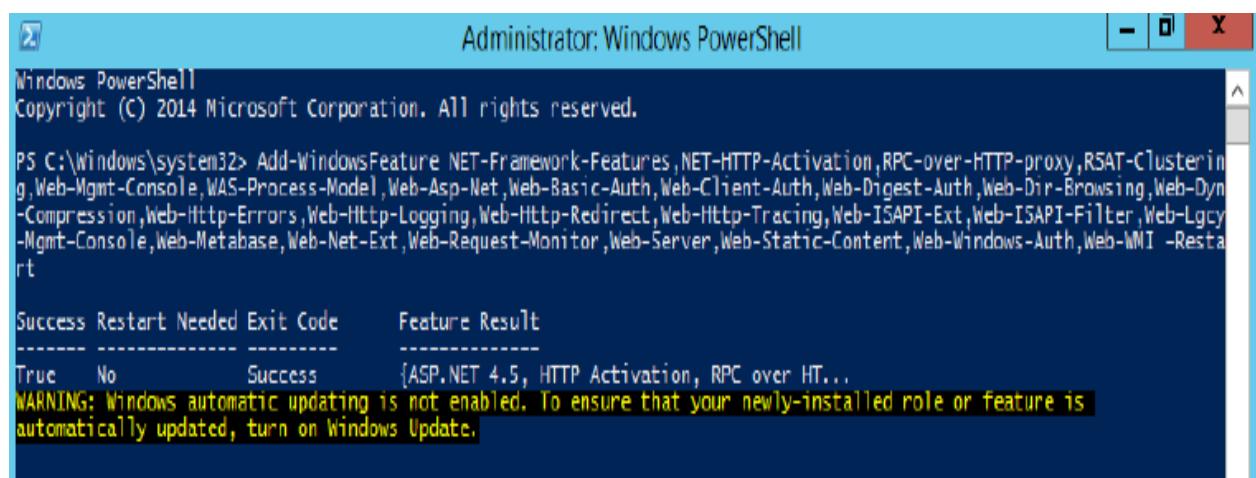
1.

Windows Server 2016 için update'ler yapılır.

2.

Windows Powershell'e aşağıdaki komut girilerek featureslar eklenir.

```
> Add-WindowsFeature NET-Framework-Features,NET-HTTP-Activation,RPC-over-HTTP-proxy,RSAT-Clustering,Web-Mgmt-Console,WAS-Process-Model,Web-Asp-Net,Web-Basic-Auth,Web-Client-Auth,Web-Digest-Auth,Web-Dir-Browsing,Web-Dyn-Compression,Web-Http-Errors,Web-Http-Logging,Web-Http-Redirect,Web-Http-Tracing,Web-ISAPI-Ext,Web-ISAPI-Filter,Web-Lgcy-Mgmt-Console,Web-Metabase,Web-Net-Ext,Web-Request-Monitor,Web-Server,Web-Static-Content,Web-Windows-Auth,Web-WMI –Restart
```



The screenshot shows an Administrator Windows PowerShell window. The title bar reads "Administrator: Windows PowerShell". The command entered is:

```
PS C:\Windows\system32> Add-WindowsFeature NET-Framework-Features,NET-HTTP-Activation,RPC-over-HTTP-proxy,RSAT-Clustering,Web-Mgmt-Console,WAS-Process-Model,Web-Asp-Net,Web-Basic-Auth,Web-Client-Auth,Web-Digest-Auth,Web-Dir-Browsing,Web-Dyn-Compression,Web-Http-Errors,Web-Http-Logging,Web-Http-Redirect,Web-Http-Tracing,Web-ISAPI-Ext,Web-ISAPI-Filter,Web-Lgcy-Mgmt-Console,Web-Metabase,Web-Net-Ext,Web-Request-Monitor,Web-Server,Web-Static-Content,Web-Windows-Auth,Web-WMI –Restart
```

The output shows the results of the command:

Success	Restart Needed	Exit Code	Feature Result
True	No	Success	[ASP.NET 4.5, HTTP Activation, RPC over HT...]

A warning message is displayed at the bottom:

WARNING: Windows automatic updating is not enabled. To ensure that your newly-installed role or feature is automatically updated, turn on Windows Update.

3.

VM isimleri ve statik IP'ler verilir.(Bakınız topoloji fotoğrafı).

4.

Active Directory kurulumu (1 DC, 1 Domain Computer)

Exchange Server Domain Controller olacak cihaza tanımlanır.

5.

Exchange Server için gerekli olan framework ve filterpack kurulumları yapılır.

 FilterPack64bit	21.11.2019 10:35	Application	3.970 KB
 filterpack2010sp1-kb2460041-x64-fullfile-...	21.11.2019 10:35	Application	3.609 KB
 NDP471-KB4033342-x86-x64-AllOS-ENU	21.11.2019 10:35	Application	67.131 KB
 UcmaRuntimeSetup	21.11.2019 10:35	Application	245.873 KB
 vcredist_x64	21.11.2019 10:35	Application	7.026 KB

Bunları kurmamız gerekiyor.Exchange ara yüzlerinin doğru çalışması adına yapılması gereken bir işlemidir.!!

Teker teker tıklanır ve kurulum sağlanır.

Introduction

Welcome to Microsoft Exchange Server!

Exchange Server is designed to help you increase user productivity, keep your data safe, and provide you with the control you need. You can tailor your solution to your unique needs with flexible deployment options, including hybrid deployments that enable you to take advantage of both on-premises and online solutions. You can use compliance management features to protect against the loss of sensitive information and help with internal and regulatory compliance efforts. And, of course, your users will be able to access their email, calendar, and voice mail on virtually any device and from any location. This wizard will guide you through the installation of Exchange Server.

Plan your Exchange Server deployment:

- [Read about Exchange Server](#)
- [Read about supported languages](#)
- [Use the Exchange Server Deployment Assistant](#)

[next](#)

License Agreement

Please read and accept the Exchange Server license agreement.

MICROSOFT SOFTWARE LICENSE TERMS

MICROSOFT EXCHANGE SERVER 2016 STANDARD, ENTERPRISE, TRIAL AND HYBRID

These license terms are an agreement between Microsoft Corporation (or based on where you live, one of its affiliates) and you. Please read them. They apply to the software named above, which includes the media on which you received it, if any. The terms also apply to any Microsoft

- updates,
- supplements,
- Internet-based services, and
- support services

for this software, unless other terms accompany those items. If so, those terms apply.

By using the software, you accept these terms. If you do not accept them, do not use the software. Instead, return it to the retailer for a refund or credit. If you cannot obtain a refund there, contact Microsoft or

- I accept the terms in the license agreement
 I do not accept the terms in the license agreement.



next

Recommended Settings

[Use recommended settings](#)

Exchange server will automatically check online for solutions when encountering errors and provide usage feedback to Microsoft to help improve future Exchange features.

[Don't use recommended settings](#)

Manually configure these settings after installation is complete (see help for more information).

[Read more about providing usage feedback to Microsoft](#)

[Read more about checking for error solutions online](#)



[back](#)

[next](#)

Server Role Selection

Select the Exchange server roles you want to install on this computer:

Mailbox role

Management tools

Edge Transport role

Automatically install Windows Server roles and features that are required to install Exchange Server



[back](#)

[next](#)

Installation Space and Location

Disk space required: 8204.8 MB

Disk space available: 45050.7 MB

Specify the path for the Exchange Server installation:



Exchange Organization

Specify the name for this Exchange organization:

[Apply Active Directory split permissions security model to the Exchange organization](#)

The Active Directory split permissions security model is typically used by large organizations that completely separate the responsibility for the management of Exchange and Active Directory among different groups of people. Applying this security model removes the ability for Exchange servers and administrators to create Active Directory objects such as users, groups, and contacts. The ability to manage non-Exchange attributes on those objects is also removed.

You shouldn't apply this security model if the same person or group manages both Exchange and Active Directory. Click '?' for more information.

[back](#)[next](#)

Malware Protection Settings

Malware scanning helps protect your messaging environment by detecting messages that may contain viruses or spyware. It can be turned off, replaced, or paired with other premium services for layered protection.

Malware scanning is enabled by default. However, you can disable it if you're using another product for malware scanning. If you choose to disable malware scanning now, you can enable it at any point after you've installed Exchange.

Disable malware scanning.

- Yes
 No

Internet access is required to download the latest anti-malware engine and definition updates.

[back](#)[next](#)

Setup Progress

Step 14 of 15: Finalizing Setup

76%



Setup Completed

Congratulations! Setup has finished successfully. To complete the installation of Microsoft Exchange Server, reboot the computer.

You can view additional post-installation tasks online by clicking the link: <https://docs.microsoft.com/Exchange/plan-and-deploy/post-installation-tasks/post-installation-tasks?view=exchserver-2016>. You can also start the Exchange Administration Center after Setup is finished.

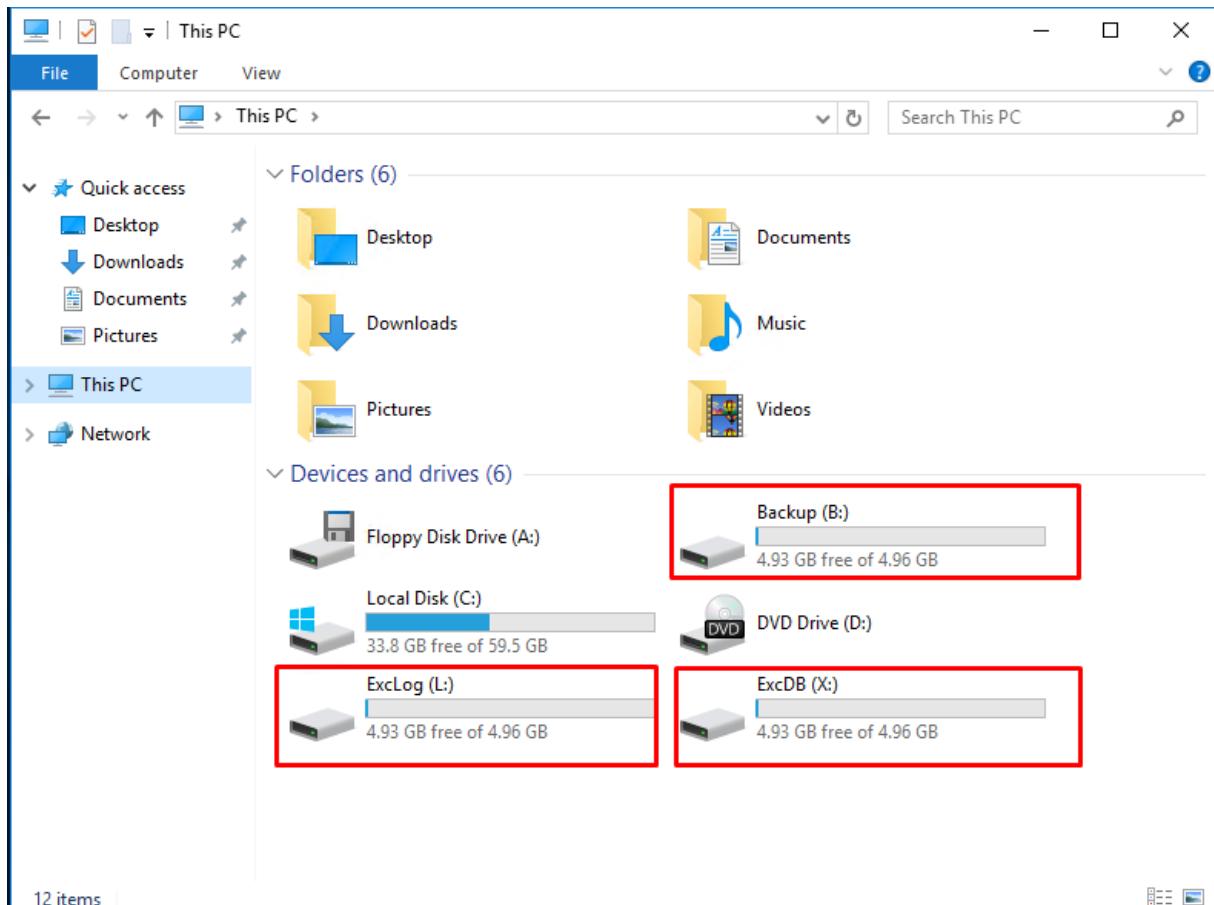
- Launch Exchange Administration Center after finishing Exchange setup.



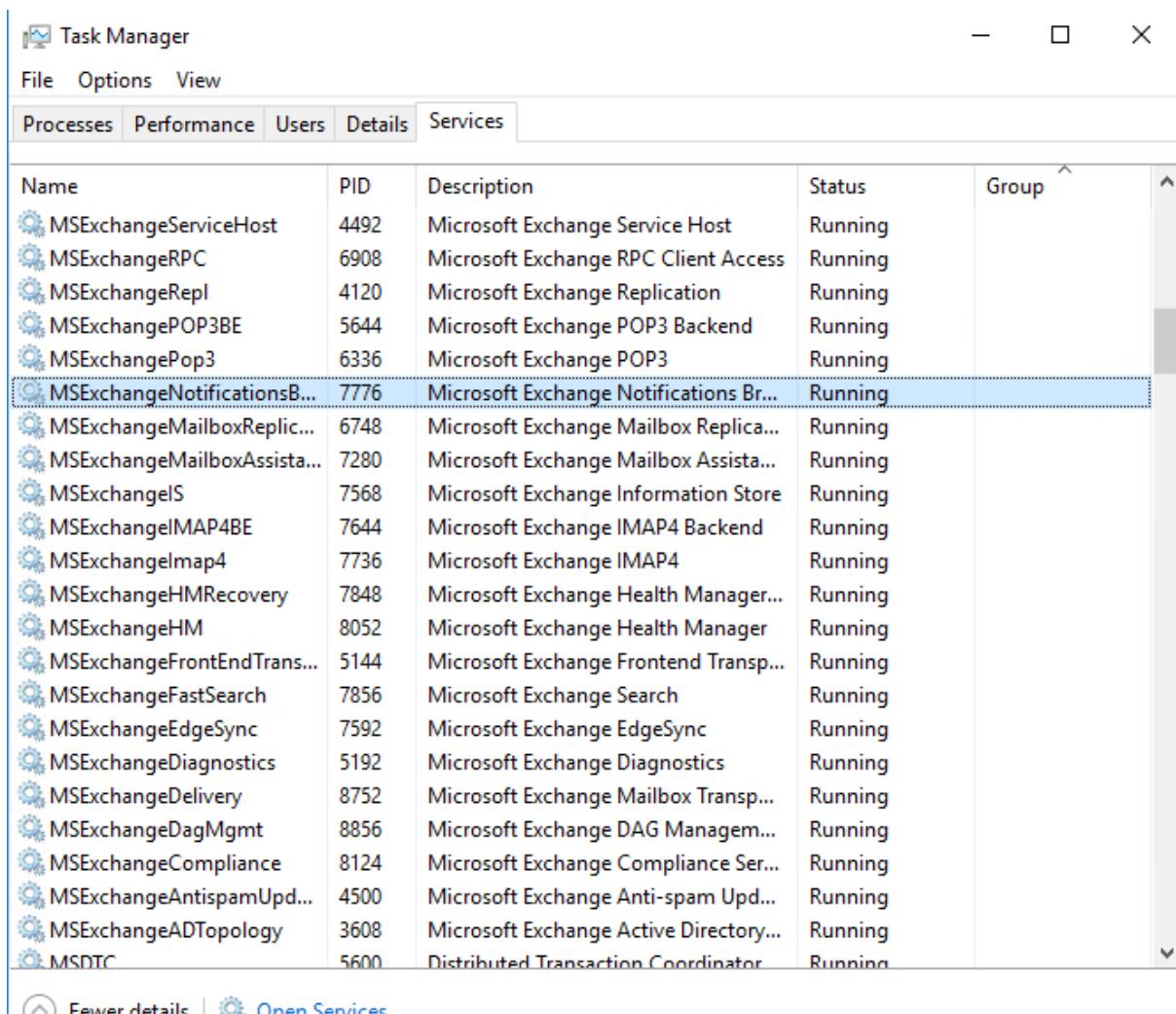
finish

5.

a. ISCSI disklerinin oluşturulması



Task Manager'da Exchange Server'a ait servisler start edilir.

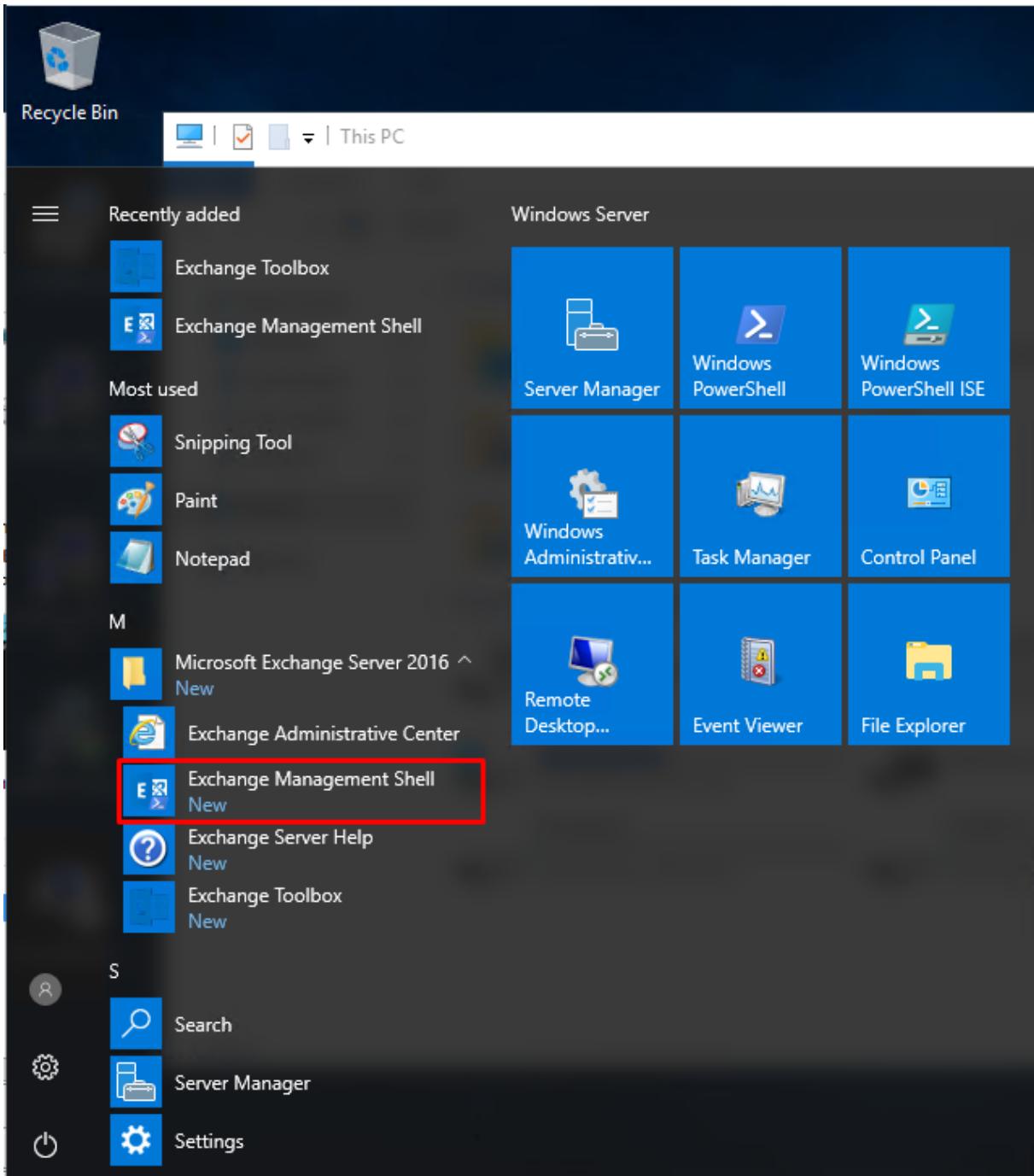


The screenshot shows the Windows Task Manager window with the 'Services' tab selected. The table lists various Microsoft Exchange services, all of which are currently running. The columns are labeled: Name, PID, Description, Status, and Group. The 'Status' column shows 'Running' for all entries. The 'Group' column is empty for most services, except for 'MSExchangeNotificationsB...' which is grouped under 'Microsoft Exchange Notifications Br...'. The services listed include: MSExchangeServiceHost, MSExchangeRPC, MSExchangeRepl, MSExchangePOP3BE, MSExchangePop3, MSExchangeNotificationsB..., MSExchangeMailboxReplica..., MSExchangeMailboxAssista..., MSExchangeIS, MSExchangeIMAP4BE, MSExchangelmap4, MSExchangeHMR, MSExchangeHM, MSExchangeFrontEndTrans..., MSExchangeFastSearch, MSExchangeEdgeSync, MSExchangeDiagnostics, MSExchangeDelivery, MSExchangeDagMgmt, MSExchangeCompliance, MSExchangeAntispamUpd..., MSExchangeADTopology, and MSDTC.

Name	PID	Description	Status	Group
MSExchangeServiceHost	4492	Microsoft Exchange Service Host	Running	
MSExchangeRPC	6908	Microsoft Exchange RPC Client Access	Running	
MSExchangeRepl	4120	Microsoft Exchange Replication	Running	
MSExchangePOP3BE	5644	Microsoft Exchange POP3 Backend	Running	
MSExchangePop3	6336	Microsoft Exchange POP3	Running	
MSExchangeNotificationsB...	7776	Microsoft Exchange Notifications Br...	Running	
MSExchangeMailboxReplica...	6748	Microsoft Exchange Mailbox Replica...	Running	
MSExchangeMailboxAssista...	7280	Microsoft Exchange Mailbox Assista...	Running	
MSExchangeIS	7568	Microsoft Exchange Information Store	Running	
MSExchangelMAP4BE	7644	Microsoft Exchange IMAP4 Backend	Running	
MSExchangelmap4	7736	Microsoft Exchange IMAP4	Running	
MSExchangeHMR	7848	Microsoft Exchange Health Manager...	Running	
MSExchangeHM	8052	Microsoft Exchange Health Manager	Running	
MSExchangeFrontEndTrans...	5144	Microsoft Exchange Frontend Transp...	Running	
MSExchangeFastSearch	7856	Microsoft Exchange Search	Running	
MSExchangeEdgeSync	7592	Microsoft Exchange EdgeSync	Running	
MSExchangeDiagnostics	5192	Microsoft Exchange Diagnostics	Running	
MSExchangeDelivery	8752	Microsoft Exchange Mailbox Transp...	Running	
MSExchangeDagMgmt	8856	Microsoft Exchange DAG Managem...	Running	
MSExchangeCompliance	8124	Microsoft Exchange Compliance Ser...	Running	
MSExchangeAntispamUpd...	4500	Microsoft Exchange Anti-spam Upd...	Running	
MSExchangeADTopology	3608	Microsoft Exchange Active Directory...	Running	
MSDTC	5600	Distributed Transaction Coordinator	Running	

5.

b.



```
New-MailboxDatabase -Name TestDB -Server -EdbFilePath
"X:\TestDB\TestDB.edb" -LogFolderPath "L:\TestDB"
```

Machine: ExC.bt.com

Welcome to the Exchange Management Shell!

Full list of cmdlets: `Get-Command`
Only Exchange cmdlets: `Get-ExCommand`
Cmdlets that match a specific string: `Help *<string>*`
Get general help: `Help`
Get help for a cmdlet: `Help <cmdlet name> or <cmdlet name> -?`
Exchange team blog: `Get-ExBlog`
Show full output for a command: `<command> | Format-List`

Show quick reference guide: `QuickRef`
VERBOSE: Connecting to ExC.bt.com.
VERBOSE: Connected to ExC.bt.com.
[PS] C:\Windows\system32>`New-MailboxDatabase -Name TestDB -Server ExC -EdbFilePath "X:\TestDB\TestDB.edb" -LogFolderPath "L:\TestDB"`

Name	Server	Recovery	ReplicationType
TestDB	EXC	False	None

WARNING: Please restart the Microsoft Exchange Information Store service on server EXC after adding new mailbox databases.

[PS] C:\Windows\system32>

Task Manager'da “MSExchange Information Store” restart edilir.(WARNING)

Name	PID	Description	Status	Group
MSMQ	2344	Message Queuing	Running	
msiserver		Windows Installer	Stopped	
MSExchangeUMCR	5716	Microsoft Exchange Unified Messaging Call Router	Running	
MSExchangeUM	5700	Microsoft Exchange Unified Messaging	Running	
MSExchangeTransportLogS...	5724	Microsoft Exchange Transport Log Search	Running	
MSExchangeTransport	5808	Microsoft Exchange Transport	Running	
MSExchangeThrottling	5864	Microsoft Exchange Throttling	Running	
MSExchangeSubmission	5948	Microsoft Exchange Mailbox Transport Submission	Running	
MSExchangeServiceHost	6020	Microsoft Exchange Service Host	Running	
MSExchangeRPC	1084	Microsoft Exchange RPC Client Access	Running	
MSExchangeRepl	1280	Microsoft Exchange Replication	Running	
MSExchangePOP3BE	2100	Microsoft Exchange POP3 Backend	Running	
MSExchangePop3	4176	Microsoft Exchange POP3	Running	
MSExchangeNotificationsB...		Microsoft Exchange Notifications Broker	Stopped	
MSExchangeMailboxReplic...	6588	Microsoft Exchange Mailbox Replication	Running	
MSExchangeMailboxAssista...	6644	Microsoft Exchange Mailbox Assistants	Running	
MSExchangeIS	6696	Microsoft Exchange Information Store	Running	
MSExchangeIMAP4BE	6748	Microsoft Exchange IMAP4 Backend	Running	
MSExchangeIMAP4	7064	Microsoft Exchange IMAP4	Running	
MSExchangeHMR	7120	Microsoft Exchange Health Manager Re	Running	
MSExchangeHM	4232	Microsoft Exchange Health Manager	Running	
MSExchangeFrontEndTrans...	1164	Microsoft Exchange Frontend Transport	Running	
MSExchangeFastSearch	5292	Microsoft Exchange Search	Running	

The context menu for the 'MSExchange Information Store' service is open, showing options: Start, Stop, **Restart** (which is highlighted with a red box), Open Services, Search online, and Go to details.

Ardından (X:) ve (L:) sürücülerini kontrol edilir.

The image displays two separate instances of the Windows File Explorer application side-by-side. Both windows have a title bar labeled 'TestDB' and a ribbon menu with 'File', 'Home', 'Share', and 'View' tabs.

Top Window (Drive X:)

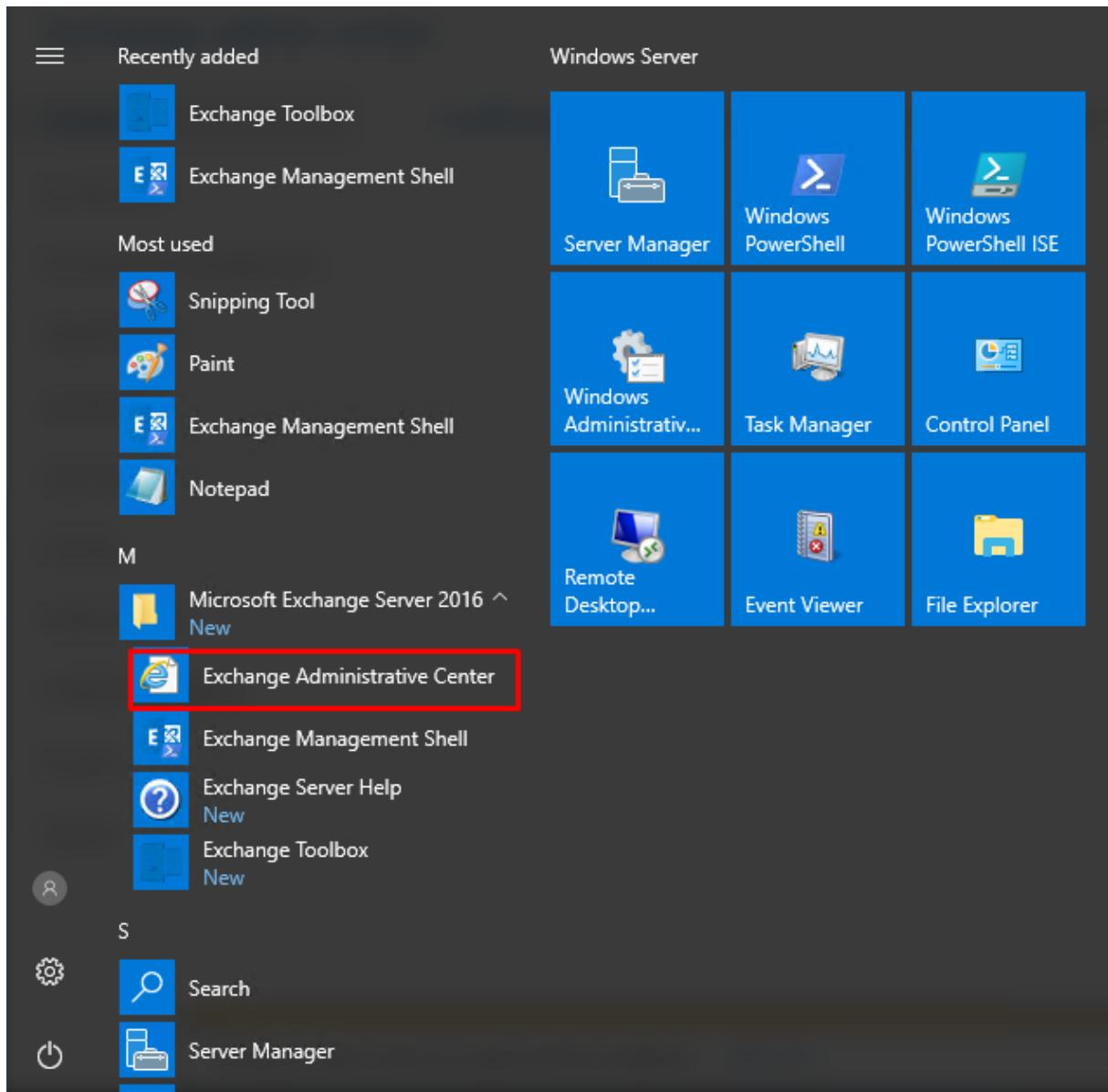
- The address bar shows the path: 'This PC > ExcDB (X:) > TestDB'.
- The left sidebar shows 'Quick access', 'Desktop', 'Downloads', 'Documents', 'Pictures', and 'This PC' (which is selected).
- The right pane lists two items:
 - A folder named '7D699757-B8C0-4B5A-8AB9-73135B1FD9...' with a date modified of 11/29/2019 12:44 ... and a size of 253,888 KB.
 - A file named 'TestDB.edb' with a date modified of 11/29/2019 11:49 ... and a size of 253,888 KB.
- The status bar at the bottom indicates '2 items'.

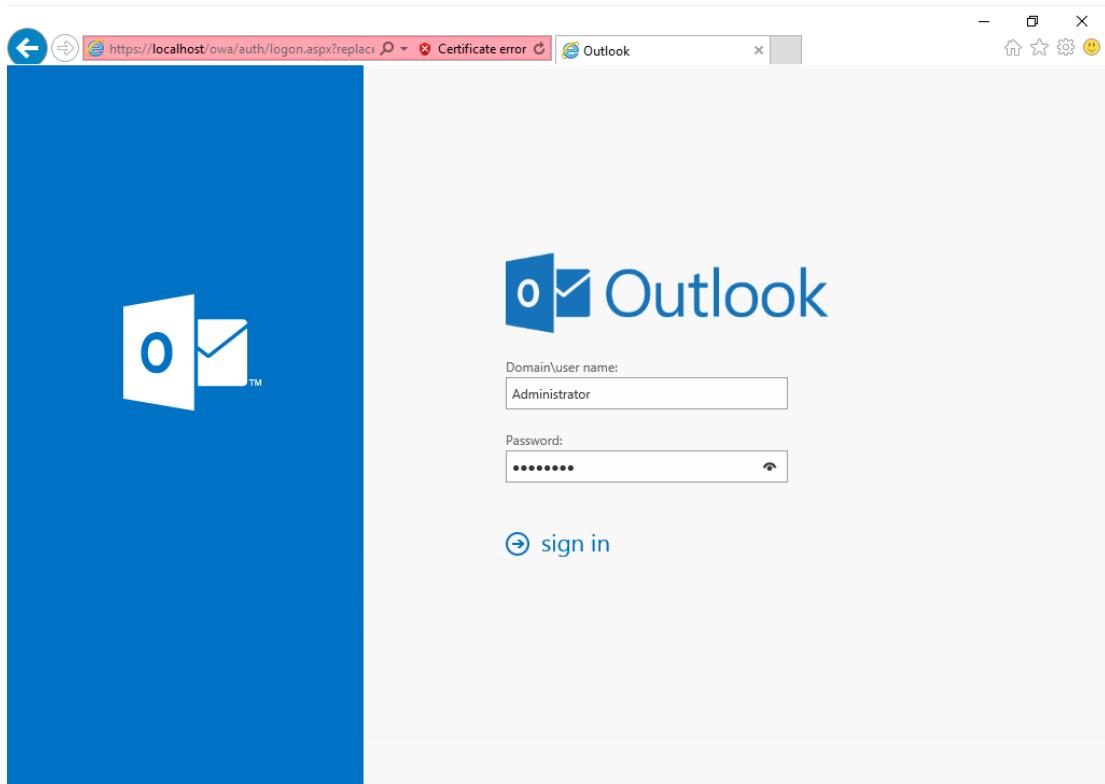
Bottom Window (Drive L:)

- The address bar shows the path: 'This PC > ExcLog (L:) > TestDB'.
- The left sidebar shows 'Quick access', 'Desktop', 'Downloads', 'Documents', 'Pictures', and 'This PC' (selected) and 'Network'.
- The right pane lists 76 text documents, all named 'E01000000014' through 'E0100000035'. Each document has a date modified between 11/28/2019 and 11/29/2019, a type of 'Text Document', and a size of 1,024 KB.
- The status bar at the bottom indicates '76 items | 1 item selected 1.00 MB'.

5.

C.





Admin ile giriş yapıldıktan sonra “Servers > database” içerisinde mailbox’ın databasesi dismount edilir. Kendi oluşturduğumuz database mount edilir.

Exchange admin center

recipients servers **databases** database availability groups virtual directories certificates

permissions

compliance management

organization

protection

mail flow

mobile

public folders

unified messaging

servers

hybrid

NAME	ACTIVE ON S...	SERVERS WITH COPIES	STATUS	B...
Mailbox Dat...	EXC	EXC	Dismounted	0
TestDB	EXC	EXC	Mounted	0

Mailbox Database 1395942037
Servers
EXC
Database copies
Mailbox Database 1395942037\EXC
Active Dismounted
Copy queue length: 0
Content index state: Failed
[View details](#)

1 selected of 2 total

Kullanıcı oluşturmak için “Recipients > mailboxes > + user mailbox” yapılır.

The screenshot shows the Exchange admin center interface. The top navigation bar includes the Microsoft logo, "Enterprise Office 365", "Administrator", and a help icon. The main header says "Exchange admin center". On the left, a sidebar menu lists categories like "recipients" (highlighted with a red box), "mailboxes" (highlighted with a red box), "permissions", "compliance management", "organization", "protection", "mail flow", "mobile", "public folders", "unified messaging", "servers", and "hybrid". The "mailboxes" section contains a table with columns "MAILBOX TYPE", "EMAIL ADDRESS", and several rows of data. A red box highlights the "User mailbox" row for "mehmtcan.topal@bt.com". Above the table is a toolbar with icons for "New", "Edit", "Delete", and "More". At the bottom of the table area, it says "0 selected of 8 total".

MAILBOX TYPE	EMAIL ADDRESS
User	Administrator@bt.com
User	m1@bt.com
User	m2@bt.com
User	m3@bt.com
User	m4@bt.com
User	m5@bt.com
User	mehmtcan.topal@bt.com
User	mert.burc@bt.com

New user mailbox creating,

User Mailbox - Internet Explorer

new user mailbox

Alias:

Existing user

New user

First name:

Initials:

Last name:

*Display name:

*Name:

Organizational unit:

*User logon name: @

*New password:

*Confirm password:

Retype the password to verify that you typed it

100%

Kullanıcı ile giriş yapıldığında “localhost/owa”yı “/ecp” ile değiştirip settings > regional kısımdan;

→ Language: English(United States)

→ Current time zone: (UTC-06:00) Central America

Olarak ayarlanır.

The screenshot shows the 'Outlook Web App' interface with the URL 'https://localhost/ecp/' in the address bar. A red box highlights the 'https://localhost/ecp/' part. A 'Certificate error' message is visible in the top right. The title bar says 'regional - Outlook Web App'. The user 'Mehmetcan Topal' is logged in.

options

- account
- organize email
- groups
- site mailboxes
- settings**
- phone
- block or allow
- add-ins

mail calendar **regional** password

Choose your language, the date and time formats to use, and your time zone.

Language: **English (United States)**

The language you choose will determine the date and time formats that are available below.

Date format: (For example, September 1, 2013 is displayed as follows)
9/1/2013

Time format:
1:01 AM - 11:59 PM

Current time zone:
(UTC-06:00) Central America

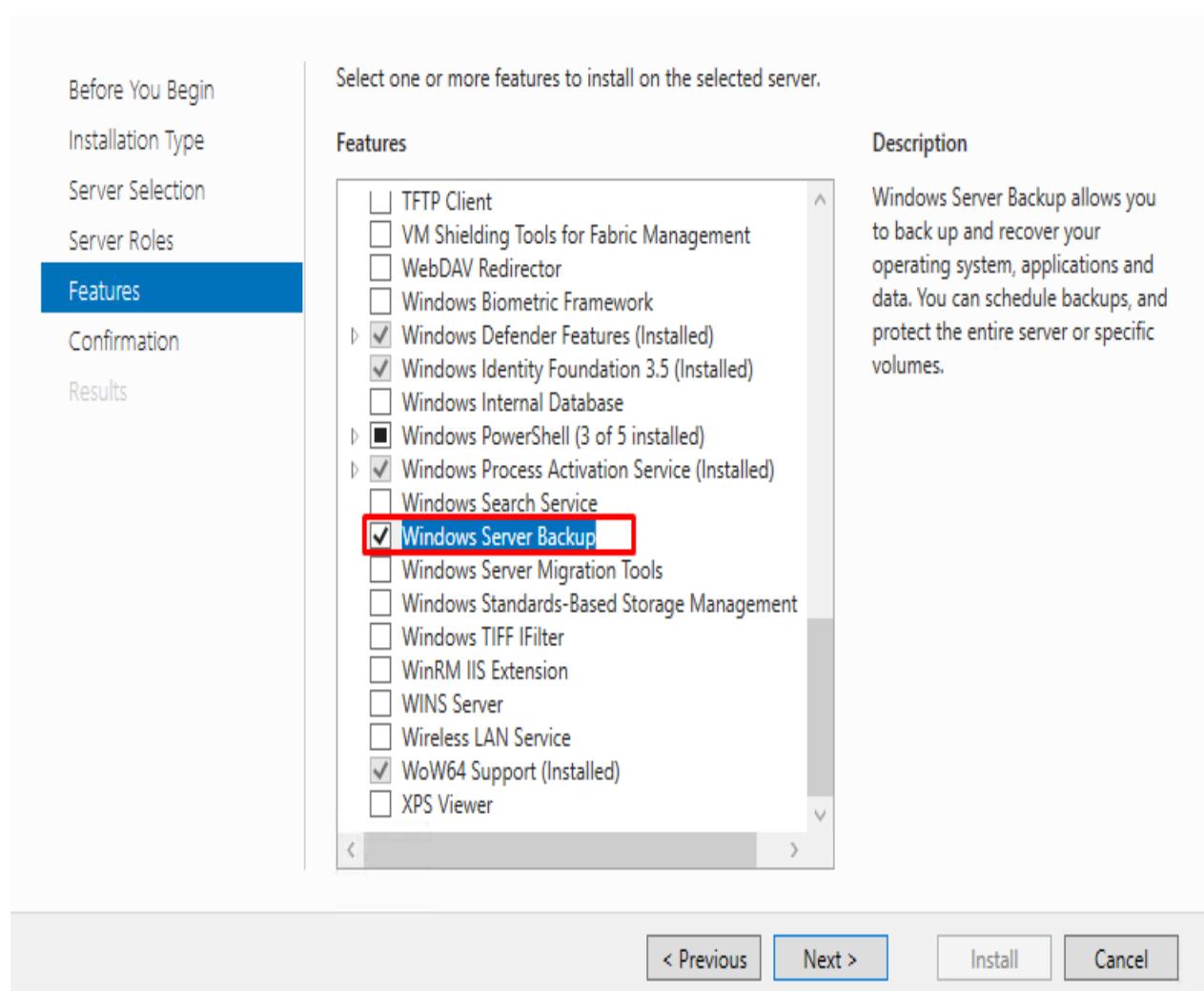
Besides changing your current time zone, you can also go to the [Calendar](#) settings in Options to change the start and end times of your work week to match your time zone.

Save

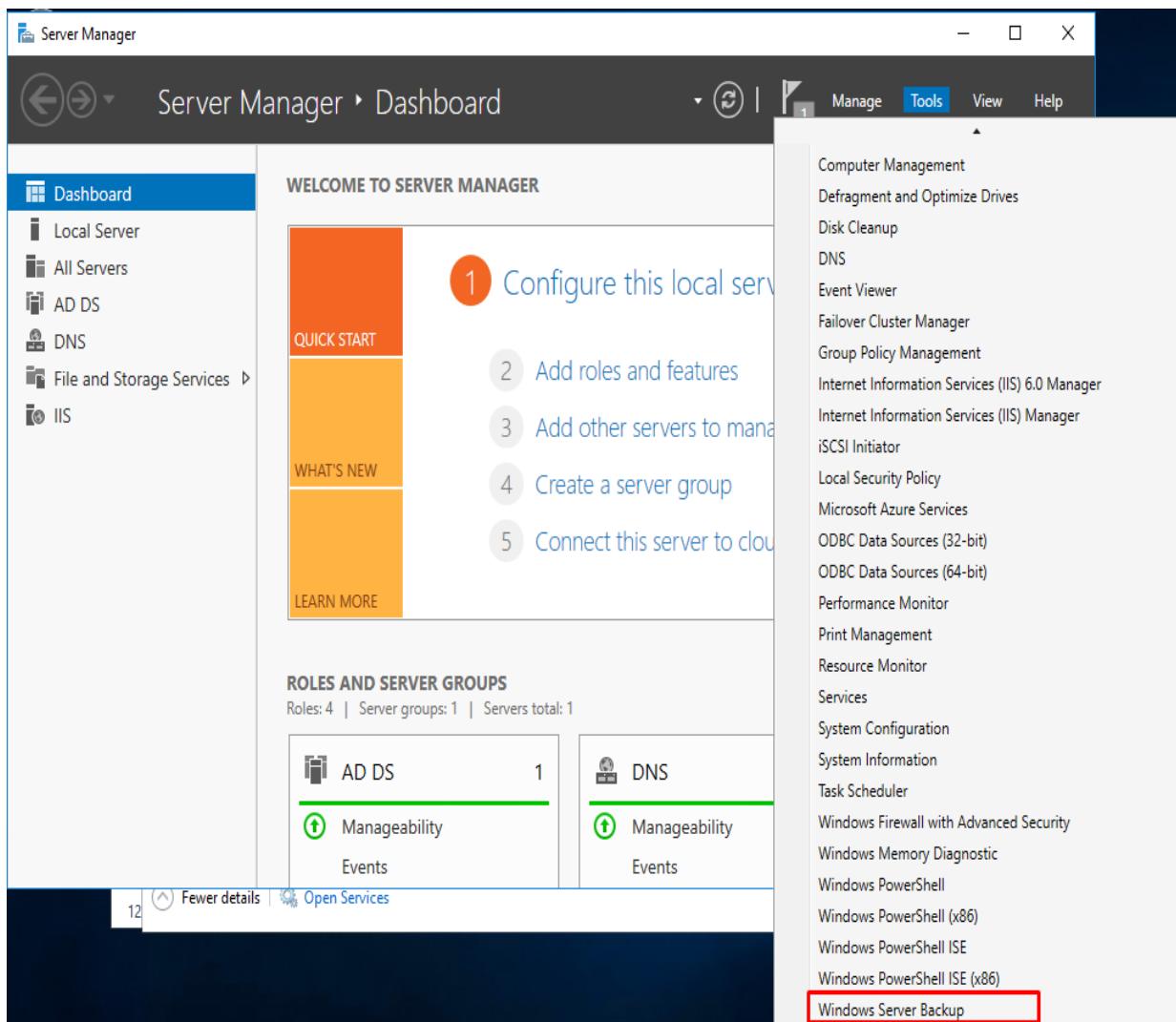
5.

d.

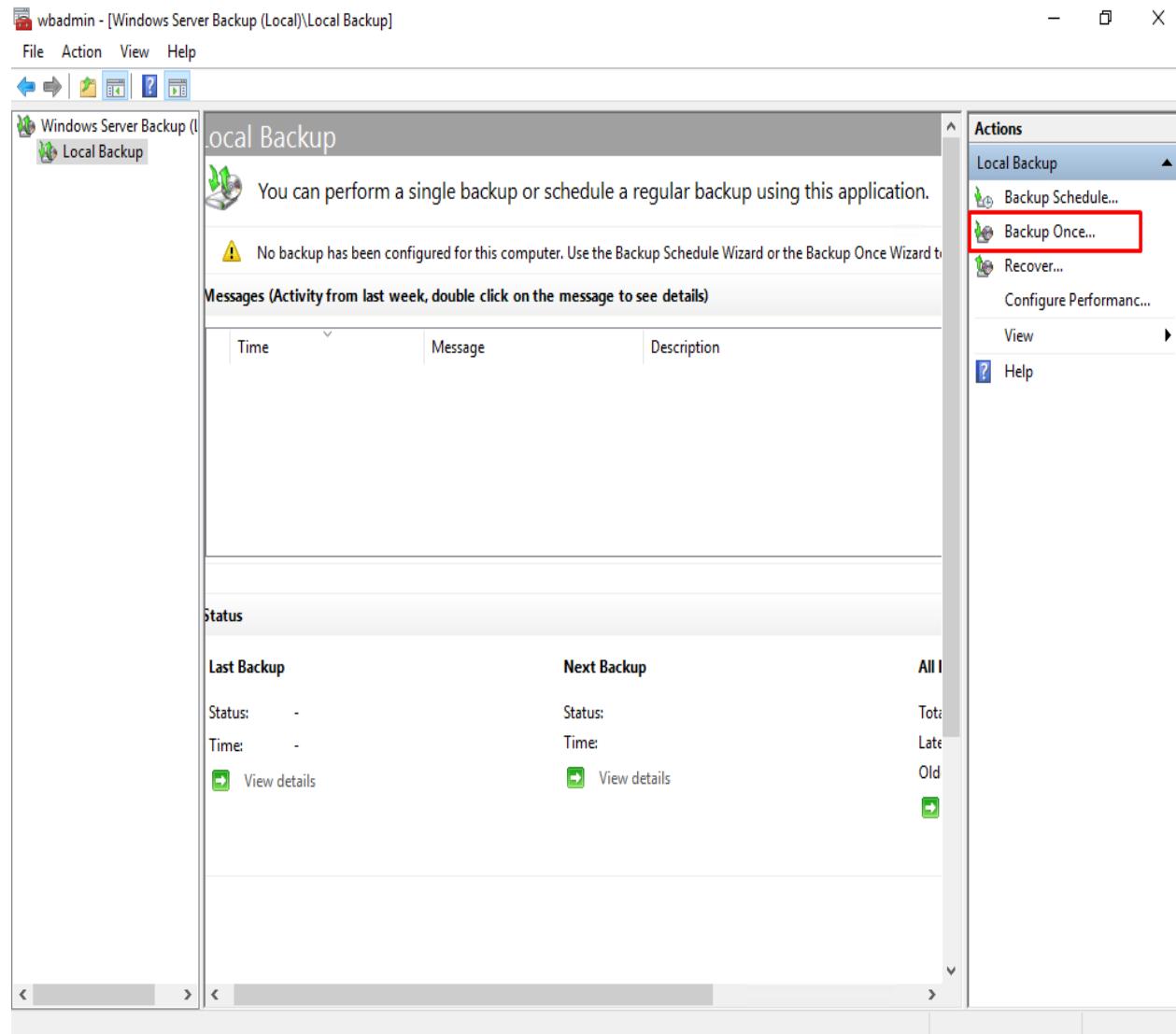
Backup yedeklemesi yapılması için Featureslardan Windows Server Backup eklenir.



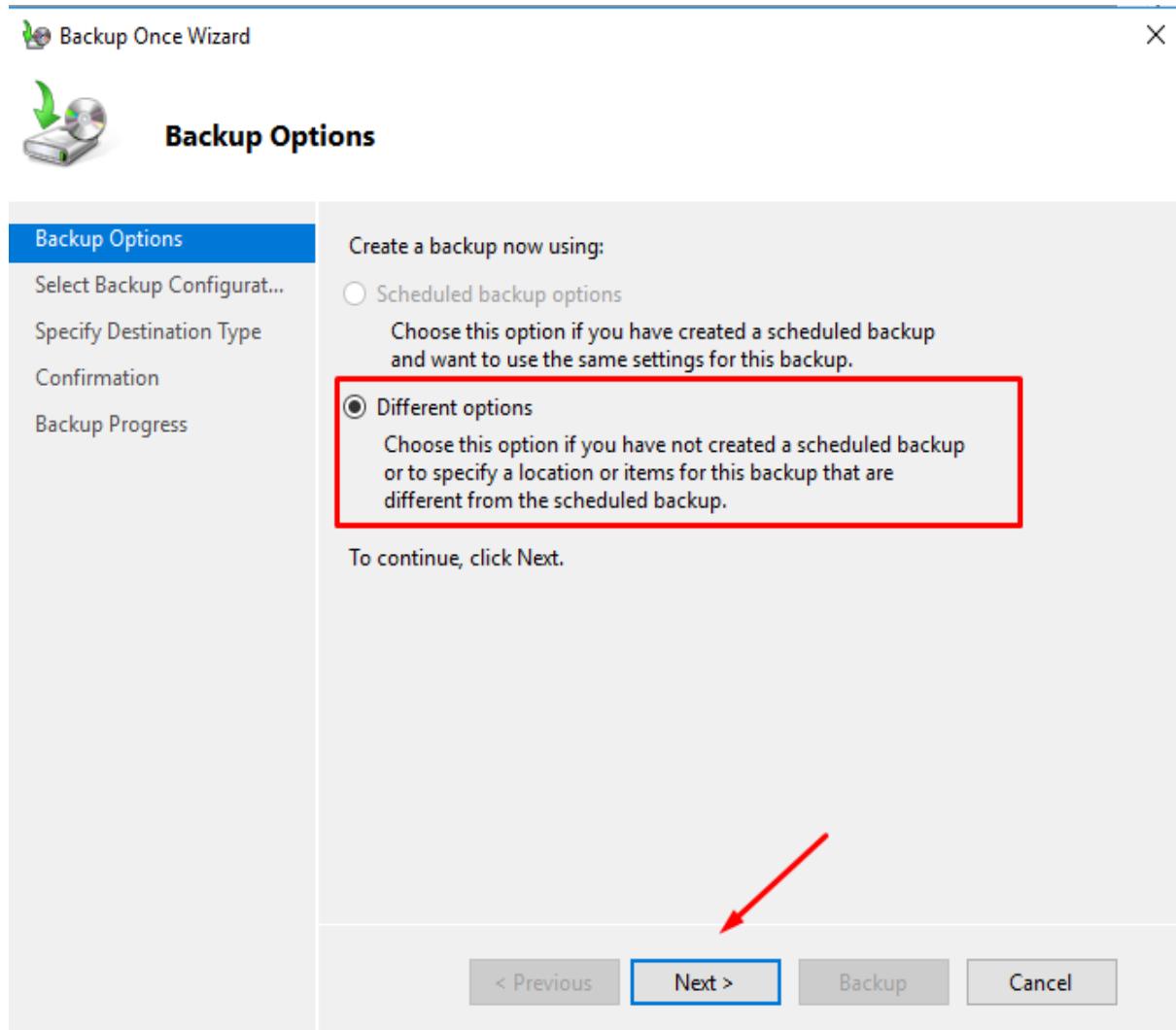
Server Manager > Tools > Windows Server Backup



Backup önce seçilir.

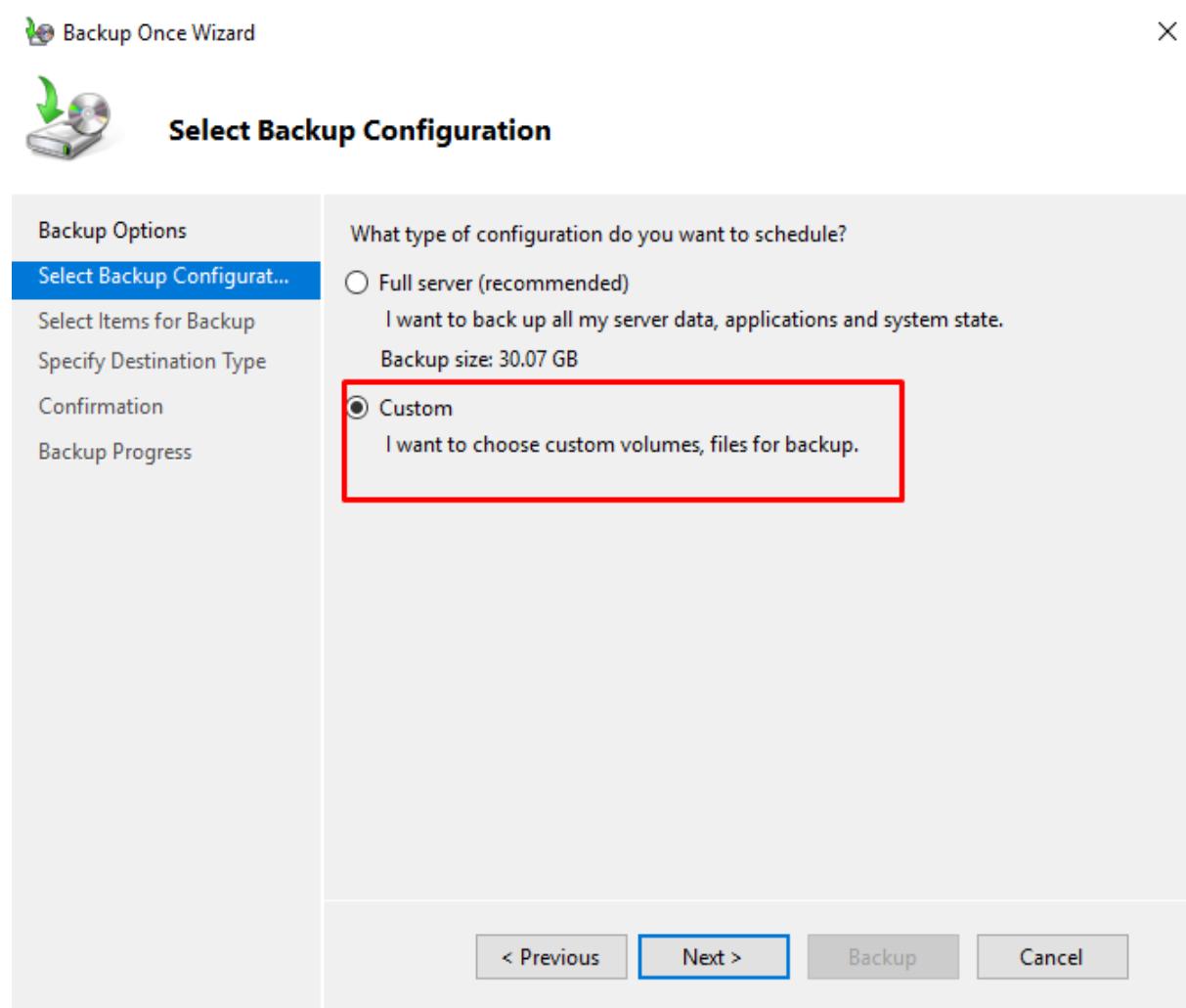


Windows Server Backup > Backup Once Wizard > Backup Options > Different options seçilir.



Windows Server Backup > Backup Once Wizard > Select Backup Configuration > Custom

Backup yapmak istediğimiz sürücü volumelerini belirlemek için “custom” seçilir.

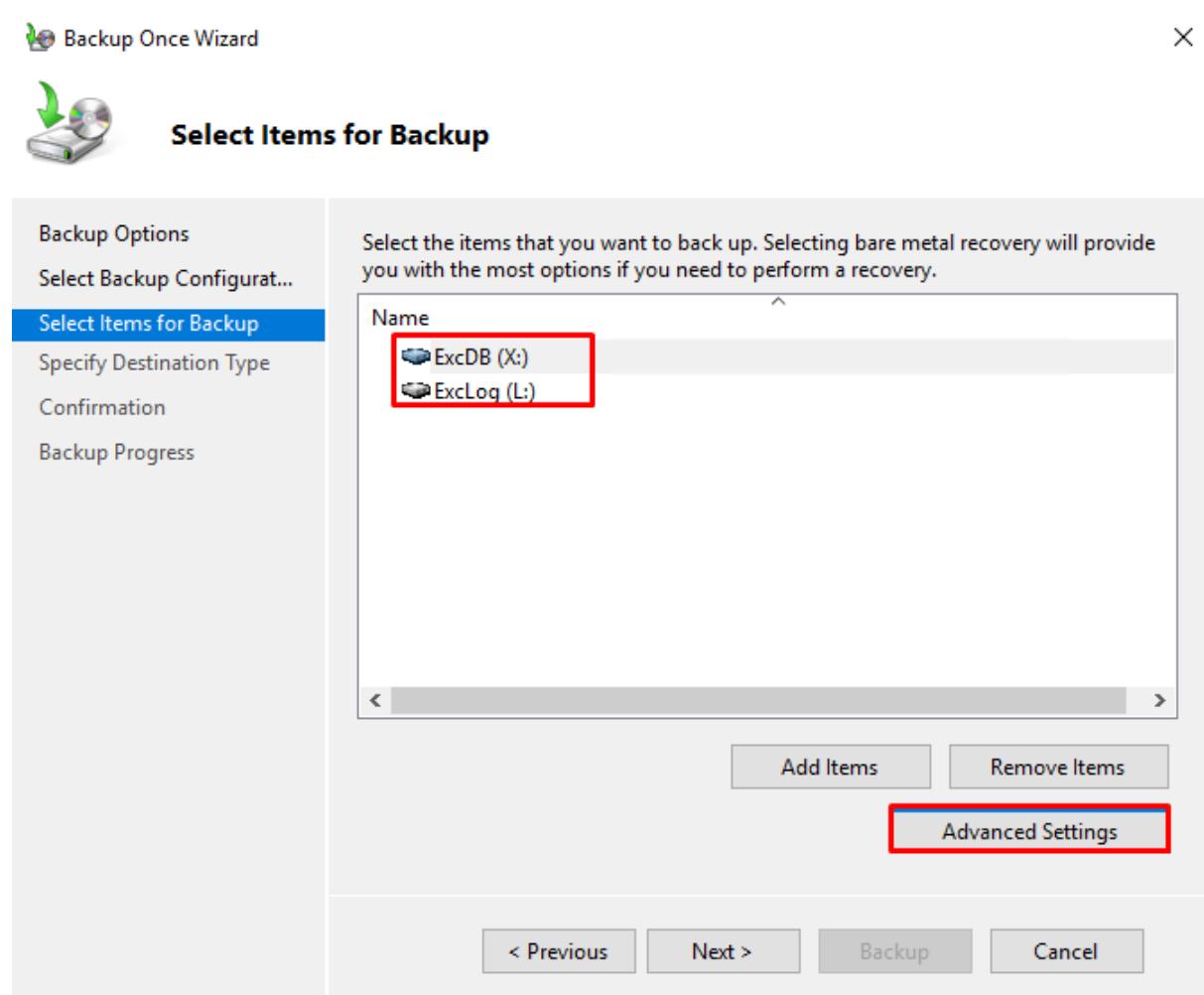


Windows Server Backup > Backup Once Wizard > Select Items for Backup

Backup yapılacak olan disk drivelarımız seçilir.

- ExcDB(X:)
- ExcLog(L:)

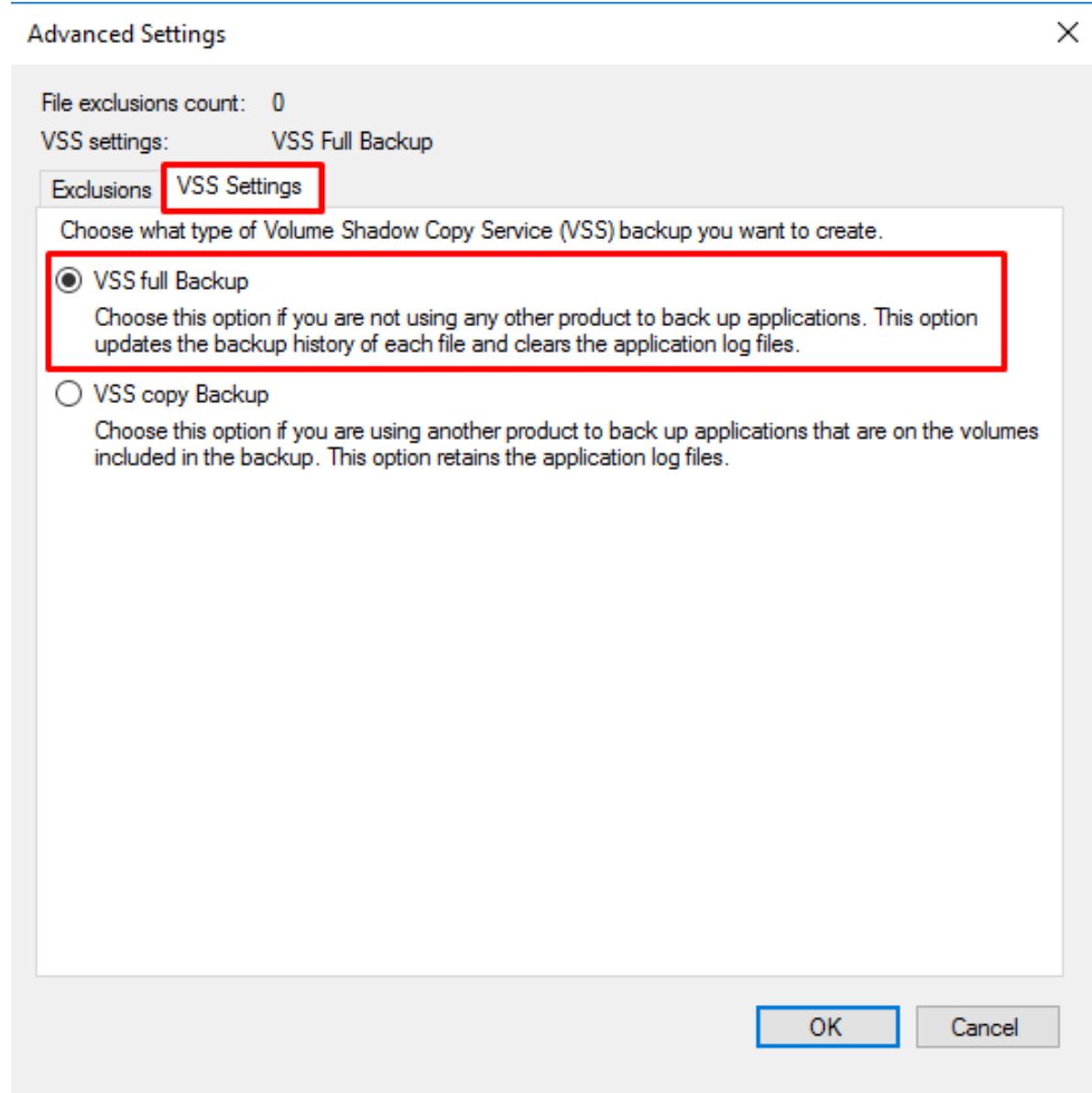
Advanced Settings'den ayarlar gerçekleştirilir.



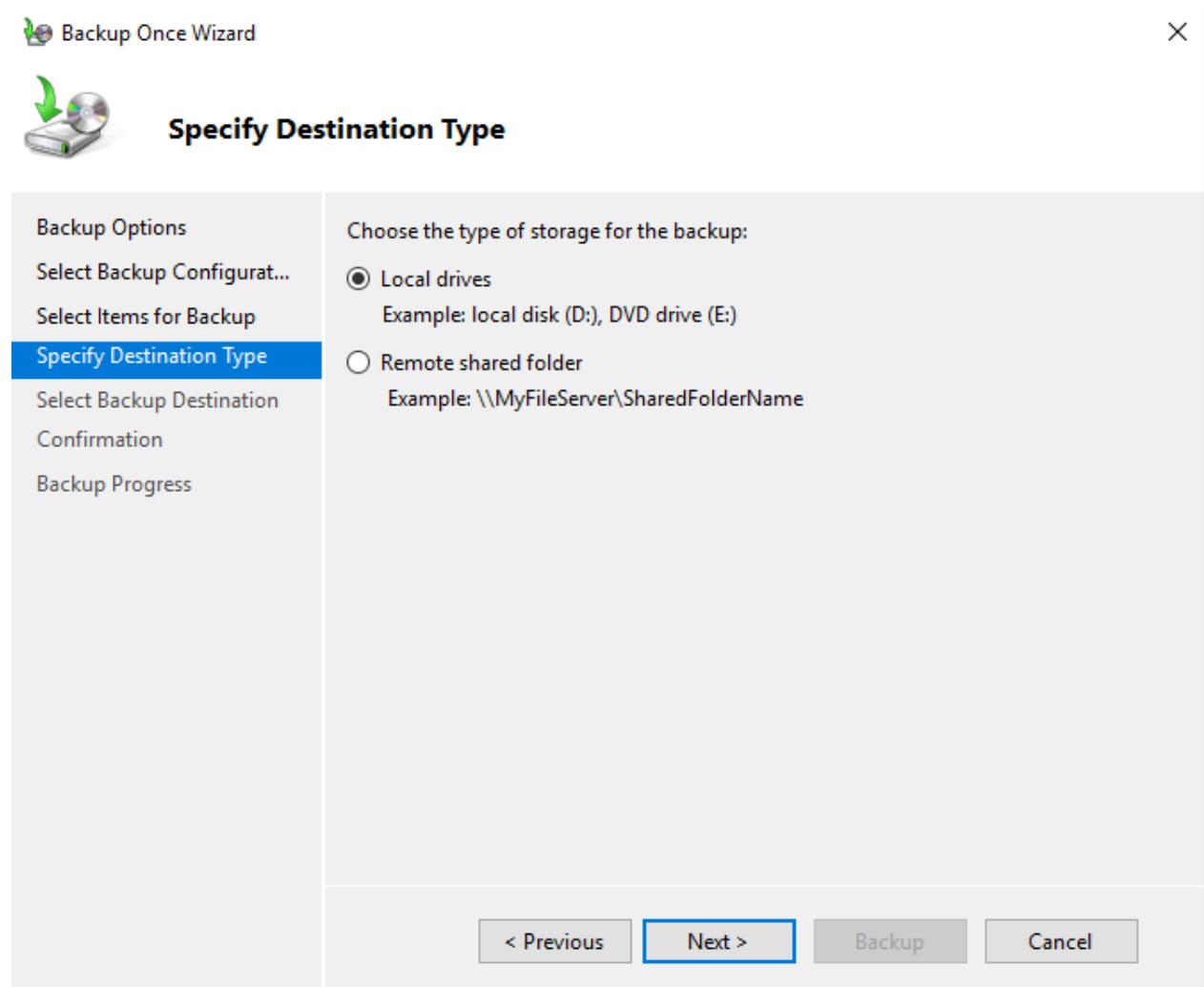
Windows Server Backup > Backup Once Wizard > Select Items for Backup

Advanced Settings > VSS Settings

Full Backup yapılacak bu sebeple seçilir.



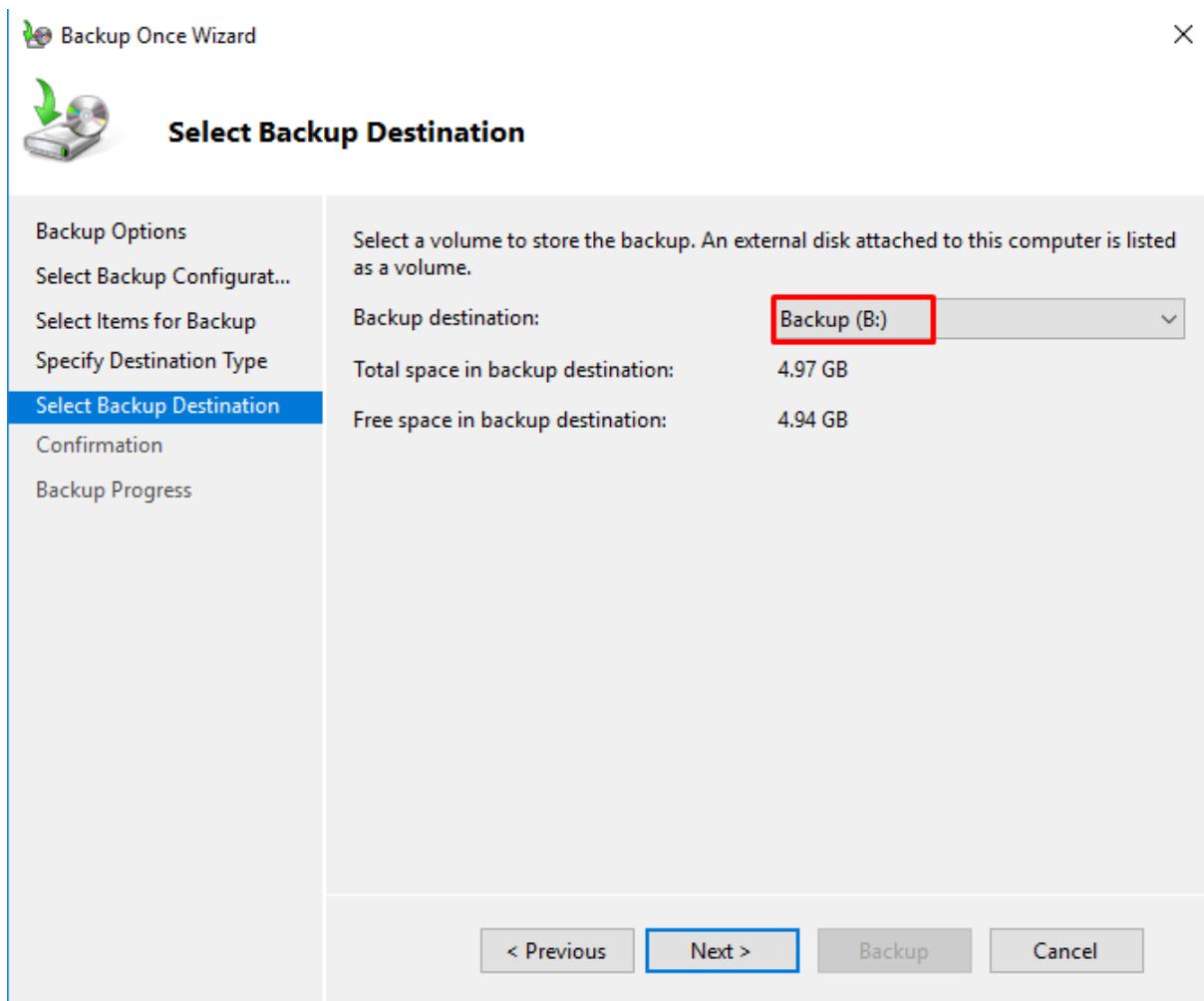
Windows Server Backup > Backup Once Wizard > Specify Destination Type >
Local drives seçilir.



Windows Server Backup > Backup Once Wizard > Select Backup Destination

Backup'ı gerçekleştireceğimiz hedef disk drive belirlenir.

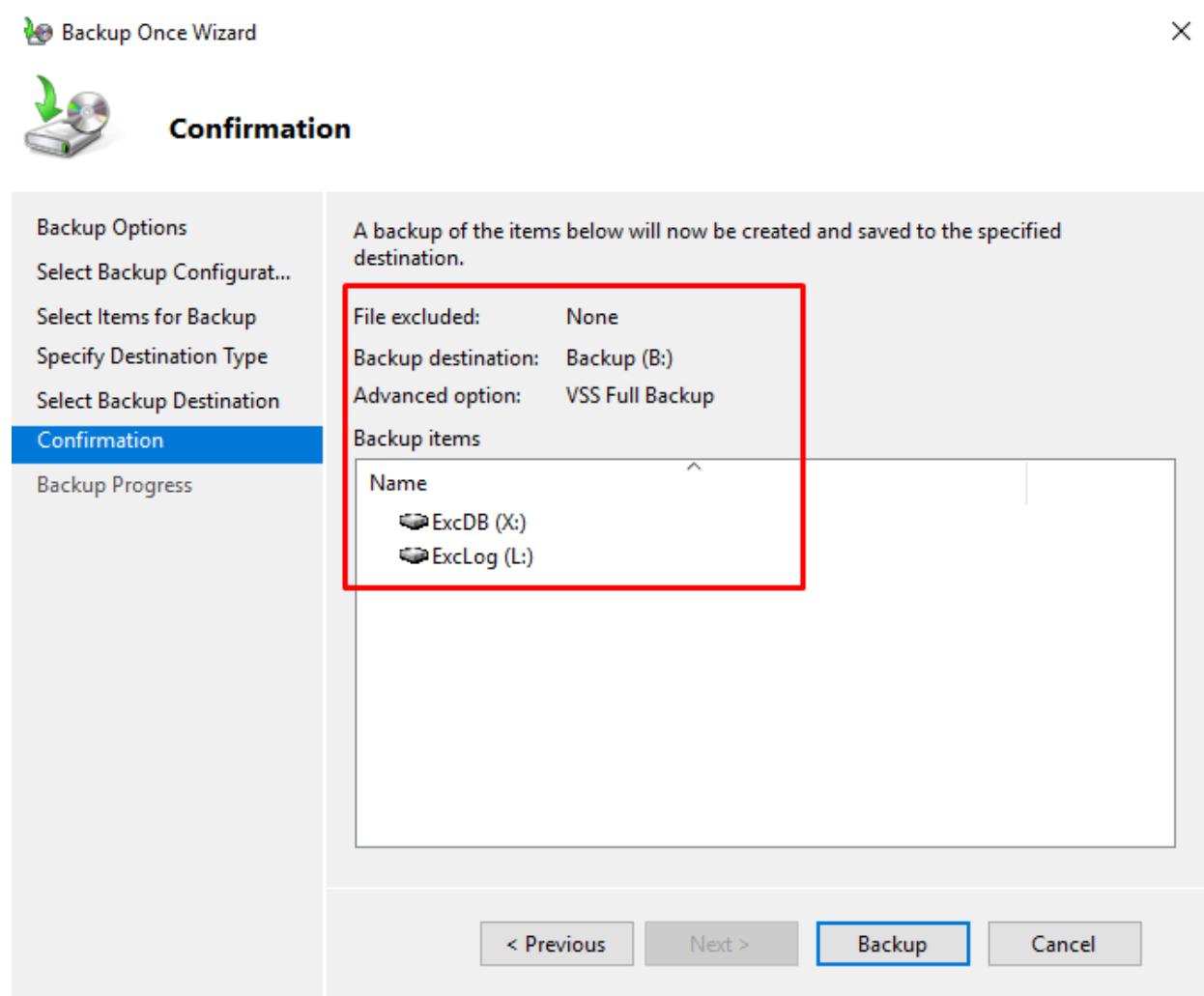
Toplam alanı ve boş alanın değerlerini görebiliriz.



Windows Server Backup > Backup Once Wizard > Confirmation

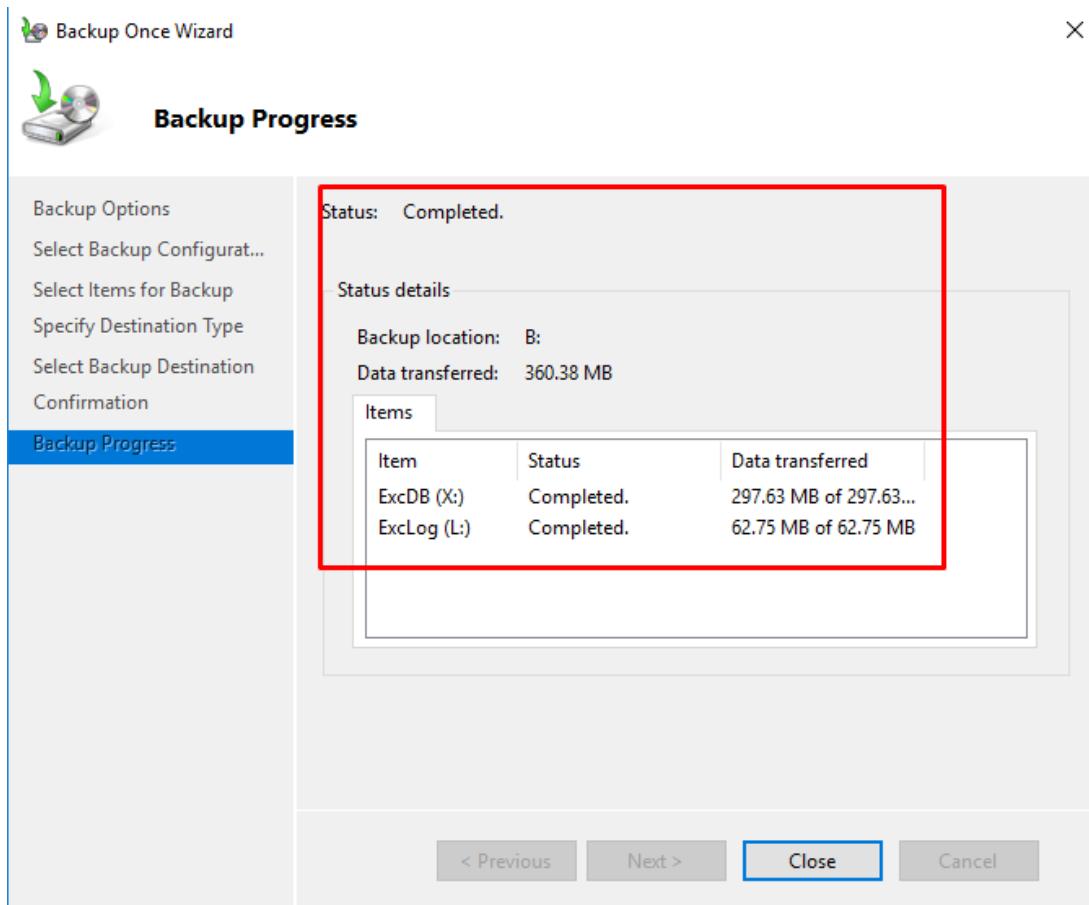
Backup yapılacak disk drivelarımız ve hedef özelliği ile gösterilir.

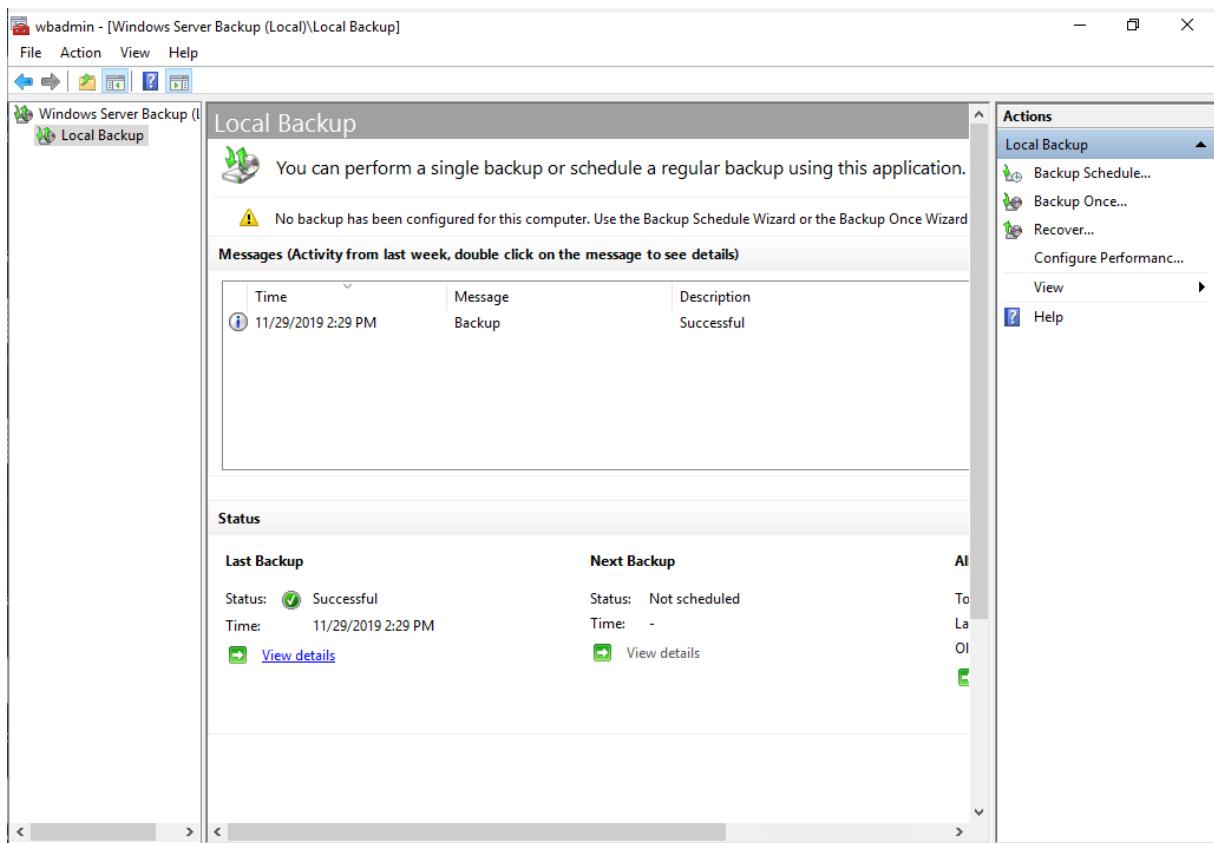
Backup seçilerek işlem gerçekleştirilir.



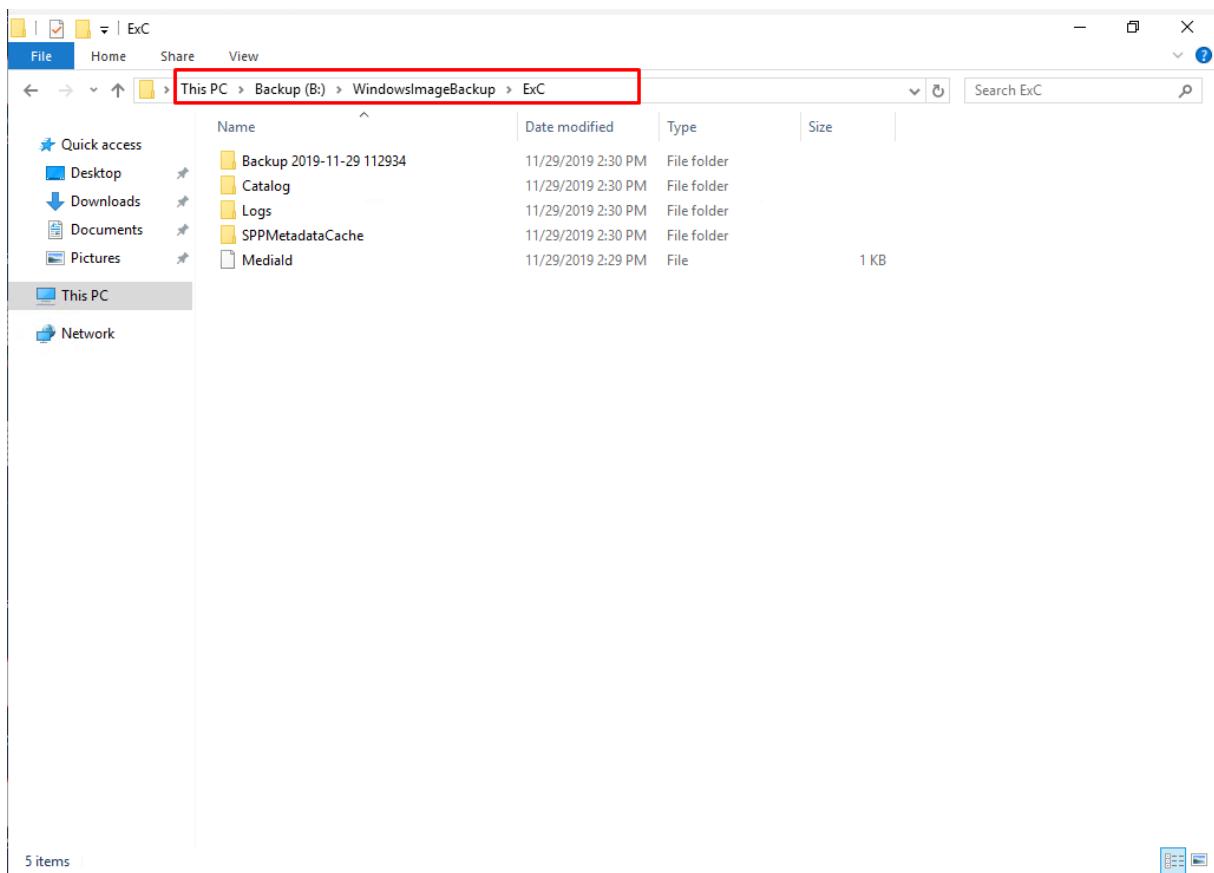
Windows Server Backup > Backup Once Wizard > Backup Progress

Status:Completed.





Backup sürücüsü içerisinde backup yapılan dosyalar gelmiş olur.



6.

Yeni user mailbox oluşturulur.

The screenshot shows the Exchange admin center interface. On the left, a sidebar lists various administrative categories: recipients, mailboxes, permissions, compliance management, organization, protection, mail flow, mobile, public folders, unified messaging, servers, and hybrid. The 'recipients' and 'mailboxes' items are highlighted with red boxes. The main content area displays a table for managing mailboxes. The table has columns for 'MAILBOX TYPE' and 'EMAIL ADDRESS'. A row is selected, showing 'User mailbox' in the type column and 'Administrator@body.local' in the email address column. To the right of the table, a detailed view of the selected mailbox is shown, including fields for Title, Office, Work phone, and links to Phone and Voice Features, Unified Messaging settings (disabled), and mobile device management options like ActiveSync and OWA. At the bottom of the table area, it says '1 selected of 1 total'.

MAILBOX TYPE	EMAIL ADDRESS
User	Administrator@body.local

Administrator

User mailbox
Administrator@body.local

Title:
Office:
Work phone:

Phone and Voice Features
Unified Messaging: Disabled
Enable
Mobile Devices
Disable Exchange ActiveSync
Disable OWA for Devices
View details

1 selected of 1 total

New User Mailbox özellikleri,

User Mailbox - Internet Explorer

new user mailbox

New user

First name:
Mehmetcan

Initials:

Last name:
Topal

*Display name:
Mehmetcan Topal

*Name:
Mehmetcan Topal

Organizational unit:

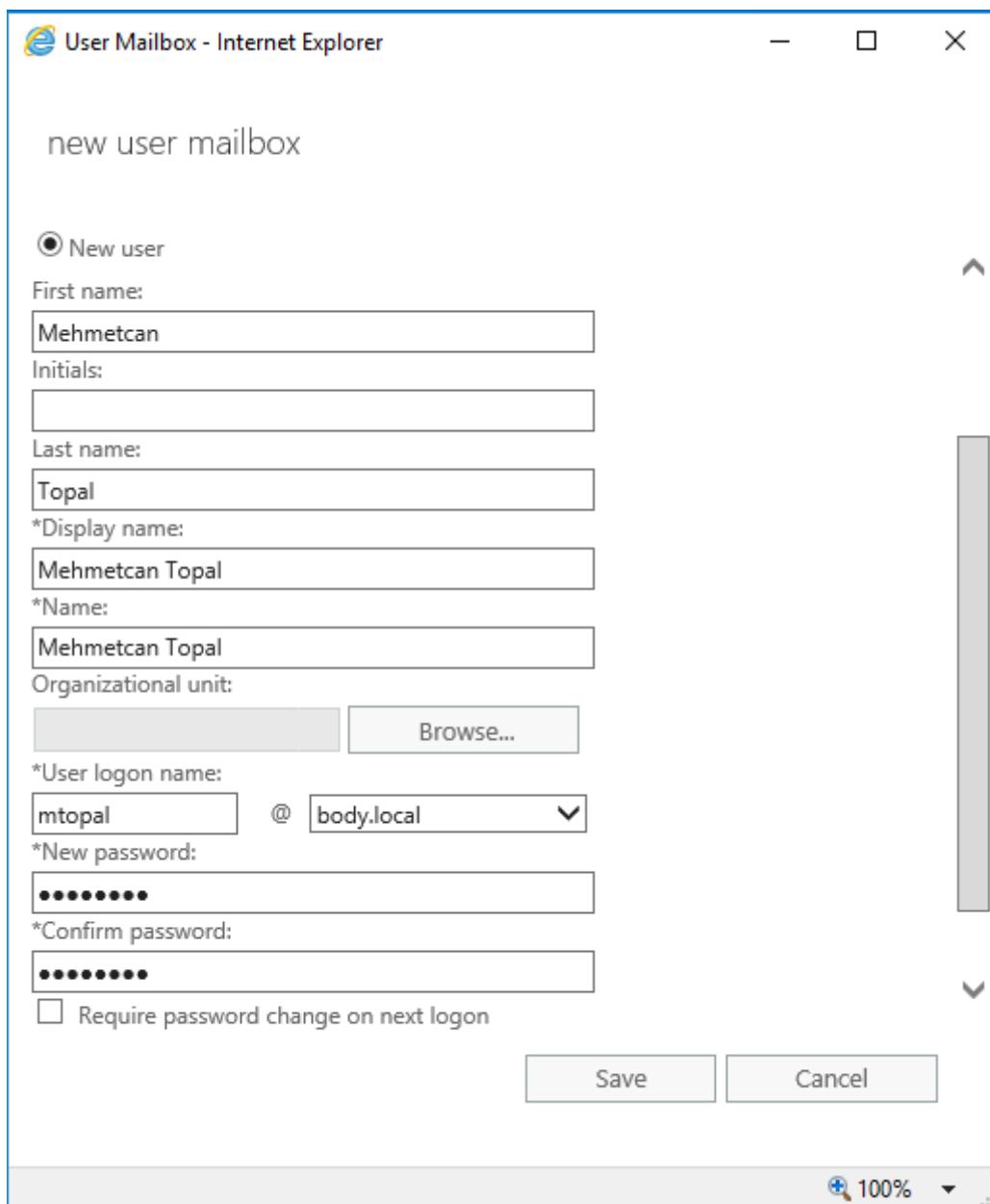
*User logon name:
mtopal @ body.local ✓

*New password:

*Confirm password:

Require password change on next logon

100%



7.

Aynı domaindeki kullanıcılar birbirlerine mail atabilir.

The screenshot shows the Microsoft Outlook Mail interface. The top navigation bar includes 'Mail', 'Search Mail and People', and various action buttons like 'New', 'Delete', 'Archive', 'Junk', 'Sweep', 'Move to', 'Categories', '...', 'Undo', and user profile icons. The left sidebar has sections for 'Favorites' (Inbox, Sent Items, Drafts) and 'Mehmetcan Topal' (Inbox, Drafts, Sent Items, Deleted Items, Junk Email, Notes). The main area is titled 'Inbox' with a 'Filter' dropdown. An incoming email from 'Evil Terman' is listed, with the subject 'sdgsdgsdg' and the body text 'aadfasdf'. The email was received 'Today, 7:22 AM' and is addressed to 'Mehmetcan Topal'. A 'Reply all' button is visible next to the recipient's name.

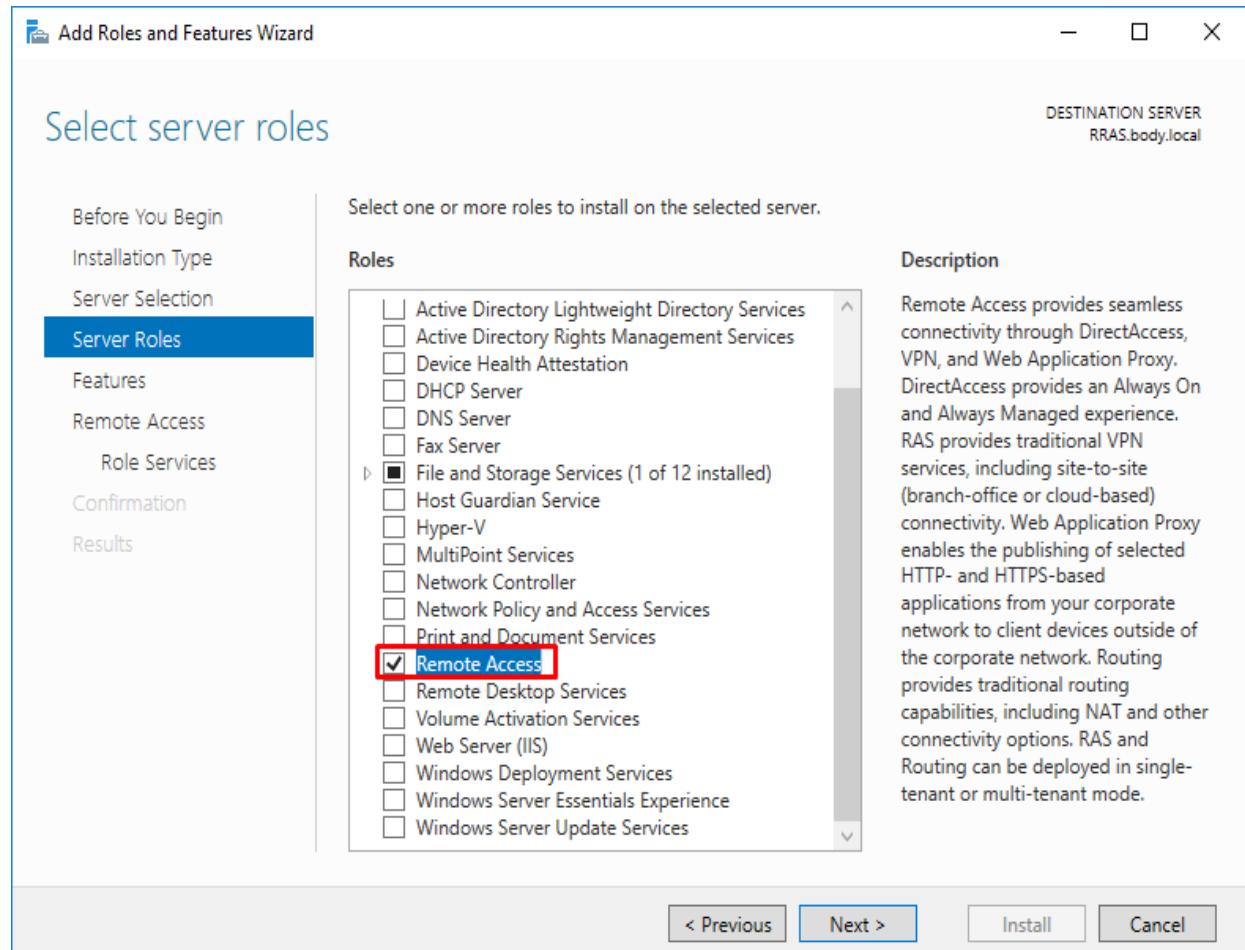
8.

RRAS server kurulumu gerçekleştirilir.

Server Manager > Add Roles and Features Wizard > Server Roles

→ Remote Access

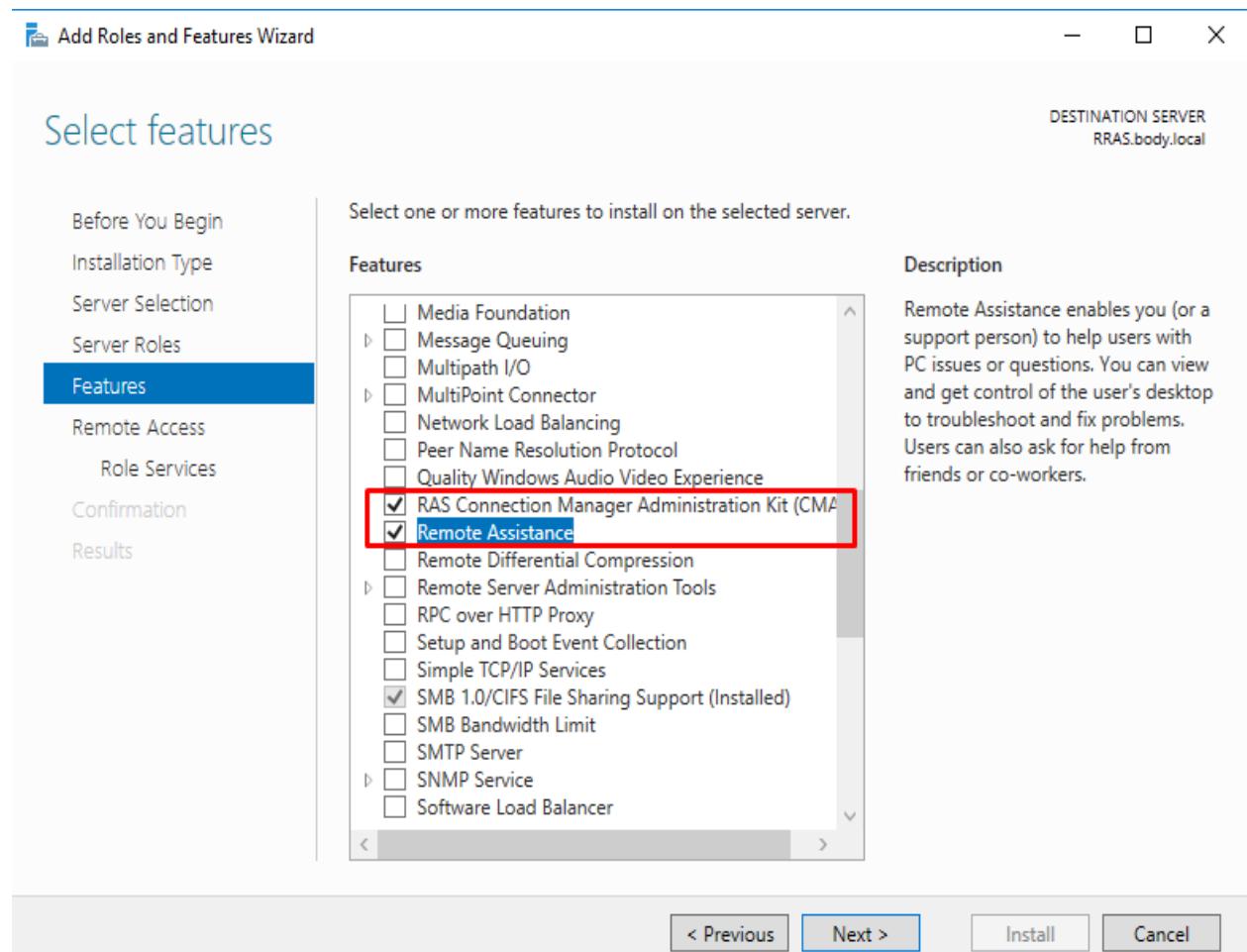
Next seçilir.



Server Manager > Add Roles and Features Wizard > Select features

→ RAS Connection Manager Administration Kit

→ Remote Assistance



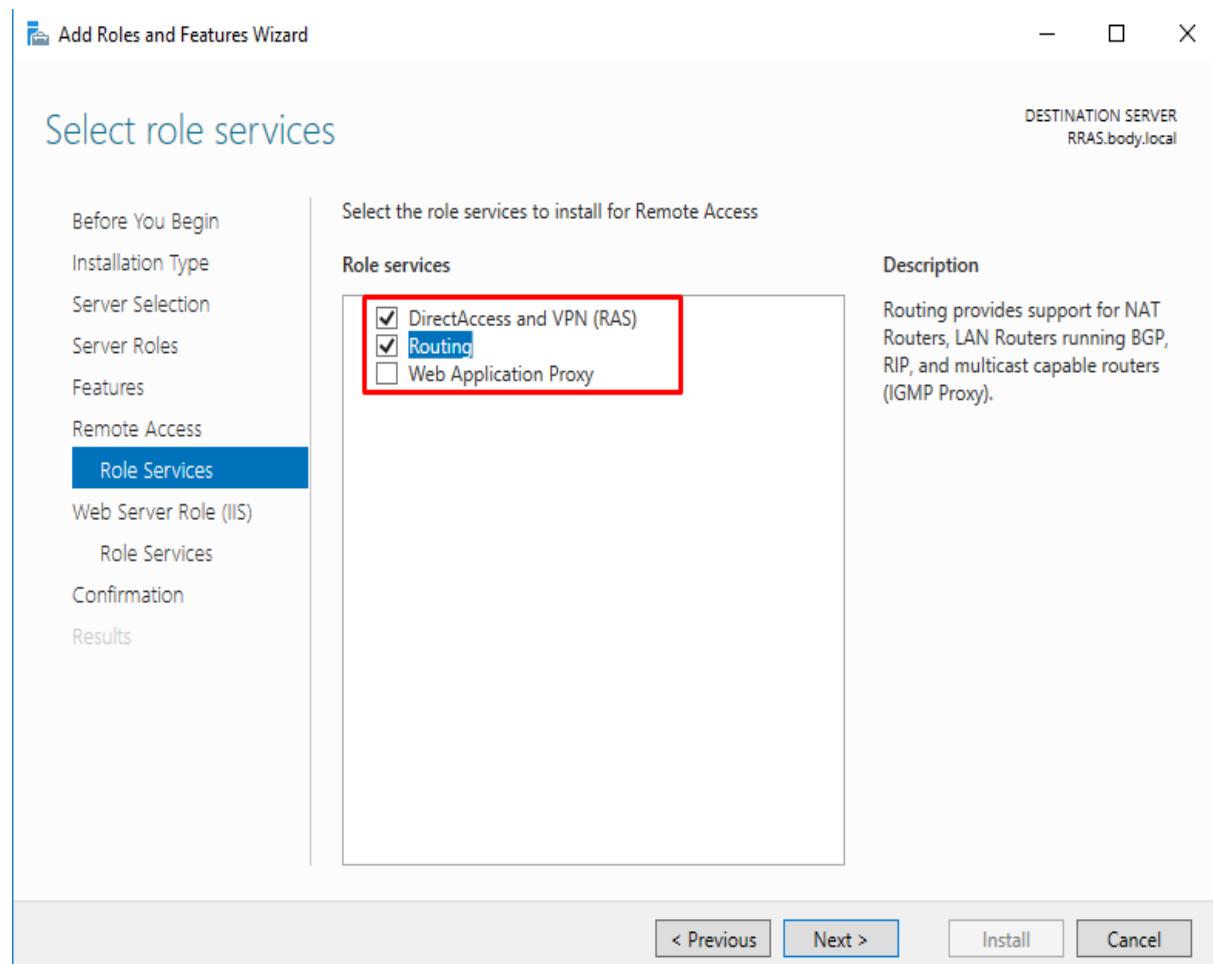
Server Manager > Add Roles and Features Wizard > Remote Access

Role services

→ DirectAccess and VPN(RAS)

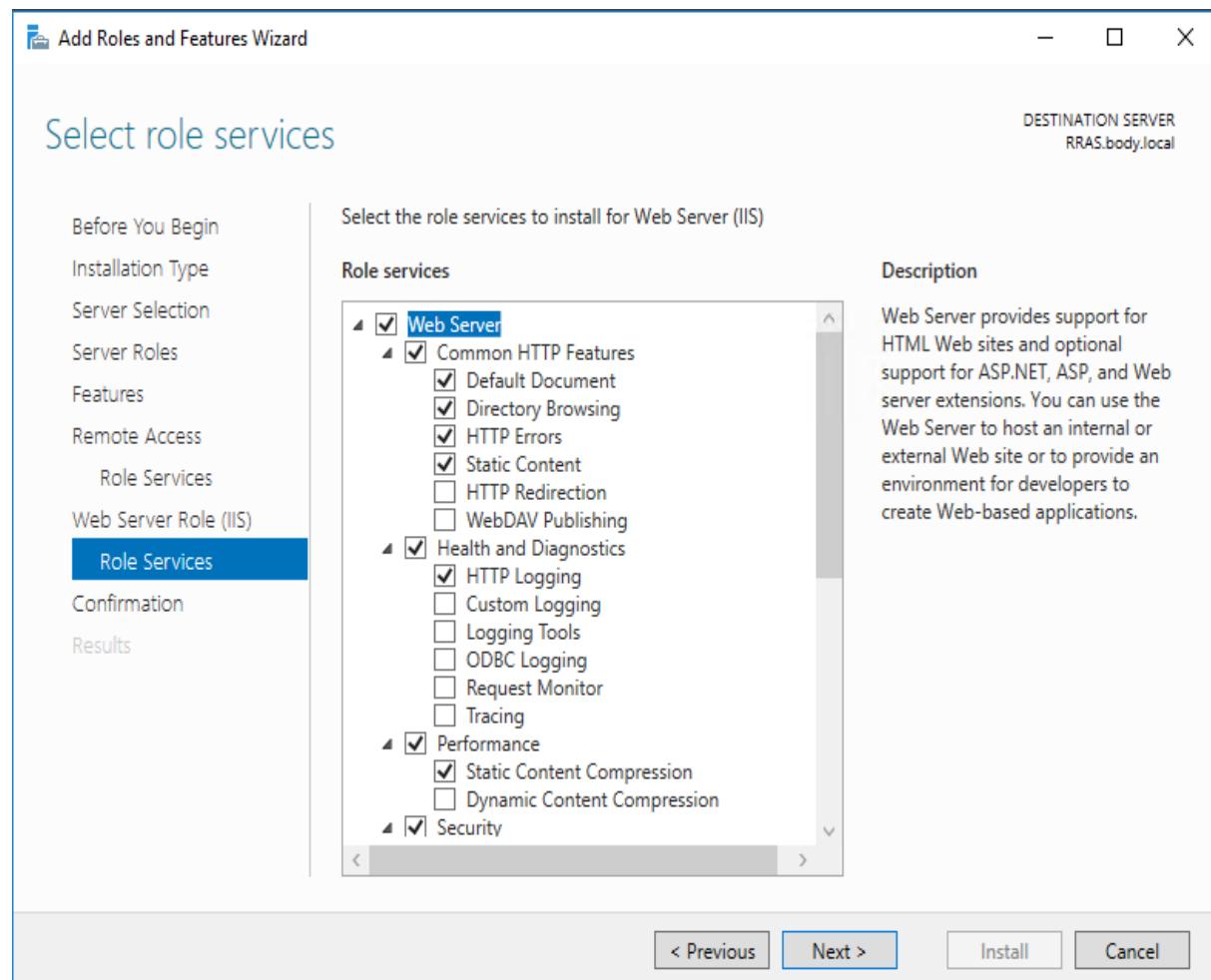
→ Routing

Bu topolojide yeterli olacağı için seçilir.



Server Manager > Add Roles and Features Wizard > Web Server Role (IIS)

Default ayarlarımız zaten belirlenmiş bir şekilde karşımızda ve next ile devam edilir.

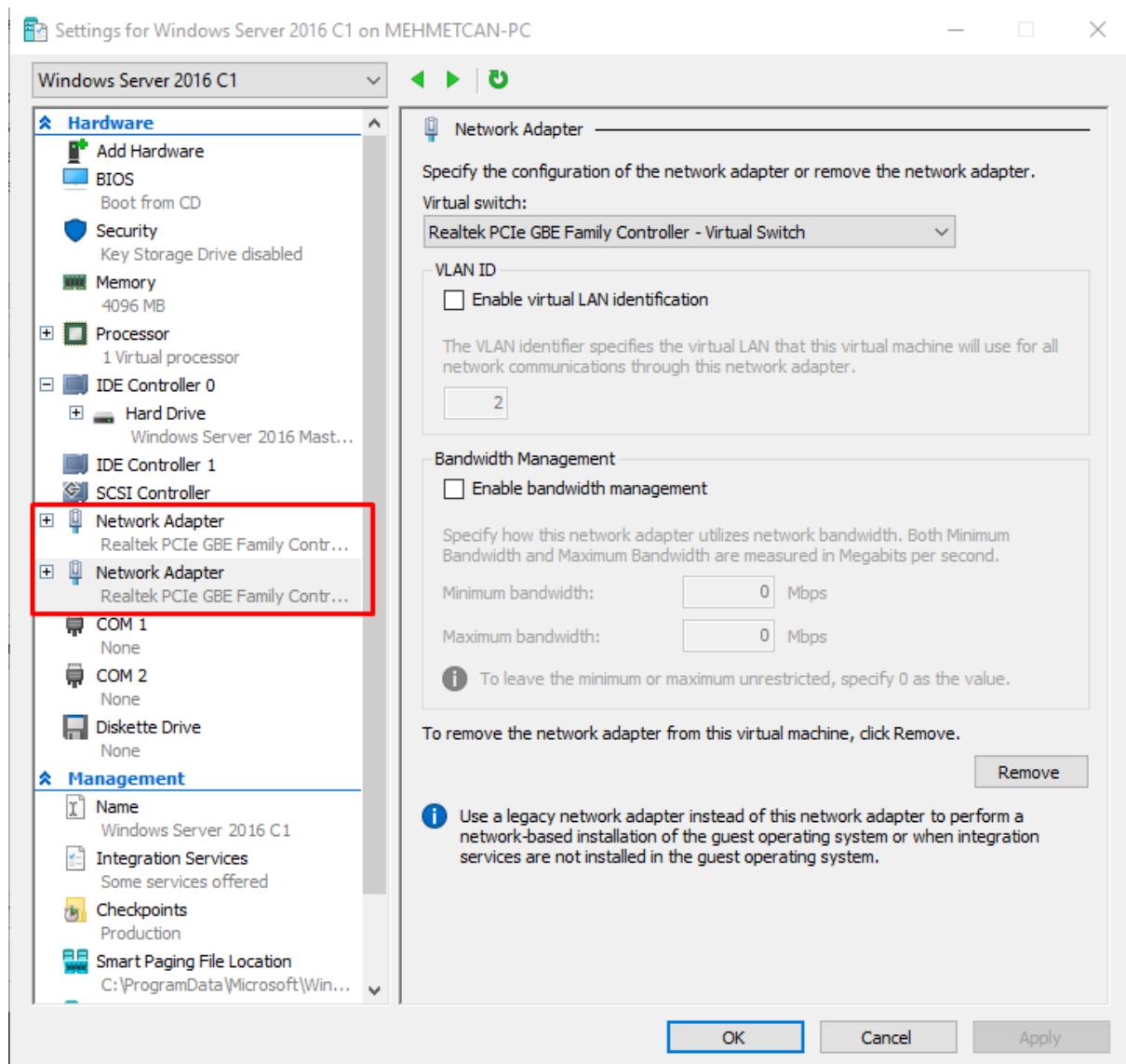


8.

a.

RRAS server olacak olan sunucumuzda NIC kartlarımız için iki tane Network Adapter eklenir.

Internal ve external şeklinde ilerideki basamaklarda şekillenecektir.

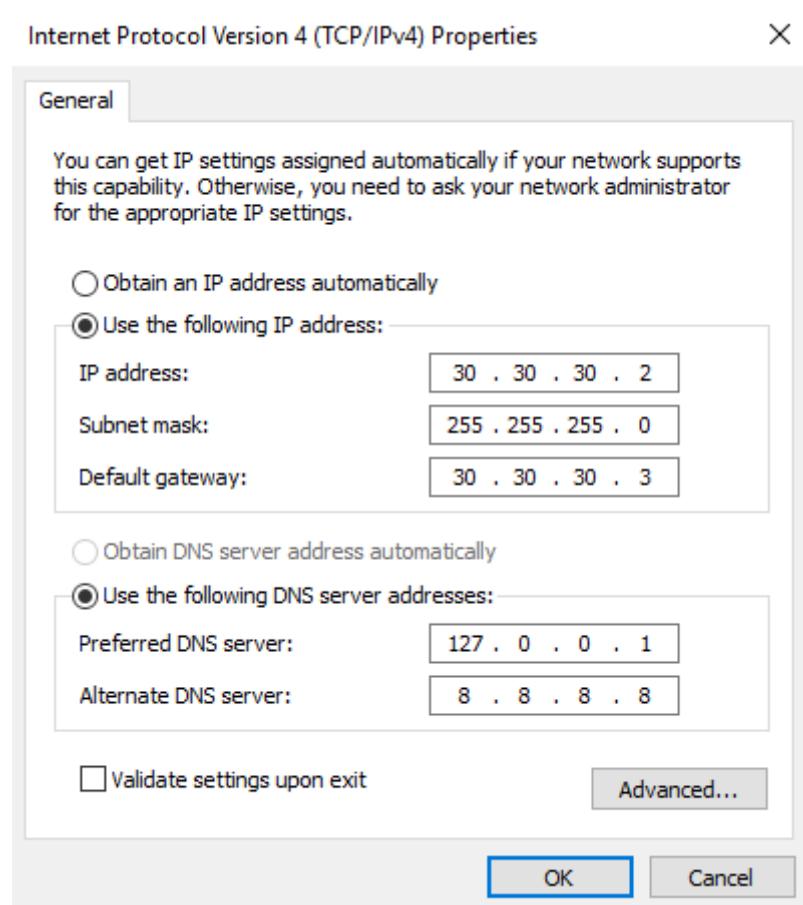


9.

RRAS IP'si GW(Gateway) olacak şekilde DC'de konfigüre edilir.

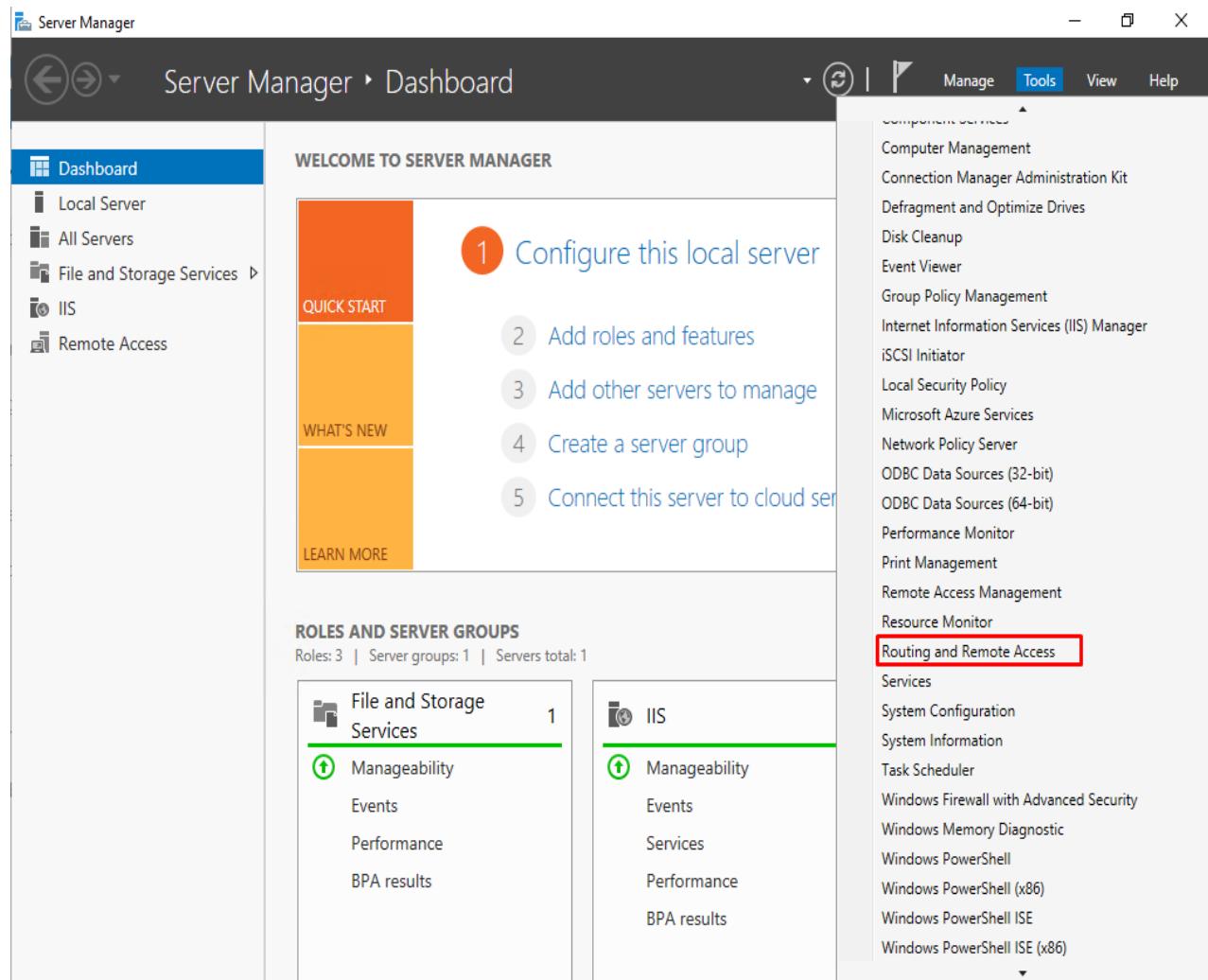
DNS Server:127.0.0.1 loopback kendisi,

Alternate DNS server:8.8.8.8 Google.com

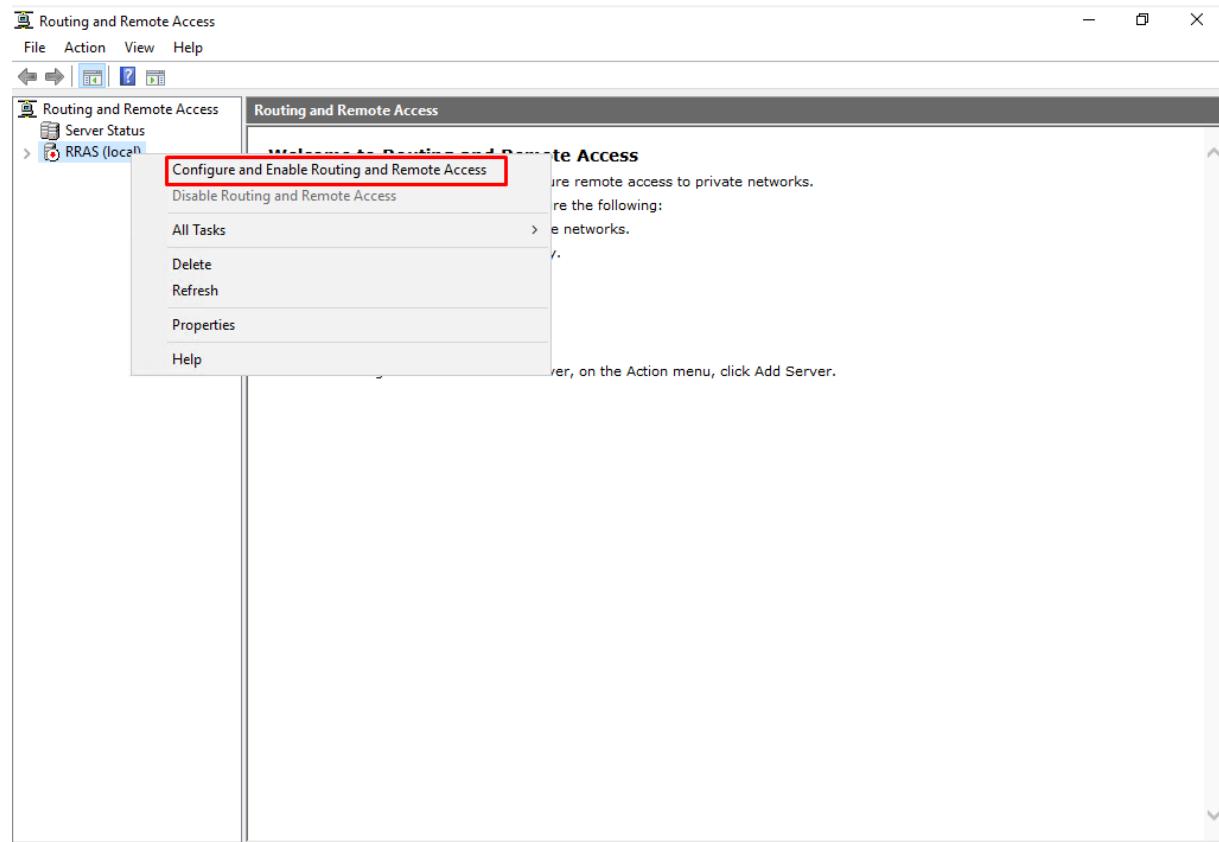


10.

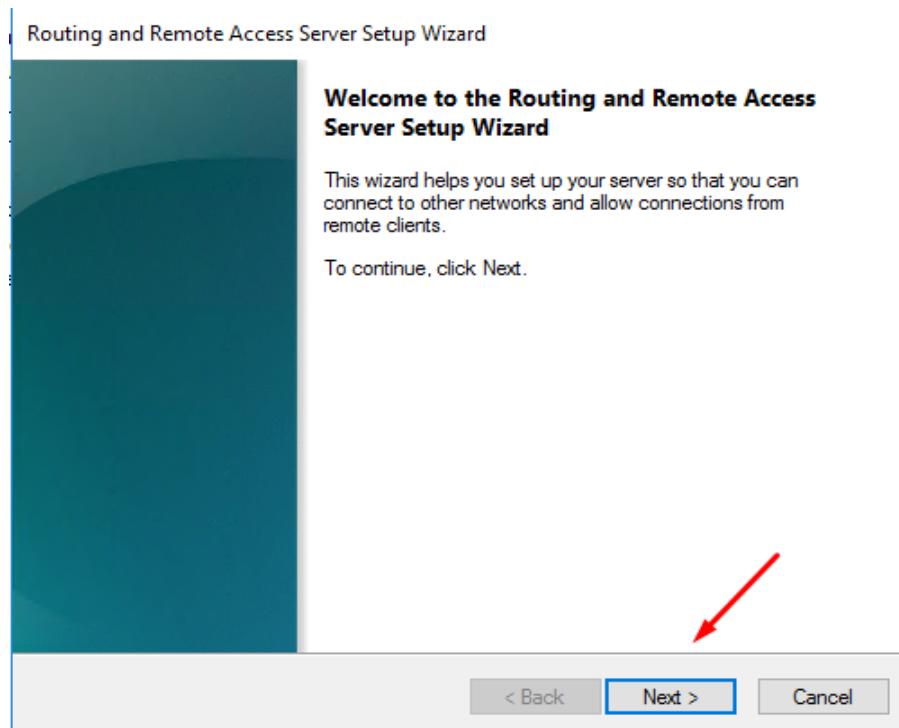
Server Manager > Tools > Routing And Remote Access



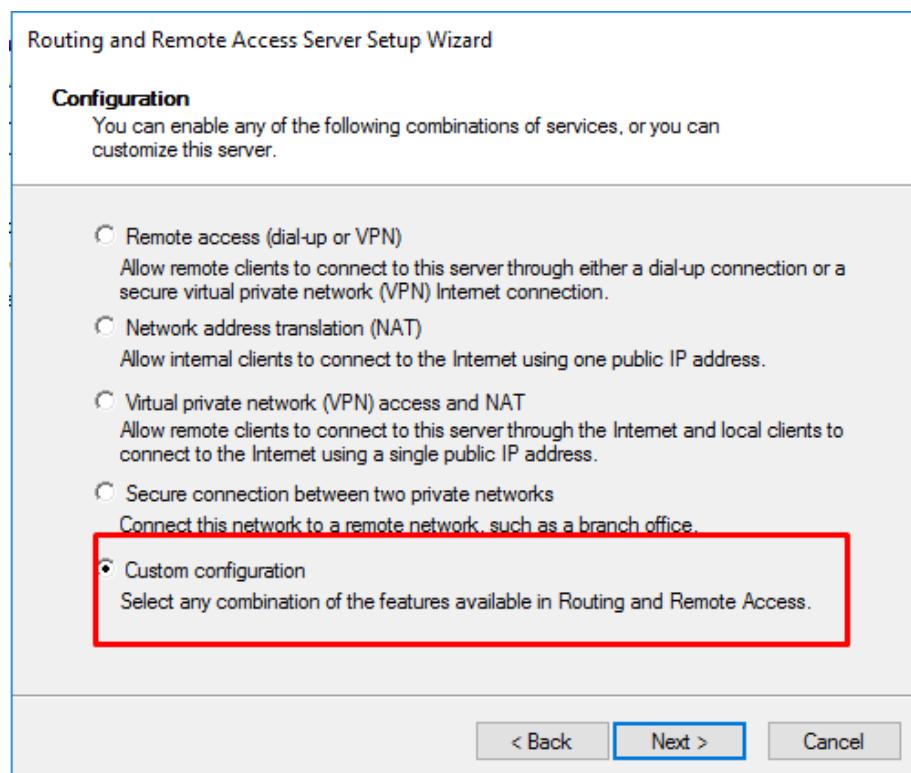
Configure and Enable Routing and Remote Access



Next denilir ve setup başlatılır.



Network adapterlerini manuel olarak eklemeyi seçtiğimiz için **custom configuration** seçilir.

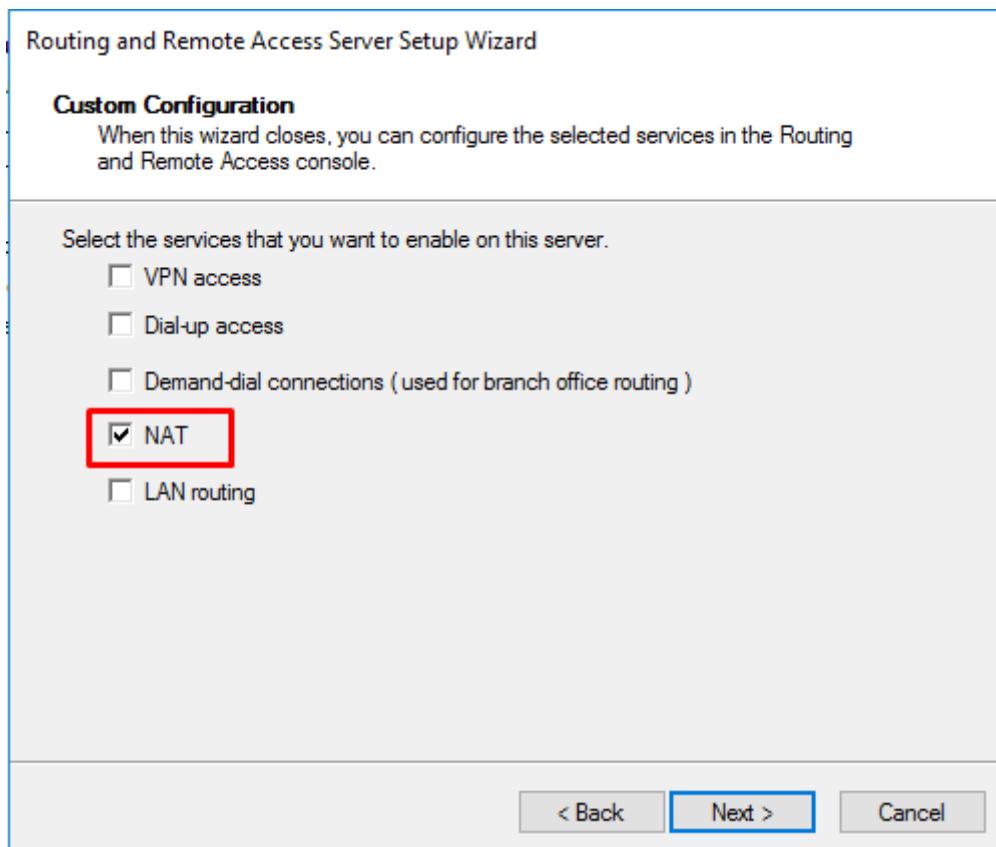


Custom Configuration

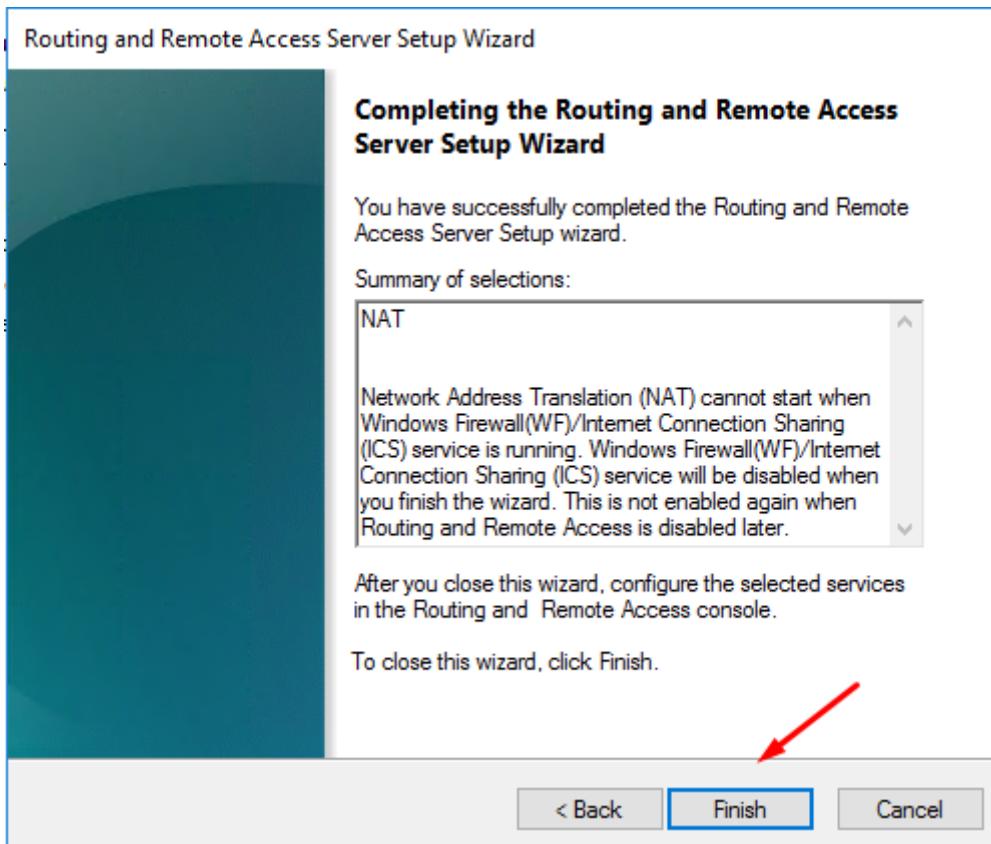
→NAT

İle internețe çıkartılması isteniyor bu sebepten seçilir.

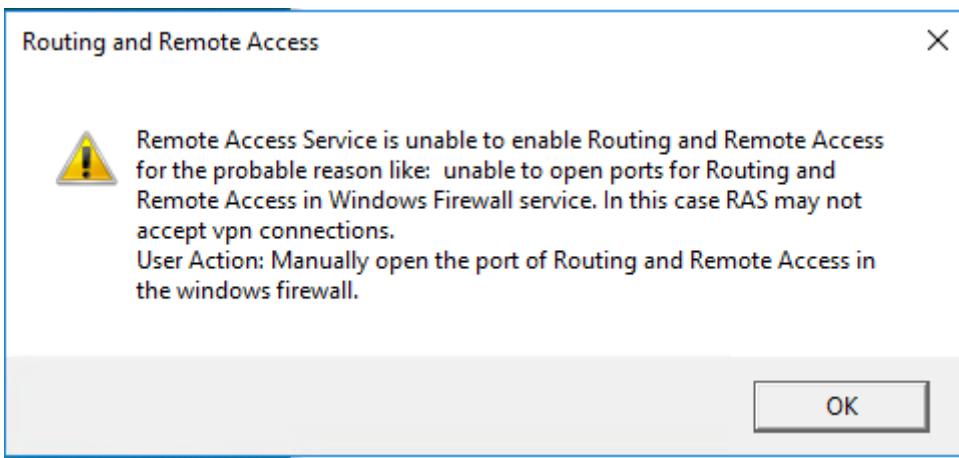
Next tıklanır ve devam edilir.



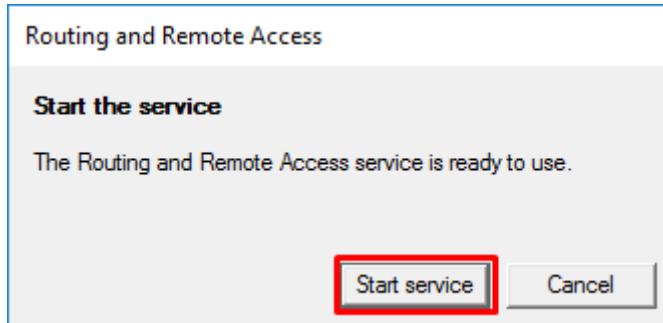
NAT ile alakalı özet bilgiyi okuduktan sonra setup tamamlanır.



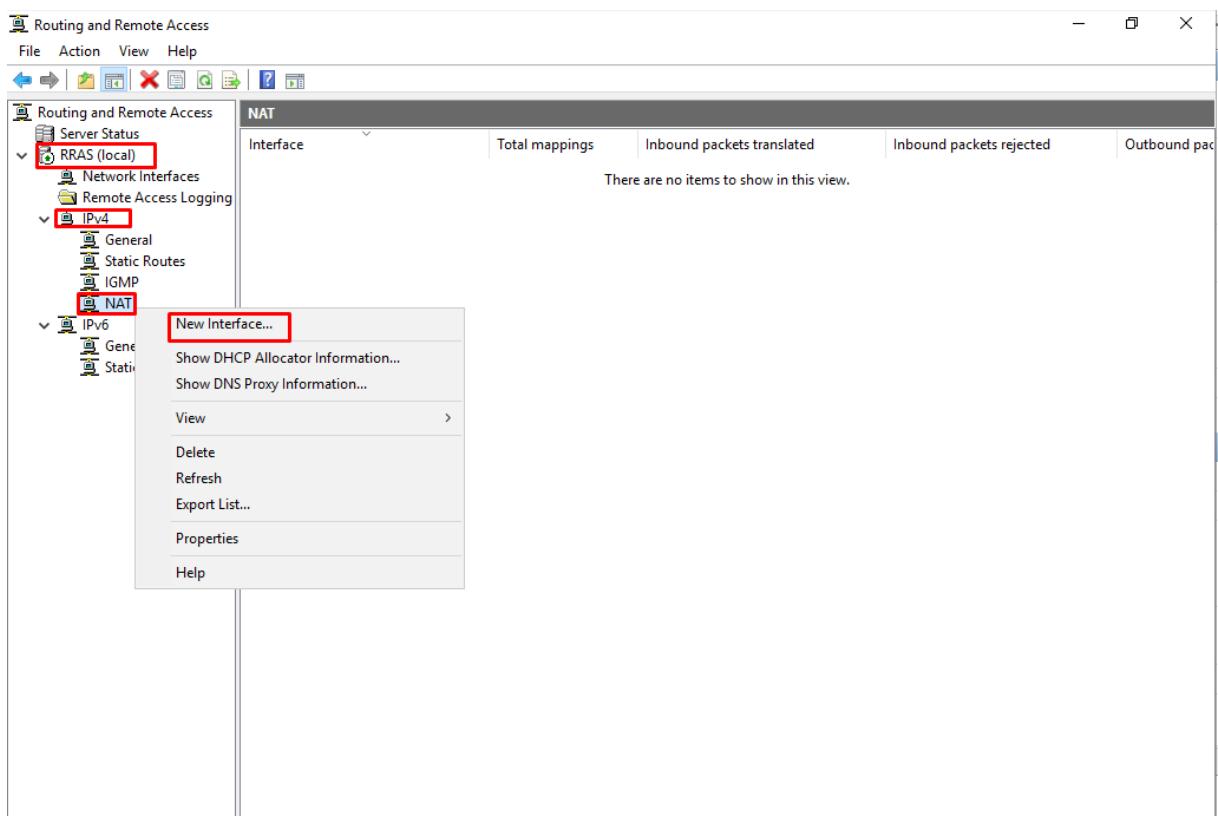
Onaylamak için OK denilir.



Routing and Remote Access kullanılmak için hazır seviyededir. Bu servisi başlatmak için Start Service tıklanır.

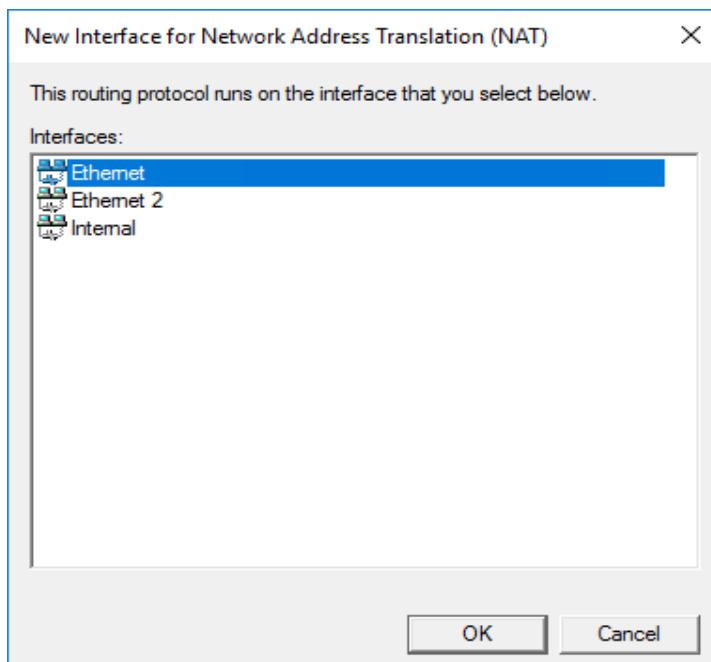


RRAS local altında IPV4 altında NAT right click yapılarak açılan pencereden yeni interface eklenir.

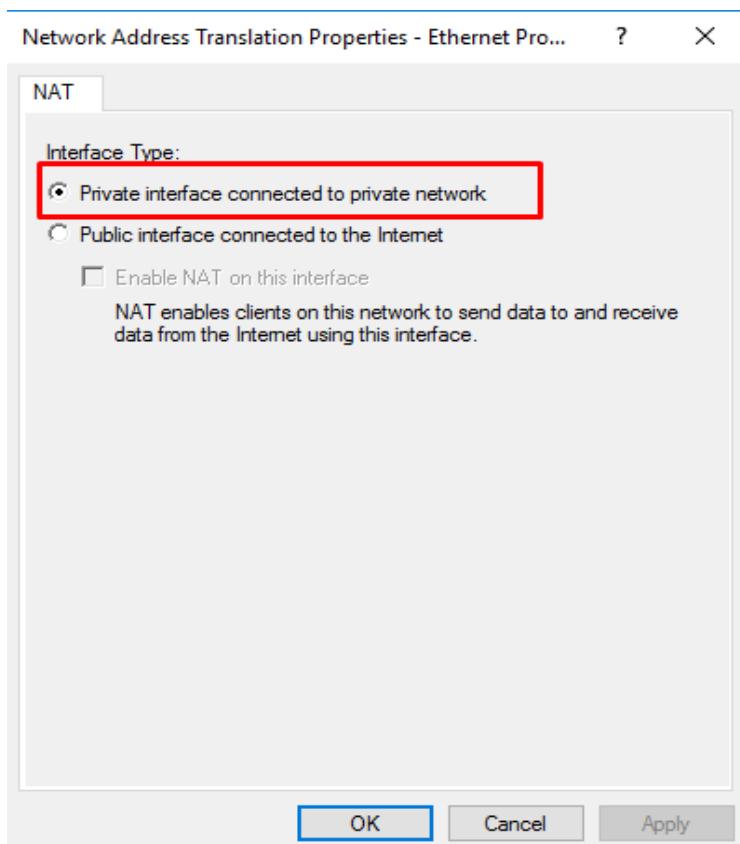


RRAS server sunucumuza önceki adımda eklemiş olduğumuz network adapterlerini görmekteyiz.

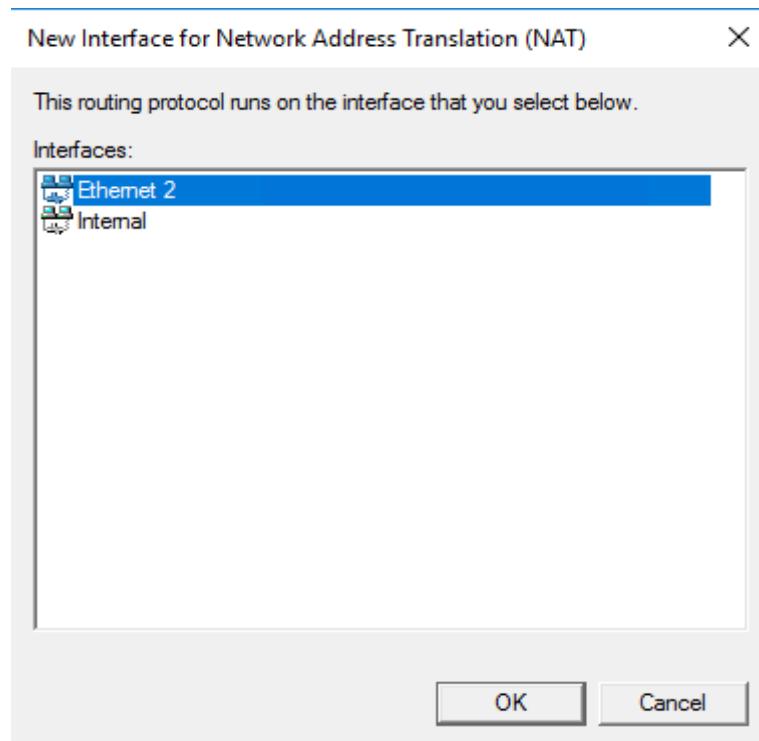
Internal(iç bacak) için **Ethernet** interface seçilir.



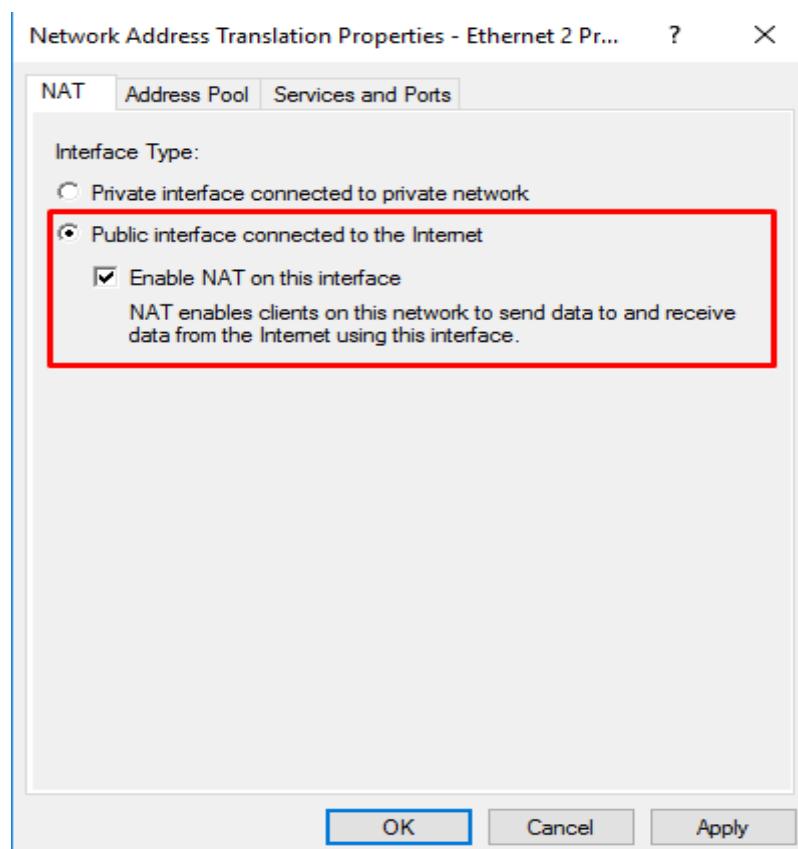
Bu interfacemizin tipi **private** olup IP address:30.30.30.3 şeklindedir.



Diğer interface için external olan (dış bacak) **Ethernet 2** seçilir.



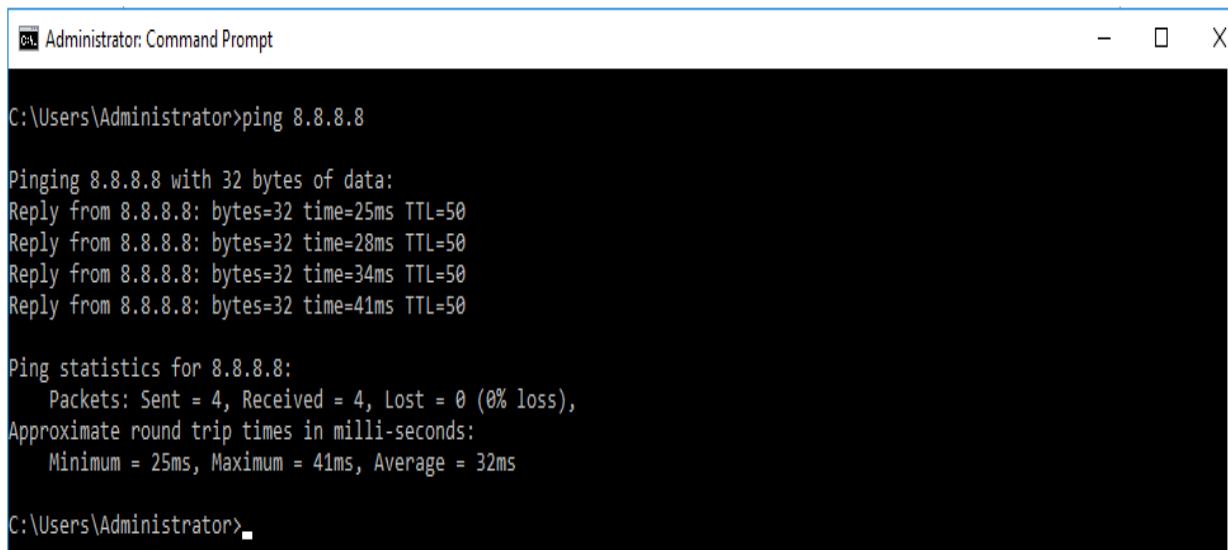
Bu interface tipi public olup IP address'ini DHCP'den alacaktır.



11.

Exchange serverin kurulu olduğu sunucuda ping testi yapılır.

Cmd ekranı altında ping 8.8.8.8 yazılarak DNS adresini bildiğimiz Google'a ping atabildiğimizi görüyoruz.



```
Administrator: Command Prompt
C:\Users\Administrator>ping 8.8.8.8

Pinging 8.8.8.8 with 32 bytes of data:
Reply from 8.8.8.8: bytes=32 time=25ms TTL=50
Reply from 8.8.8.8: bytes=32 time=28ms TTL=50
Reply from 8.8.8.8: bytes=32 time=34ms TTL=50
Reply from 8.8.8.8: bytes=32 time=41ms TTL=50

Ping statistics for 8.8.8.8:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 25ms, Maximum = 41ms, Average = 32ms

C:\Users\Administrator>
```

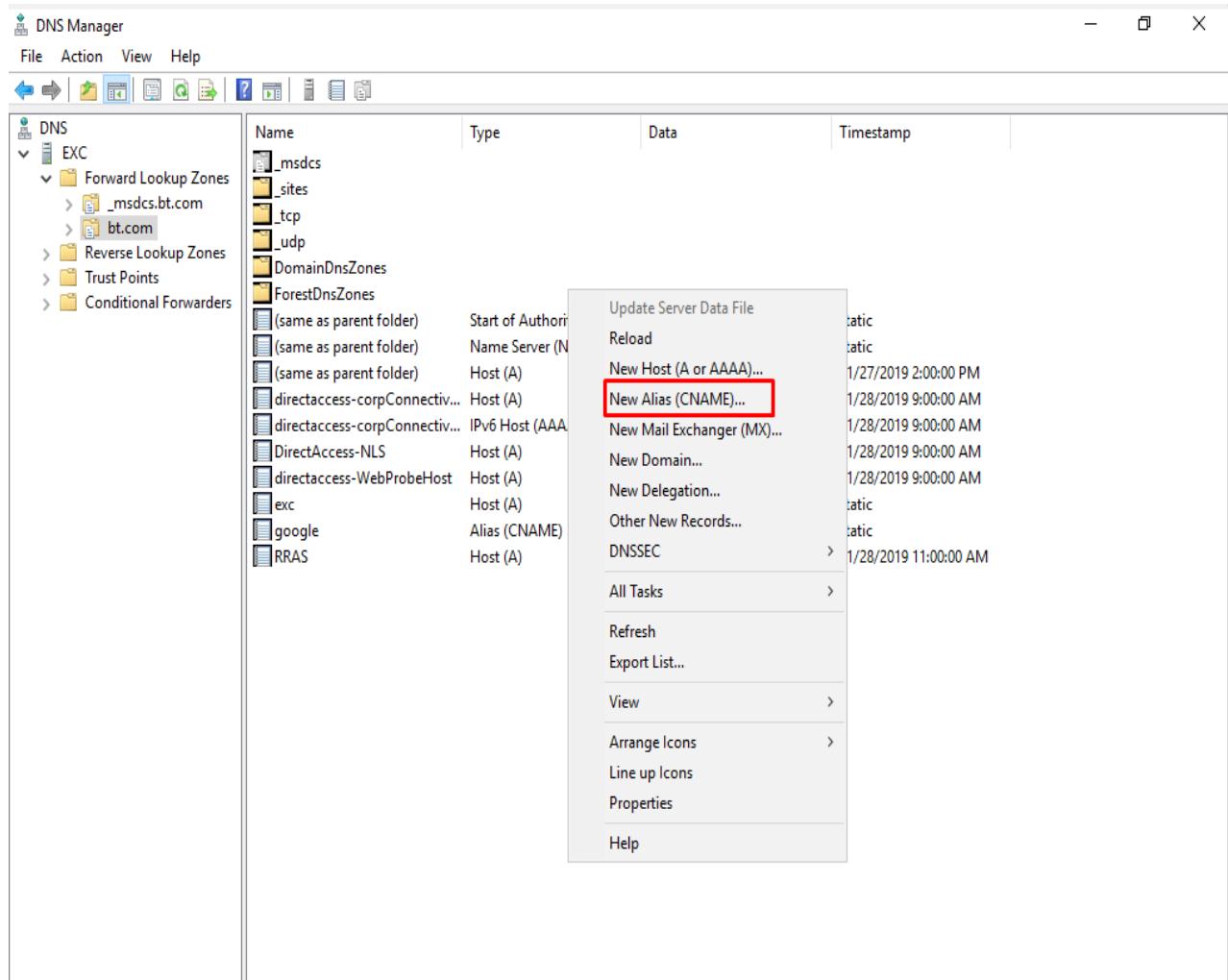
12.

DNS forward lookup zone eklentisi,

Google DNS eklenir.(8.8.8. or 8.8.4.4)

DNS Manager > EXC > **Forward Lookup Zones** > bt.com >

right click → New Alias(CNAME) seçilir.

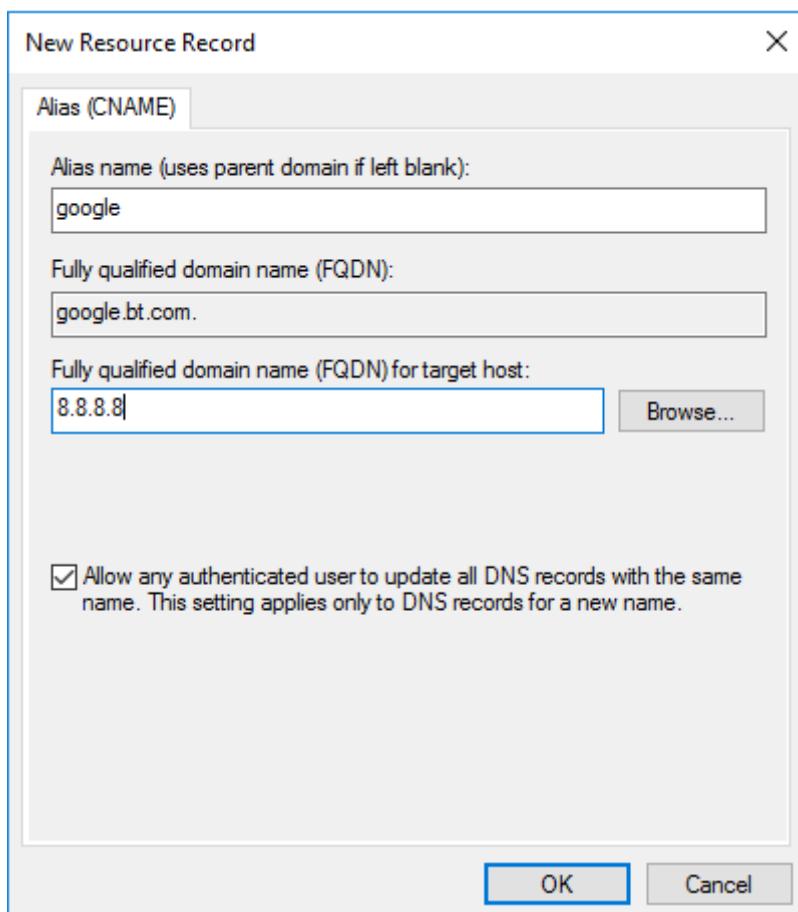


Alias(CNAME) altınd açılan pencerede alias name:google

Domain name for target host:8.8.8.8

Allow any authenticated user to update all DNS records with the same name. This setting applies only to DNS records for a new name tıklanır.

Ok.



13.

a.

Exchange admin center'e girildi ve mail flow altında accepted domains başlığında mail alınacak domainler eklenir.

The screenshot shows the Exchange admin center interface. On the left, there's a navigation pane with various categories like recipients, permissions, compliance management, organization, protection, and several items under mail flow (mobile, public folders, unified messaging, servers, hybrid), with 'mail flow' being the selected category. On the right, under 'Accepted domains', a table lists one domain: 'cantan.local' (fully qualified domain name: cantan.local, domain type: Authoritative). The 'accepted domains' link in the top navigation bar is highlighted with a red box. The 'mail flow' category in the sidebar is also highlighted with a red box.

NAME	ACCEPTED DOMAIN	DOMAIN TYPE
bt.com (default doma...)	bt.com	Authoritative
cantan	cantan.local	Authoritative

1 selected of 2 total

New accepted domain penceresinde domaini eklemek için doldurması gereken boşlukları tamamlamamız gerekir.

Name:gmail

Accented domain:gmail.com

External Relay:Domain dışı (İnternet) gelecek mailler için kapı açar.

The screenshot shows a configuration window titled 'Accepted Domain - Internet Explorer'. The window contains the following fields:

- Name:** A text input field containing 'gmail', which is highlighted with a red border.
- Accepted domain:** A text input field containing 'gmail.com', which is highlighted with a red border.
- This accepted domain is:** A section with three radio button options:
 - Authoritative: Email is delivered only to valid recipients in this Exchange organization. All email for unknown recipients is rejected.
 - Internal Relay: Email is delivered to recipients in this Exchange organization or relayed to an email server at another physical or logical location.
 - External Relay: Email is relayed to an email server at another physical or logical location.The third option is highlighted with a red border.
- Buttons:** At the bottom right are 'Save' and 'Cancel' buttons.
- Zoom:** At the bottom right corner, there is a zoom control showing '100%'.

b.

Exchange admin centerden mail göndermek için mail flow altında send connector seçilir ve “+” tıklanarak domain eklenir.

The screenshot shows the Exchange admin center interface. On the left, there's a sidebar with various categories like recipients, permissions, compliance management, organization, protection, and mail flow (which is highlighted with a red box). In the main content area, under the mail flow category, there's a sub-section for "send connectors". A red box highlights the "send connectors" link. Below it, there's a table with one row showing a connector named "BT" which is "Enabled". To the right of the table, connector details are listed: Last modified: 11/28/2019 2:50:27 PM, Connector status - Enabled, Disable, Logging - Off, and On. Maximum send message size (MB): 35. At the bottom of the page, there's a prompt asking if you want to store your password for localhost, with "Yes", "Not for this site", and "x" buttons.

New send connector için:

- ➔ Name: hotmail.com vb. domainler yazılır.
- ➔ Internet:Netler arası mail yapılır.WAN'da diyebiliriz.

Send Connector - Internet Explorer

new send connector

Create a Send connector.

There are four types of send connectors. Each connector has different permissions and network settings. [Learn more...](#)

*Name:
hotmail.com

Type:

Custom (For example, to send mail to other non-Exchange servers)

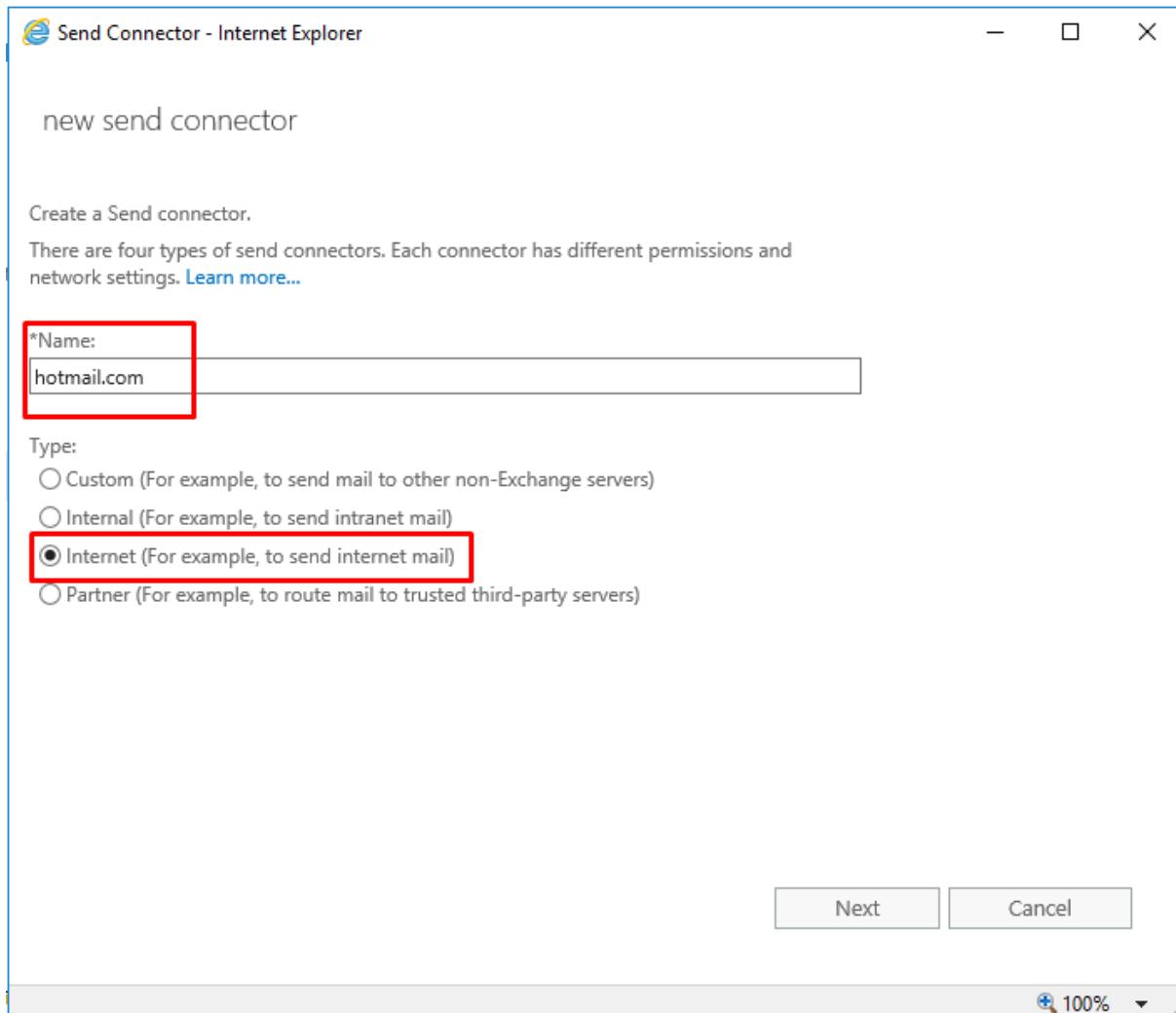
Internal (For example, to send intranet mail)

Internet (For example, to send internet mail)

Partner (For example, to route mail to trusted third-party servers)

Next Cancel

100%



Next seçilir.

Send Connector - Internet Explorer

new send connector

A send connector can route mail directly through DNS or redirect it to a smart host. [Learn more...](#)

*Network settings:
Specify how to send mail with this connector.

MX record associated with recipient domain
 Route mail through smart hosts

+ -

SMART HOST

Use the external DNS lookup settings on servers with transport roles

Back Next Cancel

100%

“+”ya tıklanır.

Send Connector - Internet Explorer

new send connector

A Send connector routes mail to a specified list of domains. These domains can be an SMTP address space or a custom type. [Learn more...](#)

*Address space:
Specify the address space or spaces to which this connector will route mail.

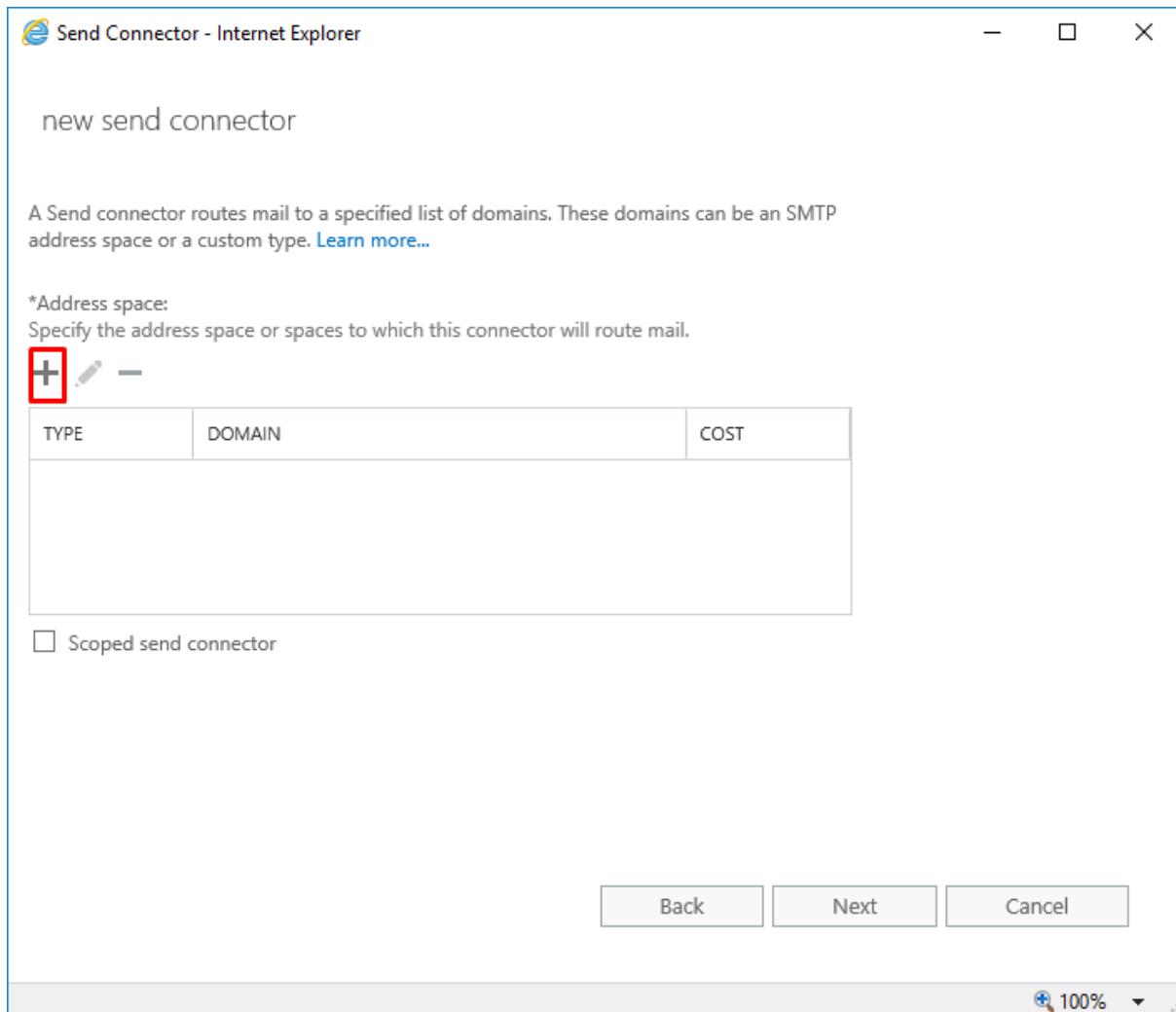
[+] [Edit] [-]

TYPE	DOMAIN	COST

Scoped send connector

Back Next Cancel

100%



Domain ekleme altında:

SMTP (mail gönderen protokol) ve Full Qualified Domain Name:"*" ekleyerek tamamını seçmiş oluyoruz.

Save ederek pencere kapatılır.

Address Space -- Webpage Dialog

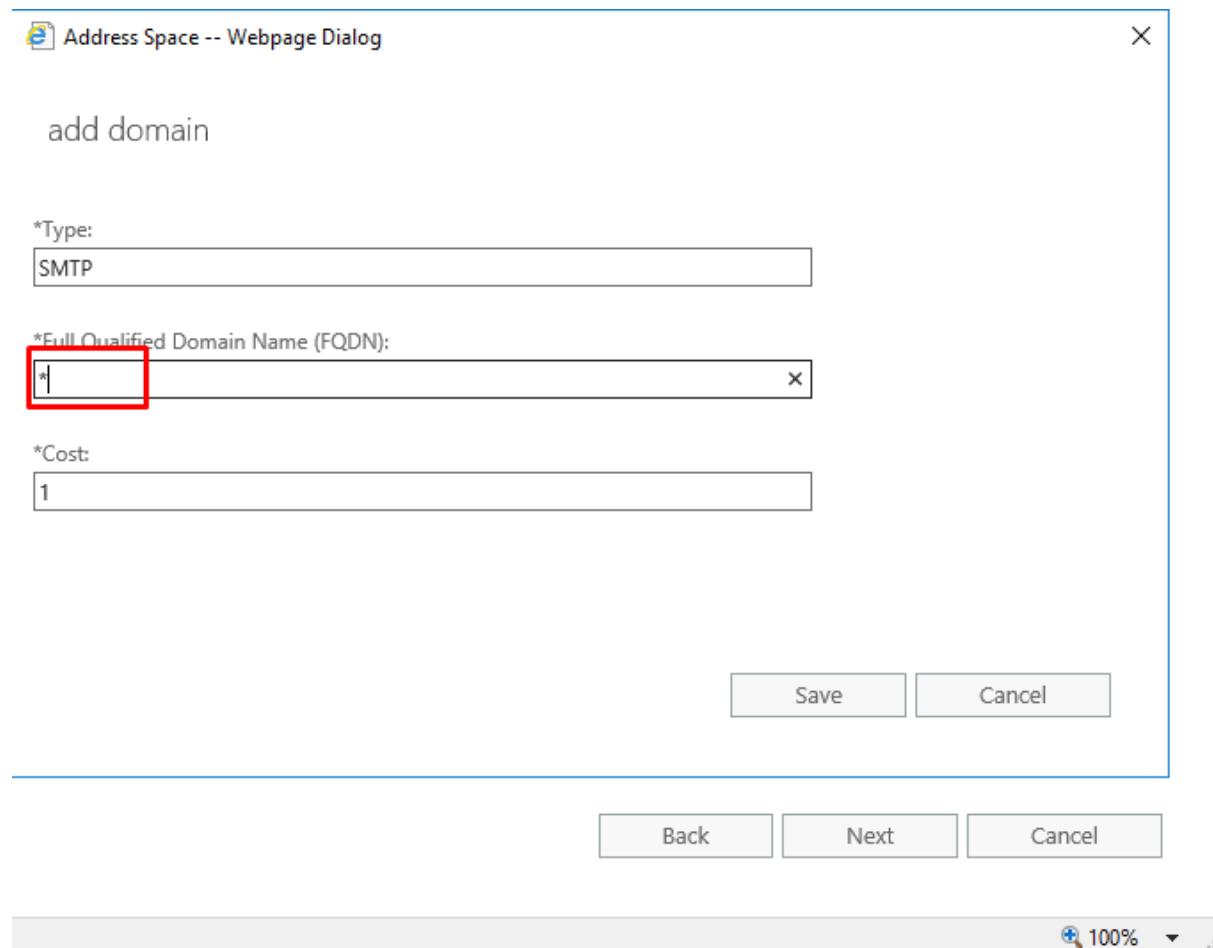
add domain

*Type:

*Full Qualified Domain Name (FQDN):

*Cost:

100%



Eklenen connector gözüktü ve next denilerek devam edilir.

Send Connector - Internet Explorer

new send connector

A Send connector routes mail to a specified list of domains. These domains can be an SMTP address space or a custom type. [Learn more...](#)

*Address space:
Specify the address space or spaces to which this connector will route mail.

TYPE	DOMAIN	COST
SMTP	*	1

Scoped send connector

 Back Next Cancel

100%

“+”ya tıklanarak eklenecek olan server belirlenir.

Send Connector - Internet Explorer

new send connector

A send connector sends mail from a list of servers with transport roles or Edge Subscriptions.
[Learn more...](#)

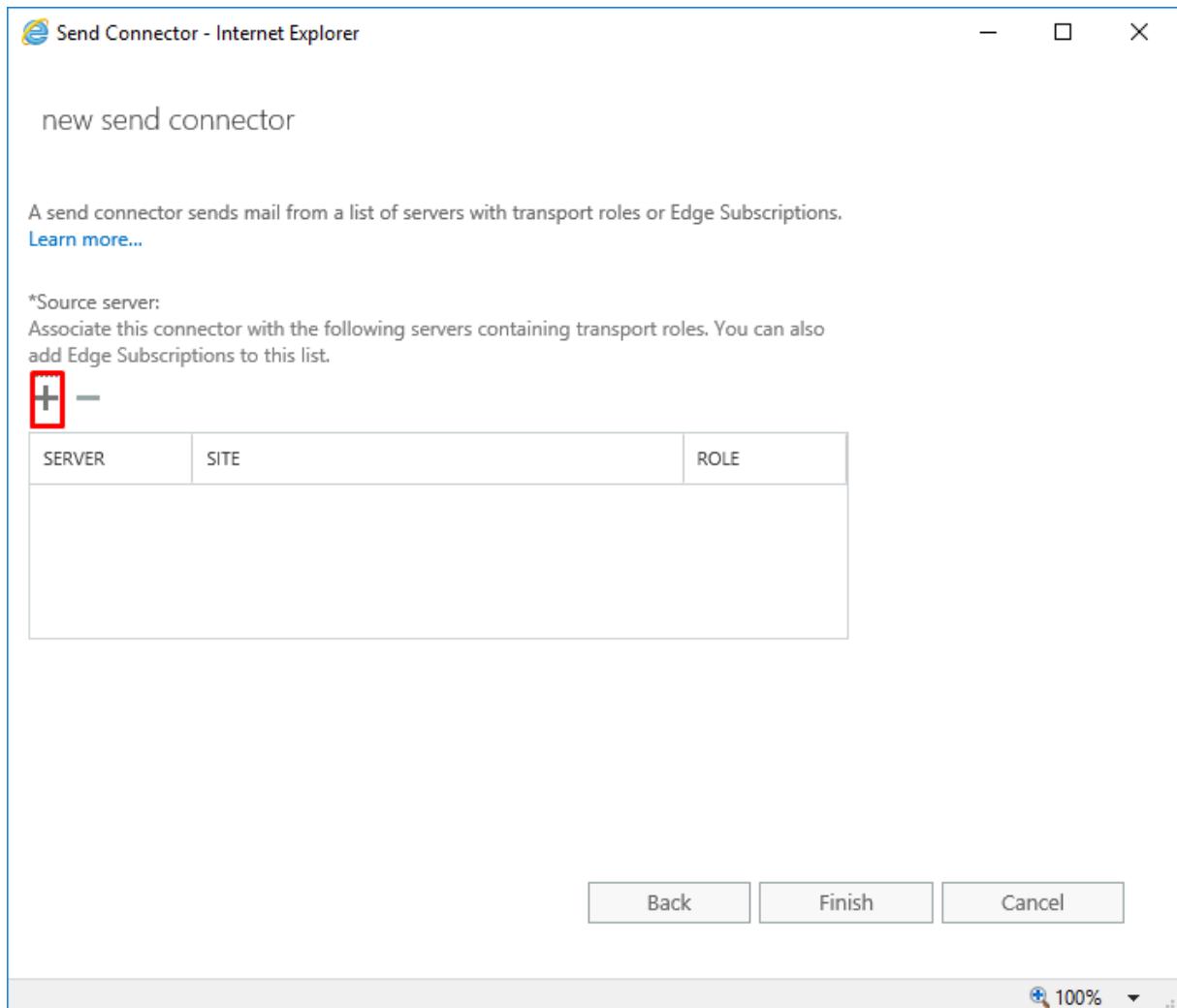
*Source server:
Associate this connector with the following servers containing transport roles. You can also add Edge Subscriptions to this list.

[+] **-**

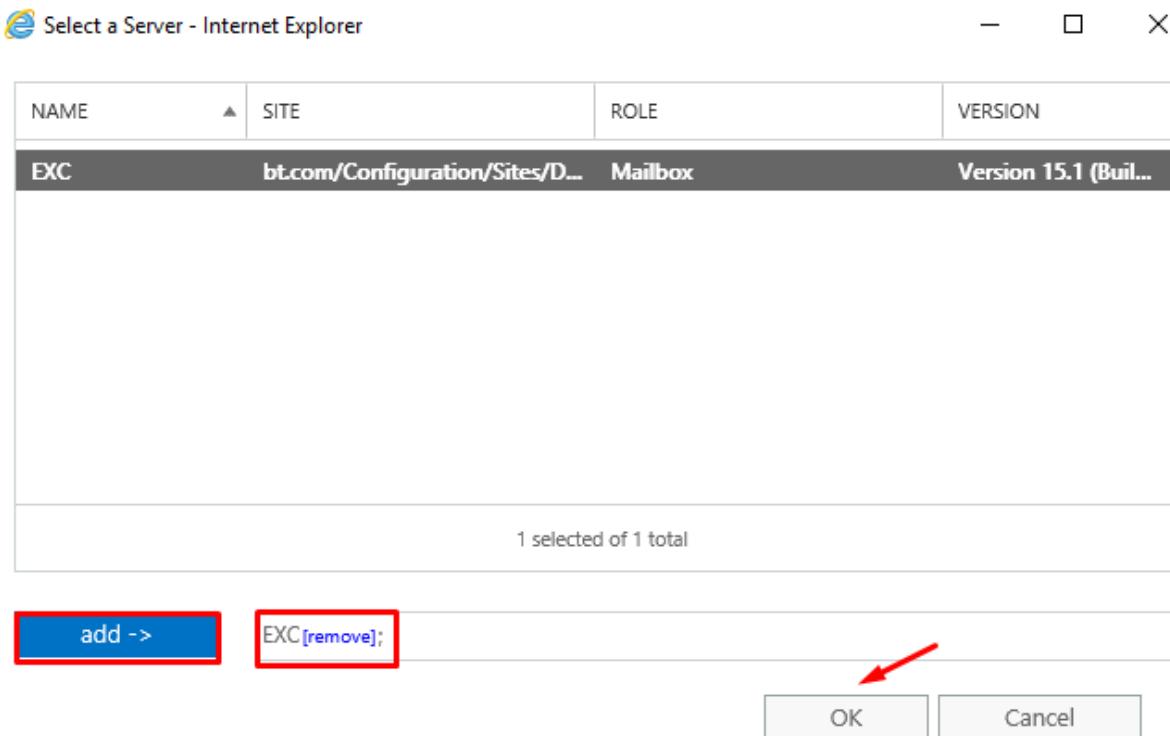
SERVER	SITE	ROLE

Back Finish Cancel

100%

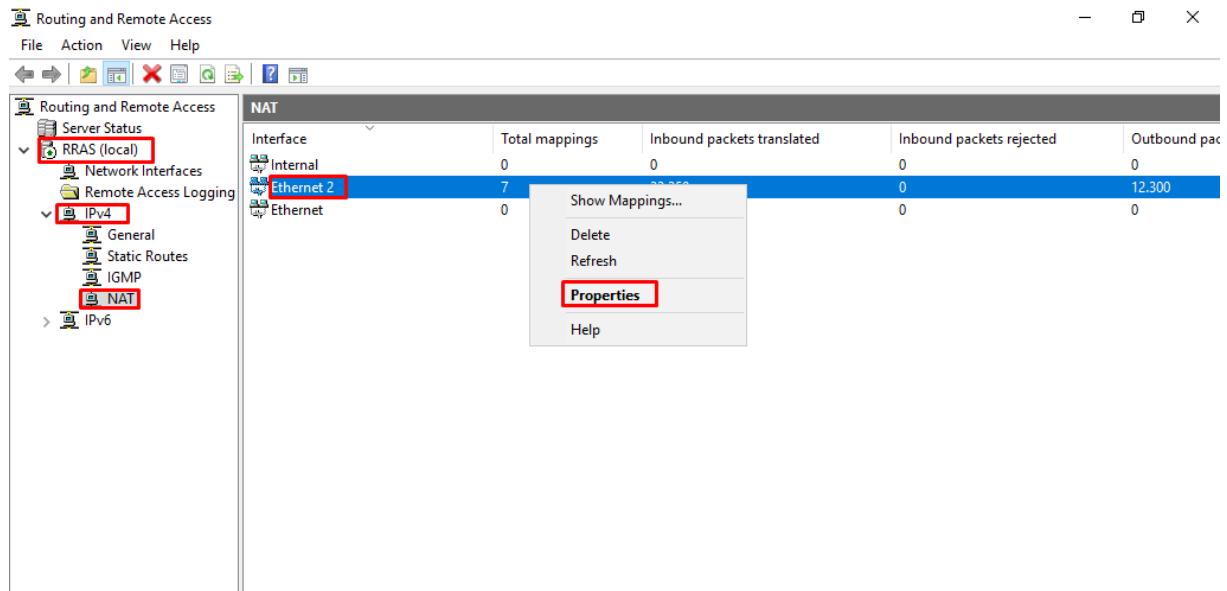


Açılan pencerede “add” ifadesine tıkladığımızda serverımız eklenmiş oluyor.

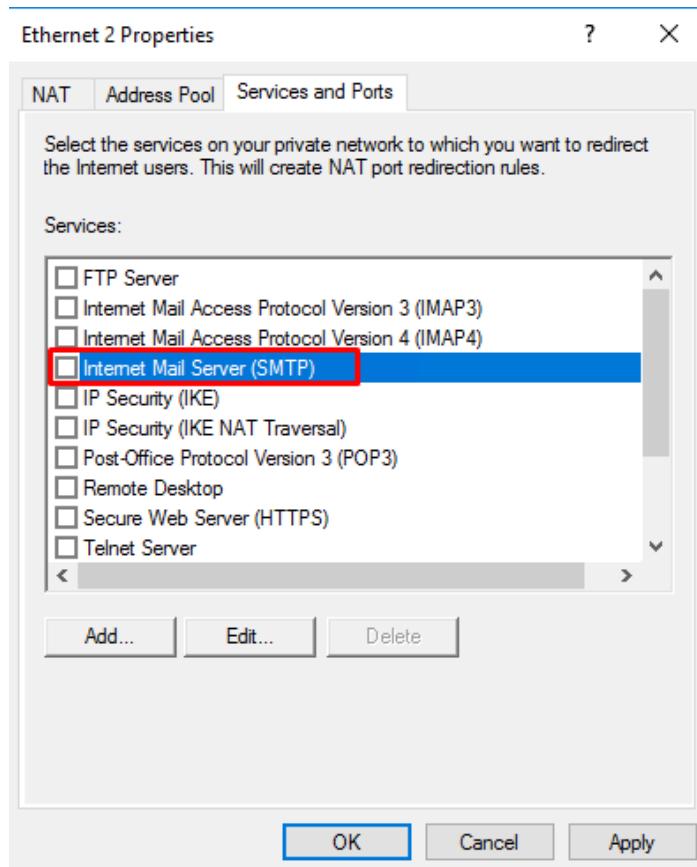


15.

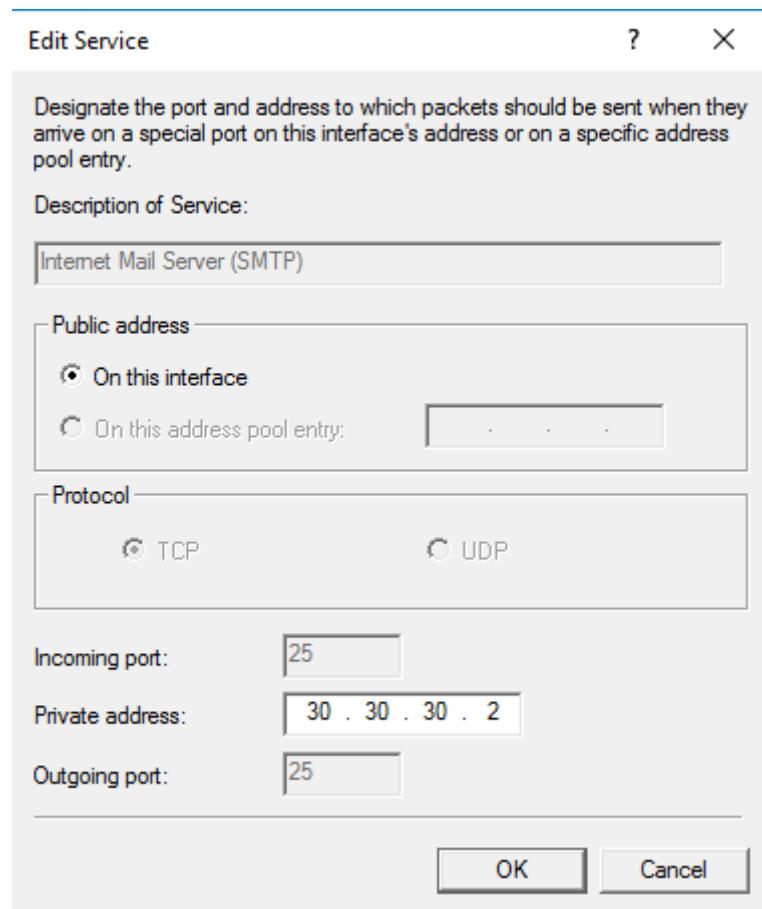
Routing and Remote Access'ten NAT altında olan external interfaceden properties açılır.



Services and Ports kısmından Internet Mail Server (SMTP) tıklanır.



Private address: Exchange Server'ın IP Address'i yazılır ve onaylanır.



16.

“Bt.com” domainimizdeki kullanıcı/kullanıcılar ile var olan gmail adreslerine mail atılır ve karşı mail adreste kontrol edilir.

The screenshot shows the Microsoft Outlook Mail interface. The top navigation bar includes icons for Mail, Search, New, Empty folder, Mark all as read, Undo, and user profile. The left sidebar displays a tree view of folders: Favorites, Inbox, Sent Items (selected), Drafts, Mehmetcan Topal (under Favorites), and Junk Email/Notes. The main pane shows the 'Sent Items' folder with the following messages:

Recipient	Subject	Date
[REDACTED]@gmail.com	selam	1:57 AM
[REDACTED]@gmail.com	selam 10.57	
[REDACTED]@gmail.com	deneme	1:56 AM
[REDACTED]@gmail.com	10.54	
[REDACTED]@gmail.com	deneme	1:21 AM
[REDACTED]@gmail.com	10.21 central america	
[REDACTED]@gmail.com	deneme	1:17 AM
[REDACTED]@gmail.com	10.17 dns 127 ve 8	
[REDACTED]@gmail.com	Saygıları hocam.	1:01 AM
[REDACTED]@hotmail.c...	deneme	12:55 AM
[REDACTED]@gmail.com	09.55 dns 127	
[REDACTED]@gmail.com	deneme	12:54 AM

A large blue envelope icon is positioned on the right side of the message list. Below it, the text "Choose a message to read it." is displayed.



Turkcell



13:58



%94



...

iletinin spam olma olasılığı yüksek.

[DAHA FAZLA BİLGİ](#)

deneme

Spam



Mehmetcan Topal 10:29

09.51 dns 127



Mehmetcan Topal 10:29

10.17 dns 127 ve 8



Mehmetcan Topal 10:29

10.21 central america



Mehmetcan Topal 10:29

09.40



Mehmetcan Topal 11:58

11.39



Mehmetcan Topal 11:58

11.38



Mehmetcan Topal 11:58

aşağıdır.

10.54



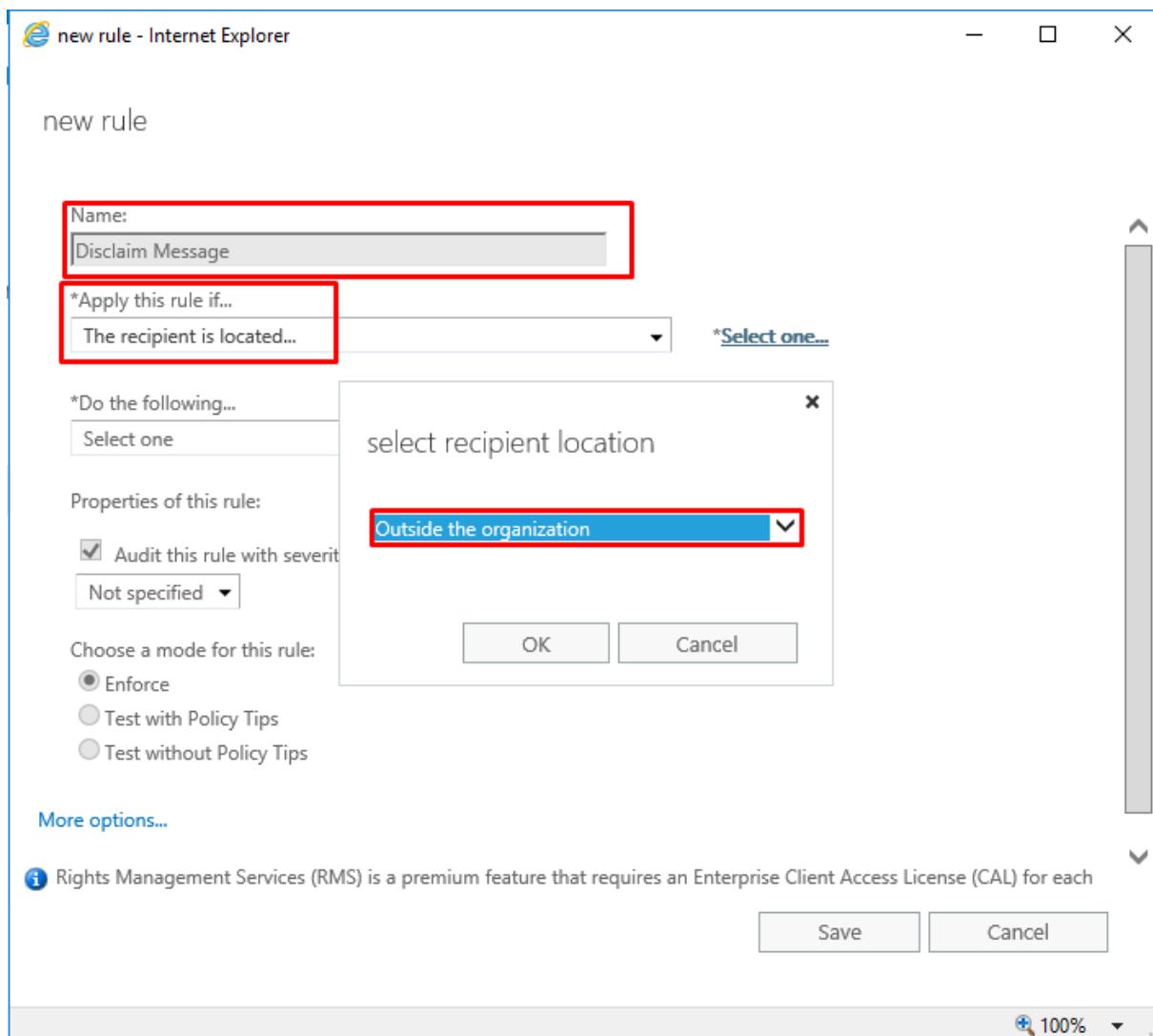
...

16.

Mailflow > Rules → Create a new rule'dan disclaimer yaratıyoruz.

The screenshot shows the Exchange admin center interface. The left navigation bar has 'mail flow' selected. The main area shows the 'rules' section with various options like 'Create a new rule...', 'Apply rights protection to messages...', and 'Apply disclaimers...'. A red box highlights the 'Create a new rule...' option. On the right, a configuration pane is open for a rule named 'Disclaim Name'. It specifies the condition 'If the message... Is sent to 'Outside the organization'' and the action 'Do the following... Append the message with the disclaimer 'By BT's Admins''. Other settings include 'Rule mode Enforce' and 'Additional properties Sender address matches: Header'. The status bar at the bottom indicates '1 selected of 1 total'.

Disclaimer'ın adını yazıyoruz ve “Apply this rule if..” kısmından **The recipient is located(Mail gidecek kullanıcı)** ile cümleyi tamamlıyoruz. Bunu seçtikten sonra açılan pencerede **outside the organization** seçilir.



“Do the following..” kısmından **Append the disclaimer..** seçilir.

“Enter text..” ile **disclaimer text** eklenir.

“Save” edilir.

The screenshot shows the 'new rule' configuration dialog in Internet Explorer. The 'Name:' field is set to 'Disclaim Message'. Under 'Apply this rule if...', 'The recipient is located...' is selected. In the 'Do the following...' section, 'Append the disclaimer...' is chosen. A red box highlights this selection. A red arrow points from this box to a note: '*[Enter text](#)... and fall back to action *[Select one...](#) if the disclaimer can't be inserted.' The note also includes the text 'Outside the organization'. Other settings include 'Audit this rule with severity level: Not specified' and 'Choose a mode for this rule: Enforce'. At the bottom, there are 'Save' and 'Cancel' buttons, and a status bar showing '100%'.

new rule - Internet Explorer

new rule

Name:
Disclaim Message

*Apply this rule if...
The recipient is located...

*Do the following...
Append the disclaimer...

Outside the organization

*[Enter text](#)... and fall back to action *[Select one...](#) if the disclaimer can't be inserted.

Properties of this rule:

Audit this rule with severity level:
Not specified ▾

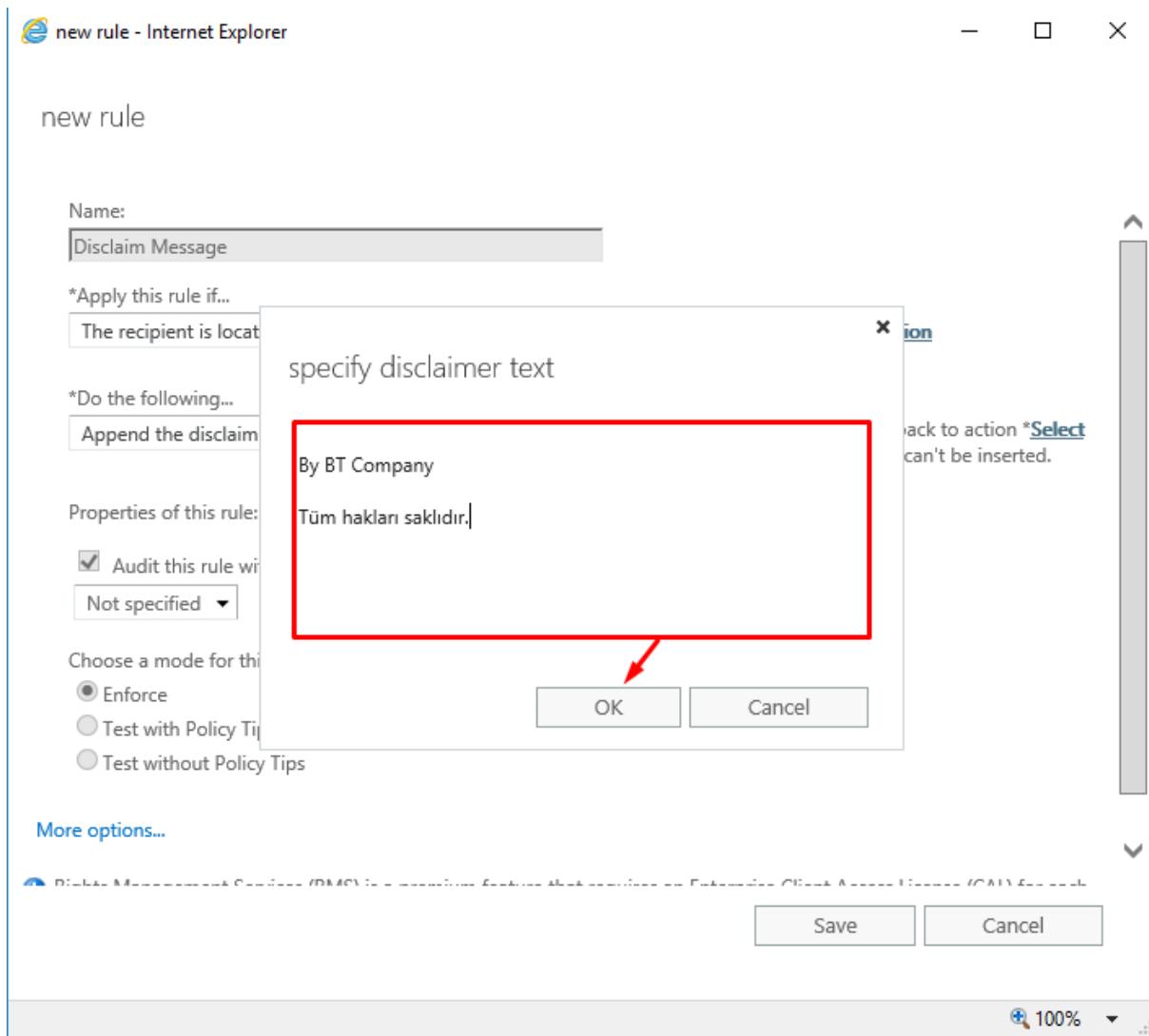
Choose a mode for this rule:
 Enforce
 Test with Policy Tips
 Test without Policy Tips

More options...

Save Cancel

100%

Açılan pencerede “Specify Disclaimer Text” yazılır.



Yazdığımız **disclaimer text** bu şekilde görüldü.

new rule - Internet Explorer

new rule

Name: Disclaim Message

*Apply this rule if... The recipient is located... [Outside the organization](#)

*Do the following... Append the disclaimer... [By BT Company Tüm hakları saklıdır.](#) and fall back to action "[Select one...](#)" if the disclaimer can't be inserted.

Properties of this rule:

Audit this rule with severity level: Not specified

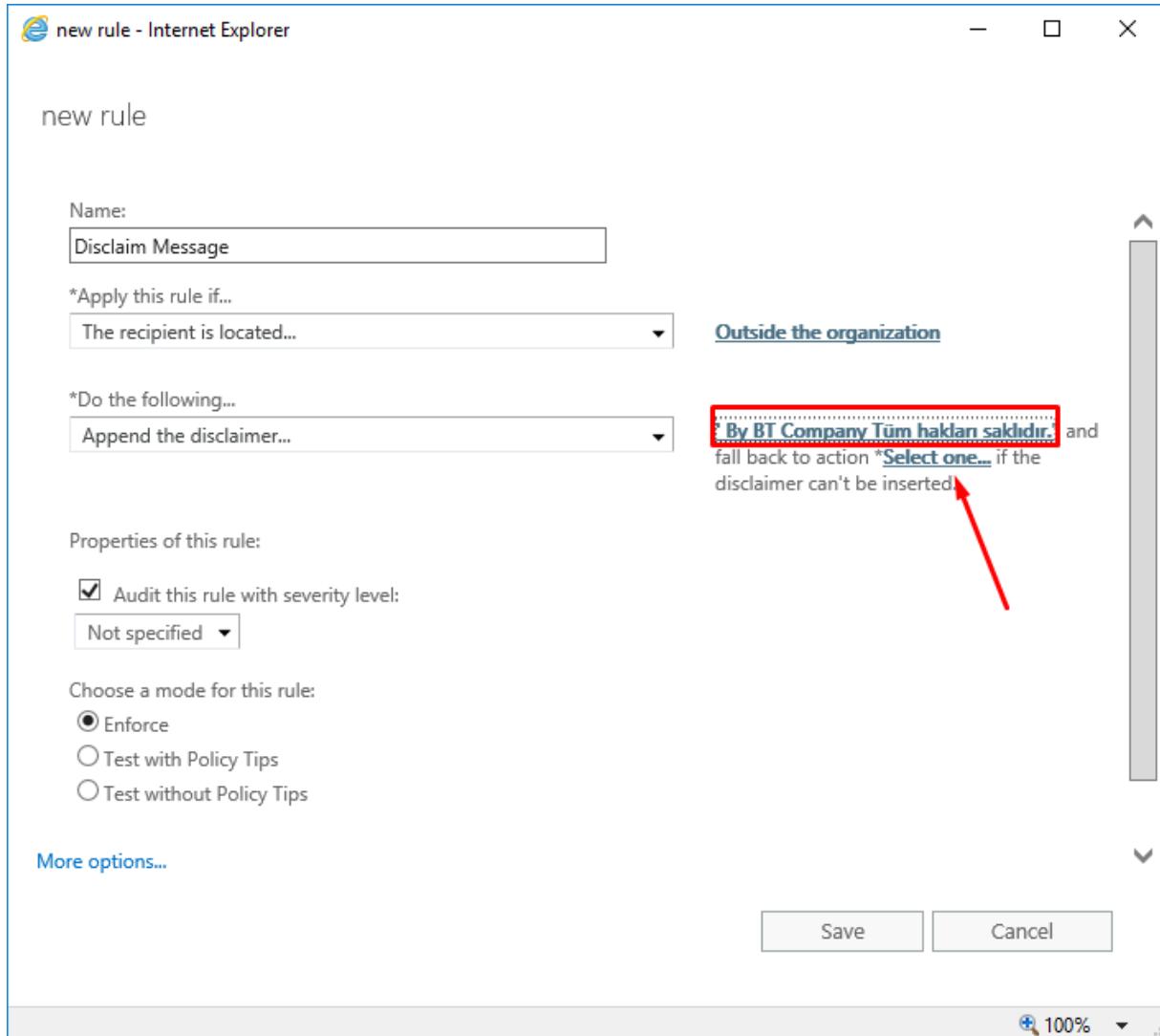
Choose a mode for this rule:

Enforce
 Test with Policy Tips
 Test without Policy Tips

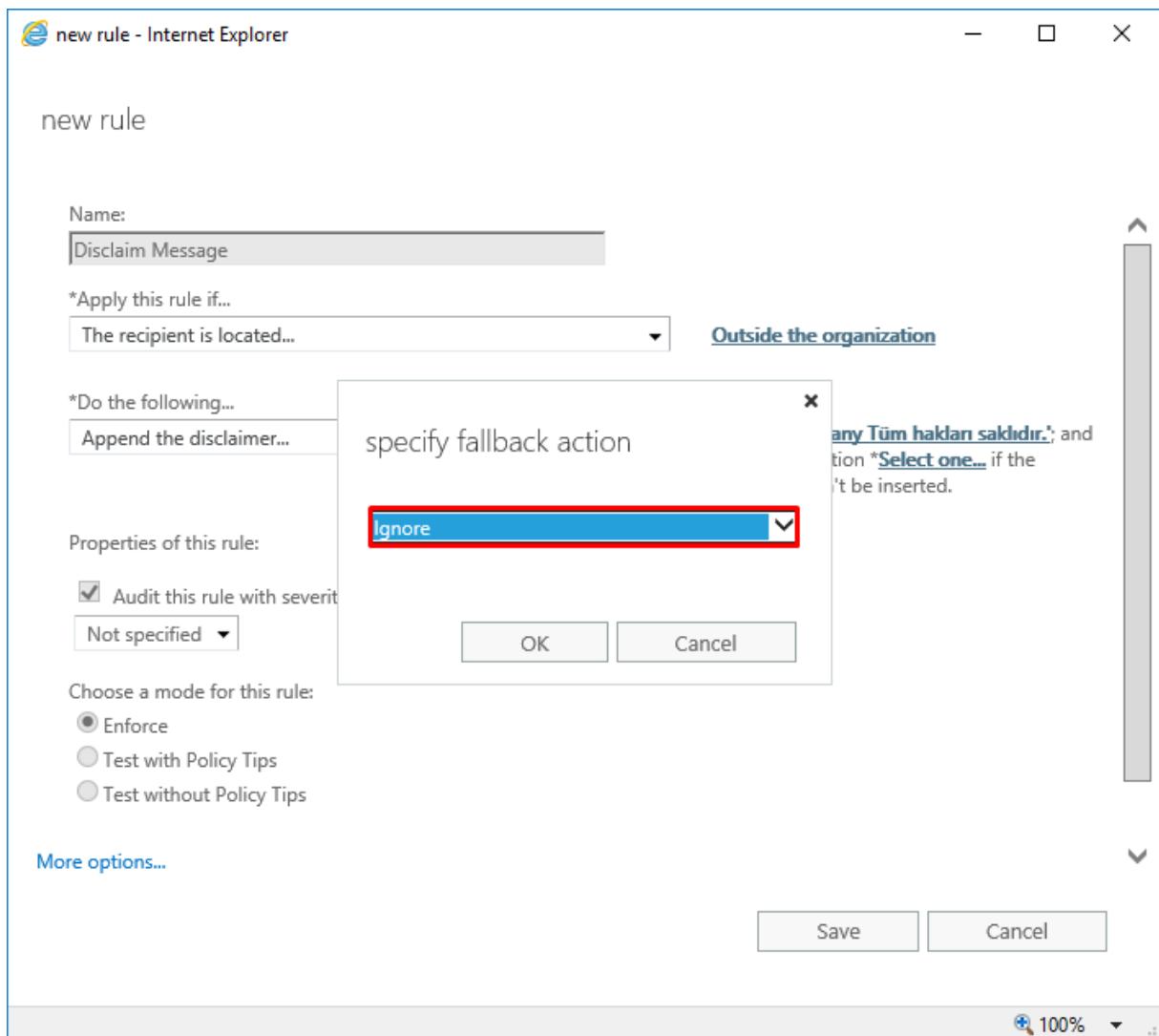
[More options...](#)

Save Cancel

100%



“Fallback action” **Ignore** seçilir.



Yazmış olduğumuz bilgileri “**save**” ediyoruz.

new rule - Internet Explorer

new rule

Name:

*Apply this rule if... [Outside the organization](#)

*Do the following...

! By BT Company Tüm hakları saklıdır. and fall back to action [Ignore](#) if the disclaimer can't be inserted.

Properties of this rule:

Audit this rule with severity level:

Choose a mode for this rule:

Enforce
 Test with Policy Tips
 Test without Policy Tips

[More options...](#)

Save  Cancel

100%

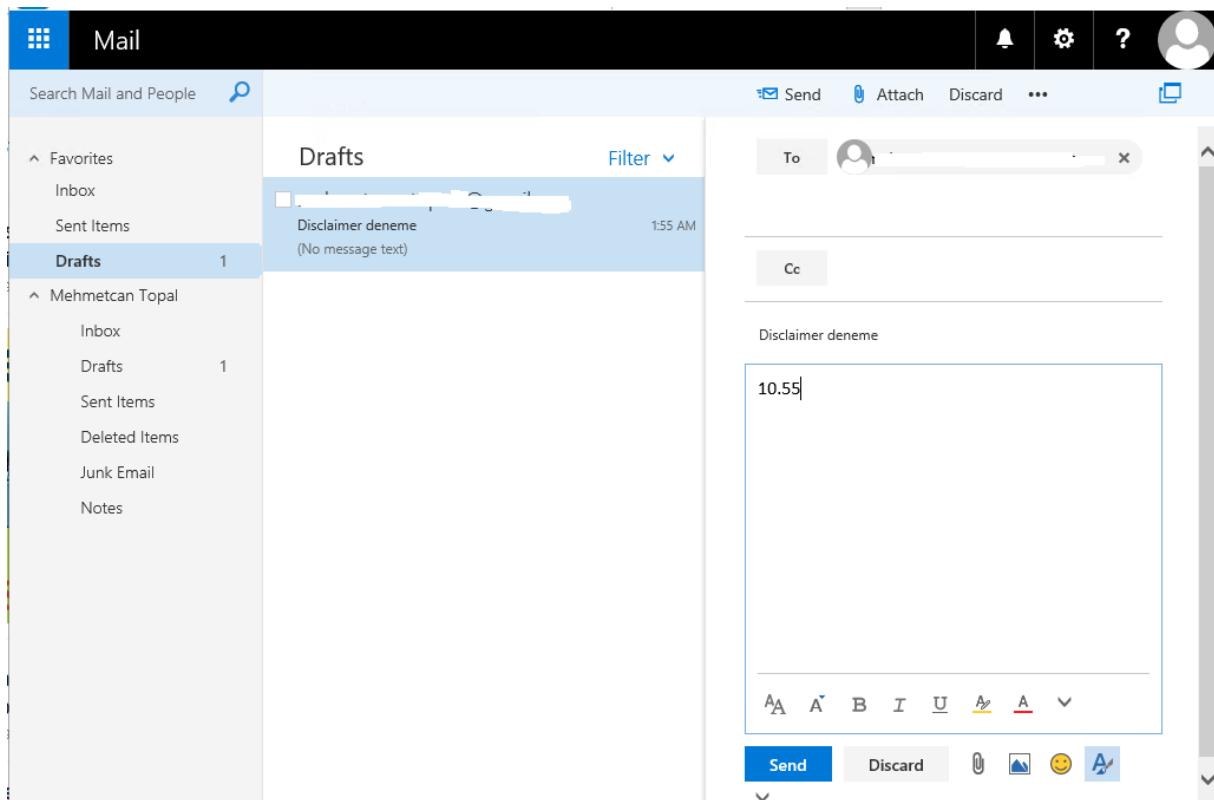
Disclaimer Message'mız eklenmiş oldu.

The screenshot shows the Microsoft Exchange Admin Center interface. The left navigation bar is visible with various categories like recipients, permissions, compliance management, organization, protection, mail flow, mobile, public folders, unified messaging, servers, and hybrid. The 'mail flow' category is currently selected. The main content area is titled 'rules' and contains links for delivery reports, accepted domains, email address policies, receive connectors, and send connectors. Below this is a toolbar with icons for add, edit, delete, and search. A table lists the rules, with one row highlighted: 'Disclaim Message' (ON, RULE, PRIORITY 0). To the right of the table, detailed settings for this rule are shown:

- If the message... Is sent to 'Outside the organization'
- Do the following... Append the message with the disclaimer 'By BT Company'
- Tüm hakları saklıdır. If the disclaimer can't be applied, take no action.
- Rule comments
- Rule mode Enforce

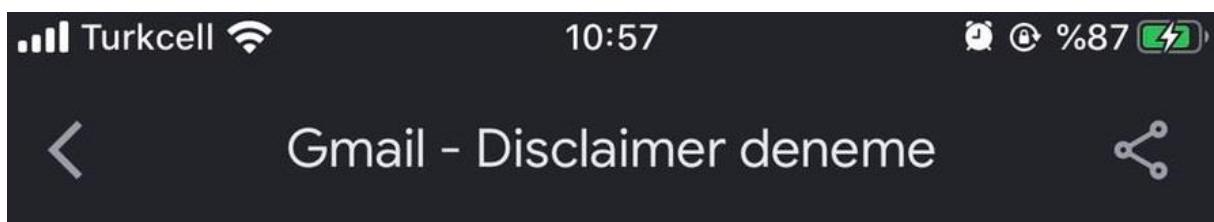
At the bottom of the table area, it says '1 selected of 1 total'.

Mail atma işlemimiz gerçekleşti



"mt@bt.com"dan gelen mail görüldü.

Disclaimer text gönderilen mailin altında yer aldı.



Gmail - Disclaimer deneme

Disclaimer deneme

Mehmetcan Topal <mt@bt.com>
Alıcı: "mehmetcan" <mehmetcan@bt.com>

10.55

By BT Company Tüm hakları saklıdır.

17.

Recipients > groups → Distribution group oluşturulur.

The screenshot shows the Microsoft Exchange Admin Center interface. The top navigation bar includes links for Enterprise, Office 365, Administrator, and Help. The main header says "groups - Microsoft Exchange". The left sidebar has a red box around the "recipients" link. The top menu bar has a red box around the "groups" link. Below the menu, there are icons for adding (+), editing (pencil), deleting (trash), and more options (ellipsis). A dropdown menu is open over the "Distribution group" icon, showing "Distribution group", "Security group", and "Dynamic distribution group". The main content area displays a table with one row selected. The selected row shows a "Deneme" distribution group with the email address "manager@bt.com". The table columns are labeled "TYPE" and "EMAIL ADDRESS". To the right of the table, detailed information is shown: Notes (None), Owners (Administrator), Membership (Membership approval: Closed, Message approval: Disabled).

TYPE	EMAIL ADDRESS
Distribution group	manager@bt.com

Deneme
Distribution Group
manager@bt.com

Notes
(None)

Owners
Administrator

Membership
Membership approval:
Closed
Message approval:
Disabled

New Distribution Group özellikleri ile doldurulur.

Alias:Manager , **Organizational Unit:**bt.com/Groups Unit “Browse”dan bakılır.

Owners:Administrator seçilir.

New Distribution Group - Internet Explorer

new distribution group

*Display name:
Deneme

*Alias:
manager

Notes:

Organizational unit:
bt.com/Groups Unit

*Owners:
+ -
Administrator

This name will appear in the address book and on the To and Cc lines when email is sent to this group. The display name should be user-friendly so that users will recognize what it is.

Save Cancel

100%

The screenshot shows the 'New Distribution Group' configuration page. Key fields highlighted with red boxes are 'Display name' (containing 'Deneme'), 'Alias' (containing 'manager'), and 'Organizational unit' (set to 'bt.com/Groups Unit'). A callout box provides a detailed explanation of the 'Display name' field's purpose. The 'Owners' section lists 'Administrator' as the owner. Navigation buttons 'Save' and 'Cancel' are at the bottom right.

“Members”dan **add group owners as members** kısmı tıklanır.

“+”dan **Select Members** ekranında oluşturacağımız Distribution group hangi User (Kullanıcı) Mailbox üzerine yönlendirilecek olan User (Kullanıcı) Mailbox seçiyoruz ve **OK** diyoruz.

The image shows three windows side-by-side:

- New Distribution Group - Internet Explorer:** A window titled "new distribution group". It has a section labeled "Members:" containing a checkbox "Add group owners as members" which is checked. A red box highlights this section. Below it are "+" and "-" buttons. At the bottom, there are radio button options for owner approval: "Open: Anyone can join this group" (selected), "Closed: Members can be added only by group owner and rejected automatically.", and "Owner approval: All requests are approved".
- Select Members - Internet Explorer:** A window titled "Select Members - Internet Explorer". It lists users with their display names and email addresses. Two users are selected: "m4" (m4@bt.com) and "m5" (m5@bt.com). Both are highlighted with a red box. Other users listed include Administrator, m1, m2, m3, Mehmetcan Topal, mert burc, and Mert2 Burc. At the bottom, there is an "add ->" button with a red arrow pointing to it, and "OK" and "Cancel" buttons.
- Blank Window:** A third window on the right which appears to be a placeholder or a secondary part of the interface.

Choice whether owner approval is required to join the group bölümünde Distribution group giriş çıkış şekilleri nasıl olması gerektiğini yapılandırabiliriz.

- **Open Anyone can joint this group without being approved by the group owners:** Yapımız içindeki User (Kullanıcı) herkes bu Distribution group üye olabilir, herhangi bir onay gerekmez.
- **Closed Members can be added only by the group owners. All requests to join will be rejected automatically:** Distribution group üyelerini sadece Owner (Yönetici) ekleyebilir. Giriş istekleri otomatik olarak red edilir.
- **Owner approval: All requests are approved or rejected by the group owners:** Distribution group üyelik isteklerin hepsi Distribution group Owner (Yönetici) gider, Owner (Yönetici) onay verdikten sonra Distribution group üyelik kabul edilir ya da yanıtlanır.

Choice whether the group is open to leave kısmında ise (gruptan üye ayrılması durumu);

- **Open: Anyone can leave this group without being approved by the group owners :** Distribution group isteyen User (Kullanıcı) ayrılabilir.
- **Closed:** Members can be removed only by the group owners. All requests to leave will be rejected automatically. Distribution group üzerinden Owner (Yönetici) çıkartmadıkça üyeleri kendileri gruptan ayrılamazlar.

Kullanıcılar eklendikten sonra admin ayarları şirket isteğine seçilir ve kayıt edilir.

New Distribution Group - Internet Explorer

new distribution group

Members:

Add group owners as members

+ -

m4
m5

Choose whether owner approval is required to join the group.

Open: Anyone can join this group without being approved by the group owners.

Closed: Members can be added only by the group owners. All requests to join will be rejected automatically.

Owner approval: All requests are approved or rejected by the group owners.

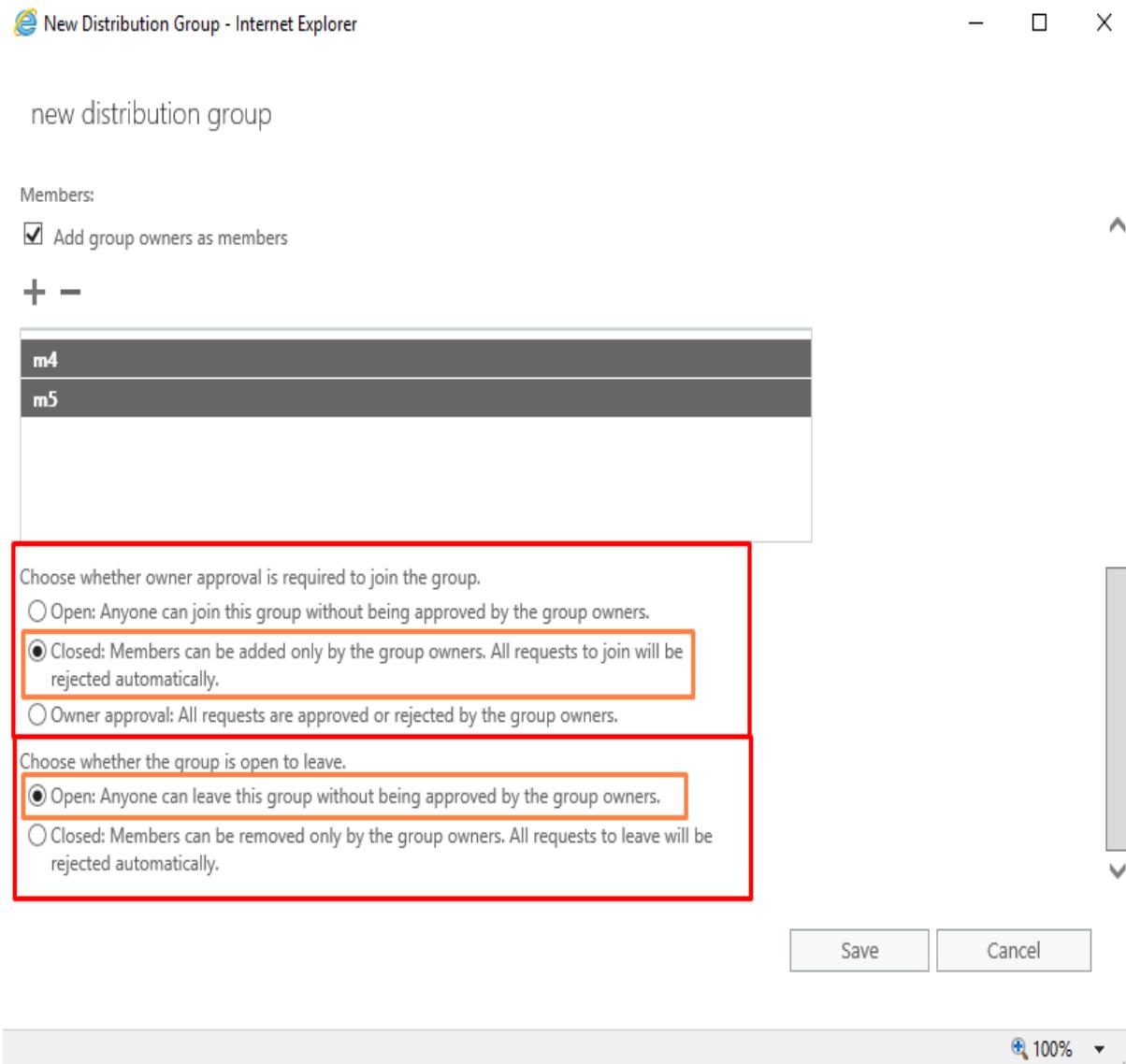
Choose whether the group is open to leave.

Open: Anyone can leave this group without being approved by the group owners.

Closed: Members can be removed only by the group owners. All requests to leave will be rejected automatically.

Save Cancel

100%



Oluşan distribution grubumuzu görmüş olduk.

The screenshot shows the Exchange admin center interface. The top navigation bar includes the Microsoft logo, 'Enterprise Office 365', and 'Administrator'. Below the navigation bar, the title 'Exchange admin center' is displayed. On the left side, there is a sidebar with various administrative links: recipients, permissions, compliance management, organization, protection, mail flow, mobile, public folders, unified messaging, servers, and hybrid. The 'recipients' link is currently selected, highlighted in grey. In the main content area, the 'groups' tab is selected, indicated by a blue background. A red arrow points to the 'Deneme' row in the table below. The table has columns for DISPLAY NAME, GROUP TYPE, and EMAIL ADDRESS. The 'Deneme' row is highlighted with a red border. To the right of the table, detailed information about the 'Deneme' distribution group is shown, including its display name, group type, email address, notes, owners, and membership status.

DISPLAY NAME	GROUP TYPE	EMAIL ADDRESS
Deneme	Distribution group	manager@bt.com

Deneme
Distribution Group
manager@bt.com

Notes
(None)

Owners
Administrator

Membership
Membership approval:
Closed
Message approval:
Disabled

Edit Distribution Group altında **delivery management** kısımından **Sender inside and outside of my organization** seçilir.

delivery management sekmesinde bulunan

- **Only senders inside my organization:** Sadece Exchange Server Organizasyonu içindekiler mail gönderebilir.
- **Senders inside and outside of my organization:** Hem Exchange Server organizasyonu içinde hem de Exchange Server organizasyonu dışında oluşturulan Distribution group mail gönderilebilir. Bu seçenek ile oluşturulan Distribution group dışarıdan mail almasını sağlamış olursunuz.

The screenshot shows the 'Edit Distribution Group' dialog box in Internet Explorer. The title bar says 'Edit Distribution Group - Internet Explorer'. The main content area has a heading 'Deneme'. On the left, there's a sidebar with several options: 'general', 'ownership', 'membership', 'membership approval', 'delivery management' (which is highlighted with a red box), 'message approval', 'email options', 'MailTip', and 'group delegation'. Below the sidebar is a large text area with the following content:

By default, only senders inside your organization can send messages to this group. You can also allow people outside the organization to send to this group. Choose one of the options below.

Only senders inside my organization
 Senders inside and outside of my organization

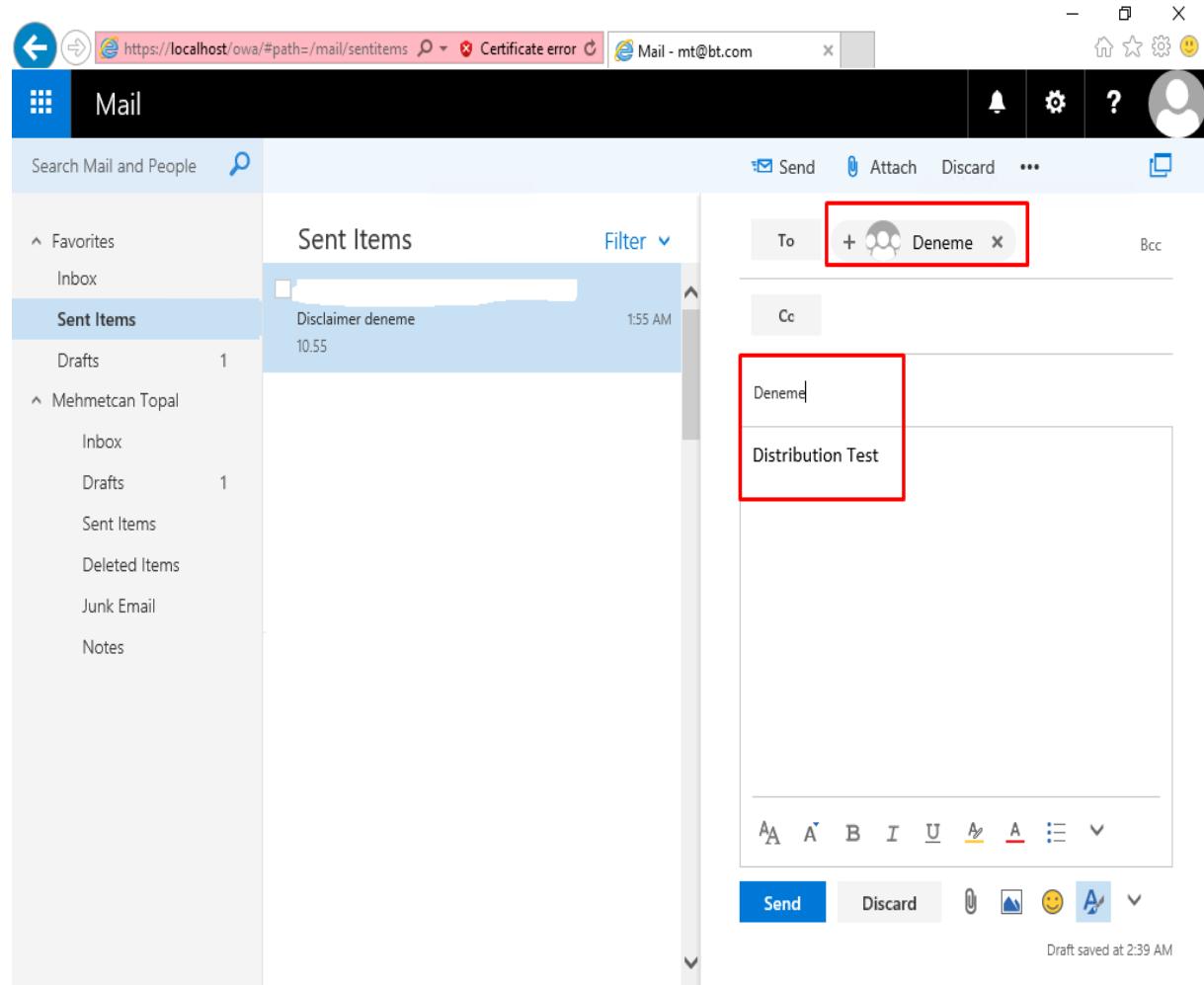
If you want to restrict who can send messages to the group, add users or groups to the list below. Only the specified senders will be able to send to the group and mail sent by anyone else will be rejected.

+ -

All senders can send messages to this group.

At the bottom right are 'Save' and 'Cancel' buttons. A status bar at the bottom shows '100%' and a magnifying glass icon.

Distribution grubumuza mail atıyoruz.



Grup üyelerinden herhangi birisi ile girildiğinde:

Gelen mail başarılı bir şekilde görüldü.

The screenshot shows the Microsoft Outlook Web App (OWA) interface. The top navigation bar includes icons for back, forward, home, search, and a certificate error message. The title bar displays the URL <https://localhost/owa/?b0=1#path=/mail/inbox> and the email address **Mail - m4@bt.com**. The main window has a dark header bar with icons for notifications, settings, help, and user profile. Below the header is a toolbar with buttons for New, Delete, Archive, Junk, Sweep, Move to, Categories, Undo, and three dots. On the left, a sidebar titled 'Favorites' lists 'Inbox' (1), 'Sent Items', 'Drafts', and 'm4' (1). Under 'm4', it lists 'Inbox' (1), 'Drafts', 'Sent Items', 'Deleted Items', 'Junk Email', and 'Notes'. The central area is divided into two panes: 'Inbox' on the left and 'managers' on the right. The 'Inbox' pane shows one item from 'Mehmetcan Topal' with the subject 'Distribution test'. The 'managers' pane shows the same email with the subject 'Distribution test' highlighted by a red box. The entire email preview in the managers pane is also highlighted by a red box.

Inbox

managers

Mehmetcan Topal
managers
Distribution test

Distribution test

Distribution group oluşturulduktan sonra:

Organizational unit kısmından **domain name/users or organizational unit** olarak eklenir.

Üyeye **Users** role eklenir.

Üyeli **user**dan oluşturduğumuz distribution gruba eklemek istiyoruz.

Owner'a **request** yollamış oluruz.

Owner mail açıldığında isteği onayladığı takdirde gruba katılmış olur.

Not: Active Directory'den oluşan user, mailboxtan **existing** yapılmak zorunda ama mailden oluşan user, direkt olarak Active Directory'de görülür.

18.

Exchange admin center

recipients mailboxes groups resources contacts shared migration

DISPLAY NAME	MAILBOX TYPE	EMAIL ADDRESS
Administrator	User	Administrator@bt.com
m1	User	m1@bt.com
m2	User	m2@bt.com
m3	User	m3@bt.com
m4	User	m4@bt.com
m5	User	m5@bt.com
Mehmetcan Topal	User	mt@bt.com
mert burc	User	mb@bt.com
Mert2 Burc	User	mertb@bt.com

1 selected of 9 total
<https://localhost/ecp/UsersGroups/ViewUserMailboxDetails.aspx?isNarrow=t&id=8e1d8671-e...>



create in-place archive

Use the archive to store old email.

Select a mailbox database for the archive:

[Browse...](#)

 Archiving is a premium feature that requires an Enterprise Client Access License (CAL). [Learn more](#)

[OK](#)

[Cancel](#)

100%

Select Mailbox Database - Internet Explorer

NAME	▲ SERVER NAME	VERSION
Mailbox Database 1395942037	EXC	Version 15.1 (Build 1779.2)
TestDB	EXC	Version 15.1 (Build 1779.2)

OK Cancel

Enterprise Office 365 Administrator

Exchange admin center

recipients mailboxes groups resources contacts shared migration

permissions

compliance management

organization

protection

mail flow

mobile

public folders

unified messaging

certificates

+ - edit search refresh ...

DISPLAY NAME	MAILBOX TYPE	EMAIL ADDRESS
Administrator	User	Administrator@bt.com
m1	User	m1@bt.com
m2	User	m2@bt.com
m3	User (Archive)	m3@bt.com
m4	User	m4@bt.com
m5	User	m5@bt.com
Mehmetcan Topal	User	mt@bt.com
mert burc	User	mb@bt.com
Mert2 Burc	User	mertb@bt.com

mobile devices

Disable Exchange ActiveSync

Disable OWA for Devices

[View details](#)

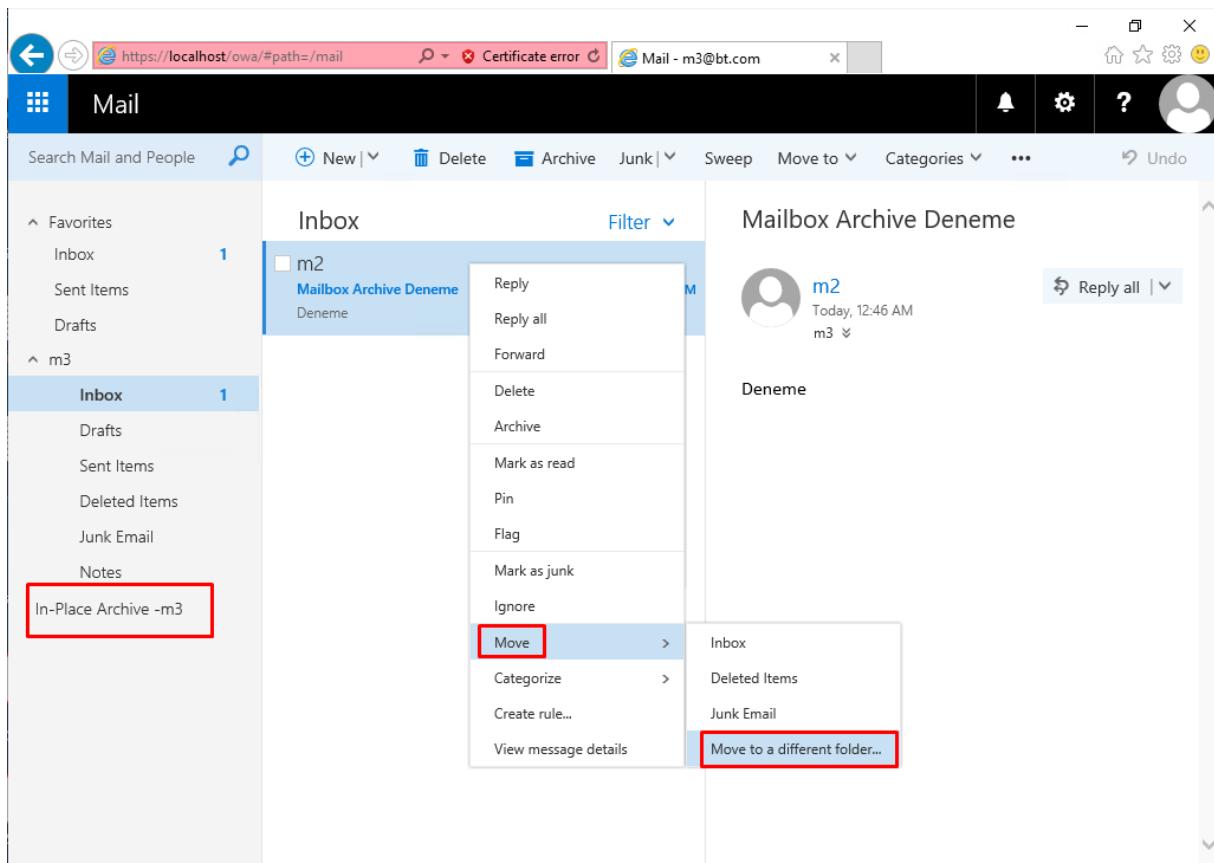
In-Place Archive

Archiving: Enabled

[Disable](#) | [View details](#)

In-Place Hold

User isn't under hold



Move 1 conversation

- ^ m3
 - Inbox
 - Drafts
 - Sent Items
 - Deleted Items
 - Junk Email
 - Notes
 - In-Place Archive -m3**
 - Deleted Items

Copy this conversation to the selected folder

Move

Cancel

https://localhost/owa/#path=/mail/archivems Certificate error Mail - m3@bt.com

Mail

Search Mail and People

New | Reply all | Delete | Move to | Categories | Undo

Favorites

- Inbox
- Sent Items
- Drafts

m3

- Inbox
- Drafts
- Sent Items
- Deleted Items
- Junk Email
- Notes

In-Place Archive -m3

Filter

m2

Mailbox Archive Deneme
Deneme

12:46 AM

Mailbox Archive Deneme

m2

Today, 12:46 AM

m3

Deneme

Reply all

Deleted Items

19.

-Mailboxes altından kullanıcı/kullanıcıların kota ayarları için kullanıcıya tıklanıp sağ taraftaki bilgi kısmının “In-place Archive” → “View Details” tıklanır.

The screenshot shows the Exchange admin center interface. On the left, there's a sidebar with various categories like recipients, mailboxes, groups, resources, contacts, shared, and migration. The 'mailboxes' tab is selected. The main area displays a table of mailboxes with columns for DISPLAY NAME, MAILBOX TYPE, and EMAIL ADDRESS. One row is highlighted for 'm3' with the value 'User (Archive)' in the 'MAILBOX TYPE' column. To the right of the table, there's a detailed view for the selected mailbox. This view includes sections for Unified Messaging (Disabled), Mobile Devices (Disable Exchange ActiveSync, Disable OWA for Devices, View details), In-Place Archive (Enabled, View details), and Email Connectivity (Outlook on the web: Enabled). The 'View details' link under In-Place Archive is specifically highlighted with a red box.

DISPLAY NAME	MAILBOX TYPE	EMAIL ADDRESS	
Administrator	User	Administrator@bt.com	Unified Messaging: Disabled
m1	User	m1@bt.com	Enable
m2	User	m2@bt.com	Mobile Devices
m3	User (Archive)	m3@bt.com	Disable Exchange ActiveSync Disable OWA for Devices View details
m4	User	m4@bt.com	In-Place Archive
m5	User	m5@bt.com	Archiving: Enabled
m6	User	m6@bt.com	Disable View details
m7	User	m7@bt.com	In-Place Hold
m8	User	m8@bt.com	User isn't under hold
Mehmetcan Topal	User	mt@bt.com	Email Connectivity
mert burc	User	mb@bt.com	Outlook on the web: Enabled
Mert2 Burc	User	mertb@bt.com	

-Sahip olacağı kota ve ne kadarlık bir kullanımından sonra uyarı alacağı değerler girilir ve işlem tamamlanır.

Archive Mailbox - Internet Explorer

archive mailbox

Status:
Local archive created

Database:
TestDB

Name:
In-Place Archive -m3

Archive usage:
Archive usage displays the archive storage limit and current usage. [Learn more](#)

613.56 KB used, 0% of 100 GB.

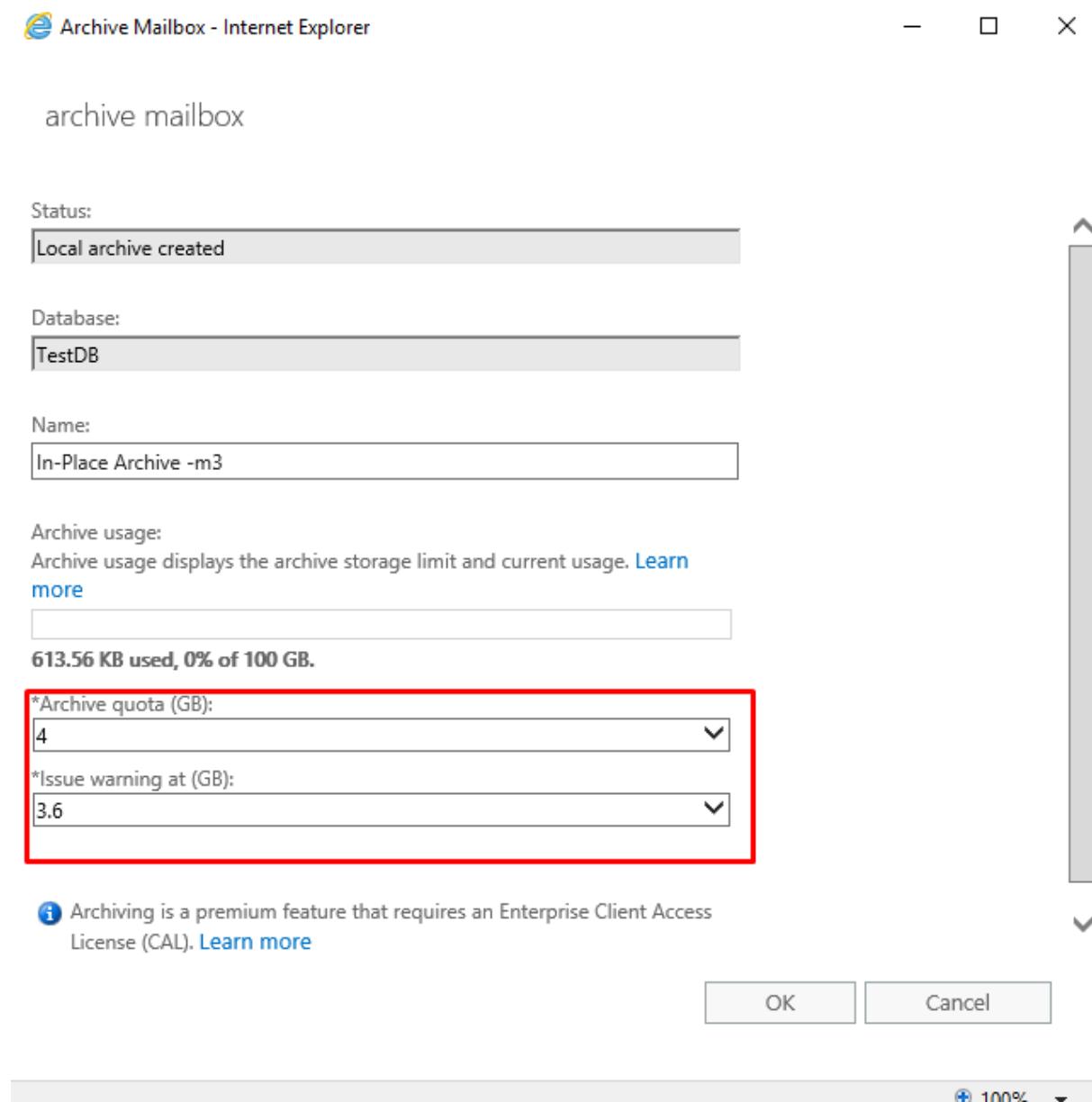
*Archive quota (GB):
4

*Issue warning at (GB):
3.6

i Archiving is a premium feature that requires an Enterprise Client Access License (CAL). [Learn more](#)

OK Cancel

⊕ 100%



20.

-Public Folder oluşturmak için Admin arayüzünden “Public Folders” altından “Public Folder Mailboxes” altından “+” simgesine tıklanır.

The screenshot shows the Exchange admin center interface. On the left, there's a navigation menu with various categories like recipients, permissions, compliance management, organization, protection, mail flow, mobile, and public folders. The 'public folders' item is selected and highlighted with a red box. On the right, under 'public folders', the 'public folder mailboxes' section is also highlighted with a red box. Below it, there's a table header with columns for 'NAME' and 'CONTAINS'. A large red box surrounds the 'NAME' column header and the first row of the table. A tooltip message above the table reads: "Every public folder must be contained in a public folder mailbox. Click Add + to create a public folder mailbox." At the bottom of the table area, it says "0 selected of 0 total".

- İsim verilir ve kaydedilir.

Public Folder Mailbox - Internet Explorer

new public folder mailbox

The first public folder mailbox created will contain the writable copy of the public folder hierarchy.

*Name:

Organizational unit:

Mailbox database:

100%

- Ardından “Public Folders” altından “+” simgesine tıklanır.

The screenshot shows the Exchange admin center interface. The left sidebar has a list of management categories: recipients, permissions, compliance management, organization, protection, mail flow, mobile, public folders (which is selected and highlighted with a red box), unified messaging, servers, and hybrid. The main content area is titled "public folders" and shows "public folder mailboxes". It features a toolbar with icons for add (+), edit (pencil), delete (trash), move (up/down), and more. Below the toolbar is a search bar with the placeholder "\\" and a navigation bar with arrows. A table header row includes columns for "SUBFOLDER N...", "HAS SUBFOLDERS", "MAIL ENABLED", and "MAILBOX". A message below the table states: "No public folders exist in this organization. Before you create a public folder, please make sure that you created at least one public folder mailbox. To create a public folder, click 'Add' +. After you create the public folder, you'll need to assign permissions so users can access it and create subfolders." At the bottom of the content area, a footer says "0 selected of 0 total".

- İsim verilir ve kaydedilir.



- Public Folder oluşturulduktan sonra sağ taraftaki bilgiler kısmında “Mail settings” “Disable” olarak gözükmektedir, “Enable”a tıklayıp erişim aktive edilir.

The screenshot shows the Exchange admin center interface. On the left, there's a navigation menu with items like recipients, permissions, compliance management, organization, protection, mail flow, mobile, and public folders (which is currently selected). The main area displays a table of public folder mailboxes. The table has columns: SUBFOLDER N..., HAS SUBFOLDERS, MAIL ENABLED, and MAILBOX. A single row is selected, showing 'Public Folder' in the MAILBOX column. To the right of the table, detailed information about the selected folder is shown: Path: \Public Folder, Total items: 0, Modified: 12/4/2019 9:22 AM, Size (MB): 0. A red box highlights the 'Mail settings - Disabled' link under the folder details. At the bottom of the table area, it says '1 selected of 1 total'.

SUBFOLDER N...	HAS SUBFOLDERS	MAIL ENABLED	MAILBOX
Public Folder	No	No	PublicFolder Mail...

- “Yes” ile onaylanır.

Warning

Are you sure you want to enable email for the selected public folders?

Yes

No

- Erişim aktive edildikten sonra oluşturduğumuz “Public Folder”a hangi kullanıcıların erişip erişemeyeceğini ayarlamak için “Folder Permissions” kısmından “Manage”a tıklanır.

The screenshot shows the Exchange admin center interface. On the left, there's a navigation pane with various categories like recipients, permissions, compliance management, organization, protection, mail flow, mobile, and public folders. Under public folders, 'public folders' is selected. The main area displays a table of public folders. One row in the table is highlighted with a red box around the 'Yes' button in the 'MAIL ENABLED' column. To the right of the table, detailed information about a specific public folder is shown, including its path (\Public Folder), item count (0), modification date (12/4/2019 9:22 AM), size (0 MB), and mail settings status (Enabled). A red box highlights the 'Manage' link under 'Folder permissions'.

SUBFOLDER N...	HAS SUBFOLDERS	MAIL ENABLED	MAILBOX
Public Folder	No	Yes	PublicFolder Mai...

Public Folder
Path: \Public Folder
Total items: 0
Modified: 12/4/2019 9:22 AM
Size (MB): 0
Mail settings - Enabled
[Disable](#)
[Folder permissions](#)
Manage

- Kullanıcı/kullanıcılar eklenir.

Public Folder Permissions - Internet Explorer

Public Folder

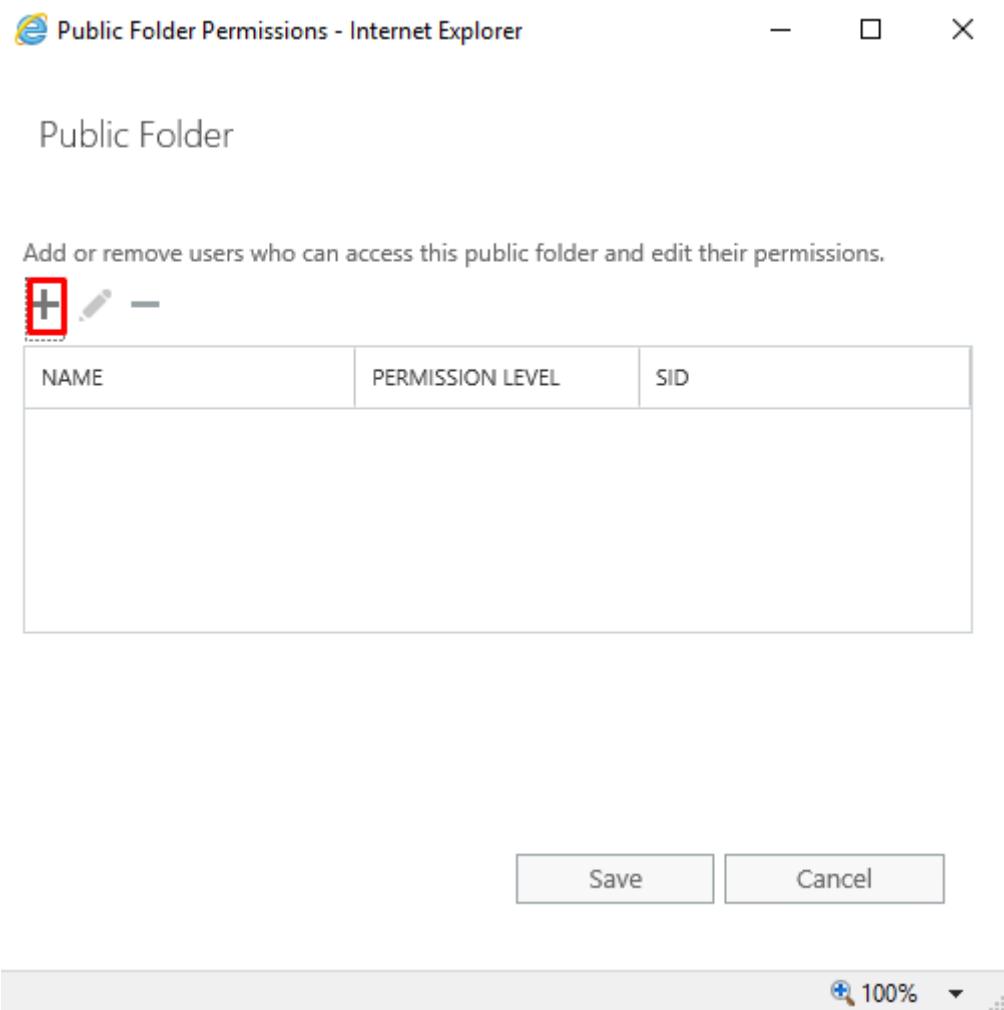
Add or remove users who can access this public folder and edit their permissions.

NAME	PERMISSION LEVEL	SID

Save Cancel

100%



- Eklenen kullanıcı/kullanıcıların sahip olacağı yetkiler belirlenir. Biz "m7" kullanıcımız için tüm yetkileri verdik.

 Public Folder Permissions -- Webpage Dialog X

public folder permissions

*User: Browse...

Permission level: Owner

<input checked="" type="checkbox"/> Create items	<input checked="" type="checkbox"/> Folder owner
<input checked="" type="checkbox"/> Read items	<input checked="" type="checkbox"/> Folder contact
<input checked="" type="checkbox"/> Create subfolders	<input checked="" type="checkbox"/> Folder visible
<input checked="" type="checkbox"/> Edit own	<input checked="" type="checkbox"/> Delete own
<input checked="" type="checkbox"/> Edit all	<input checked="" type="checkbox"/> Delete all

Save Cancel

- “m6” kullanıcımız için ise kısıtlamada bulunduk.

 Public Folder Permissions -- Webpage Dialog X

public folder permissions

*User: X Browse...

Permission level: Custom ▼

<input type="checkbox"/> Create items	<input type="checkbox"/> Folder owner
<input type="checkbox"/> Read items	<input type="checkbox"/> Folder contact
<input type="checkbox"/> Create subfolders	<input checked="" type="checkbox"/> Folder visible
<input type="checkbox"/> Edit own	<input type="checkbox"/> Delete own
<input type="checkbox"/> Edit all	<input type="checkbox"/> Delete all

Save Cancel

- Kullanıcılar oluşturulduktan sonra kaydedilir.

Public Folder Permissions - Internet Explorer

Public Folder

Add or remove users who can access this public folder and edit their permissions.

+ -

NAME	PERMISSION LEVEL	SID
m7	Owner	
m8	Owner	
m6	Custom	

Save Cancel

100%

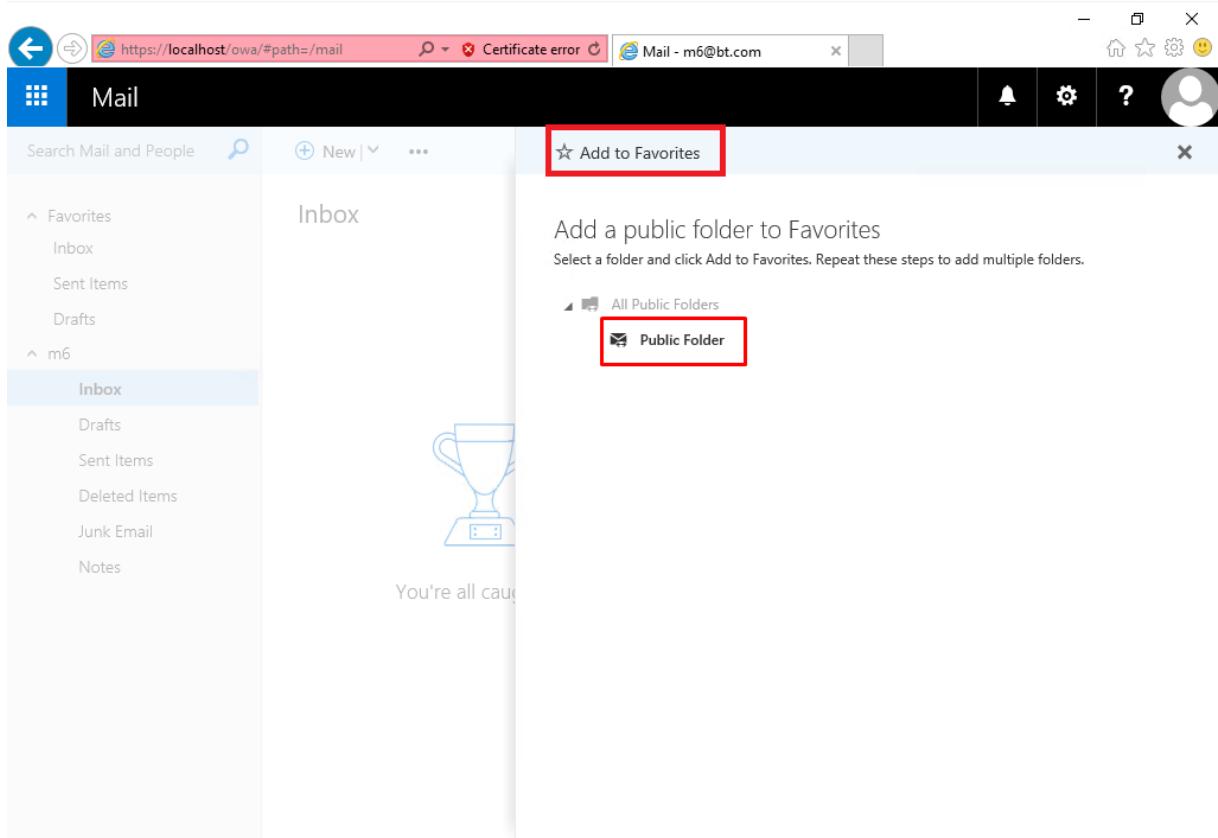
- Oluşturduğumuz public folder'a yetkisi dahilinde "m7" kullanıcımız tarafından mail atarız.

The screenshot shows the Microsoft Outlook Web App interface. The left sidebar has a tree view with 'Public Folder' selected under 'm7'. The main area shows a 'Public Folder' screen with a blue folder icon and the message 'This folder is empty.' To the right, a new email is being composed to 'Public Folder'. The recipient field contains 'Post to: Public Folder'. The message body starts with 'merhabalar' and ends with 'as|'. Below the message body are rich text editing tools. At the bottom are 'Post' and 'Discard' buttons.

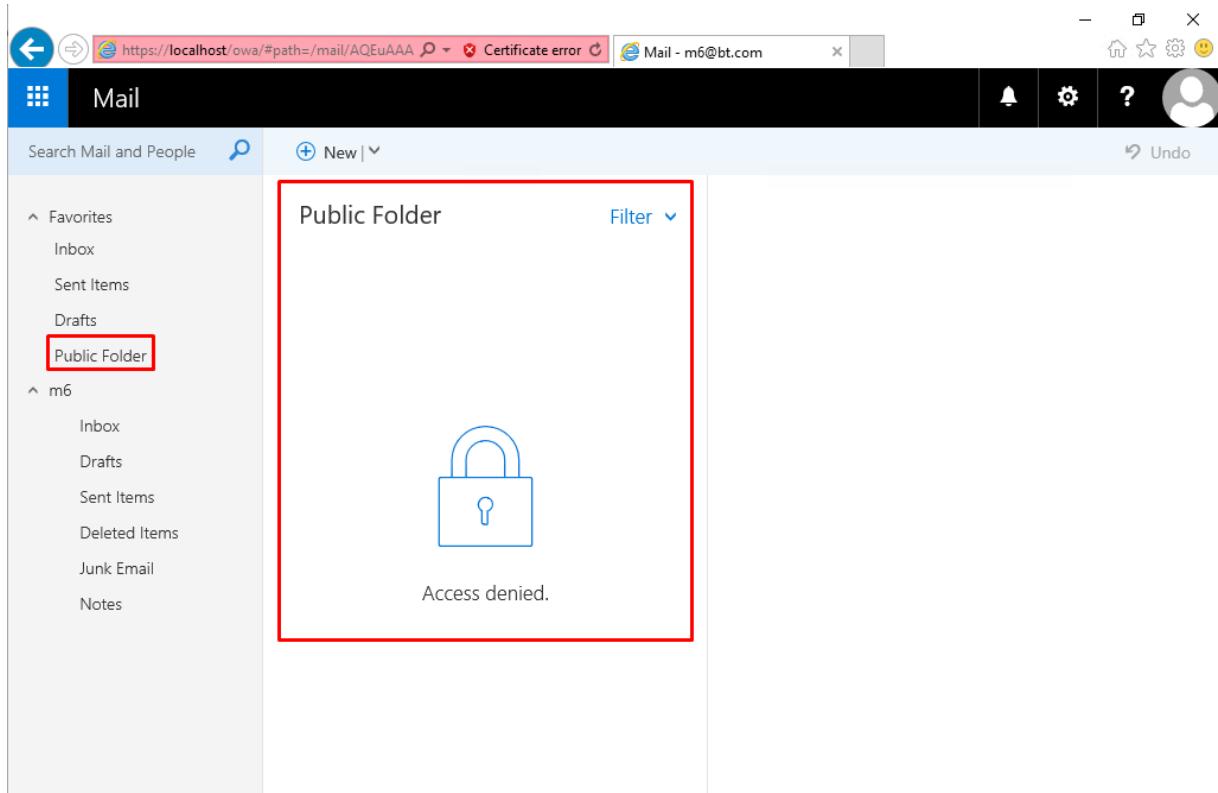
- "m6" kullanıcımızdan public folder'a erişmek için "Favorites" → "Add public folder to Favorites" tıklanır.

The screenshot shows the Microsoft Outlook Web App interface. The left sidebar has a tree view with 'Inbox' selected under 'm6'. The main area shows an 'Inbox' screen with a trophy icon and the message 'You're all caught up.'. A tooltip 'Add public folder to Favorites' appears over the 'Favorites' button in the top navigation bar. The top navigation bar also includes 'New', 'Filter', and other standard OWA icons.

- Public folder seçilir ve “Add to Favorites” denir.



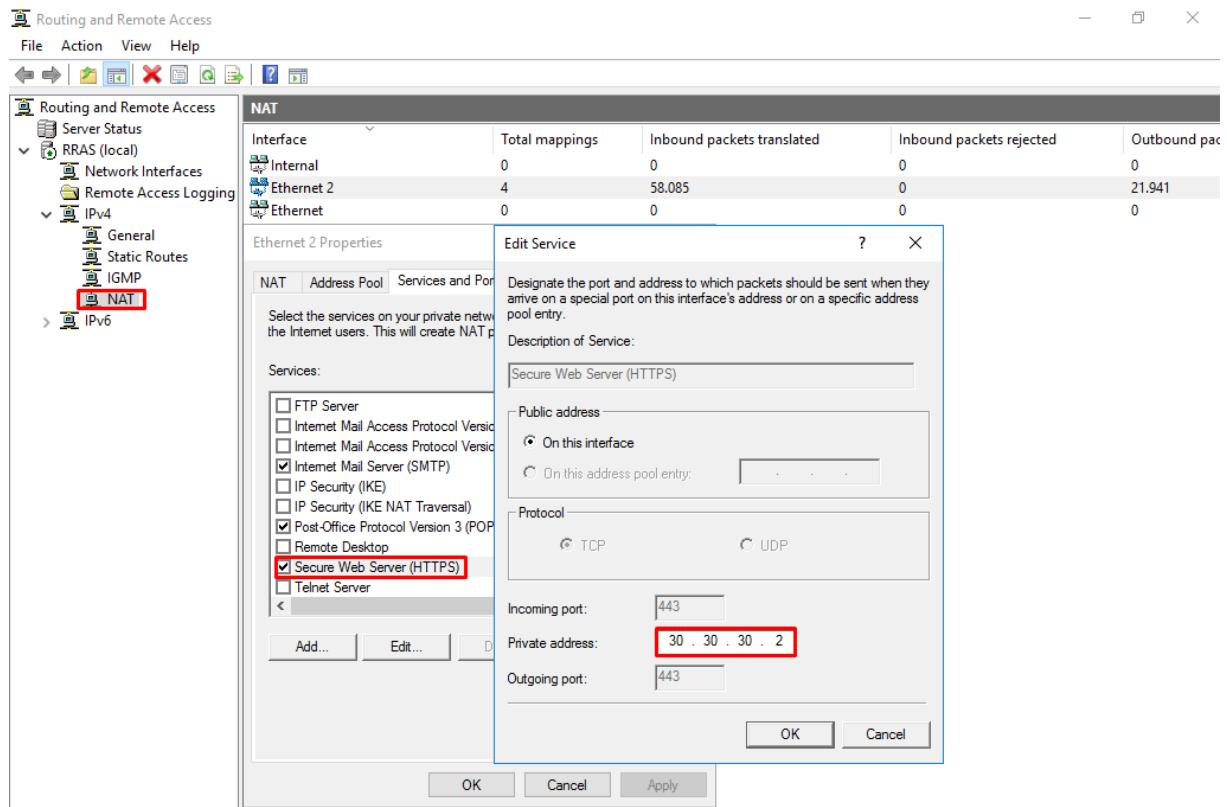
- Fakat “m6” kullanıcımız public folder'a erişimden sonra hiçbir yetki vermediğimizden (okuma, yazma vb.) dosya içindeki maillere ulaşamamaktadır.



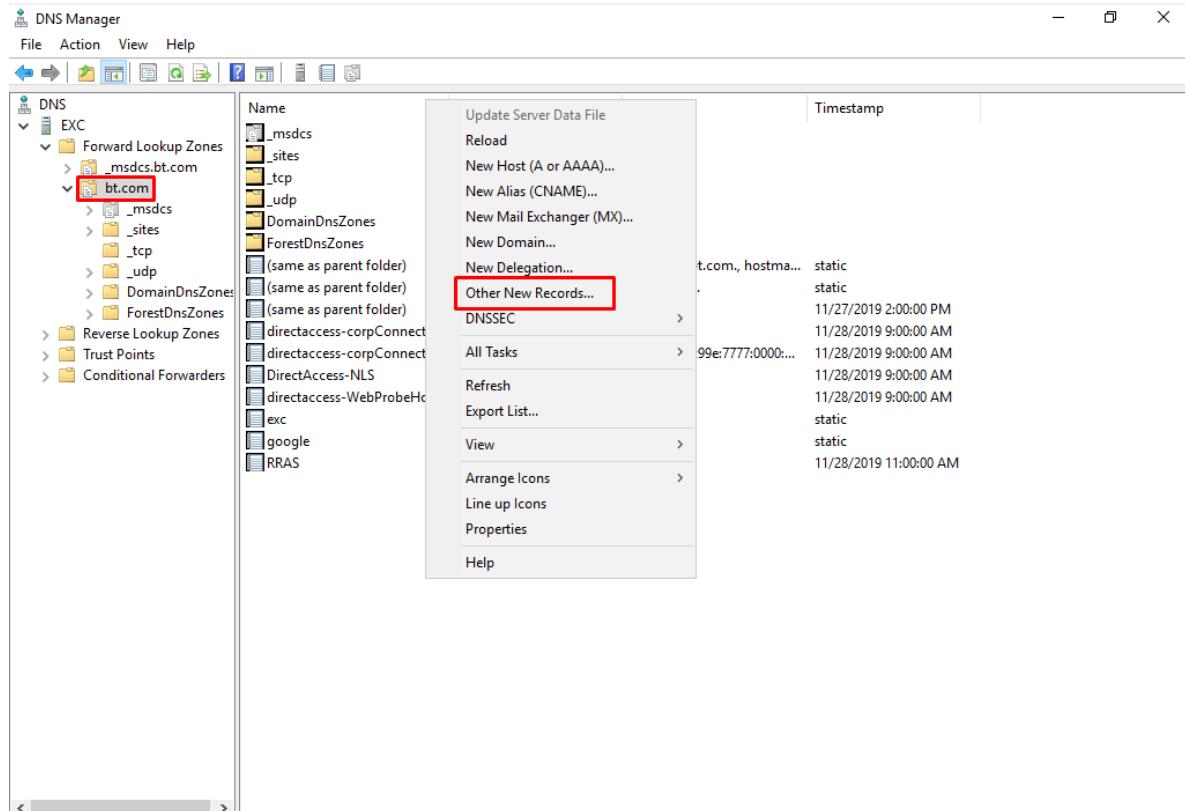
21.

- İlk olarak bazı RRAS ve Exchange Server komut ayarları yapılır.

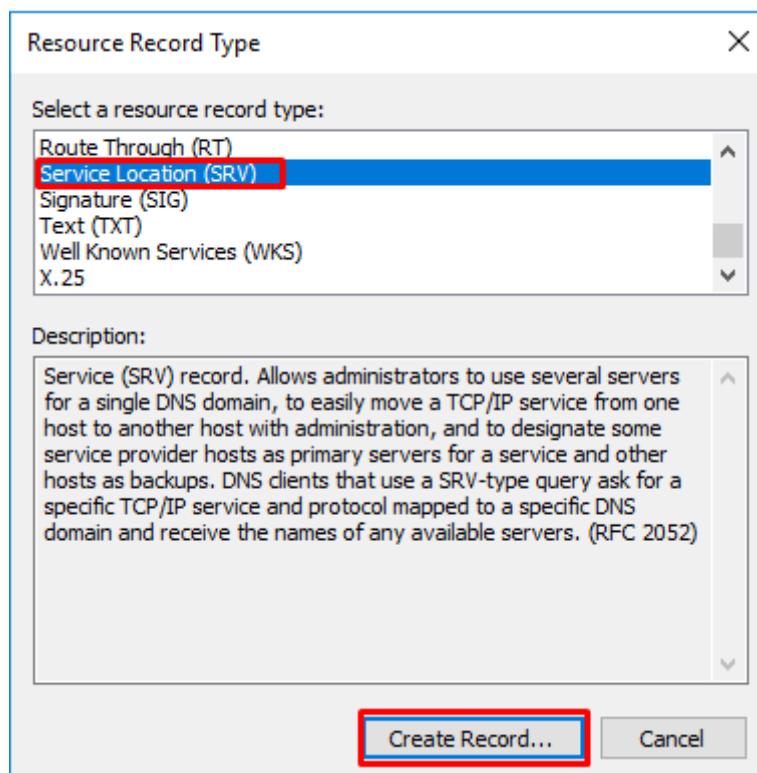
- RRAS cihazımızın “Routing ve Remote Access” kısmından “NAT” içinde “Ethernet2” içinde “Secure Web Server” aktive edilerek Exchange Server’ımızın IP adresi girilir.

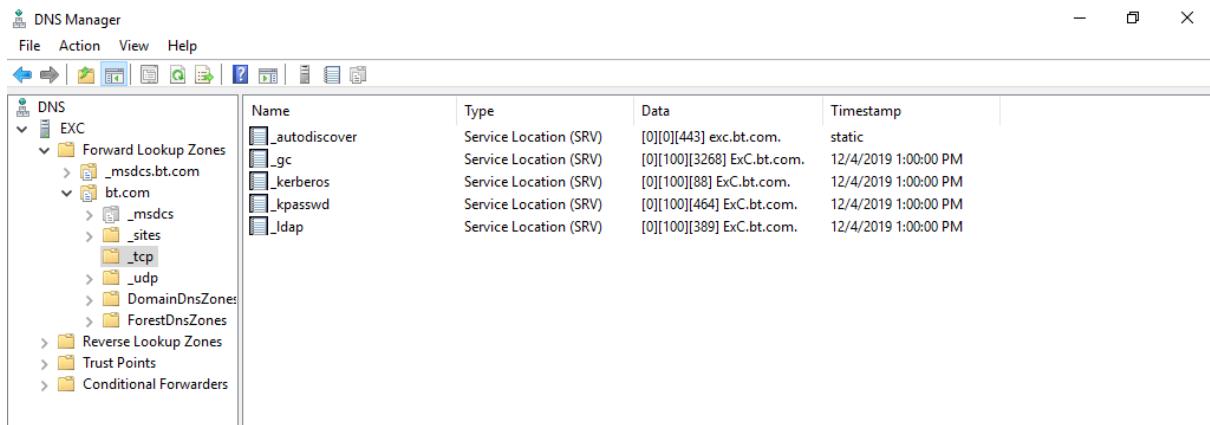


- Ardından “DNS Manager”dan domain’imize girip “Other New Records” denir.



- “Service Location (SRV)” tıklanıp “Create Record” denir ve eklenmiş olur.





- Ardından Exchange Server’ımızın kurulu olduğu cihazda “Exchange Management Shell”e şu komutlar girilir ve servisler yeniden başlatılır..

> Set-ImapSettings -server "(Cihaz Adı)" -X509CertificateName imap.(Domain Adı)

> Set-PopSettings -server "(Cihaz Adı)" -X509CertificateName pop. (Domain Adı)

```

Machine: ExC.bt.com
Welcome to the Exchange Management Shell!

Full list of cmdlets: Get-Command
Only Exchange cmdlets: Get-ExCommand
Cmdlets that match a specific string: Help *<string>*
Get general help: Help
Get help for a cmdlet: Help <cmdlet name> or <cmdlet name> -?
Exchange team blog: Get-ExBlog
Show full output for a command: <command> | Format-List

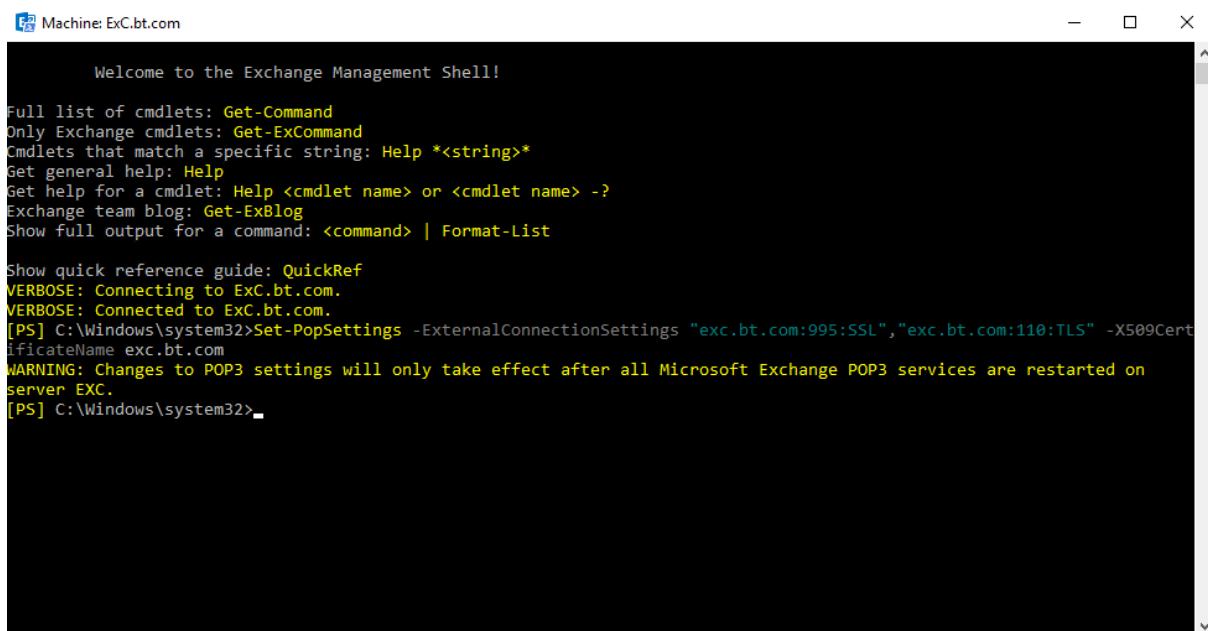
Show quick reference guide: QuickRef
VERBOSE: Connecting to ExC.bt.com.
VERBOSE: Connected to ExC.bt.com.
[PS] C:\Windows\system32>Set-ImapSettings -server "ExC" -X509CertificateName imap.bt.com
WARNING: Changes to IMAP4 settings will only take effect after all Microsoft Exchange IMAP4 services are restarted on server EXC.
[PS] C:\Windows\system32>Set-PopSettings -server "ExC" -X509CertificateName pop.bt.com
WARNING: Changes to POP3 settings will only take effect after all Microsoft Exchange POP3 services are restarted on server EXC.
[PS] C:\Windows\system32>

```

- Servisler yeniden başlatıldıktan sonra şu komutu gireriz.

> Set-PopSettings -ExternalConnectionSettings "(Cihaz Adı):995:SSL","(Cihaz Adı):110:TLS" -X509CertificateName (Cihaz Adı)

Ardından servisler yeniden başlatılır.



The screenshot shows a Windows Command Prompt window titled "Machine: ExC.bt.com". The title bar has standard minimize, maximize, and close buttons. The main area of the window displays the output of the Exchange Management Shell. It starts with a welcome message: "Welcome to the Exchange Management Shell!". Below this, it lists various cmdlets and their descriptions. A specific command is being run: [PS] C:\Windows\system32>Set-PopSettings -ExternalConnectionSettings "exc.bt.com:995:SSL","exc.bt.com:110:TLS" -X509CertificateName exc.bt.com. A warning message follows: "WARNING: Changes to POP3 settings will only take effect after all Microsoft Exchange POP3 services are restarted on server EXC.". The command concludes with "[PS] C:\Windows\system32>".

- Ardından kişisel bilgisayarımızdan şirket maillerimize ulaşmak için Outlook kurulumu yapılır. Windows cihazlarda otomatik gelmektedir.

- Next denir.

Welcome to Microsoft Outlook 2016 X

Welcome to Outlook 2016

Outlook is your personal assistant, helping you manage your life with powerful tools for email, calendar, contacts, and tasks.

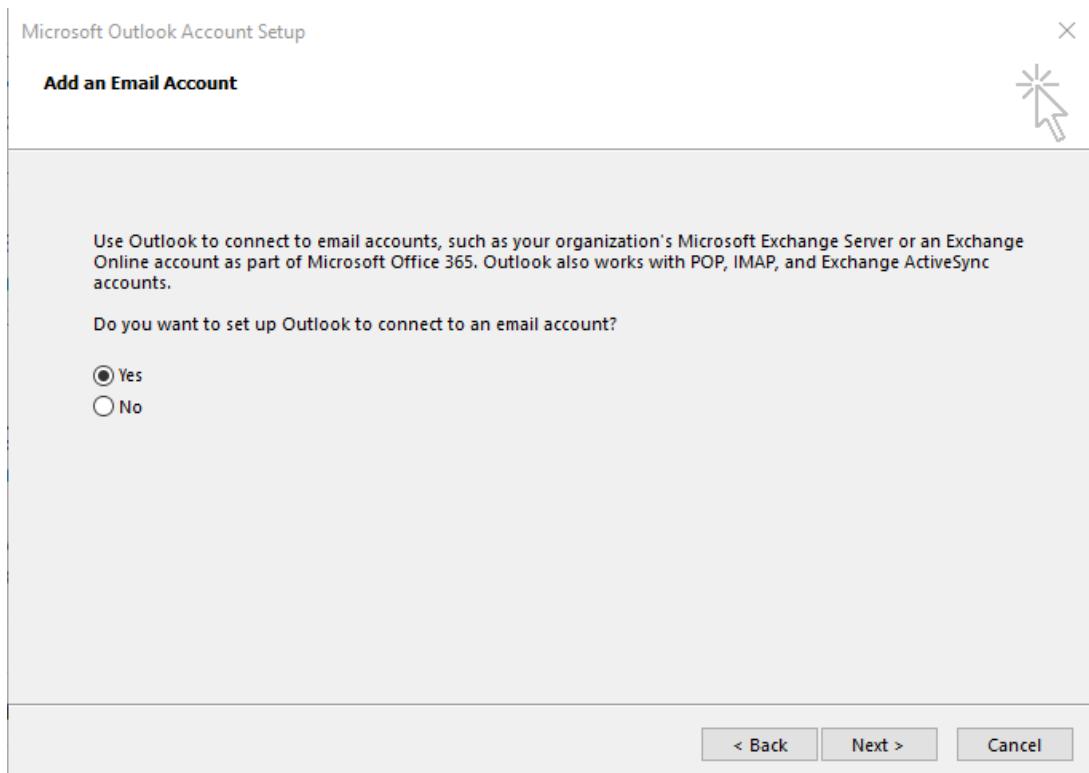
Let's get started. In the next few steps, we'll add your email account.

< Back

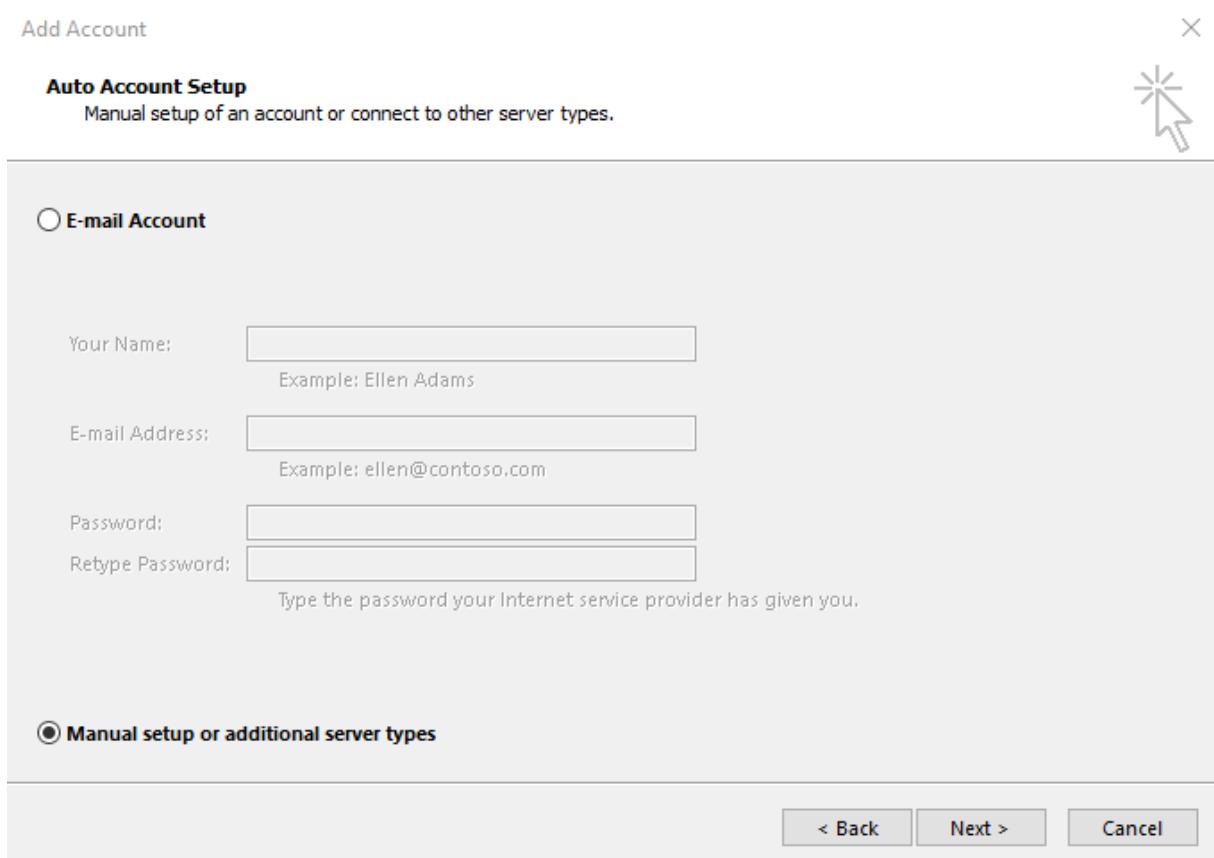
Next >

Cancel

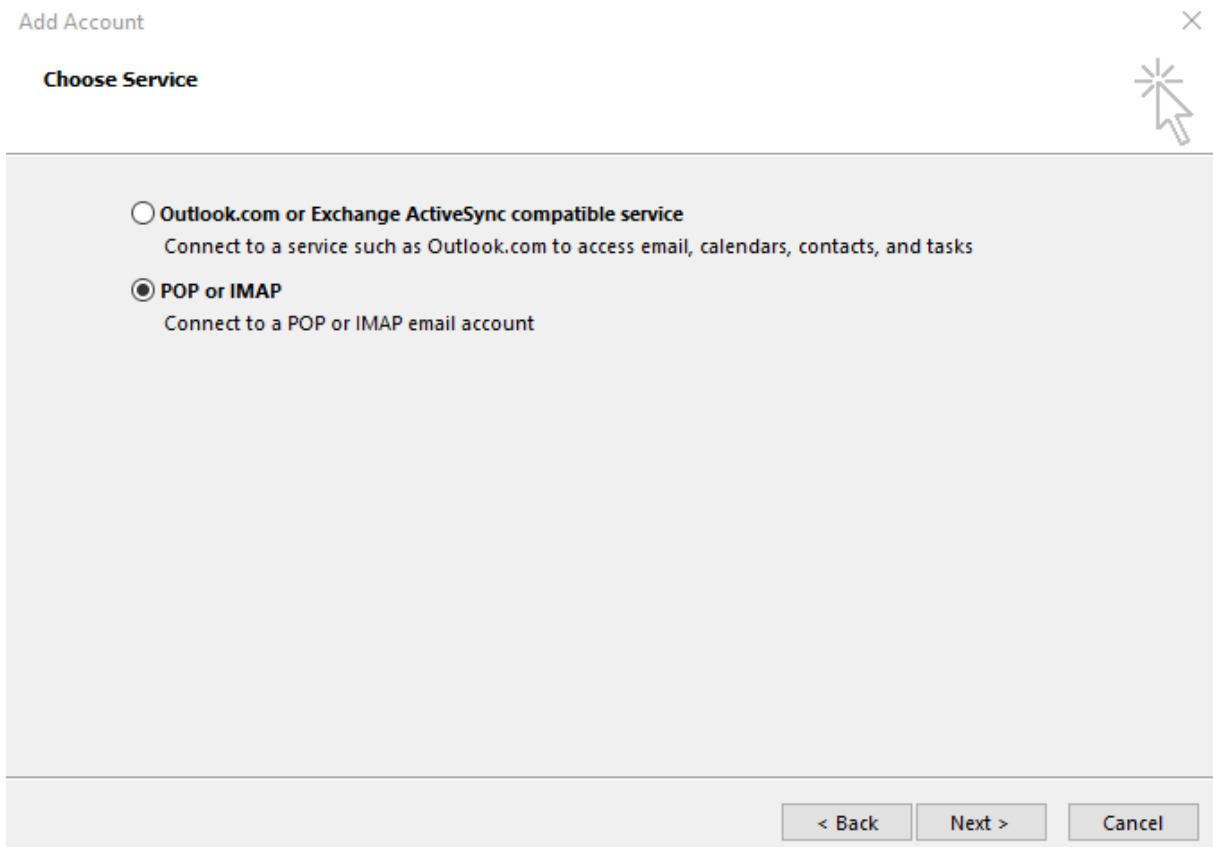
- “Yes” denir.



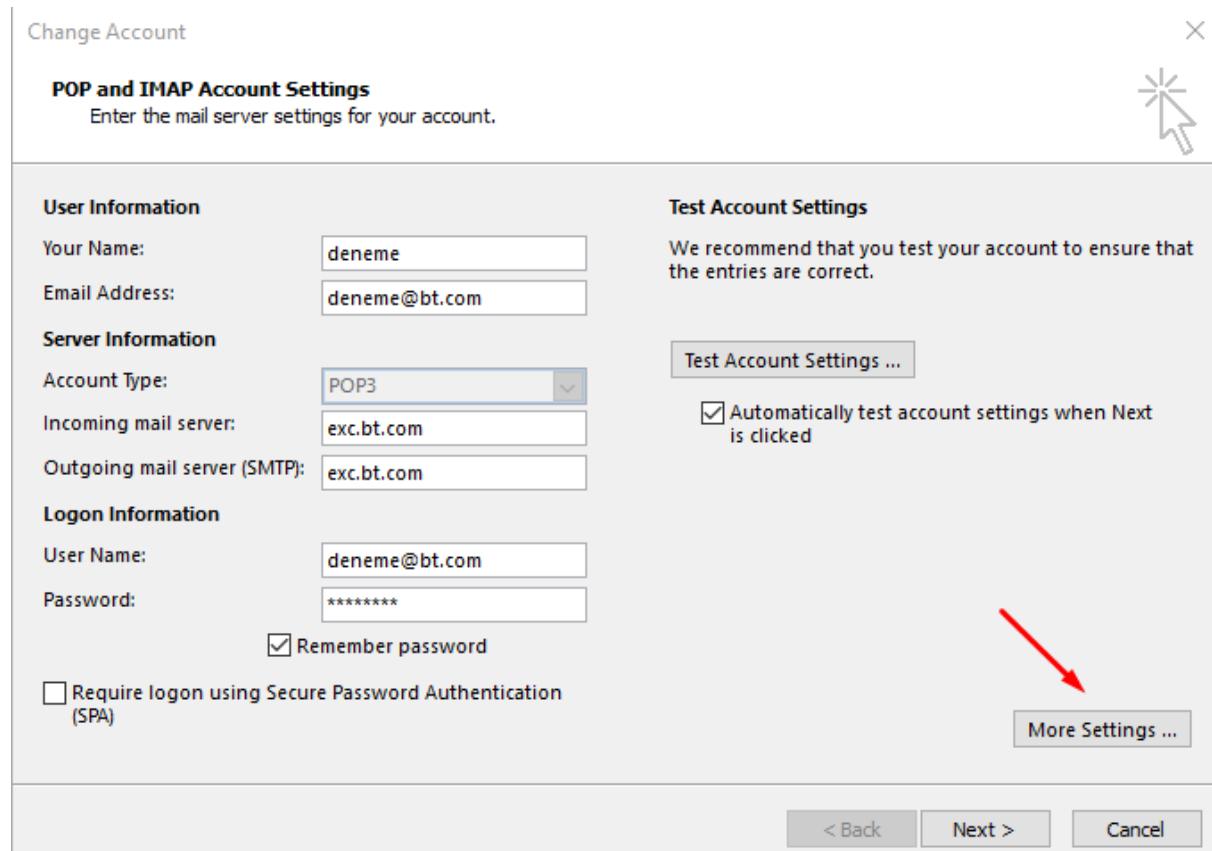
- “Manual setup or additional server types” ile devam edilir.



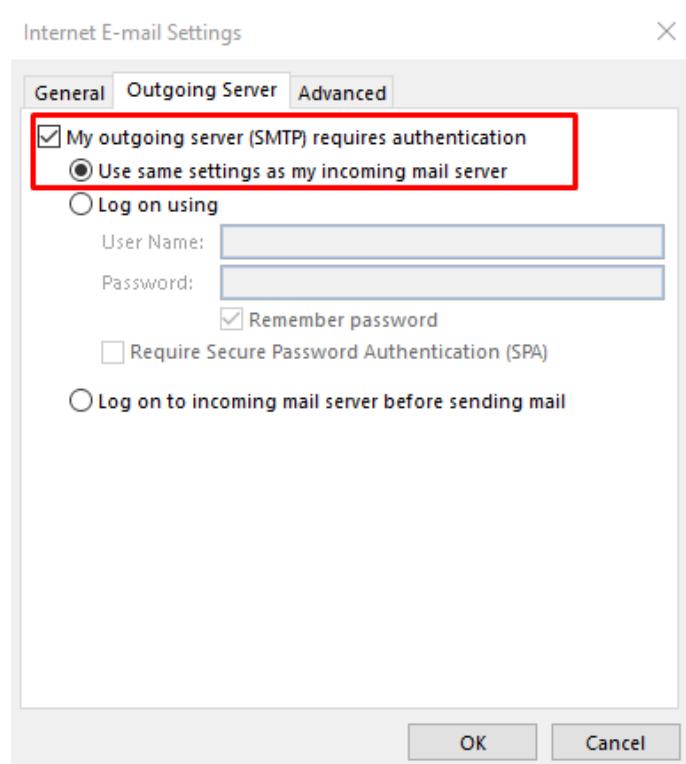
- “Pop or IMAP” ile devam edilir.



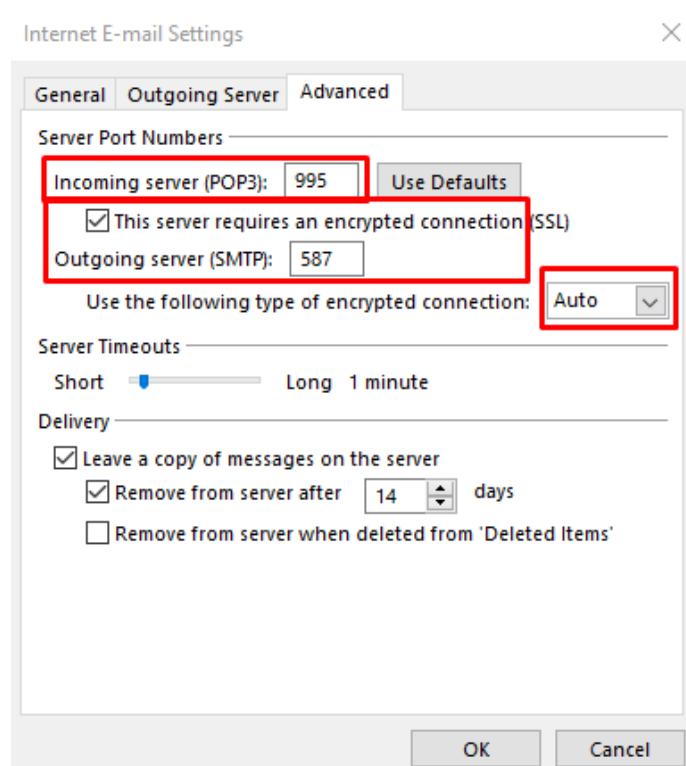
- Kullanıcı bilgileri ve Exchange Server bilgileri girilir. "Account Type" POP3 seçilir (POP3 ile yapacağımız için). Bilgiler girildikten sonra "More Settings" tıklanır.



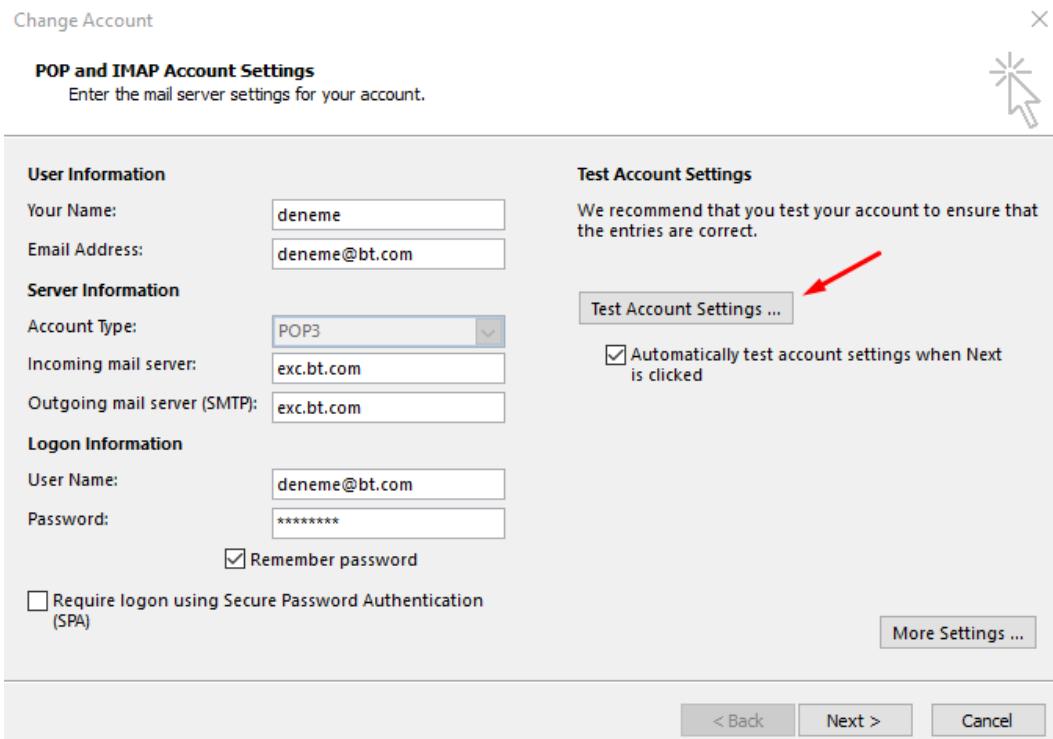
- “Outgoing Server” Altından “My outgoing server (SMTP) requires authentication” ve “Use same settings as my incoming mail server” işaretlenir.



- “Advanced” kısmı altından “Incoming server : 995”, “Outgoing server : 587” ve “Use the following type of encrypted connection : Auto” olarak ayarlanır ve kaydedilir.

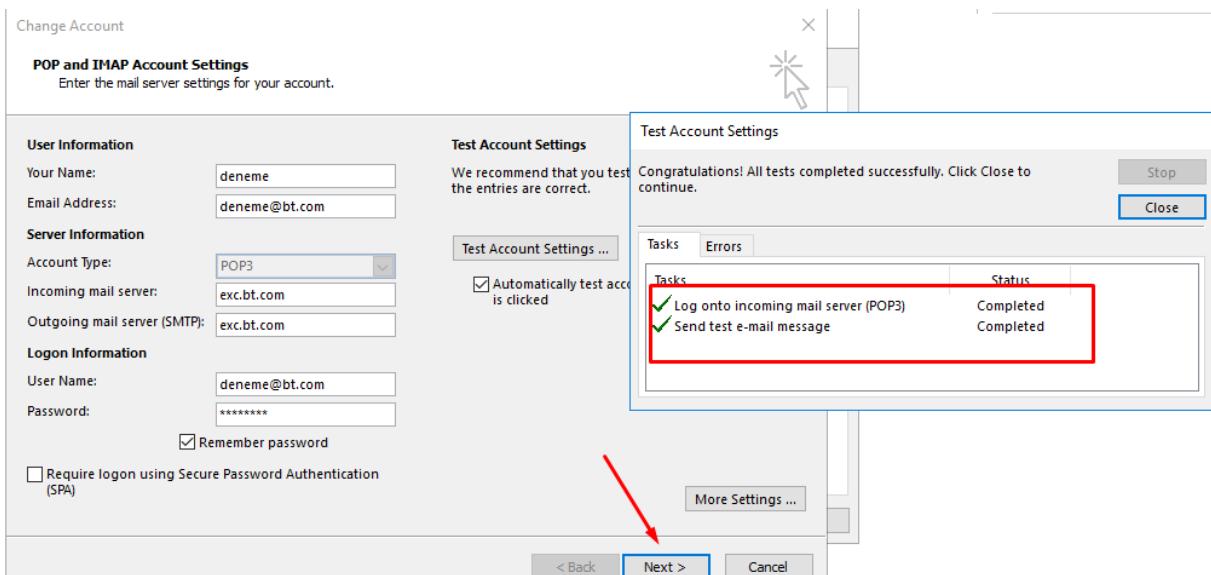


- Ayarlamalar yapıldıktan sonra “Test Account Settings” denir



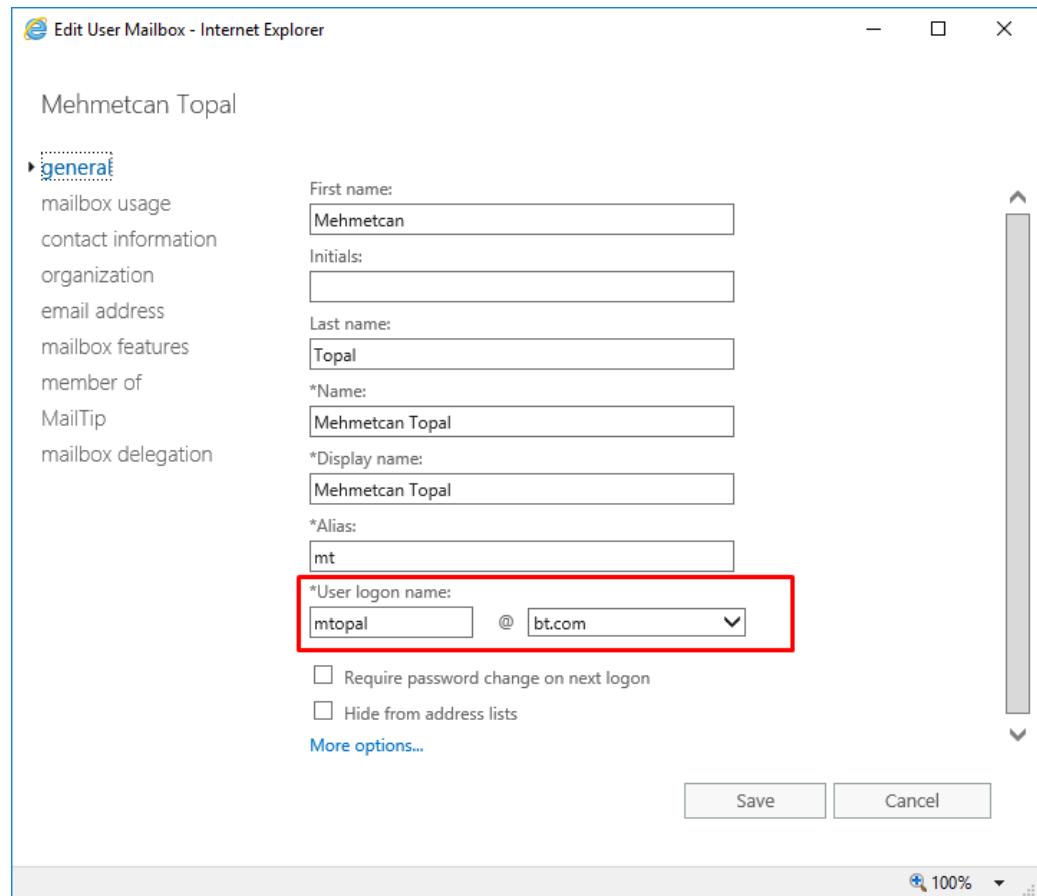
- Ayarlamaların doğru ve bilgilerin doğru olduğu kontrol edilir.

POP3 kısmında hata alınırsa RRAS cihazı üzerinde “Routing ve Remote Access”
→ NAT → Ethernet2 → POP3 ayarları kontrol edilir ve 2 resim önceki POP3’ün port numarası farklı alternatifler olarak girilebilir.



Send message kısmında hata alınırsa girilen bilgiler kontrol edilmelidir.

Kullanıcının “User Logon Name” kısmındaki gibi girilmesi gerekebilir. Microsoft altında bu şekilde değişik küçük hatalarla karşılaşılmaktadır.



The screenshot shows the 'Edit User Mailbox' dialog in Internet Explorer. The 'general' tab is selected. The 'User logon name' field contains 'mtopal' and has a dropdown suffix '@ bt.com'. This entire input field is highlighted with a red rectangle. Below the input fields are two checkboxes: 'Require password change on next logon' and 'Hide from address lists'. A 'More options...' link is also present. At the bottom are 'Save' and 'Cancel' buttons.

Below the dialog, the Outlook ribbon is visible with tabs like Home, Insert, Page Layout, etc. A context menu is open over an email item, showing options like 'Delete', 'Unread/Read', 'Categorize', 'Follow Up', 'Filter Email', 'Find', and 'Send/Receive All Folders'. A 'Test Account Settings' dialog is also open, showing a success message: 'Congratulations! All tests completed successfully. Click Close to continue.' It includes a 'Stop' button and a 'Close' button. The 'Tasks' tab of the dialog shows two completed tasks: 'Log onto incoming mail server (POP3)' and 'Send test e-mail message', both with status 'Completed'.

Edit User Mailbox - Internet Explorer

Mehmetcan Topal

general

mailbox usage
contact information
organization
email address
mailbox features
member of
MailTip
mailbox delegation

First name: Mehmetcan
Initials:
Last name: Topal
*Name: Mehmetcan Topal
*Display name: Mehmetcan Topal
*Alias: mt
*User logon name: mtopal @ bt.com

Require password change on next logon
 Hide from address lists
[More options...](#)

Save **Cancel**

100%

Add Account

POP and IMAP Account Settings
Enter the mail server settings for your account.

User Information
Your Name: Mehmetcan Topal
Email Address: mt@bt.com

Server Information
Account Type: POP3
Incoming mail server: exc.bt.com
Outgoing mail server (SMTP): exc.bt.com

Logon Information
User Name: mtopal
Password: *****
 Remember password
 Require logon using Secure Password Authentication (SPA)

Test Account Settings
We recommend that you test your account before you start using it.
[Test Account Settings ...](#)
 Automatically test account settings is clicked
Deliver new messages to:
 New Outlook Data File
 Existing Outlook Data File

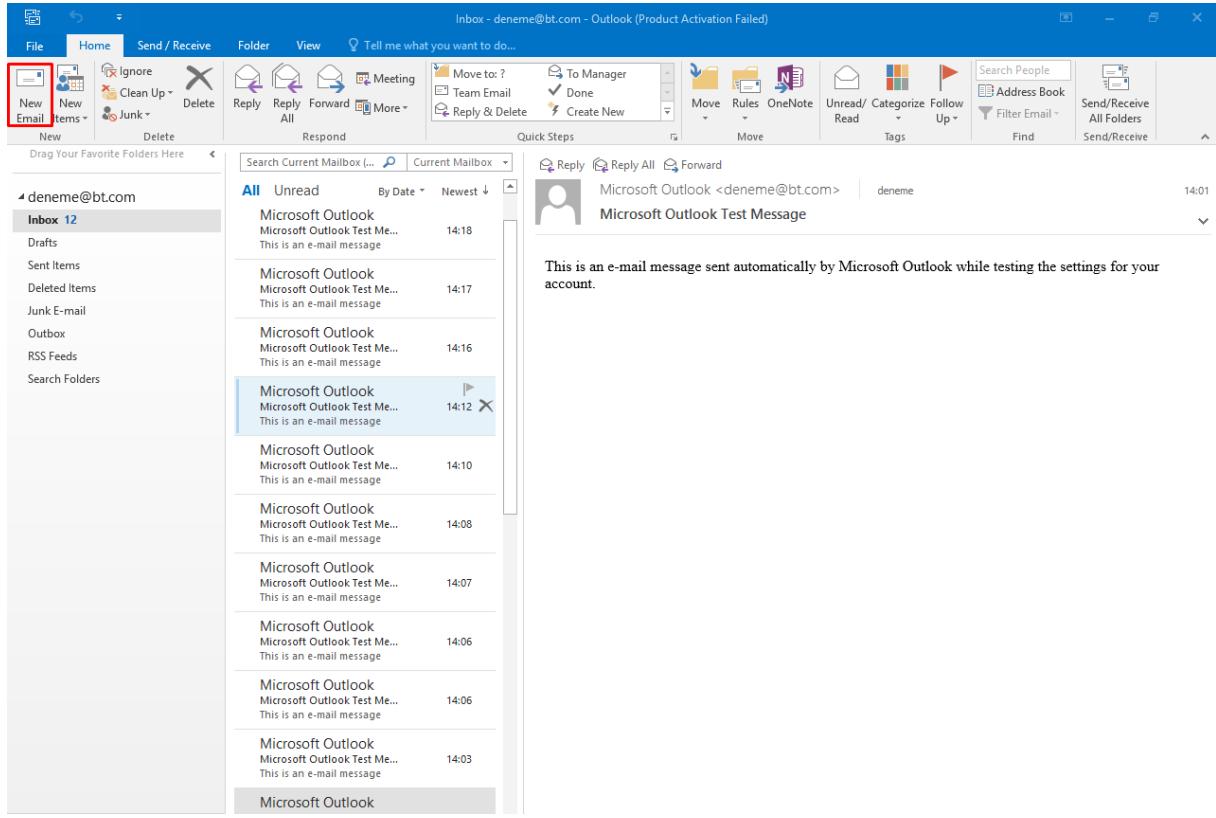
Test Account Settings
Congratulations! All tests completed successfully. Click Close to continue.
Tasks **Errors**

Tasks	Status
✓ Log onto incoming mail server (POP3)	Completed
✓ Send test e-mail message	Completed

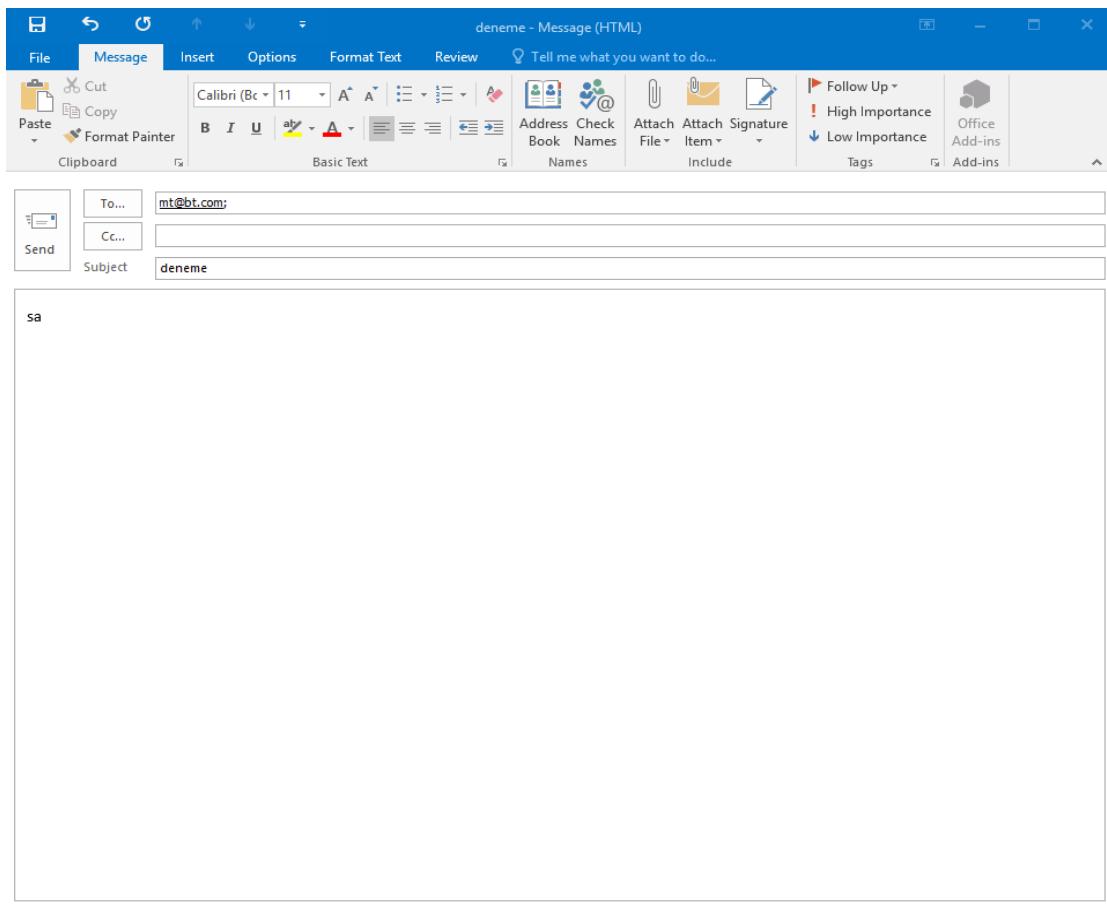
[More Settings ...](#)

< Back **Next >** Cancel

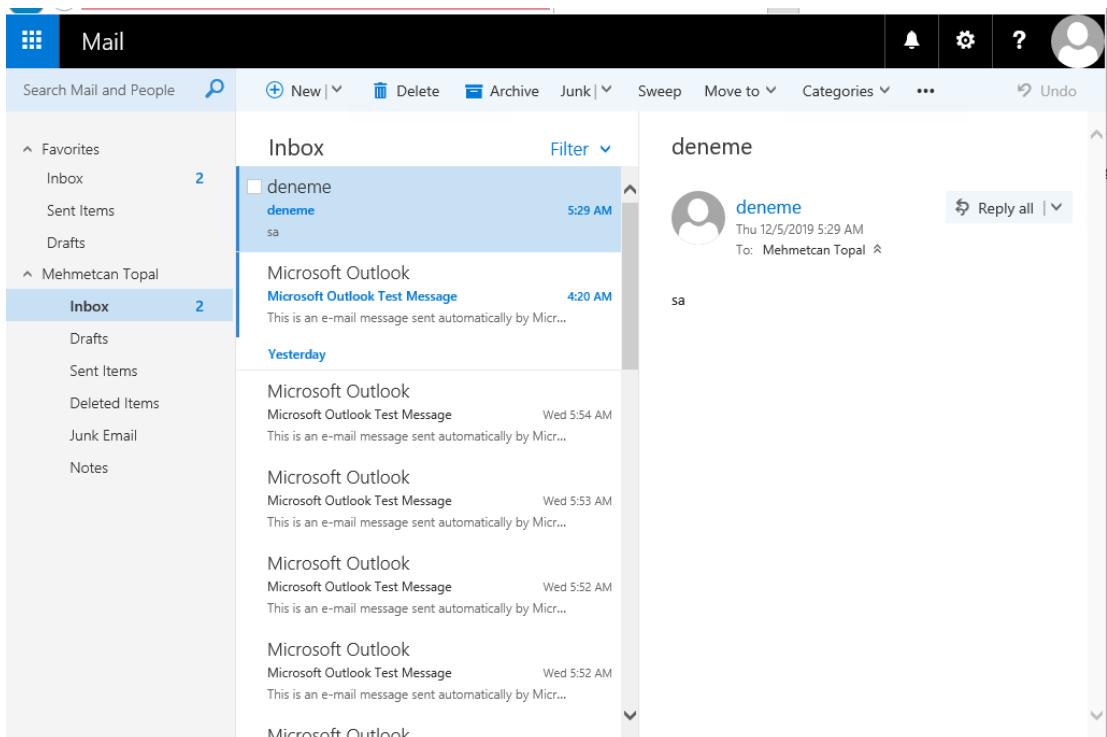
- “deneme” kullanıcımız ile Outlook’tan giriş yaptığımızda ayarların çalışıp çalışmadığını kontrol etmek için mail atılır.



- “mtopal” kullanıcısına mail atılır.



- Şirket cihazı altından “mtopal” kullanıcıı “deneme” kullanıcıından gelen maili görebilmektedir. Outlook ayarlarımız başarılı şekilde sonuçlanmıştır.



22. A-)

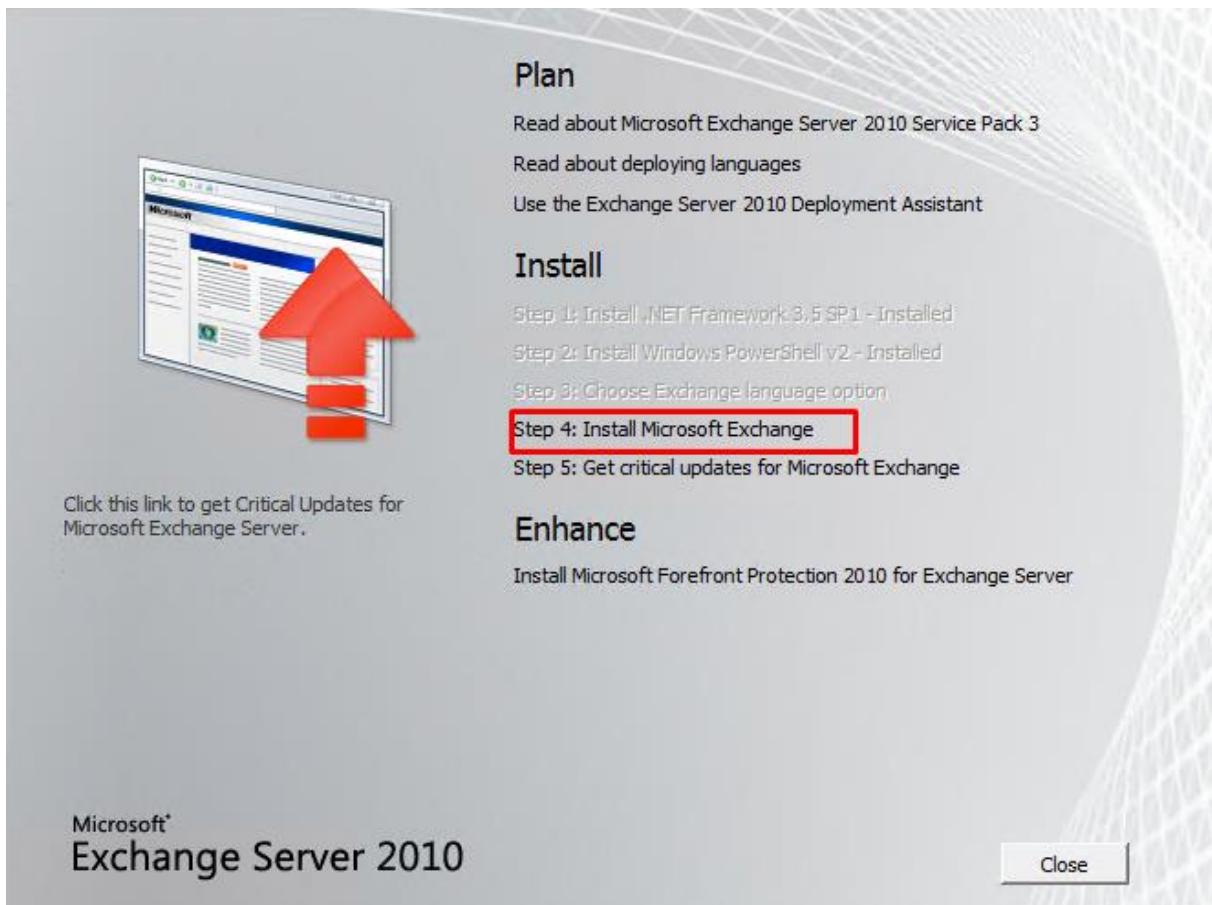
Migration işlemi yani Exchange Server'ı bir sonraki sürüme, hiçbir veri ve ayar kaybı olmadan yükseltme işlemidir.

Şu zamana kadar yaptığımız tüm her şey Server2016 üzerindeydi, Server2019'a migration yapmak şuanda bizim için mümkün değildir çünkü Server2019'un sistem gereksinimleri çok fazla olduğundan bir çok kişinin ve şirketin bu sistem için bütçe ayırması pek olası değildir.

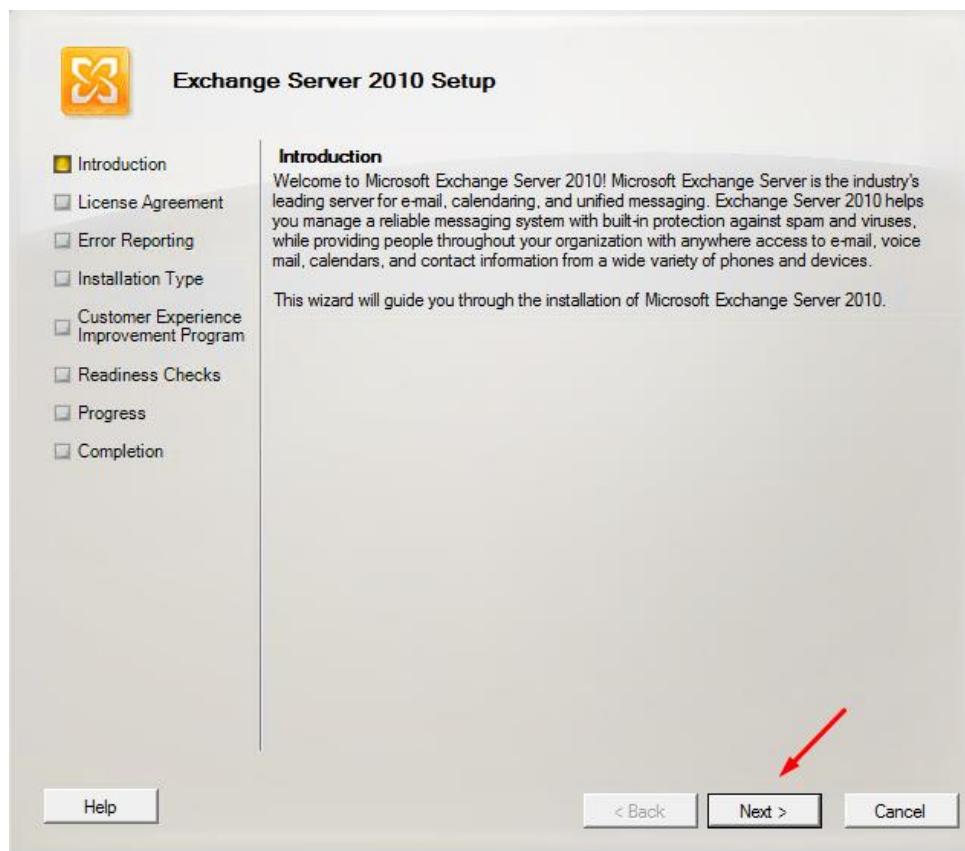
Migration için Exchange Server 2010 ve 2013 kurup, yükseltme işlemini 2010'dan → 2013'e yapacağız. 2010 üzerinde 2-3 tane kullanıcı ve backup yapıp migration yapacağız.

2010'dan 2016'ya yapamamaktayız. Çünkü Exchange Server 2010'u Windows Server 2012 desteklemektedir. Windows Server 2016'ya Exchange Server 2010 desteklenmediği için kurulamamaktadır.

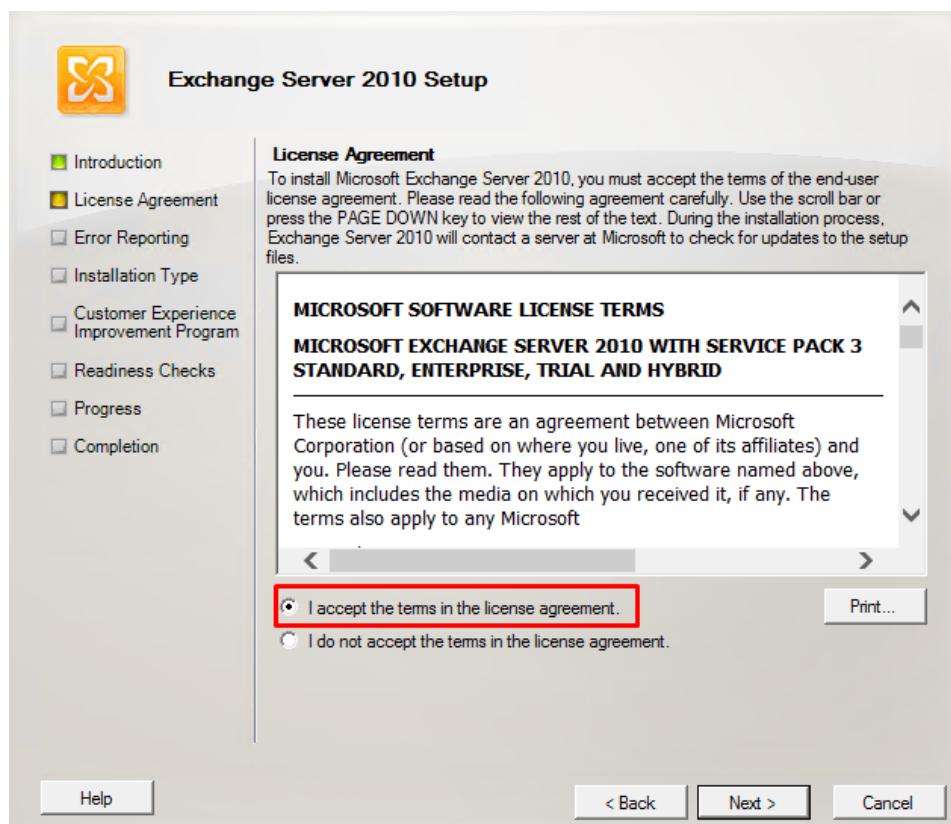
- Exchange Server 2010 kurulum dosyasına tıklanır ve "Step4" seçilir.



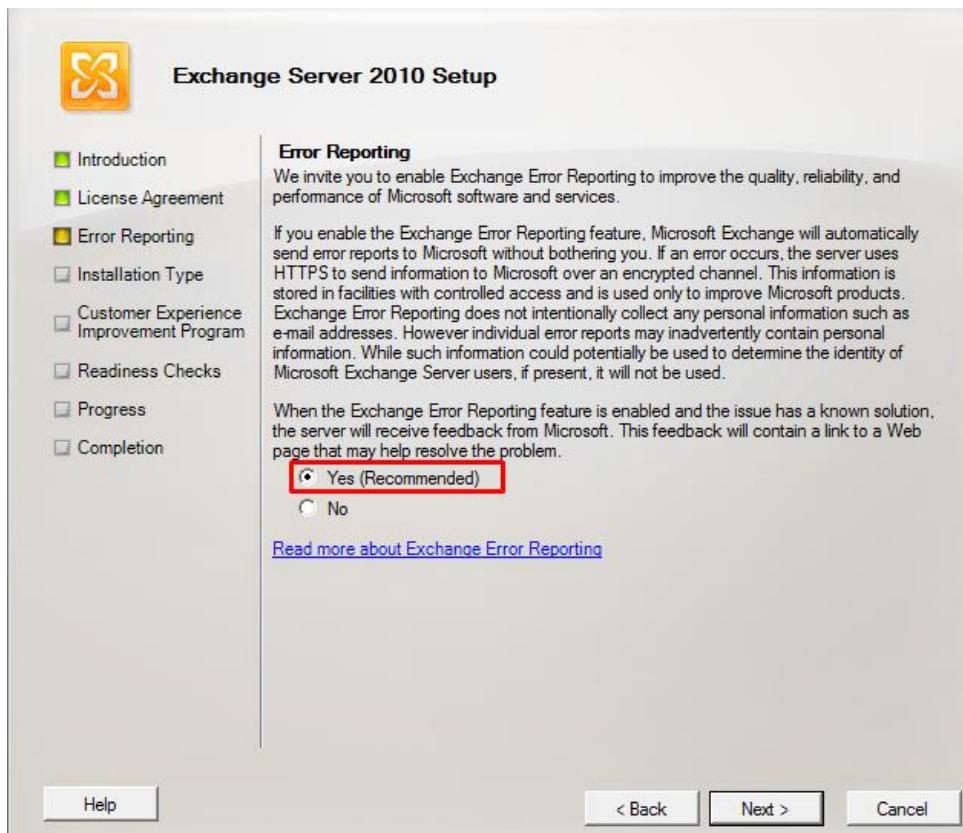
- Next denir.



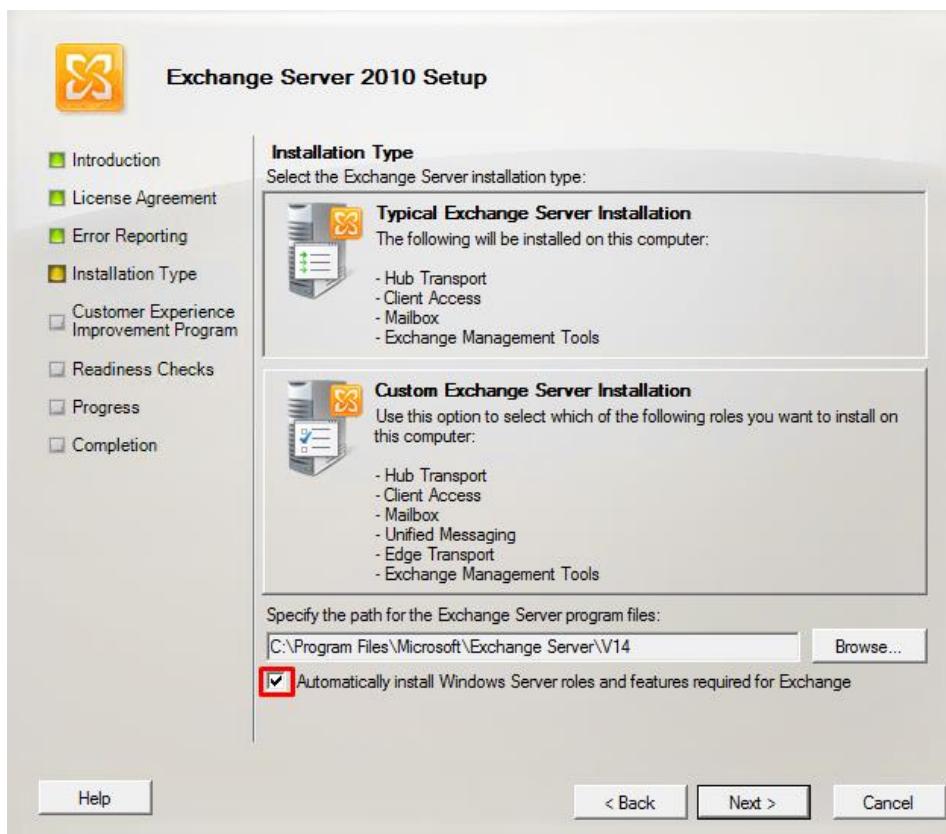
- "Accept" denir ve ilerlenir.



- Yes denir.



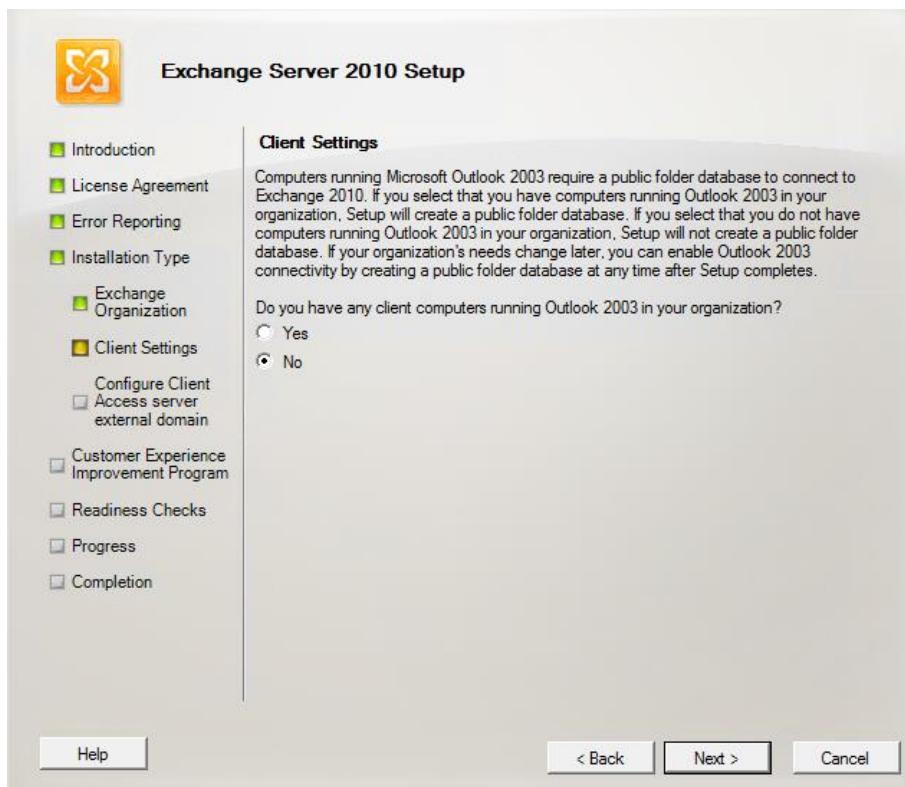
- Server'ın kurulacağı dizin belirlenir ve resimdeki kutucuk işaretlenir.



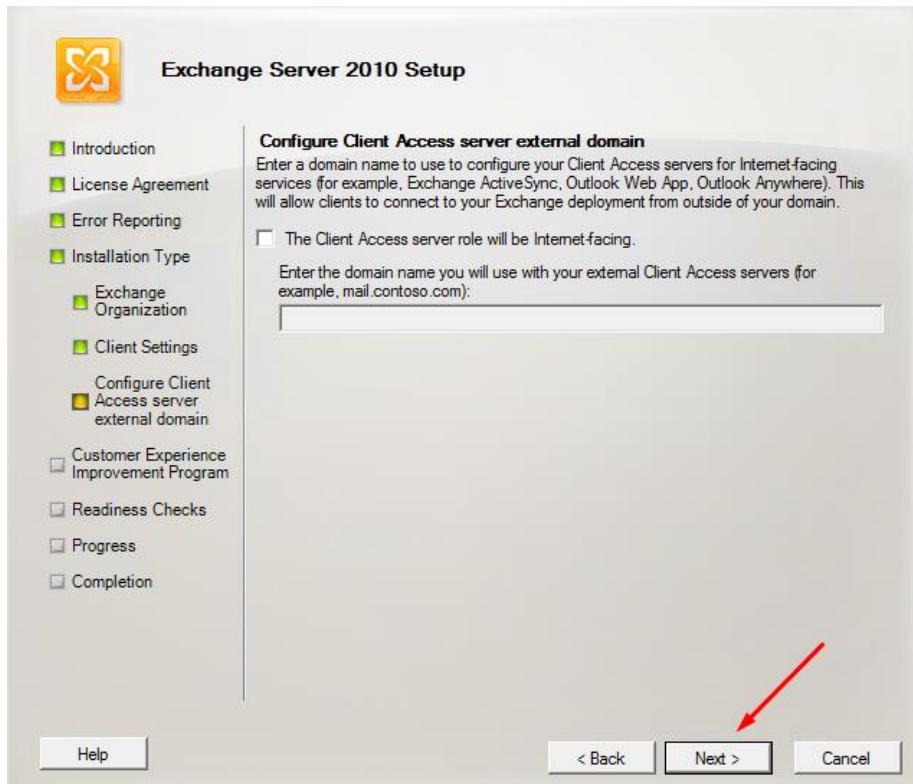
- Next denir.



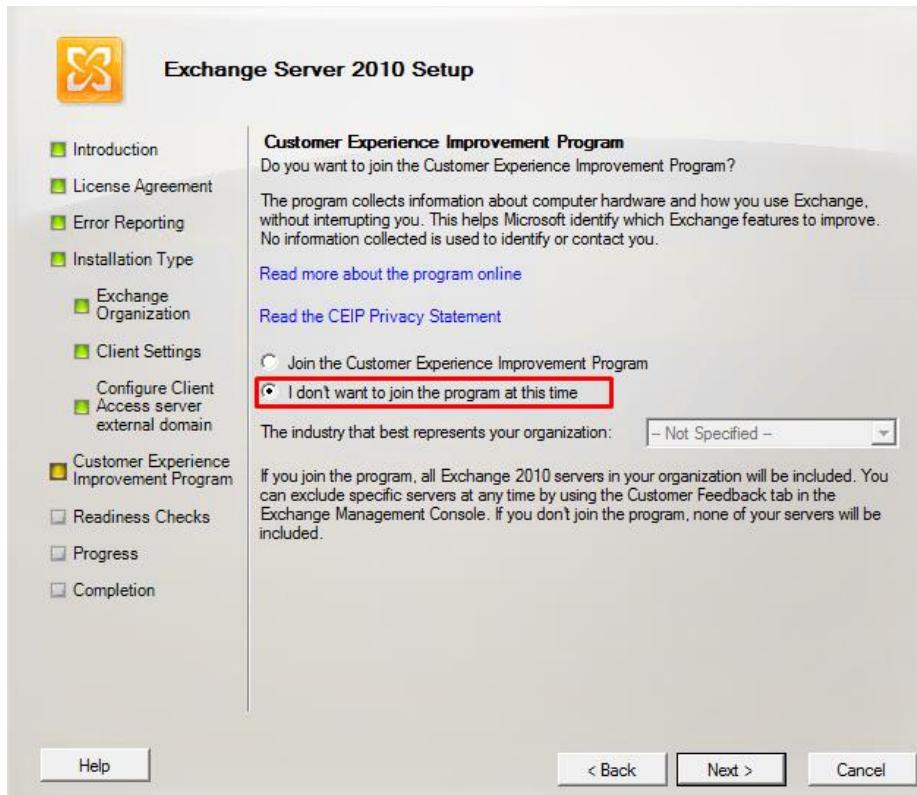
- “No” seçiliğin next denir.



- Next denir.

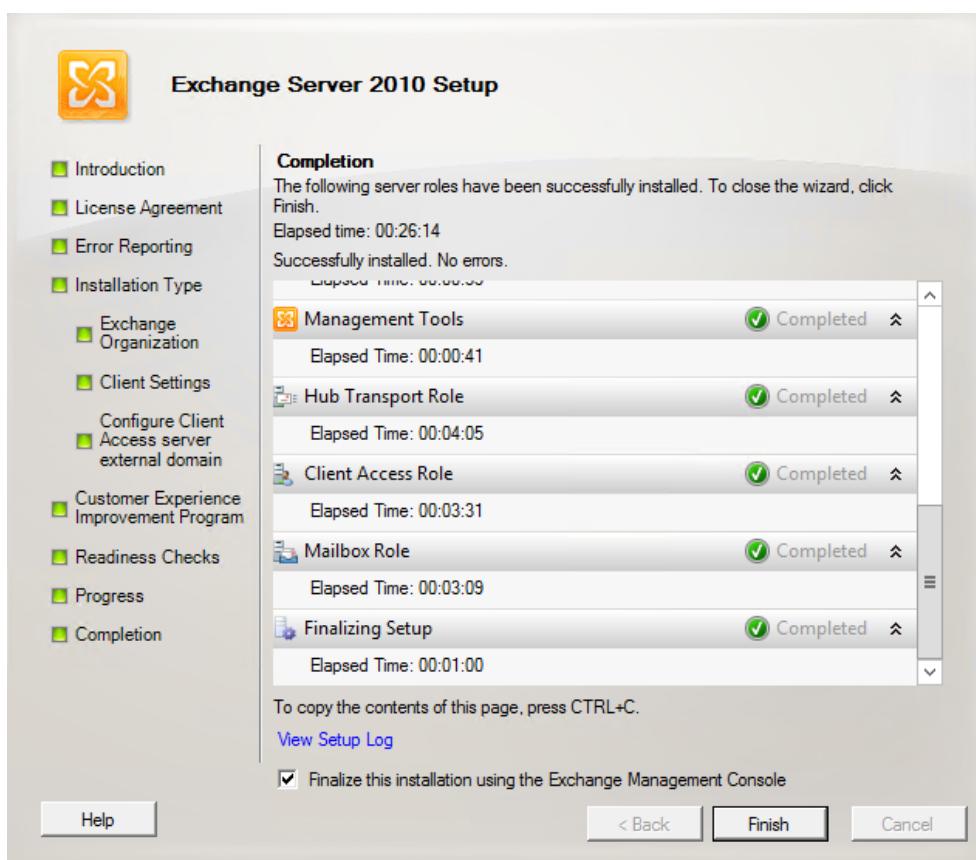
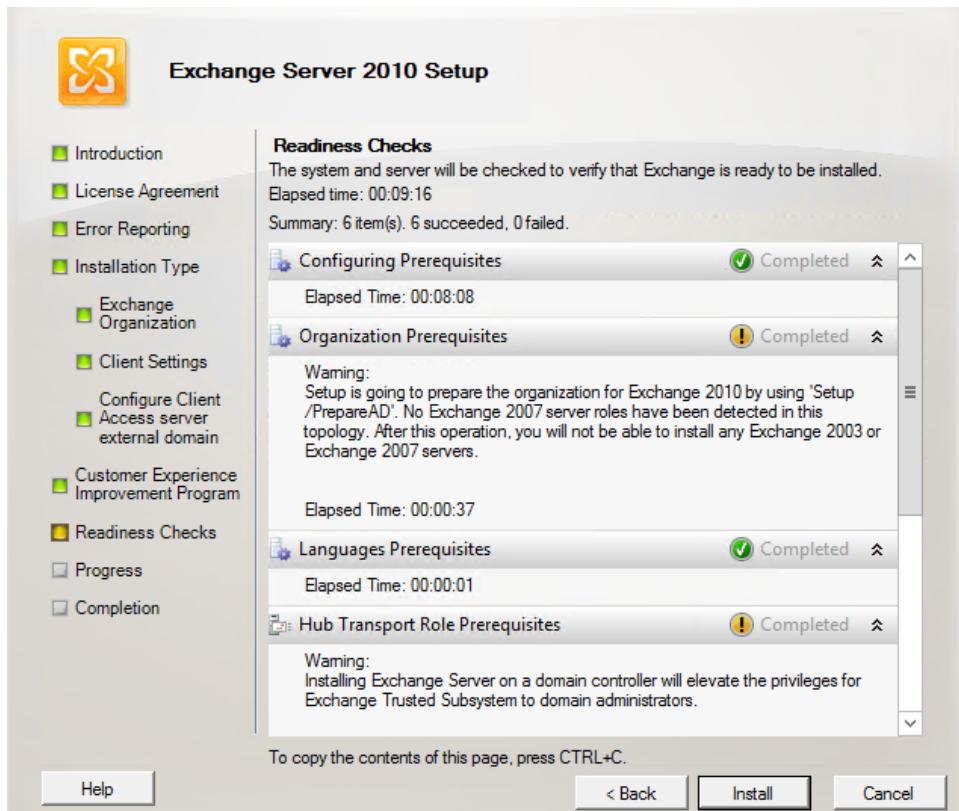


- "I don't want" kısmı seçilir ve ilerlenir.

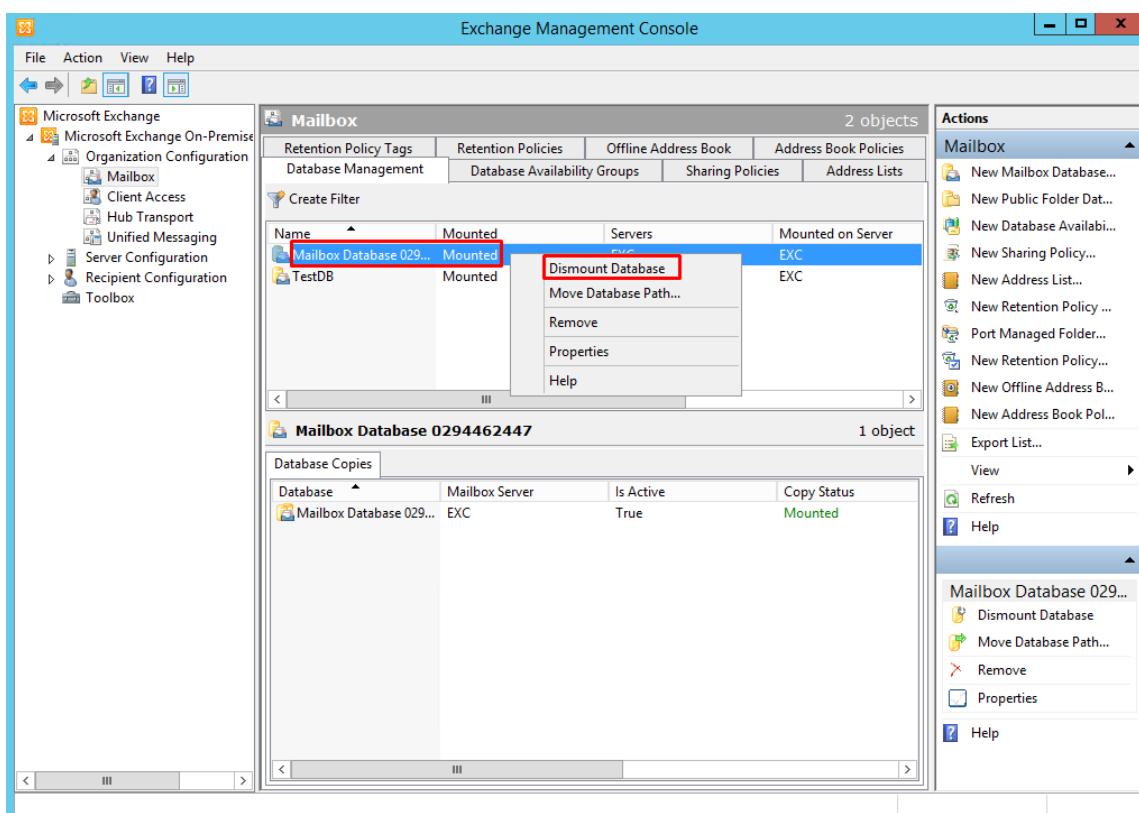
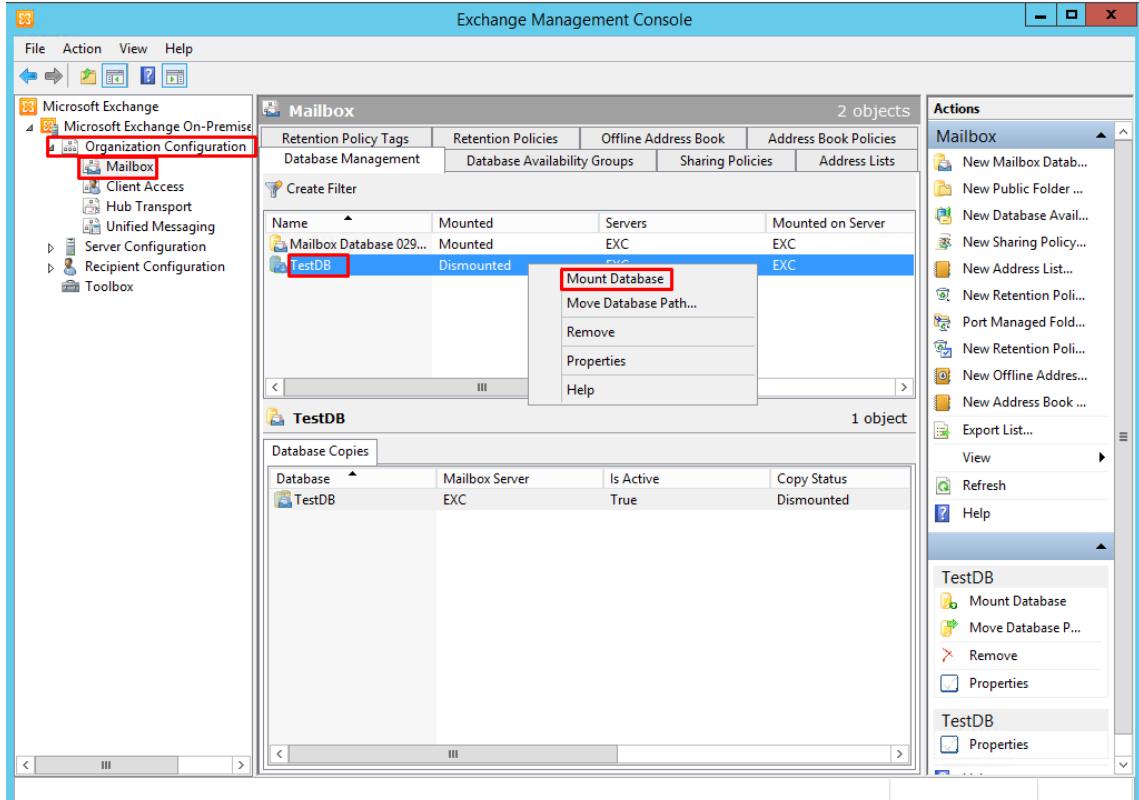


- Hata alınmadığı sürece “Warning” kısımlar sorun teşkil etmemektedir.

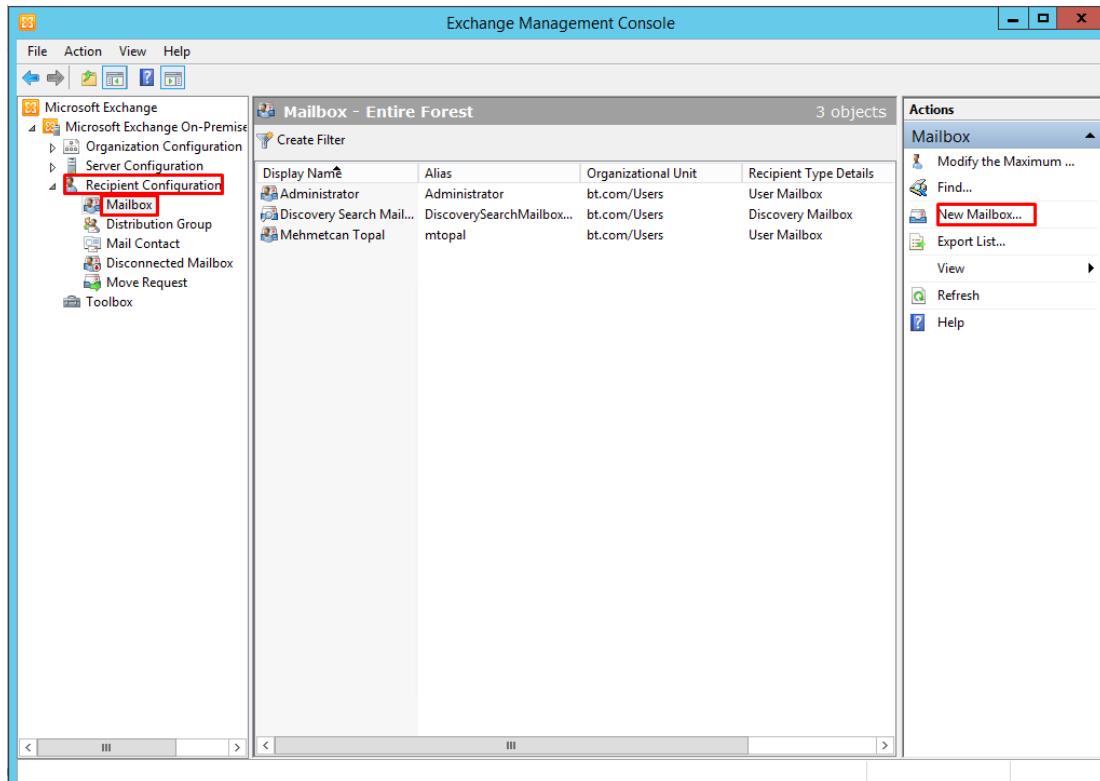
Hata alınırsa kurulumu yeniden başlatın.



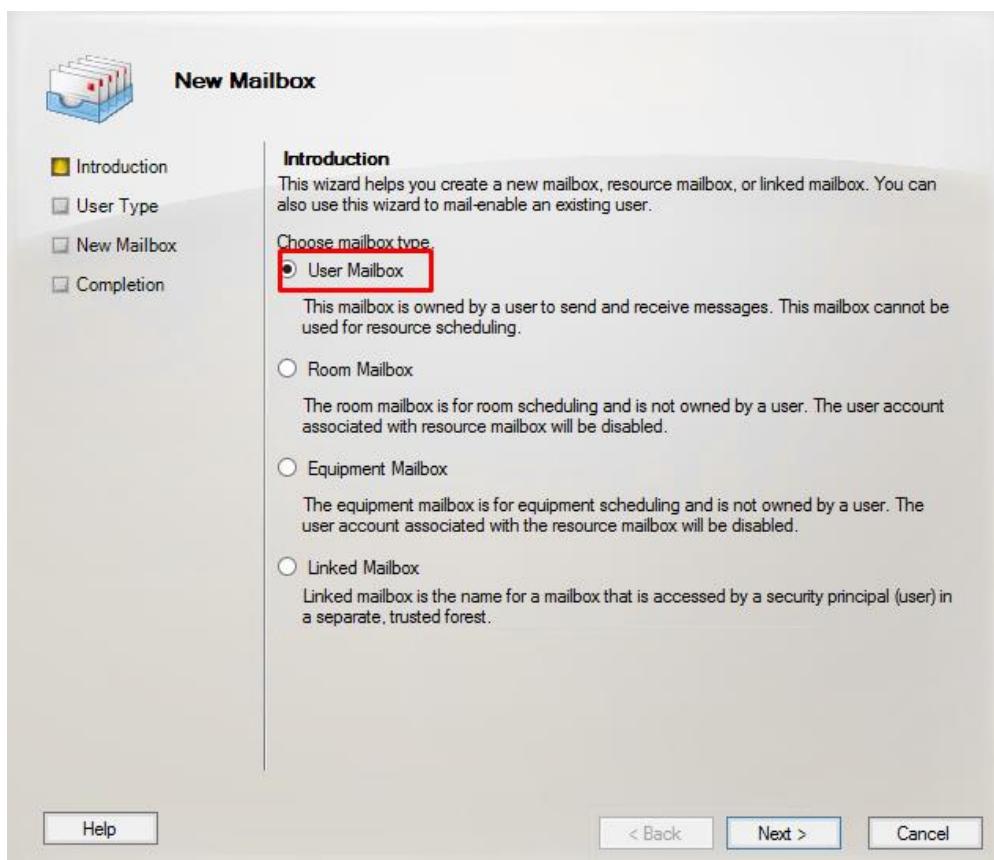
- Database oluşturma kısmı Server 2016 ile aynı şekildedir. Diskler oluşturulduktan sonra “Management Console”da → Organization Configuration → Mailbox kısmından oluşturduğumuz database diski “mount” edilir, diğer disk “dismount” edilir.



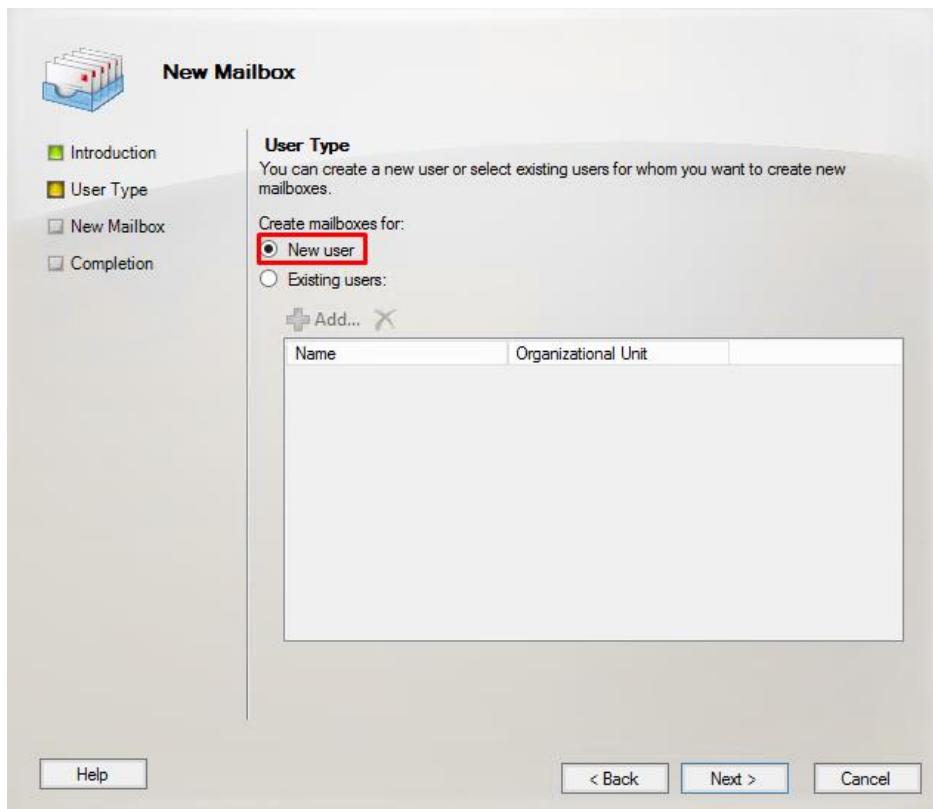
- Kullanıcı oluşturmak için “Recipient Configuration” → Mailbox kısmından “New Mailbox” tıklanır.



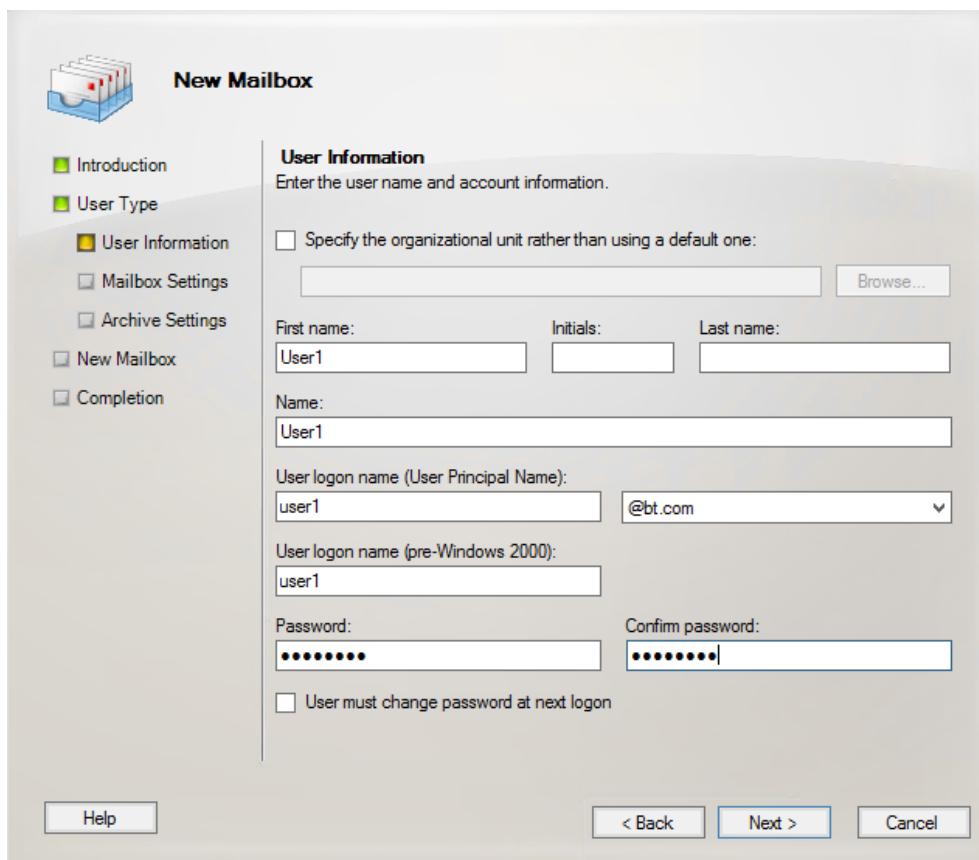
- “User Mailbox” seçilir.



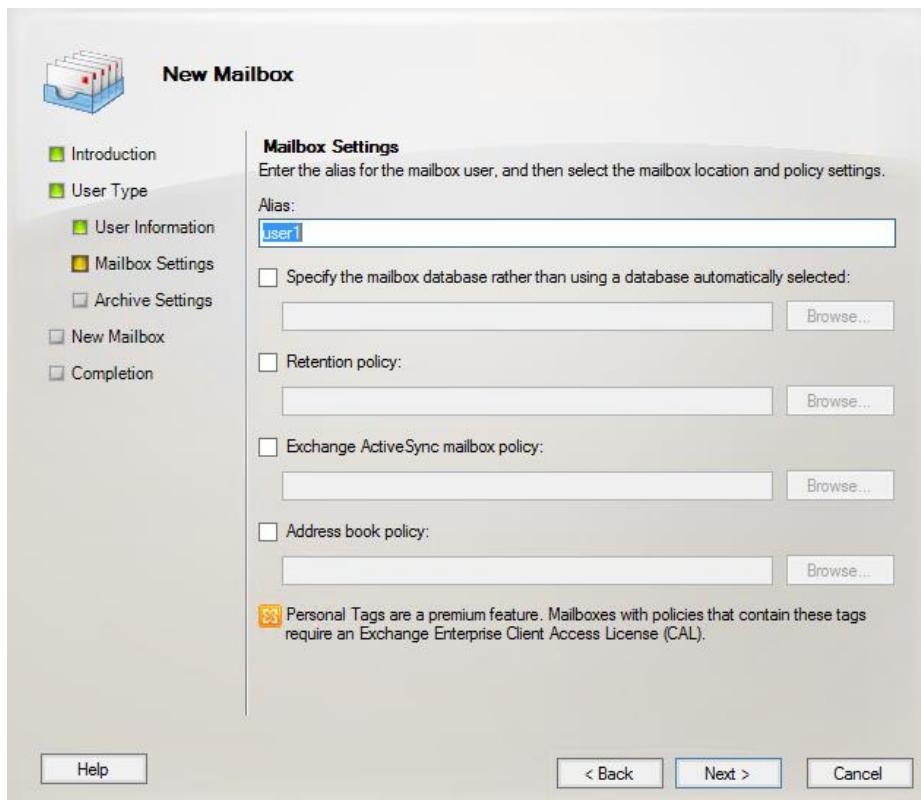
- “New User” denir.



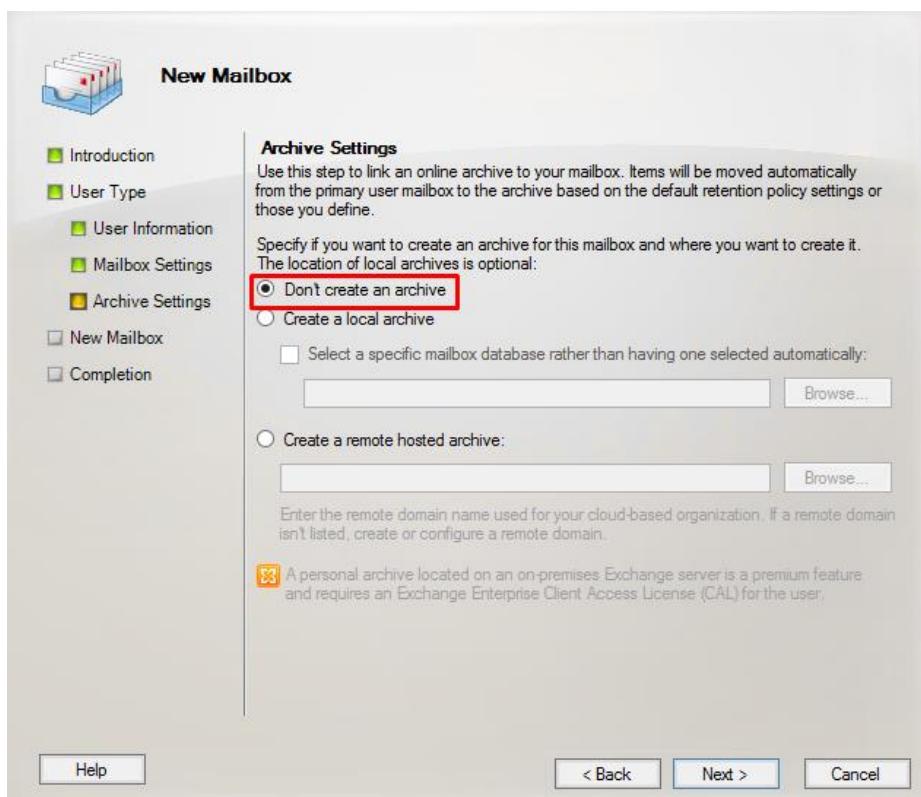
- Kullanıcı bilgileri girilir.



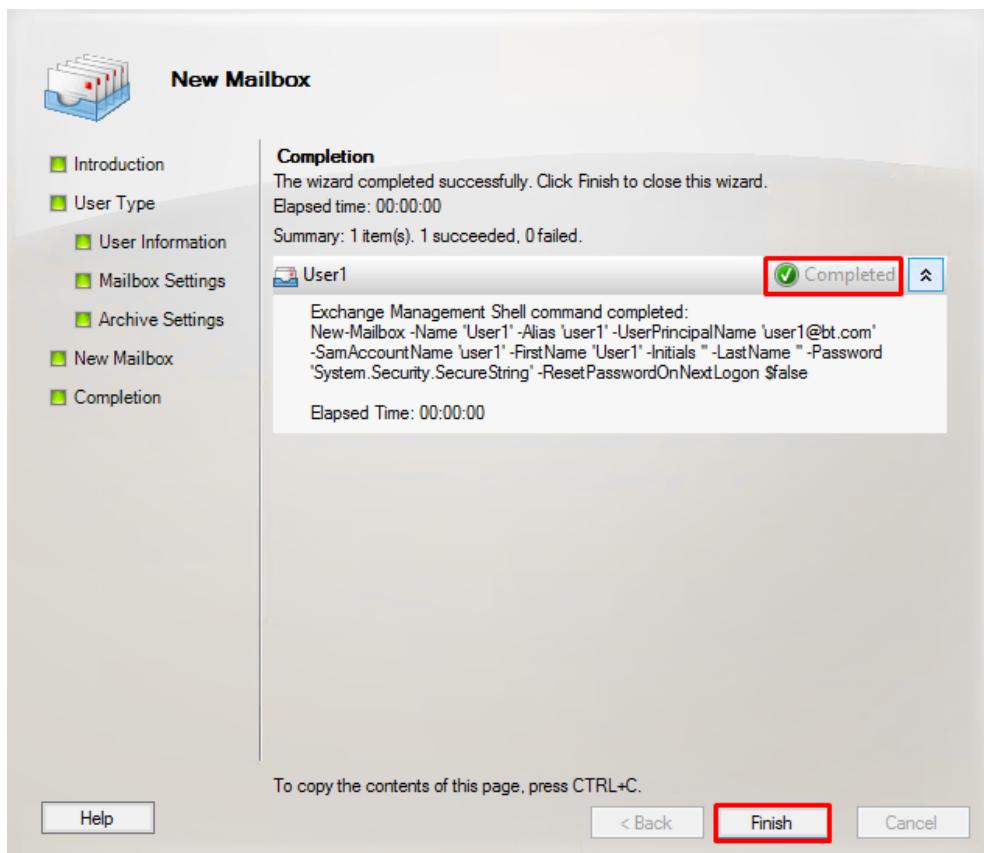
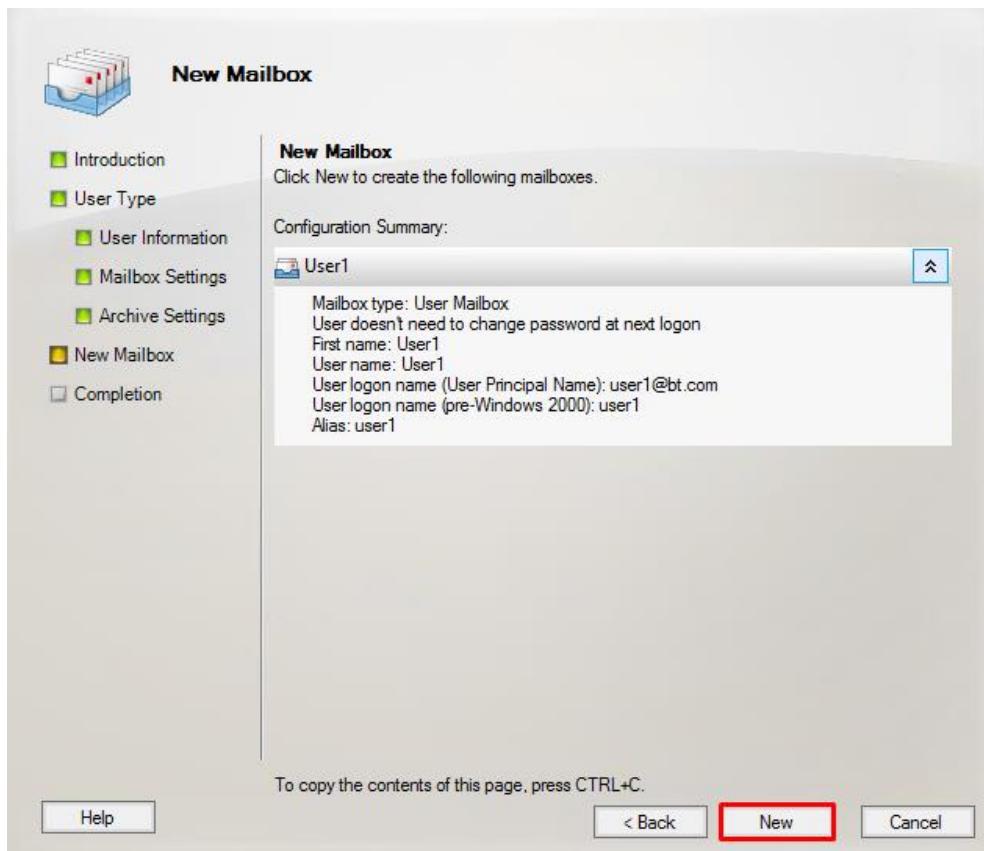
- Alias kısmı isteğe göre değiştirilip ya da değiştirilmeden next denir.



- Kullanıcı için direk "Archive" oluştura biliriz ya da oluşturmadan devam edebiliriz.

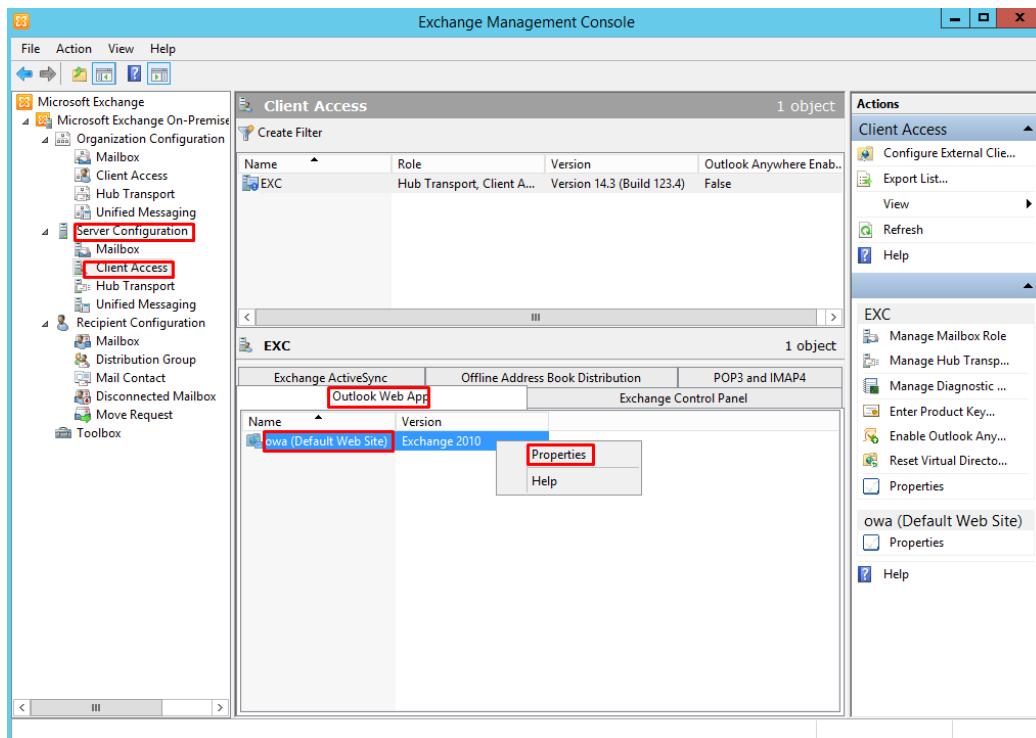


- “New” denerek kullanıcı oluşturulması başlanır.

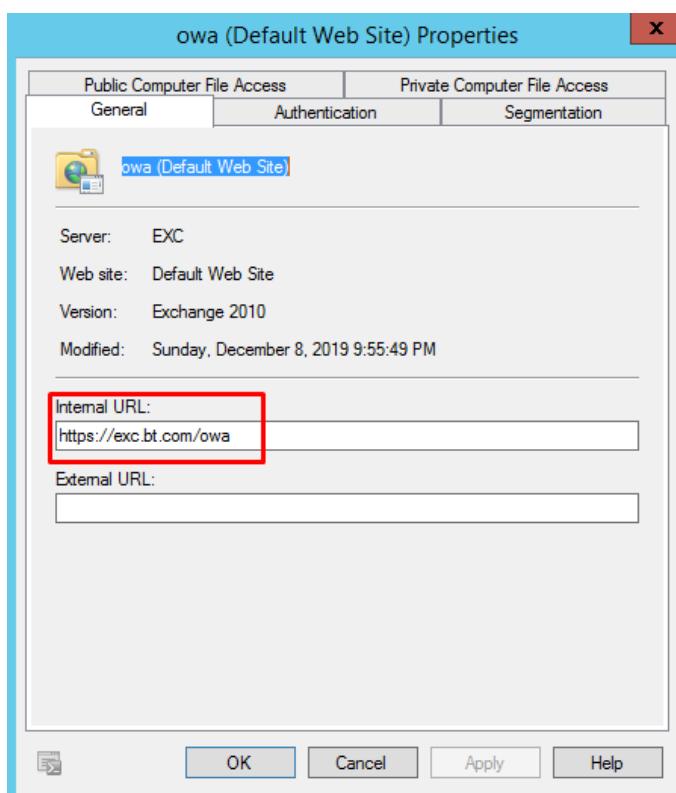


- Web browser'dan mail atmak için server'ımızın tam ismini öğrenmek gerekiyor, Server'dan Server'a değişiklik gösterebiliyor

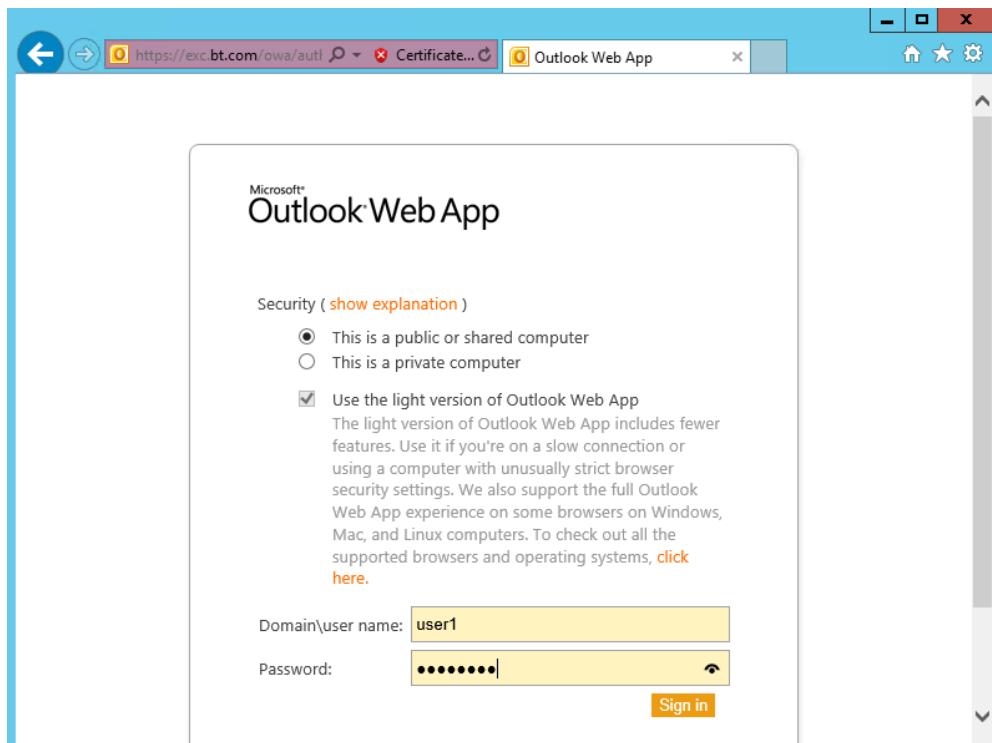
Bunun için “Server Configuration” → “Client Access” → “Outlook Web App” → “owa”ya sağ tıklanıp “Properties” denir.



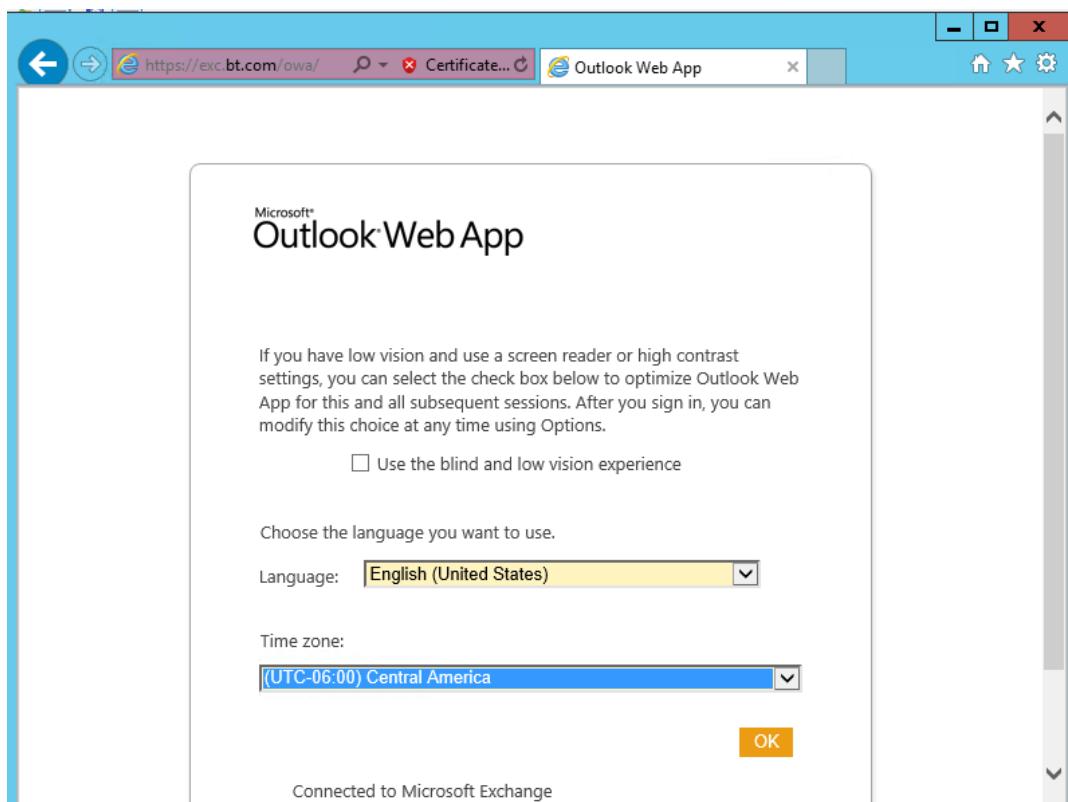
- URL kopyalanır ve siteye giriş yapılır.



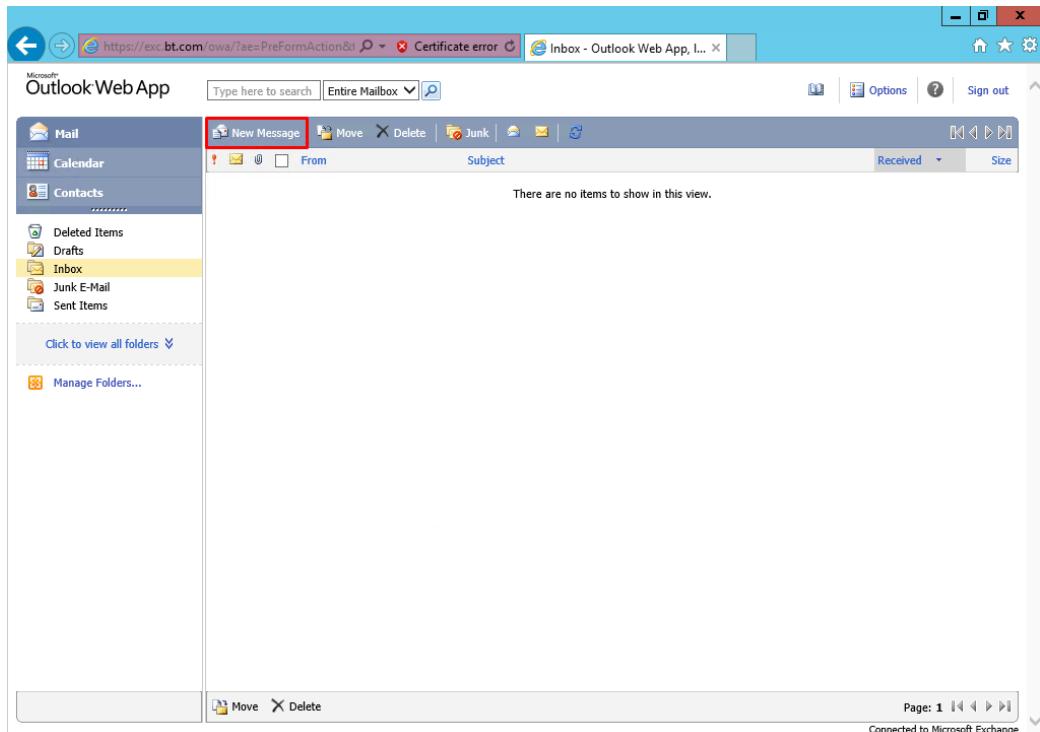
- Oluşturduğumuz kullanıcı ile giriş yapılır.



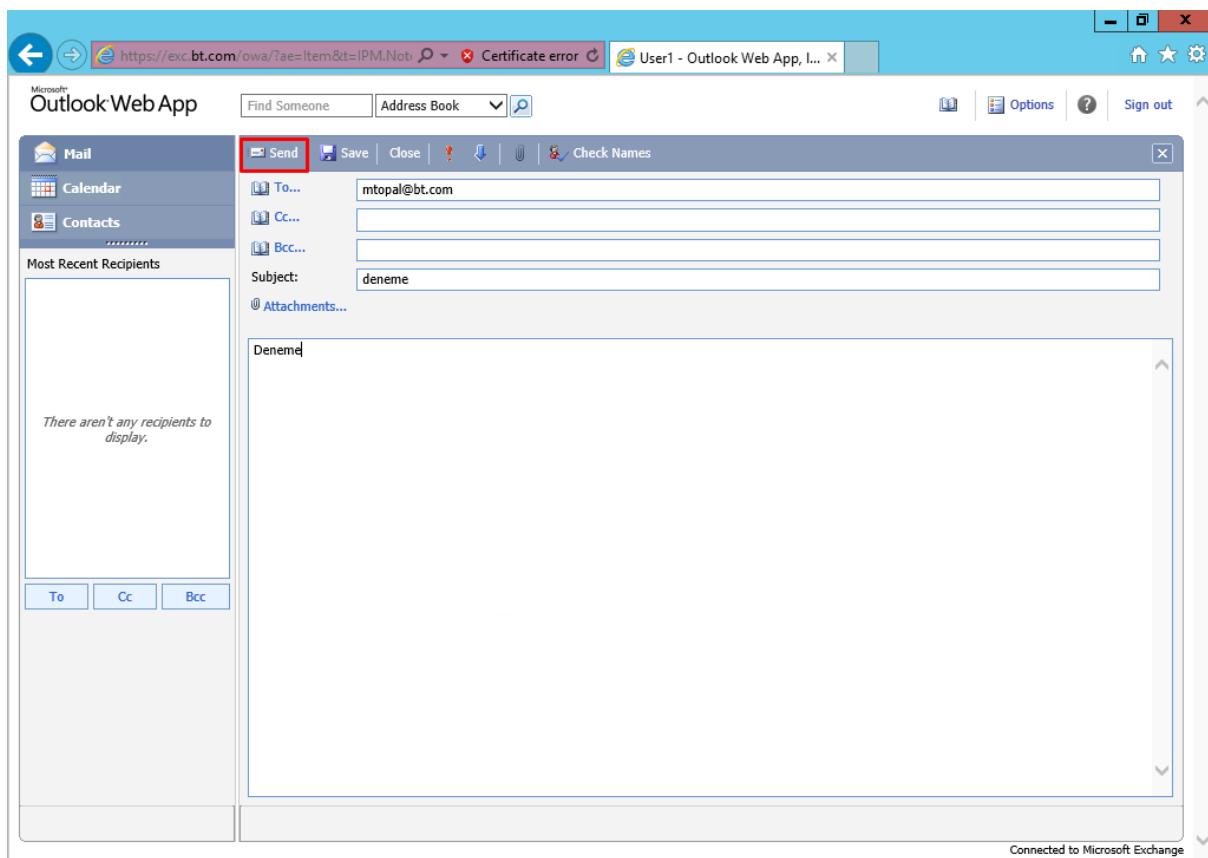
- Dil ve Zaman Bölgesi belirlenir.



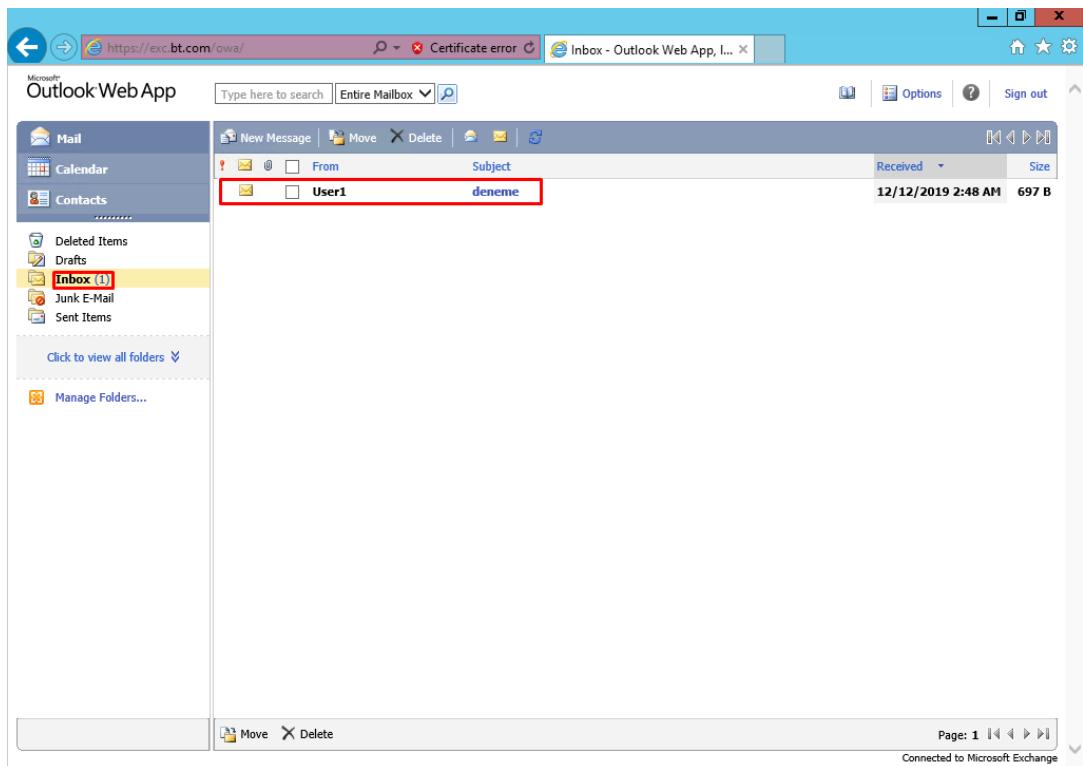
- “New” Message” denir.



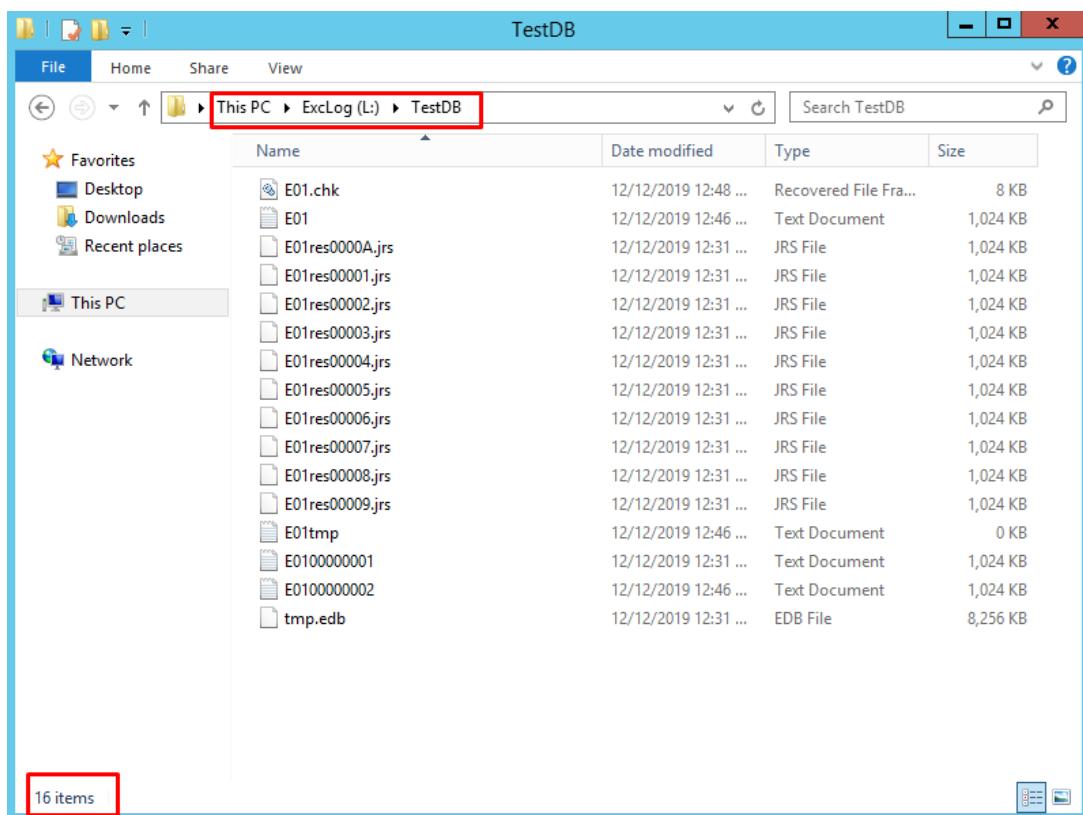
- Alıcı bilgileri, konu ve mesaj girilip yollanır.



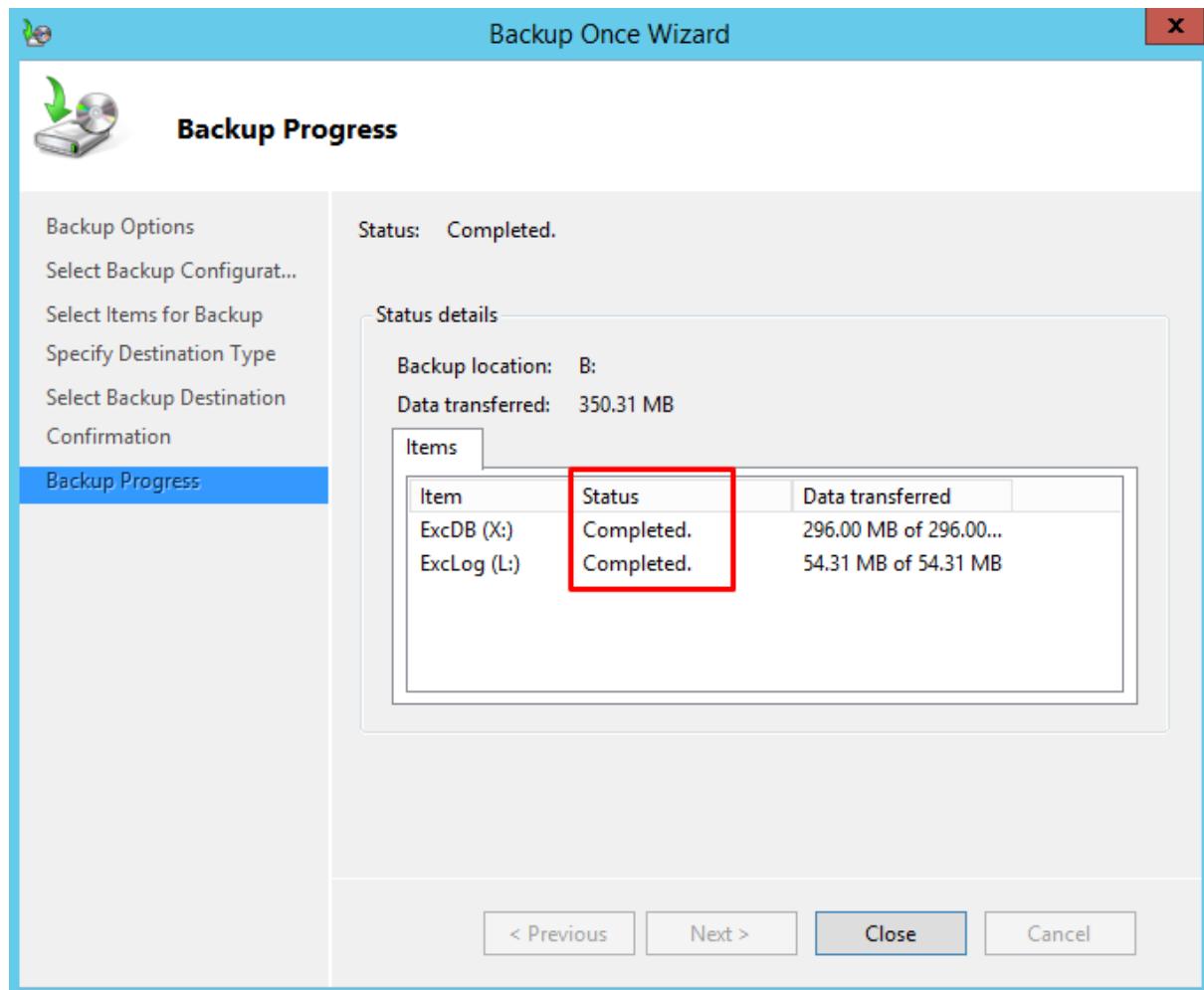
- Mail'in geldiğini görürüz



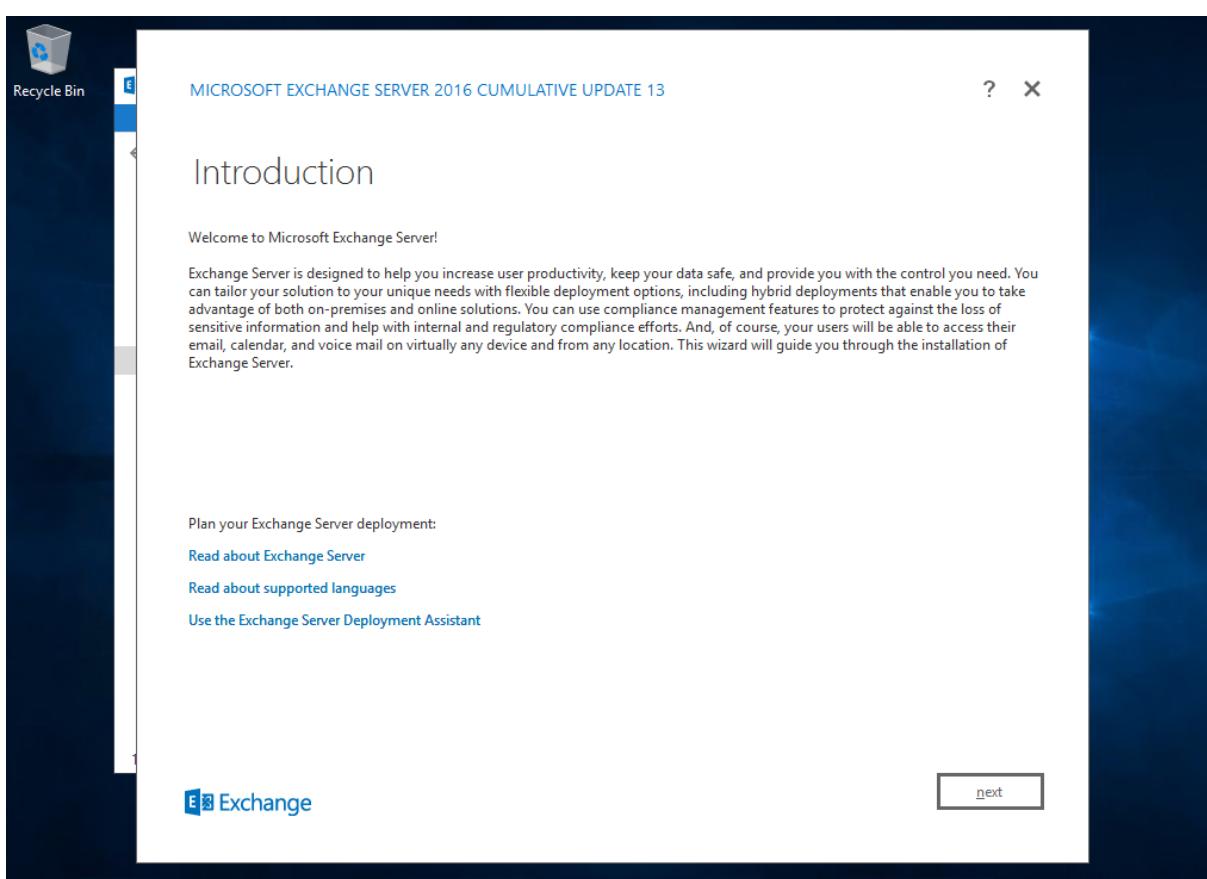
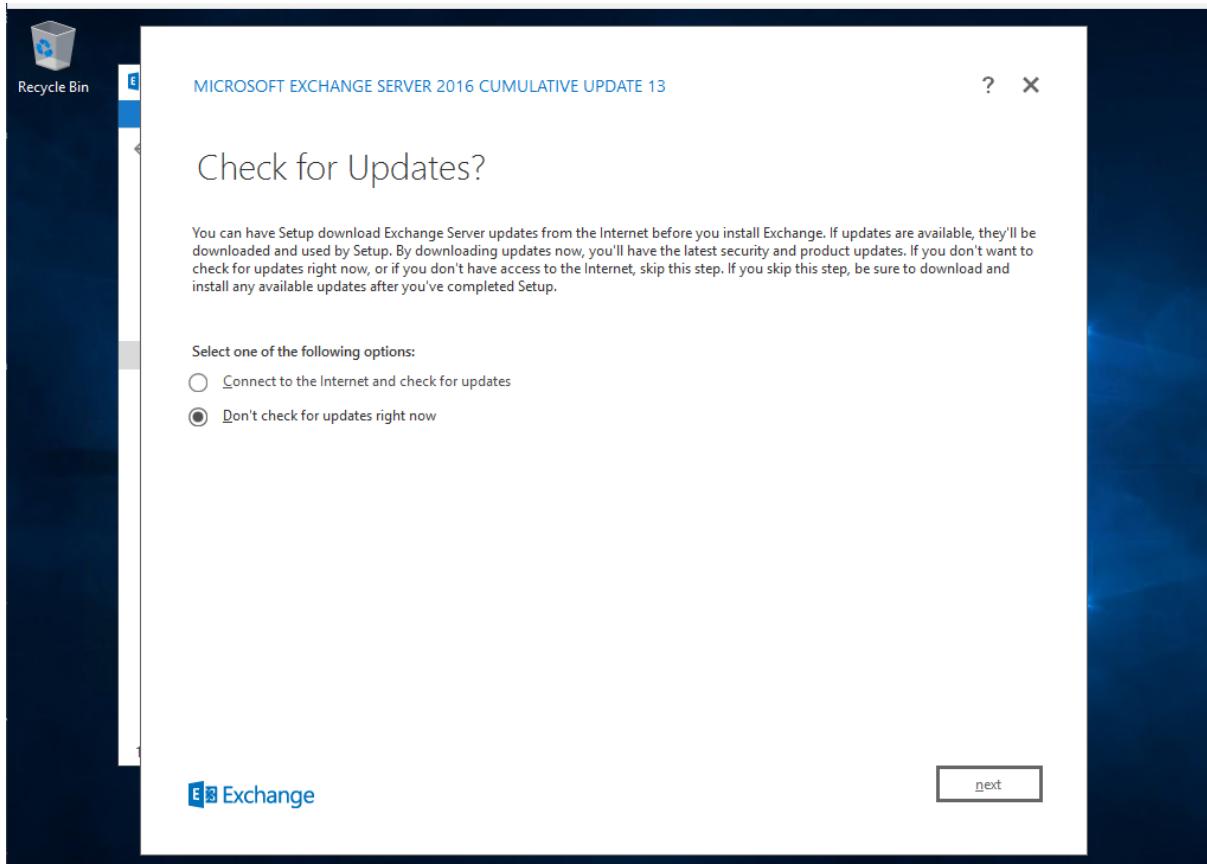
- Log dosyaları da oluşmuştur.

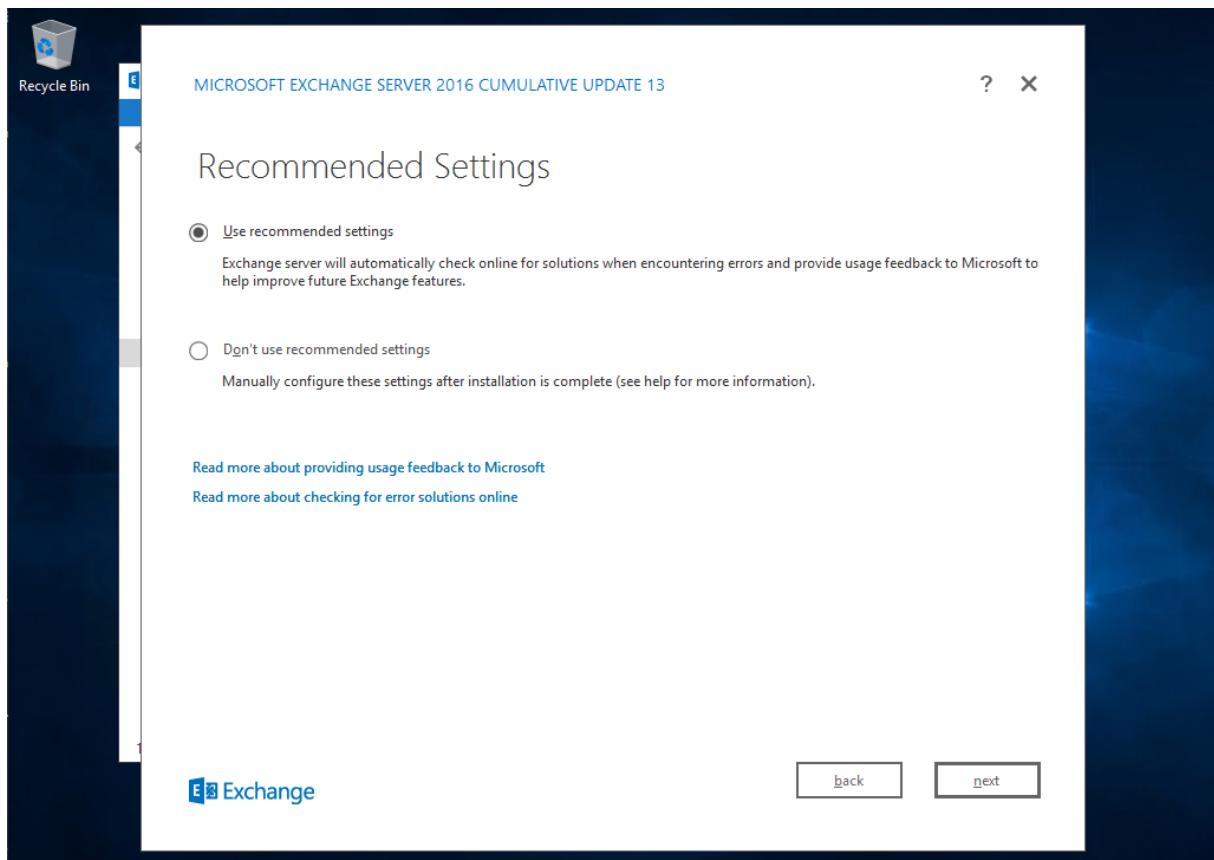
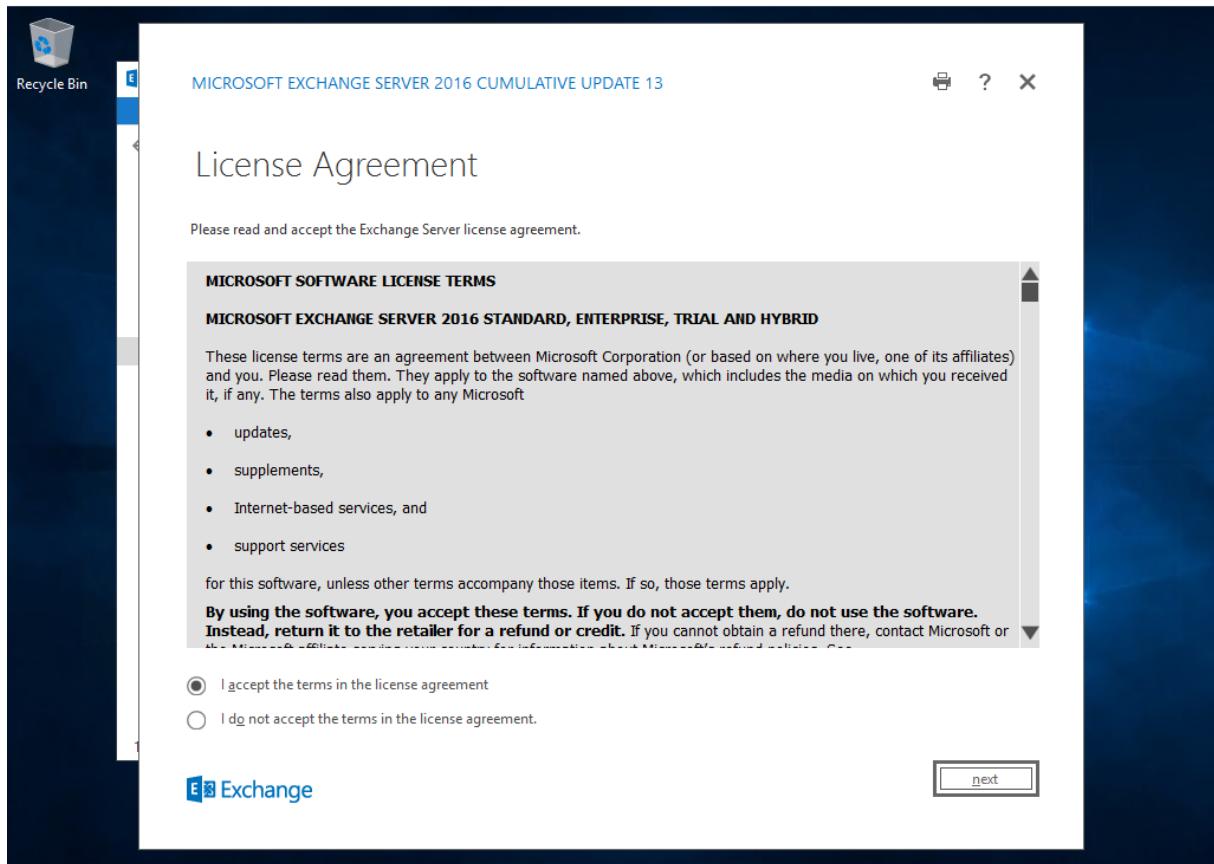


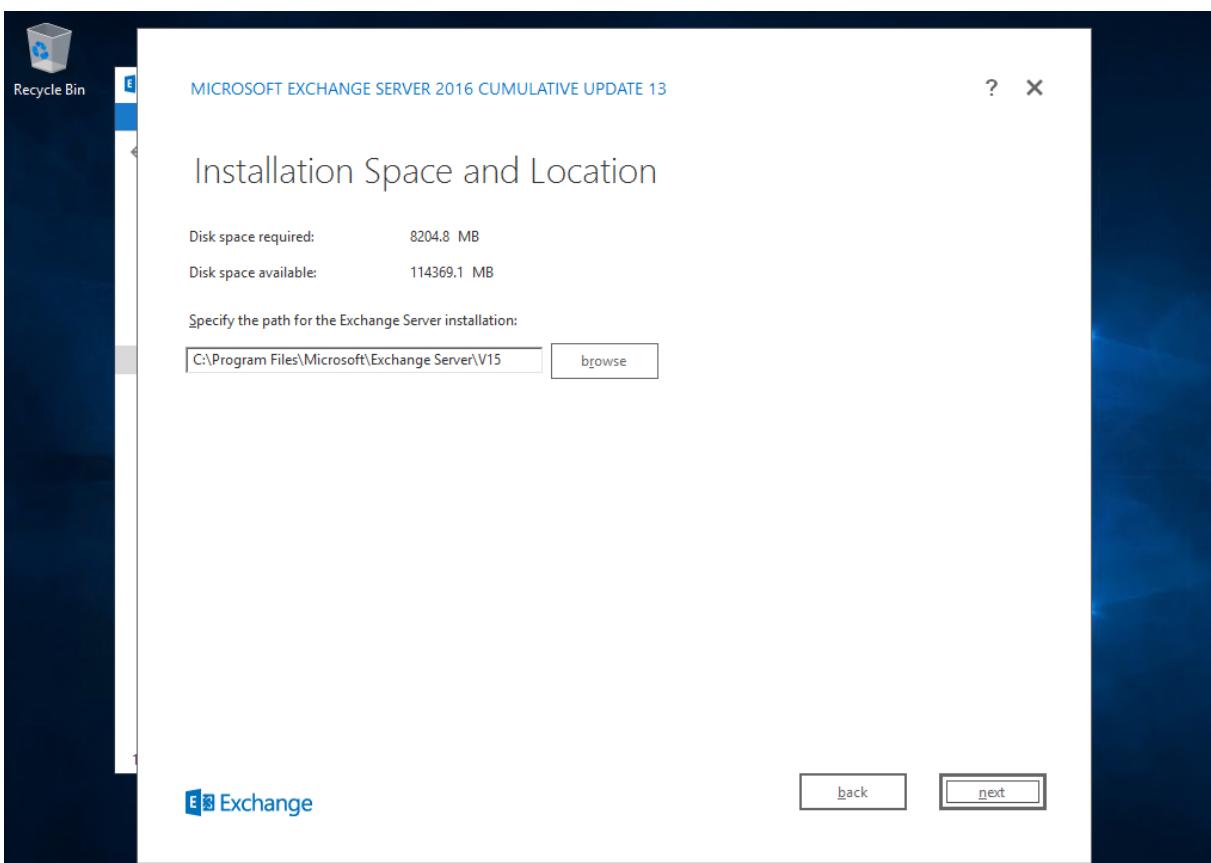
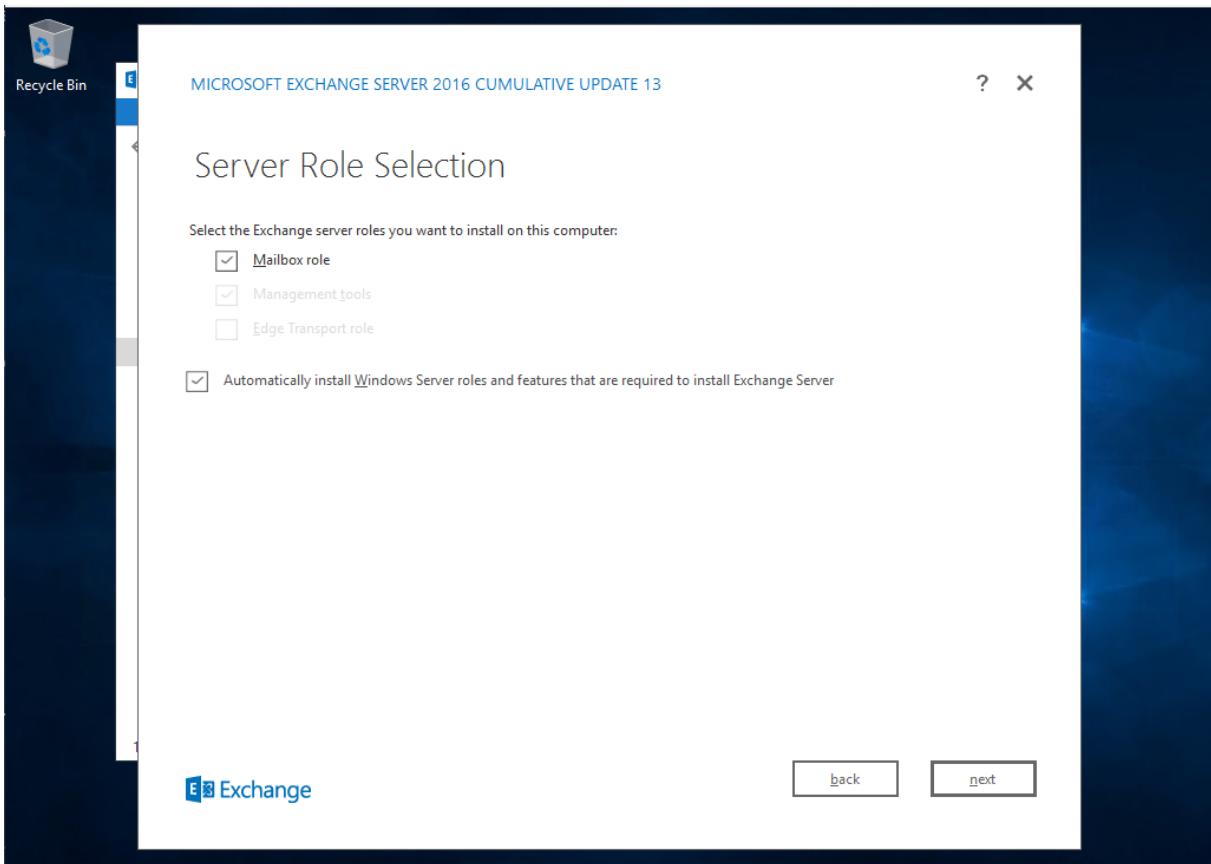
- Backup işlemi “Server 2016” ile aynıdır.

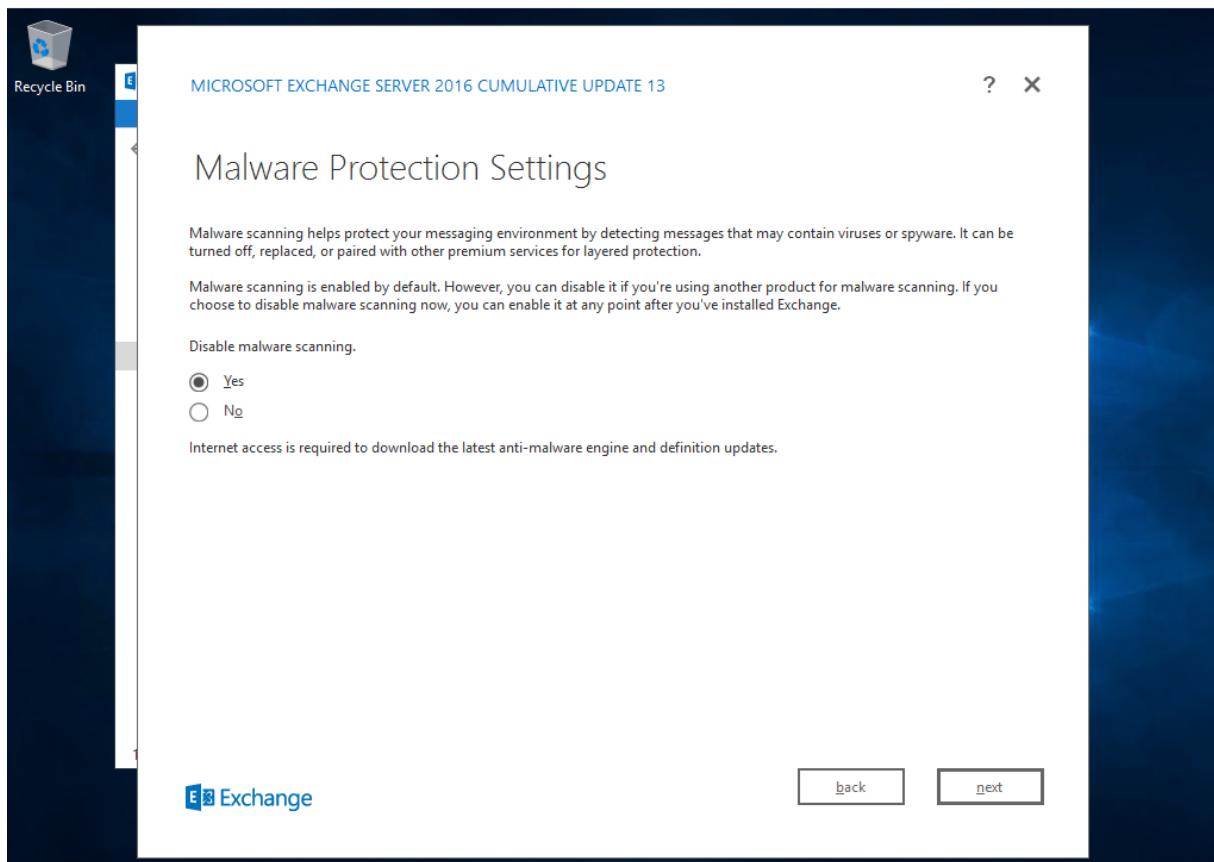
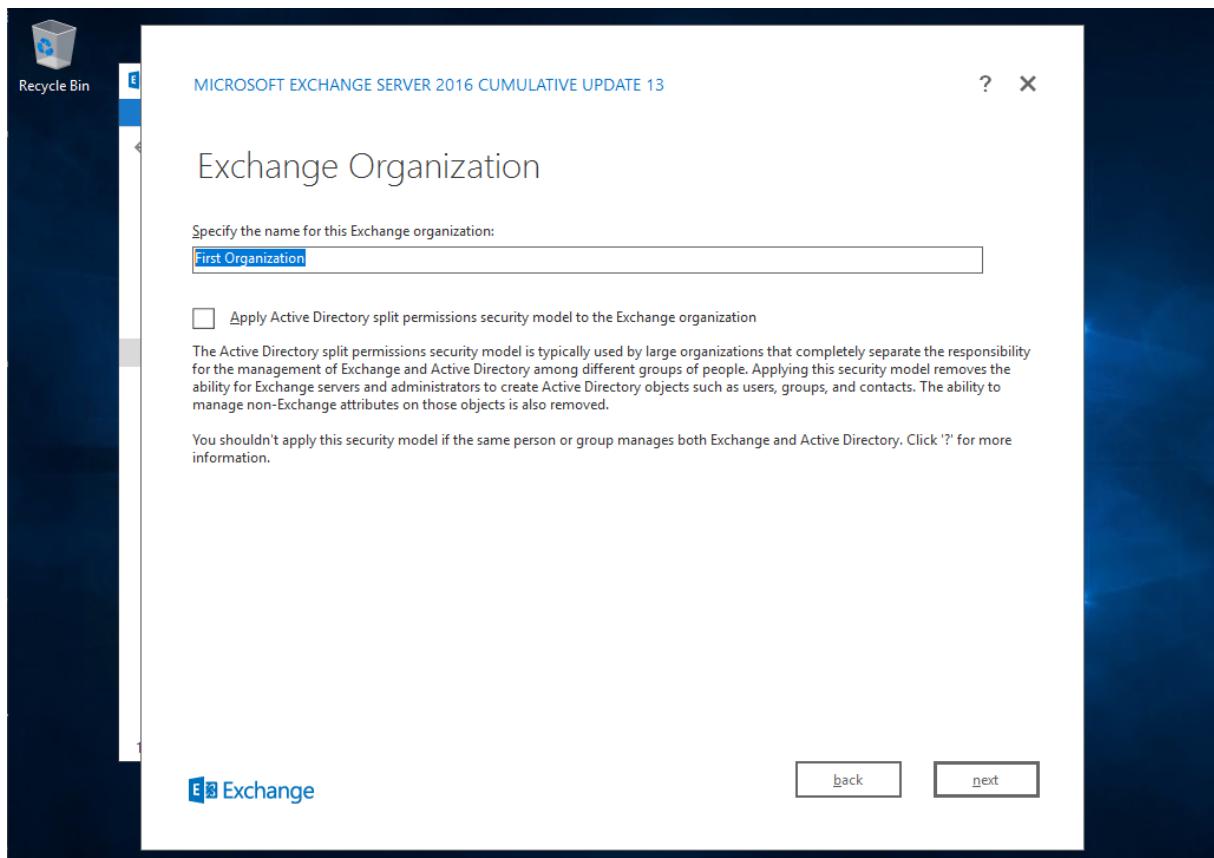


22. B-) Kurulum adımları izlenir ve kurulum gerçekleştirilir.

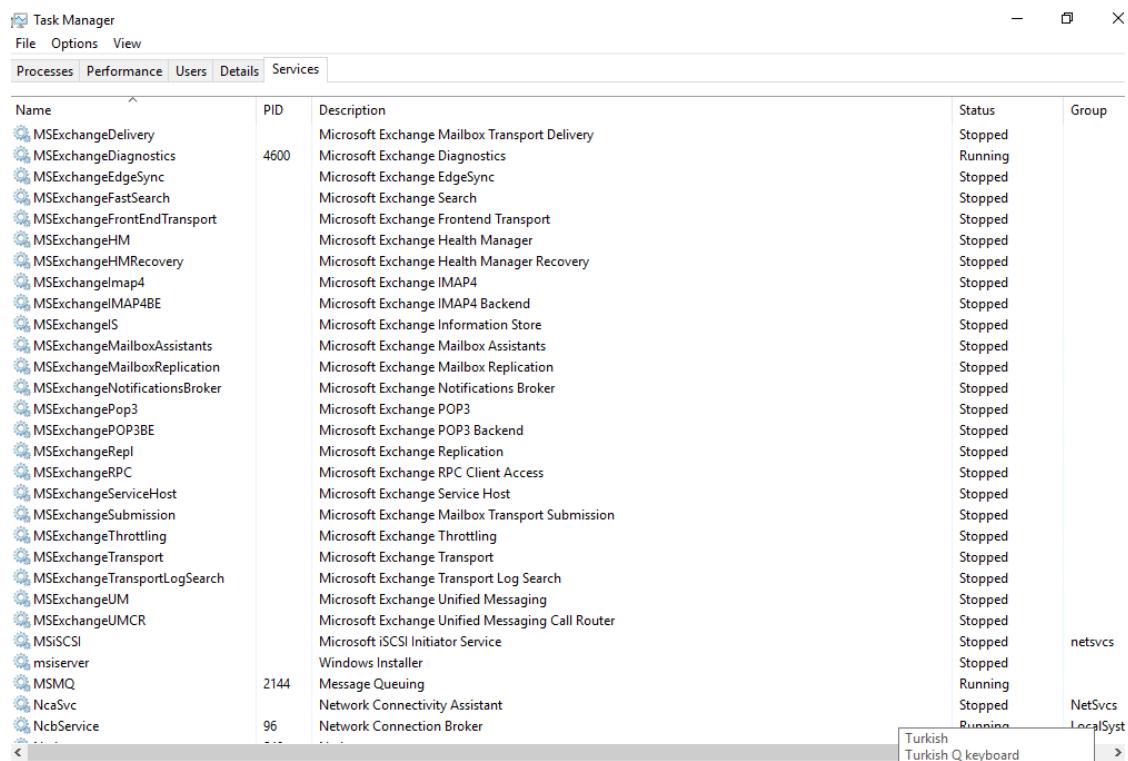








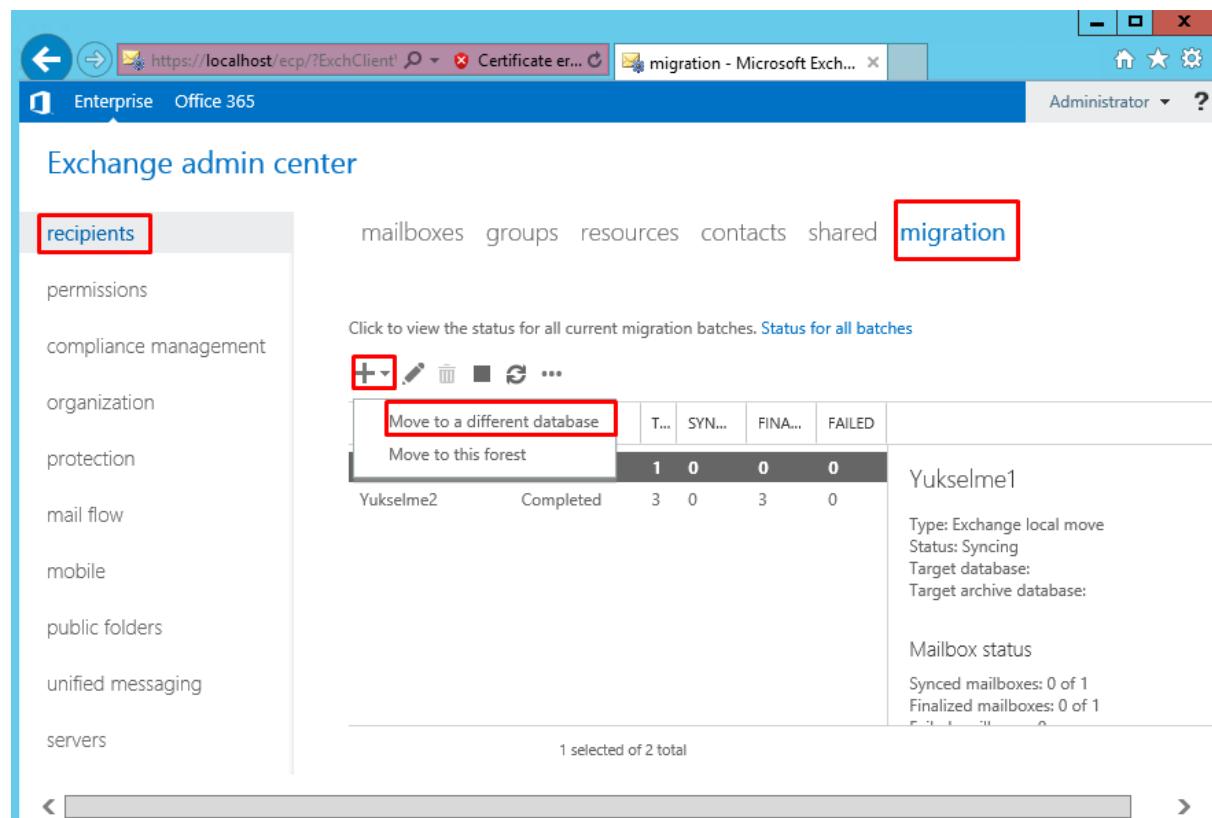
- Servisler çalıştırılır.



A screenshot of the Windows Task Manager showing the Services tab. It lists various Microsoft Exchange services with their status (Running or Stopped) and group (netsvcs, NetSvcs, LocalSyst). Services include MSExchangeDelivery, MSExchangeDiagnostics, MSExchangeEdgeSync, MSExchangeFastSearch, MSExchangeFrontEndTransport, MSExchangeHM, MSExchangeHMR, MSExchangelmap4, MSExchangelMAP4BE, MSExchangelIS, MSExchangeMailboxAssistants, MSExchangeMailboxReplication, MSExchangeNotificationsBroker, MSExchangePop3, MSExchangePOP3BE, MSExchangeRepl, MSExchangeRPC, MSExchangeServiceHost, MSExchangeSubmission, MSExchangeThrottling, MSExchangeTransport, MSExchangeTransportLogSearch, MSExchangeUM, MSExchangeUMCR, MSiSCSI, msiserver, MSMQ, NcaSvc, NcbService.

Name	PID	Description	Status	Group
MSExchangeDelivery	4600	Microsoft Exchange Mailbox Transport Delivery	Stopped	
MSExchangeDiagnostics		Microsoft Exchange Diagnostics	Running	
MSExchangeEdgeSync		Microsoft Exchange EdgeSync	Stopped	
MSExchangeFastSearch		Microsoft Exchange Search	Stopped	
MSExchangeFrontEndTransport		Microsoft Exchange Frontend Transport	Stopped	
MSExchangeHM		Microsoft Exchange Health Manager	Stopped	
MSExchangeHMR		Microsoft Exchange Health Manager Recovery	Stopped	
MSExchangelmap4		Microsoft Exchange IMAP4	Stopped	
MSEchangelMAP4BE		Microsoft Exchange IMAP4 Backend	Stopped	
MSExchangelIS		Microsoft Exchange Information Store	Stopped	
MSExchangeMailboxAssistants		Microsoft Exchange Mailbox Assistants	Stopped	
MSExchangeMailboxReplication		Microsoft Exchange Mailbox Replication	Stopped	
MSExchangeNotificationsBroker		Microsoft Exchange Notifications Broker	Stopped	
MSExchangePop3		Microsoft Exchange POP3	Stopped	
MSExchangePOP3BE		Microsoft Exchange POP3 Backend	Stopped	
MSExchangeRepl		Microsoft Exchange Replication	Stopped	
MSExchangeRPC		Microsoft Exchange RPC Client Access	Stopped	
MSExchangeServiceHost		Microsoft Exchange Service Host	Stopped	
MSExchangeSubmission		Microsoft Exchange Mailbox Transport Submission	Stopped	
MSExchangeThrottling		Microsoft Exchange Throttling	Stopped	
MSExchangeTransport		Microsoft Exchange Transport	Stopped	
MSExchangeTransportLogSearch		Microsoft Exchange Transport Log Search	Stopped	
MSExchangeUM		Microsoft Exchange Unified Messaging	Stopped	
MSExchangeUMCR		Microsoft Exchange Unified Messaging Call Router	Stopped	
MSiSCSI		Microsoft iSCSI Initiator Service	Stopped	netsvcs
msiserver	2144	Windows Installer	Stopped	
MSMQ		Message Queuing	Running	
NcaSvc		Network Connectivity Assistant	Stopped	NetSvcs
NcbService	96	Network Connection Broker	Running	LocalSyst

- Migration için “Recipients” → “Migration” kısmından “+” simgesinin ok’undan “Move a different database” seçilir.



A screenshot of the Exchange Admin Center. The left navigation menu is highlighted with a red box around the "recipients" item. The top navigation bar shows "Enterprise Office 365" and "Administrator". The main content area has tabs for "mailboxes", "groups", "resources", "contacts", "shared", and "migration", with "migration" also highlighted with a red box. A large red box highlights the "+" button in the "Move to a different database" section of the migration table. The table shows a batch named "Yukselme2" with status "Completed". The table includes columns for "Move to this forest", "T...", "SYN...", "FINA...", and "FAILED". The "Move to this forest" column contains the value "1 0 0 0". Below the table, the status is listed as "Yukselme1" with details: Type: Exchange local move, Status: Syncing, Target database: [redacted], Target archive database: [redacted]. The "Mailbox status" section shows Synced mailboxes: 0 of 1 and Finalized mailboxes: 0 of 1.

- İlk olarak Admin hesabını taşımamız gerekmektedir. Adminin taşınması en önemli işlemdir, tüm ana yetkiler ve konfigürasyonlar Admin hesabındadır. Bunun için “+” simgesine tıklanıp “Administrator” seçilir ve next denir.

Help

new local mailbox move

Select the users

You can either use a CSV file to specify the users you'd like to move, or you can select mailboxes individually. [Learn more](#)

Select the users that you want to move

DISPLAY NAME	EMAIL ADDRESS
Administrator	Administrator@bt.com

Specify the users with a CSV file

Allow unknown columns in the CSV file

1 mailboxes to migrate



- Migration ismi girilir ve next denir.

Help

new local mailbox move

Move configuration

These configuration settings will be applied to the new batch. [Learn more](#)

*New migration batch name:

Yukselme1

x

Archive:

Move the primary mailbox and the archive mailbox if one exists

Move primary mailbox only, without moving archive mailbox

This option is only valid for mailboxes on Exchange 2010 or Exchange 2013.

Move archive mailbox only, without moving primary mailbox

This option is only valid for mailboxes on Exchange 2010 and Exchange 2013.

Target database:

Enter the database name you'd like to move this mailbox to:

browse...

Target archive database:

Enter the database name you'd like to move the archive mailbox to:

browse...

Bad item limit:

10

 back next cancel

- “Automatically” kısımlar işaretlenir ve new denir ve oluşturulur.

new local mailbox move

Start the batch

A new migration batch will be created after you click new. [Learn more](#)

*After the batch is complete, a report will be sent to the following recipients. You must select at least one recipient to receive this report.

Administrator

Please select the preferred option to start the batch:

Manually start the batch later (by selecting it in the migration dashboard and then clicking Start)

Automatically start the batch

Please select the preferred option to complete the batch:

Manual Complete the batch (by clicking the "Complete this migration batch" link on the right pane, after the link becomes active)

Automatically complete the migration batch



- Aynı işlem kullanıcılar içinde yapılır. Çok fazla kullanıcı varsa veya grupların kullanıcıları çok ise hepsini tek seferde değil, parça parça, grup olarak seçilip eklenir. “Status” kısmı “Completed” olduğunda migration tamamlandı demektir.

Exchange admin center

recipients mailboxes groups resources contacts shared **migration**

permissions

compliance management

organization

protection

mail flow

mobile

public folders

unified messaging

servers

Click to view the status for all current migration batches. [Status for all batches](#)

NAME	▲	STATUS	T...	SYN...	FINA...	FAILED	
Yukselme1		Syncing	1	0	0	0	
Yukselme2		Completed	3	0	3	0	

0 selected of 2 total

- Migration tamamlanmasının ardından hesapların “database”inin değiştirini görürüz (Admin hesabının taşınması uzun sürmektedir).

Exchange admin center

The screenshot shows the Exchange Admin Center interface. The left sidebar has a 'recipients' section highlighted with a red box. The main area shows a 'mailboxes' tab also highlighted with a red box. Below it are links for groups, resources, contacts, shared, and migration. A toolbar with icons for add, edit, delete, search, and more follows. A table lists mailboxes with columns for DISPLAY NAME, MAILBOX..., EMAIL AD..., and DATABASE. The 'Administrator' row is selected and highlighted with a red box. The table shows three users: Mehmetcan Topal, Ozan, and User1, all assigned to the 'Mailbox Database 029446...' database. To the right of the table, detailed information for the selected administrator is displayed, including title, office, work phone, and phone and voice features.

DISPLAY NAME	MAILBOX...	EMAIL AD...	DATABASE
Administrator	User	Administrator	Mailbox Database 029446...
Mehmetcan Topal	User	mtopal@bt....	Names&ID
Ozan	User	ozan@bt.com	Names&ID
User1	User	user1@bt.c...	Names&ID

Administrator
User mailbox
Administrator@bt.com
Title:
Office:
Work phone:
Phone and Voice
Features

1 selected of 4 total

- Send Connector yaratıp bağlantı Exchange Server 2013'e aktarılır.

Exchange admin center

The screenshot shows the Exchange Admin Center interface. On the left, there's a sidebar with various categories: recipients, permissions, compliance management, organization, protection, mail flow (which is highlighted with a red box), mobile, public folders, unified messaging, servers, hybrid, and tools. At the top, there are navigation links: rules, delivery reports, accepted domains, email address policies, receive connectors, and send connectors (which is also highlighted with a red box). Below these are icons for creating (+), editing (pencil), deleting (trash), and more options (ellipsis). A table header with columns 'NAME' and 'STATUS' is shown, followed by a message: 'There are no items to show in this view.' At the bottom of the table area, it says '0 selected of 0 total'.

- İsim verilir ve “Internet” seçilir.

The screenshot shows the 'Create a Send connector' wizard. At the top right is a 'Help' link. The main area starts with 'Create a Send connector.' It explains that there are four types of send connectors and provides a 'Learn more...' link. Below this, there's a 'Name:' field with 'New Connector' entered, which is highlighted with a red box. Under 'Type:', there are four options: 'Custom (For example, to send mail to other non-Exchange servers)', 'Internal (For example, to send intranet mail)', 'Internet (For example, to send internet mail)' (which is selected and highlighted with a red box), and 'Partner (For example, to route mail to trusted third-party servers)'. At the bottom right are 'next' and 'cancel' buttons.

- “MX” kısmı seçiliğin next denir.

new send connector

[Help](#)

A send connector can route mail directly through DNS or redirect it to a smart host. [Learn more...](#)

*Network settings:

Specify how to send mail with this connector.

- MX record associated with recipient domain
 Route mail through smart hosts



SMART HOST

Use the external DNS lookup settings on servers with transport roles



back

next

cancel

- "+" simgesine tıklanır ve ardından...

new send connector

Help

A Send connector routes mail to a specified list of domains. These domains can be an SMTP address space or a custom type. [Learn more...](#)

*Address space:

Specify the address space or spaces to which this connector will route mail.



TYPE	DOMAIN	COST

Scoped send connector

[back](#)

[next](#)

[cancel](#)

- "Full Qualified Domain Name" kısmına "*" ifadesi (Her şey anlamına gelir) yazılır.

add domain

Help

*Type:

SMTP

*Full Qualified Domain Name (FQDN):

* 1 x

*Cost:

1

[save](#)

[cancel](#)

- Next denir.

new send connector

Help

A Send connector routes mail to a specified list of domains. These domains can be an SMTP address space or a custom type. [Learn more...](#)

*Address space:

Specify the address space or spaces to which this connector will route mail.



TYPE	DOMAIN	COST
SMTP	*	1

Scoped send connector



[back](#) [next](#) [cancel](#)

- "+" simgesine tıklanır ve...

Help

new send connector

A send connector sends mail from a list of servers with transport roles or Edge Subscriptions.
[Learn more...](#)

*Source server:
Associate this connector with the following servers containing transport roles. You can also add Edge Subscriptions to this list.

+ **-**

SERVER	SITE	ROLE

- Exchange Server 2013 cihazımız seçilir, eklenir ve tamam denir.
Migration işlemlerimiz bununla birlikte sonlanmıştır.

NAME	SITE	ROLE	VERSION
EXC	bt.com/Configuration/Sites/De...	Mailbox, ClientAccess, HubTra...	Version 14.3 (Build...
EXC2013	bt.com/Configuration/Sites/D...	Mailbox, ClientAccess	Version 15.0 (Buil...
1 selected of 2 total			

add -> EXC2013 [[remove](#)]; 

ok **cancel**