

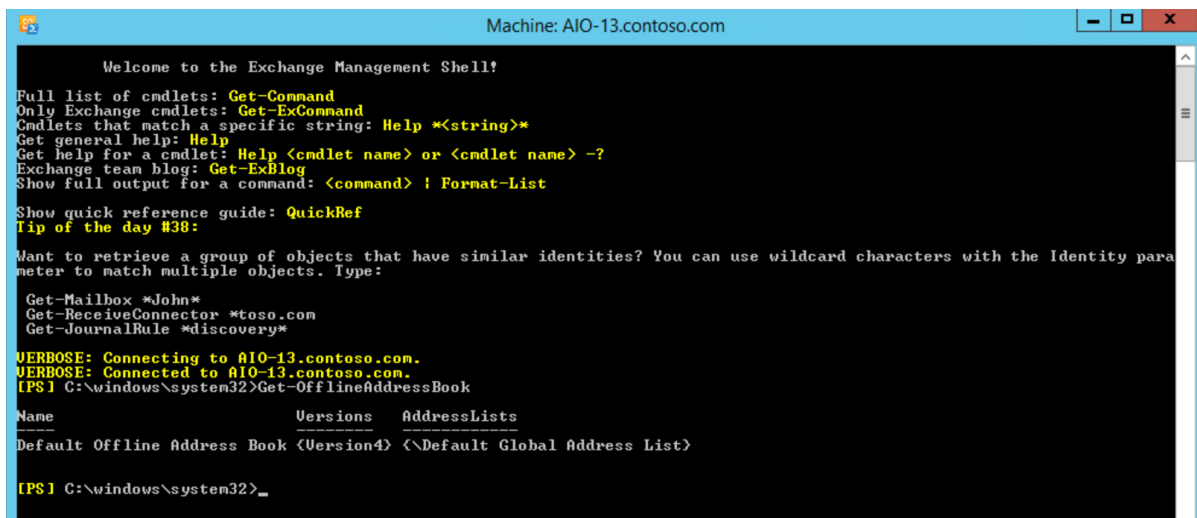
Make sure OAB and EWS enabled

Make sure OAB and EWS enabled

Make sure OAB enabled

Step 1: verify the offline address book.

```
Get-OfflineAddressBook
```



The screenshot shows a Windows PowerShell window titled "Machine: AIO-13.contoso.com". The window displays the Exchange Management Shell (EMS) interface. The prompt is "Welcome to the Exchange Management Shell!". The user has entered the command "Get-OfflineAddressBook". The output shows the command's execution details and the resulting address book information.

```
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
Tip of the day #38:
Want to retrieve a group of objects that have similar identities? You can use wildcard characters with the Identity parameter to match multiple objects. Type:
  Get-Mailbox *John*
  Get-ReceiveConnector *toso.com
  Get-JournalRule *discovery*
VERBOSE: Connecting to AIO-13.contoso.com.
VERBOSE: Connected to AIO-13.contoso.com.
[PS] C:\windows\system32>Get-OfflineAddressBook

Name                                Versions      AddressLists
-----
Default Offline Address Book <Version4> <\Default Global Address List>

[PS] C:\windows\system32>_
```

If you want to configure OAB, take the following steps.

Step 2: select a user mailbox and configure its OU.

2.1 Go to **EAC** --> recipients --> mailboxes.

2.1.1 Double-click on a user mailbox** (for example, user1).

User Mailbox - Work - Microsoft Edge

Not secure | https://localhost/ecp/UsersGroups/NewMailboxOnP... A

new user mailbox [Help](#)

Organizational unit:
contoso.com/OU_Test X browse...

*User logon name:
user1 @ contoso.com v

*New password:

*Confirm password:

☐ Require password change on next logon

Mailbox database:
Mailbox Database 08543 X browse...

Archive
Use the archive to store old email.
☐ Create an on-premises archive mailbox for this user

Address book policy:
[No Policy] v

save cancel

Please wait...

2.1.2 Click on **More Options**.

User Mailbox - Work - Microsoft Edge

Not secure | https://localhost/ecp/UsersGroups/EditMailbox.aspx?pwmcid=5&ReturnObjectType=... A

user1 [Help](#)

general

mailbox usage

contact information

organization

email address

mailbox features

member of

MailTip

mailbox delegation

First name:

Initials:

Last name:

*Name: user1

*Display name: user1

*Alias: user1

*User logon name: user1 @ contoso.com

☐ Require password change on next logon

☐ Hide from address lists

More options...

javascript:__doPostBack('ctl00\$ctl00\$ResultPanePlaceholder\$Mailbox\$NameAndAccount\$contentContainer\$NameAndAccou...)

2.1.3 Click on **Edit** icon.

User Mailbox - Work - Microsoft Edge

Not secure | <https://localhost/ecp/UsersGroups/EditMailbox.aspx?pwmcid=5&ReturnObjectType=...>

user1 [Help](#)

general

mailbox usage

contact information

organization

email address

mailbox features

member of

MailTip

mailbox delegation

user1 contoso.com


☐ Require password change on next logon

☐ Hide from address lists

Organizational unit:
contoso.com/OU_Test

Mailbox database:
Mailbox Database 0854305459

Custom attributes:

 Edit

NAME	VALUE
------	-------

<https://localhost/ecp/UsersGroups/EditMailbox.aspx?pwmcid=5&ReturnObjectType=1&id=87d19f63-0340-43e8-9a03-05d5...>

2.1.4 Print in "OU_Test" and click on **Ok**, then click on **Save**.

User Mailbox - Work - Microsoft Edge

Not secure | https://localhost/ecp/UsersGroups/EditMailbox.aspx?pwmcid=5&ReturnObjectType=...

Help

custom attributes

1:

2:

3:

4:

5:

6:

7:

8:

9:

10:

11:

12:

13:

14:

15:

ok

cancel

User Mailbox - Work - Microsoft Edge

Not secure | <https://localhost/ecp/UsersGroups/EditMailbox.aspx?pwmcid=5&ReturnObjectType=...>

user1 [Help](#)

general

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email address

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mailbox delegation

Require password change on next logon

Hide from address lists

Organizational unit:

contoso.com/OU_Test

Mailbox database:

Mailbox Database 0854305459

Custom attributes:

NU...	VALUE
1	OU_Test

save cancel

2.2 Run EMS (Exchange Management Shell) as admin.

2.2.1 View the default offline address book.

```
Get-OfflineAddressBook
```

```
Machine: AIO-13.contoso.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> -?
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Get-JournalRule *discovery*
VERBOSE: Connecting to AIO-13.contoso.com.
VERBOSE: Connected to AIO-13.contoso.com.
[PS] C:\windows\system32>Get-OfflineAddressBook

Name                Versions            AddressLists
-----                -
Default Offline Address Book <Version4> <\Default Global Address List>

[PS] C:\windows\system32>
```

2.2.2 Find mail server host.

```
Get-Mailbox -Arbitration | where {$_.PersistedCapabilities -
like "*oab*"}_
```

```
Machine: AIO-13.contoso.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

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VERBOSE: Connecting to AIO-13.contoso.com.
VERBOSE: Connected to AIO-13.contoso.com.
[PS] C:\windows\system32>Get-OfflineAddressBook

Name                               Versions  AddressLists
-----
Default Offline Address Book <Version4> <\Default Global Address List>

[PS] C:\windows\system32>Get-Mailbox -Arbitration ! where {$_.PersistedCapabilities -like "*oab*"}

Name                               Alias                               ServerName  ProhibitSendQuota
-----
SystemMailbox<bb558c35...> SystemMailbox<bb558c35...> aio-13      Unlimited

[PS] C:\windows\system32>_
```

2.2.3 View address lists.

Get-AddressList

```
Machine: AIO-13.contoso.com

[PS] C:\windows\system32>Get-AddressList

Name                DisplayName                RecipientFilter
-----
All Contacts        All Contacts                <<Alias -ne $null> -and <<<<ObjectCategory -like 'person'> -and
ObjectClass -eq 'contact'>>>>
All Distribution Lists All Distribution Lists    <<Alias -ne $null> -and <<ObjectCategory -like 'group'>>
All Rooms           All Rooms                  <<Alias -ne $null> -and <<<<RecipientDisplayType -eq
'ConferenceRoomMailbox' -or <RecipientDisplayType -eq
'SyncedConferenceRoomMailbox'>>>>
All Users           All Users                  <<Alias -ne $null> -and <<<<<<<<ObjectCategory -like 'person'> -and
ObjectClass -eq 'user'> -and <-not <Database -ne $null>> -and
<-not <ServerLegacyDN -ne $null>>>> -or <<<<ObjectCategory -like
'person'> -and <ObjectClass -eq 'user'> -and <<<<<<<<Database -ne
$null> -or <ServerLegacyDN -ne $null>>>>>>>> -and
<-not <RecipientTypeDetailsValue -eq 'GroupMailbox'>>>>>>
Public Folders      Public Folders              <<Alias -ne $null> -and <ObjectCategory -like 'publicFolder'>>

[PS] C:\windows\system32>_
```

2.2.4 Create an offline address book named Test, "All contacts" maybe replaced by address list you create.

```
New-OfflineAddressBook -Name Test -AddressLists "All contacts"
-VirtualDirectories "<server alias>\OAB (Default Web Site)"
```

```
Machine: AIO-13.contoso.com

[PS] C:\windows\system32>New-OfflineAddressBook -Name Test -AddressLists "All contacts" -VirtualDirectories "AIO-13\OAB
(Default Web Site)"

RunspaceId           : fb178ec8-f947-47b0-a7d5-382cd236633d
GeneratingMailbox     : contoso.com/Users/SystemMailbox(b5558c35-97f1-4cb9-8ff7-d53741dc928c)
AddressLists          : <\All Contacts>
Versions              : <Version4>
IsDefault             : False
PublicFolderDatabase  : 
PublicFolderDistributionEnabled : False
GlobalWebDistributionEnabled : False
WebDistributionEnabled : True
ShadowMailboxDistributionEnabled : False
LastTouchedTime       : 
LastRequestedTime     : 
LastFailedTime        : 
LastNumberOfRecords   : 
LastGeneratingData    : 
MaxBinaryPropertySize : 32768
MaxMultivaluedBinaryPropertySize : 65536
MaxStringPropertySize : 3400
MaxMultivaluedStringPropertySize : 65536
ConfiguredAttributes  : <>
DiffRetentionPeriod   : 30
Schedule              : <Sun.5:00 AM-Sun.5:15 AM, Mon.5:00 AM-Mon.5:15 AM, Tue.5:00 AM-Tue.5:15 AM,
Wed.5:00 AM-Wed.5:15 AM, Thu.5:00 AM-Thu.5:15 AM, Fri.5:00 AM-Fri.5:15 AM, Sat.5:00
AM-Sat.5:15 AM>
VirtualDirectories    : <AIO-13\OAB (Default Web Site)>
ExchangeVersion       : 0.20 (15.0.0.0)
AdminDisplayName      : 
Name                  : Test
DistinguishedName     : CN=Test,CN=Offline Address Lists,CN=Address Lists Container,CN=TestOrg,CN=Microsoft
Exchange,CN=Services,CN=Configuration,DC=contoso,DC=com
Identity              : \Test
Guid                  : 7a66e839-9406-4aa6-af56-b619ca536ddc
ObjectCategory        : contoso.com/Configuration/Schema/ms-Exch-OAB
ObjectClass            : <top, msExchOAB>
WhenChanged           : 9/13/2022 2:48:28 PM
WhenCreated            : 9/13/2022 2:48:28 PM
WhenChangedUTC         : 9/13/2022 6:48:28 AM
WhenCreatedUTC         : 9/13/2022 6:48:28 AM
OrganizationId        : 
Id                    : \Test
OriginatingServer     : AIO-13.contoso.com
IsValid               : True
ObjectState            : Unchanged

[PS] C:\windows\system32>_
```

2.2.5 Assign offline address book to recipients.

```
Get-Mailbox -Filter {CustomAttribute1 -eq "OU_Test"} | Set-
Mailbox -OfflineAddressBook "<alias>"
```

2.2.6 Update the changes manually.

```
Update-OfflineAddressBook "Test"
```

```
Machine: AIO-13.contoso.com

[PS] C:\windows\system32>Get-Mailbox -Filter {CustomAttribute1 -eq "OU_Test"} | Set-Mailbox -OfflineAddressBook "Test"
[PS] C:\windows\system32>Update-OfflineAddressBook "Test"
[PS] C:\windows\system32>_
```

Make sure OAB enabled

Step 1: verify the exchange web services.

```
Get-WebServicesVirtualDirectory | Select name, *url* | fl
```