Landis Technologies LLC

SEFAUtil Server User Manual

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Overview of SEFAUtil Server

What does it do?

SEFAUtil Server allows user settings like forwarding, presence, note, or contact list(s) to be changed centrally using one of several methods:

- PowerShell
- BOT
- WCF Endpoint

What are Common Use Cases?

The functionality is useful in these scenarios:

- (User/Boss-Admin/Receptionist Scenario) Boss/Admin style Changing of User Settings on Behalf of Another User
    - Change Forwarding, Presence, Note etc. for another user (like a Boss)
- (Administrator Initial Configuration Scenario) Initial Configuration of User Settings
    - Migration of User Settings from Another PBX to Skype for Business Server or vice versa
    - Initial configuration of User Settings when no other system involved.
- (Administrator Ongoing Management Scenario) Ongoing Management of User Settings
    - Enforce a call forwarding policy (users w/no voicemail have calls forwarded to an announcement, for example)
    - Centrally managed native SfB Contact Group
    - Ensure User Note meets company policy (no profanity, etc.)

Community versus Enterprise Edition

Below is a comparison of Community and Enterprise editions of SEFAUtil Server:

Licensing model was updated on November 17, 2017.

	Discontinued		
	Community	Community	Enterprise
Total System User Supported	Unlimited	<50	1 to +100K
PowerShell equivalent of Microsoft sefautil.exe	X	X	X
Manage Forwarding	X	X	X
Manage Delegates	X	X	X
Manage Team Call	X	X	X
Manage Sim Ring	X	X	X
Yammer / Community supported	X	X	X
Commercial Support			X
Instant Message BOT Interface		X	X
API Interface		X	X
Supports "Powered by Landis SEFAUtil Server" Apps		X	X
Trial "Powered by Landis SEFAUtil Server Apps	X	X	X
Manage User Presence		X	X
Change Presence		X	X
Change Note		X	X
Manage User Contact List		X	X
Add Skype for Business Contact Group		X	X
Granular user security		X	X
RBAC AD Security – Future		X	X
Access to future updates & upgrades		X	X

SEFAUtil Server Installation

Here are some comments

Overview

Below is an overview of installing SEFAUtil Server.

- Understand Prerequisites
- Provision a Skype for Business Trusted Application Server
- Configure a Trusted Application & Trusted Application Endpoint
- Installation of the SEFAUtil Server Trusted UCMA Application
- Register SEFAUtil Server
- Test by running a SEFAUtil Server command

Prerequisites

There are a few prerequisites for running SEFAUtil Server:

- Skype for Business Server
    - SEFAUtil Server only works with Skype for Business Server on-premises. It does not work with Skype for Business Online or Cloud PBX.
- A Skype for Business Trusted Application Server or Pool
    - Microsoft does not support running Trusted Applications (like SEFAUtil Server) on a Skype for Business Front End Server
- Internet Access to Register SEFAUtil Server immediately
    - Otherwise you will need to email sales@landiscomputer.com for a key which will not be immediate.
- SEFAUtil Server installation file
    - https://landiscomputer.freshdesk.com/support/solutions/articles/6000175014-sefautil-server-update-downloads

Provisioning/Installing a Skype for Business Trusted Application Server

Configuring a Skype for Business "Trusted Application Server/Pool" is beyond the scope of this manual but below is an outline of the steps.

- Set the Skype for Business topology builder to configure the new Trusted Application server (or pool) and publish the topology.
- On each Trusted Application server, run the Skype for Business installer.
- Run the Skype for Business Deployment Wizard.
- On the main page, click "Install or Update Skype for Business Server System"
- then "Install Local Configuration Store"
- then "Setup or Remove Skype for Business Server Components"
- then "Request, Install, or Assign Certificates"
- the certificate will usually come from an internal certificate authority, similar to the Default certificate installed on your Front End servers or the certificate
- Installed on the internal interface of the Edge. Just run the cert wizard and let it do its thing. It should have the server FQDN and Pool FQDN (if setup in pool).

For a detailed, step by step resource on how setup a Trusted Application Server/Pool in your Skype for Business infrastructure reference the below article:
https://wimvanhouts.wordpress.com/2015/09/09/installing-configuring-provisioning-a-skype-for-business-trusted-application-server/

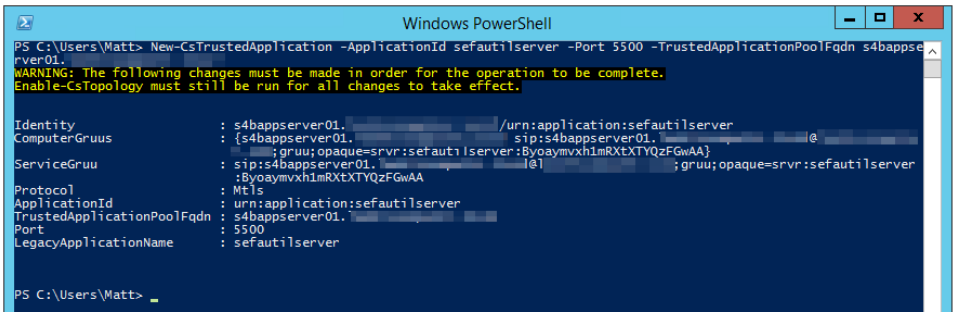
Configure a Trusted App & Trusted App Endpoint on the Trusted App Server or Pool

Open Powershell on the Skype for Business (Lync) Server trusted application server you have previously setup.

You are going to need an unused port number. If you don't know an unused port number, run "get-csTrustedApplication | ft Identity, port" get to see applications and their associated port numbers that are already in use.

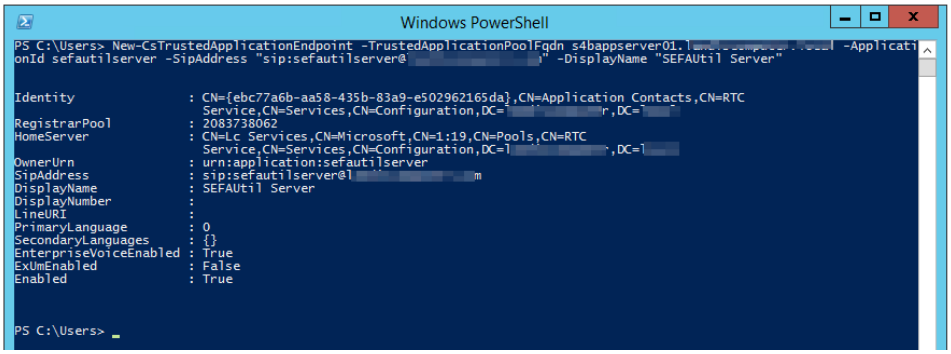
Now run: (replacing red values with your environment specific values)

New-CsTrustedApplication –ApplicationId sefautilserver -Port 5500 -TrustedApplicationPoolFqdn yourPoolFQDN.domain.com



Now we will create an endpoint which you will interact with.

New-CsTrustedApplicationEndpoint -TrustedApplicationPoolFqdn yourPoolFQDN.domain.com –ApplicationId sefautilserver -SipAddress "sip:sefautilserver@domain.com" -DisplayName "SEFAUTIL Server"



A step for those using Lync Server 2013

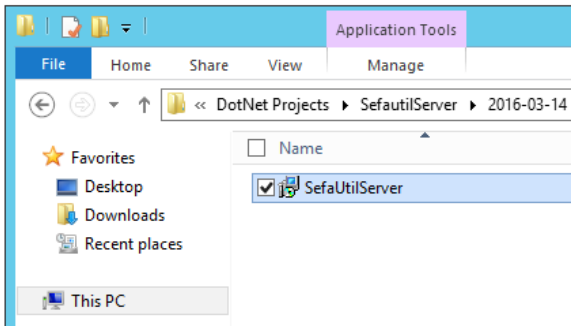
SEFAUTIL Server has been compiled using the latest UCMA SDK which means that we will need to do a small tweak to force UCMA 4 to be use. In the SEFAUTIL Server code folder look for sefautilserver.exe.config and open the file using Notepad. Insert the below code immediately after the close </startup> tag:

<runtime> <assemblyBinding xmlns="urn:schemas-microsoft-com:asm.v1"> <dependentAssembly> <assemblyIdentity name="Microsoft.Rtc.Collaboration" publicKeyToken="31bf3856ad364e35" culture="neutral" /> <bindingRedirect oldVersion="0.0.0.0-6.0.0.0" newVersion="5.0.0.0" /> </dependentAssembly> </assemblyBinding> </runtime>

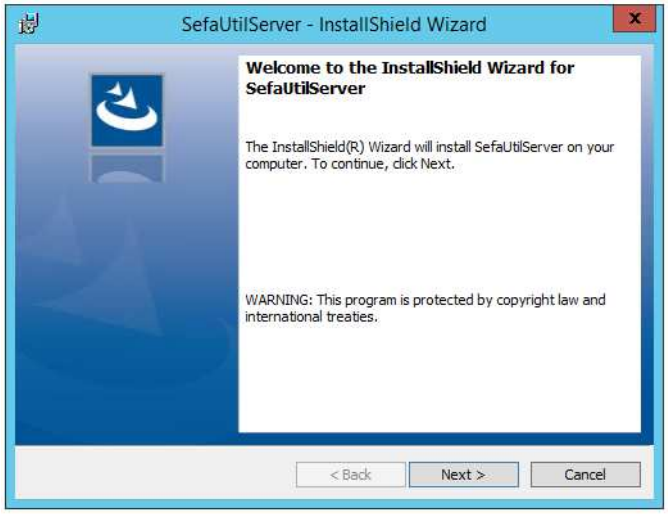
Installation

Download the latest version of SEFAUtil Server installer here:
https://landiscomputer.freshdesk.com/solution/articles/6000175014-sefautil-server-update-downloads

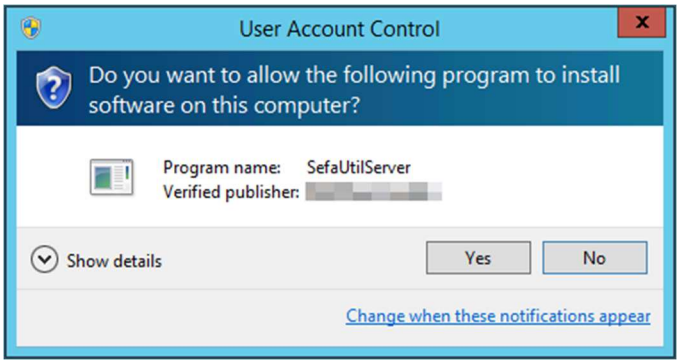
Run the installer.



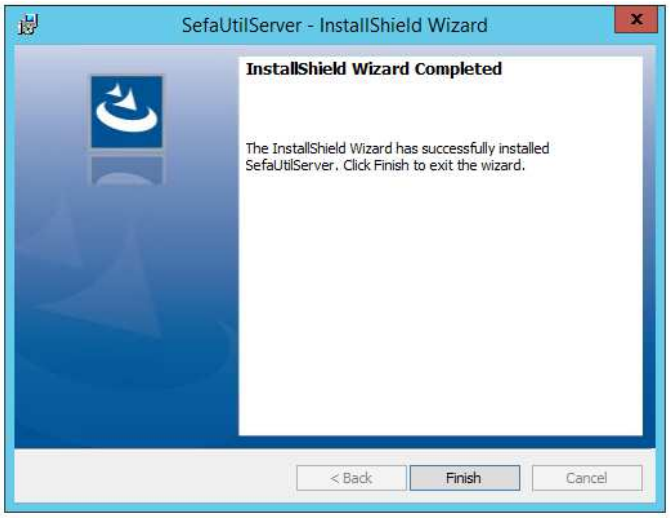
Next, (Customer Information) Next, (Destination Folder) Next, (Ready to Install the Program) Next.



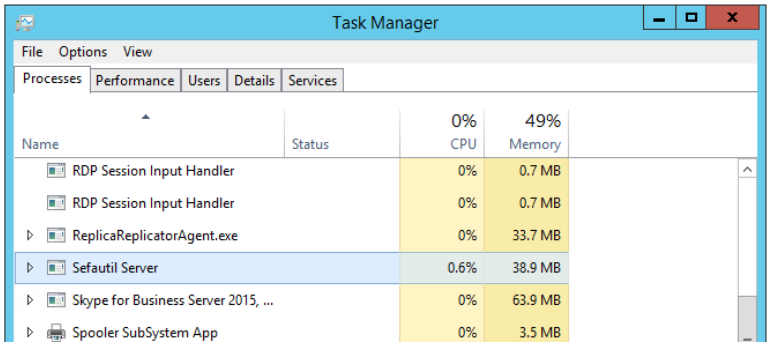
User Account Control: Yes.



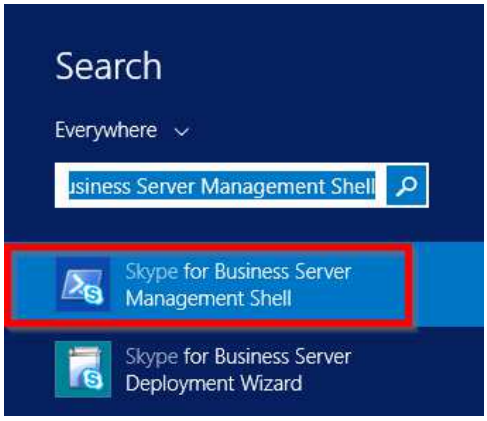
Click Finish.



Now SEFAUtil Server should be running. We can verify opening the Task

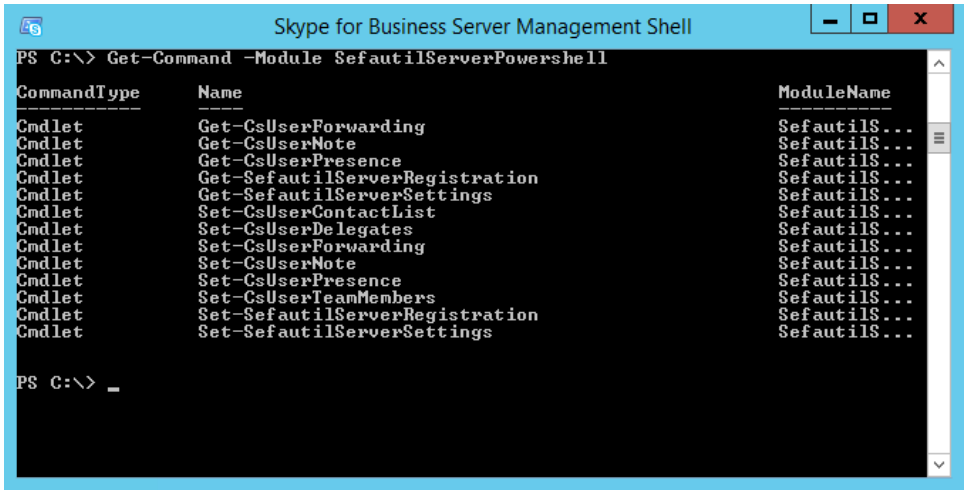


NOTE: Now we need to exit this PowerShell session and restart the "Skype for Business Server Management Shell" so the new SEFAUtil Server cmdlets become available.



Now run: PS> get-command -Module SefautilServerPowershell

To make sure the new cmdlets are available.



http://windowspbx.blogspot.com/2016/03/how-to-install-skype-for-business.html

Register & Get a Key

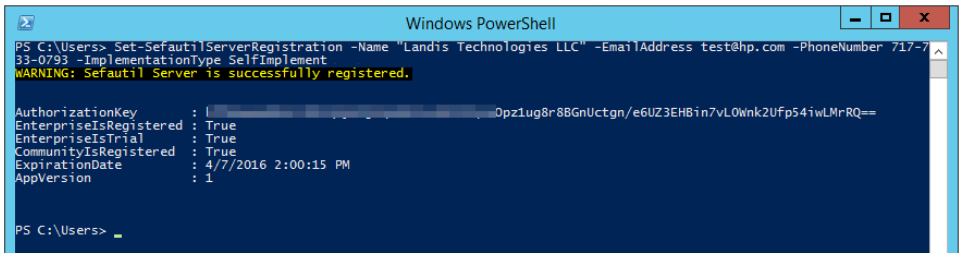
Next you will register to get a free key for the perpetually free SEFAUtil Server Community Edition (See Community versus Enterprise Edition) by running the below command.

Note: Your firewall will need to grant access to https://lcregistration.landiscomputer.com to immediately receive a key via the web. Otherwise email sales@landiscomputer.com to get a free SEFAUtil Server Community Edition key.

The system will use Azure to immediately retrieve your key:

Set-SefautilServerRegistration –Name YourOrgName –EmailAddress YourCorpEmailAddress@YourDomain.com –PhoneNumber YourPhoneNumber –ImplementationType

Now Press {Tab}



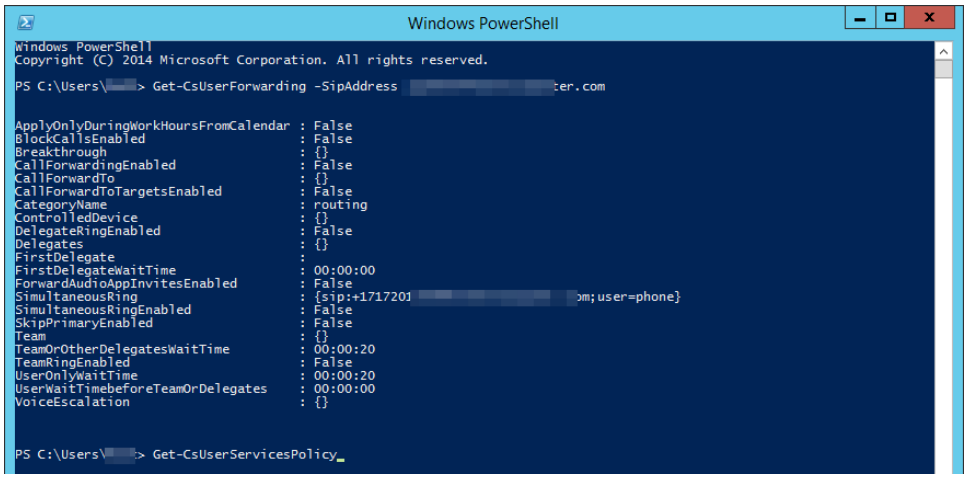
NOTE: If you have been sent a registration key via email can run this PowerShell instead of the above command: Set-SefautilServerRegistration –RegistrationKey "{key here}"

Verify Installation

Now let's just run a SEFAUtil Server command to check the forwarding of a specific user in our environment.

PS\> Get-CsUserForwarding -SipAddress user@yourdomain.com

And it should look something like the below PowerShell output.



Debugging: Something Went Wrong

If the command did not work you can use several resources to resolve the issue:

Landis Technologies Knowledge Base
https://landiscomputer.freshdesk.com/support/solutions/6000133104

Skype for Business MVP Greig Sheridan Article
https://greigsydney.com/installing-sefautil-server/

Ask the Community
https://www.yammer.com/attendantpro

Start a Support Ticket
https://landiscomputer.freshdesk.com/

Using SEFAUtil Server Commands

More

There are several interfaces to use SEFAUTIL Server:

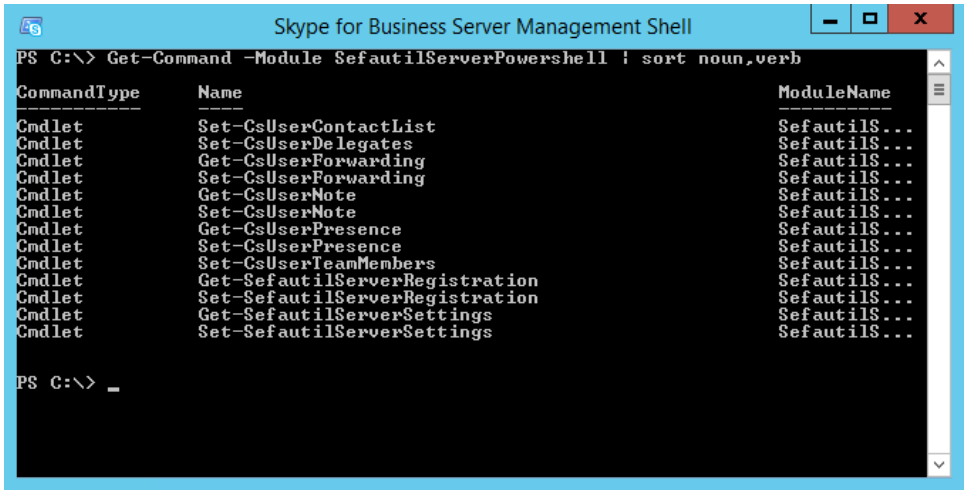
- PowerShell
- BOT
- WCF EndPoint

	PowerShell	BOT	WCF
Forwarding	X	X	X
Delegates	X	X	X
Team Members	X	X	X
Presence	X	X	X

Note	X	X	X
Contact List	X		X

To get the commands from PowerShell you can always run:

PS>get-command -Module SefaUtilServerPowershell



To get help about a specific command, you can run:

PS>get-help Set-CsUserForwarding -Detailed

Set-CsUserContactList

Synopsis

```
Modify a user's contact list
```

Syntax

```
Set-CsUserContactList -ContactsSipAddress <String[]> [-GroupsToAddContactsTo
<String[]>] [-GroupsToRemoveContactsFrom <String[]>] [-AddToFavoritesGroup
[<SwitchParameter>]] [-AddToOtherContactsGroup [<SwitchParameter>]]
[-RemoveFromFavoritesGroup [<SwitchParameter>]]
[-RemoveFromOtherContactsGroup [<SwitchParameter>]] [-RemoveFromAllGroups
[<SwitchParameter>]] [-SipAddress] <String> [-Server <String>]
[<CommonParameters>]
```

Description

```
This command adds or removes one or more contacts from a user's contact
list. This command can only be run against 1 user at a time but it can add
or remove multiple contacts at a time. It can also add or remove the
contacts from multiple groups at a time. Contacts are first removed from the
groups in the remove list and then added to the groups in the add list.
Contacts must be added or removed from at least one group, otherwise you
will get an error.

Skype for Business client behavior to beware of
-----------------------------------------------------------------------
- In the SfB client, the Other Contacts group only shows contacts that have
NOT been added to any other group. Therefore, if a contact is added to both
the Other Contacts group and to any other group, that contact will not
```

```
appear in the Other Contacts group.
- In the SfB client, group names are case sensitive even though they only
are shown in upper case. This command first does a case sensitive search
when searching for groups to add the contacts to. If none are found, it then
does a case insensitive search.
```

Parameters

```
-ContactsSipAddress <String[]>
    Sip address of the contacts to add or remove from the user's contact
    list. The same add/remove actions will be performed on all contacts in
    this list. If different actions are required for each contact, then the
    command must be run multiple times.

    Valid inputs:
    user1@domain.com
    sip:user1@domain.com
    user2@domain.com, user2@domain.com, sip:user3@domain.com

-GroupsToAddContactsTo <String[]>
    List of groups to add contacts to. If Other Contacts or Favorites are
    passed in, then the contacts will be added to those static groups.

    Valid inputs:
    Group1
    Group2, Group3, Favorites
    "Group 2","Group 3"

-GroupsToRemoveContactsFrom <String[]>
    List of groups to remove contacts from. If Other Contacts or Favorites
    are passed in, then the contacts will be removed from those static
    groups.

    Valid inputs:
    Group1
    Group2, Group3, Favorites
    "Group 2","Group 3"

-AddToFavoritesGroup [<SwitchParameter>]
    Add this parameter to add the contacts to the Favorites group.

-AddToOtherContactsGroup [<SwitchParameter>]
    Add this parameter to add the contacts to the Other Contacts group.

-RemoveFromFavoritesGroup [<SwitchParameter>]
    Add this parameter to remove the contacts from the Favorites group.

-RemoveFromOtherContactsGroup [<SwitchParameter>]
    Add this parameter to remove the contacts from the Other Contacts group.

-RemoveFromAllGroups [<SwitchParameter>]
    Add this parameter to remove the contacts from all groups and the
    contact list.

-SipAddress <String>
    Specify the sip address of the user that you want to act on. The
    following formats are accepted:
    user@sipdomain.com
    sip:user@sipdomain.com

-Server <String>
    Optional. Specifies the FQDN of the Skype for Business pool where the
    user is homed. Useful if automatic server discovery is not properly
    configured in your environment.

    One of the following DNS records needs to be configured in your internal
    environment to enable automatic server discovery.
    SRV    _sipinternaltls._tcp.{sipdomain.com}
    SRV    _sip._tls.{sipdomain.com}
    A         sipinternal.{sipdomain.com}
    A         sip.{sipdomain.com}
```

```
    You may get the following error message if automatic discovery is not
    configured and this parameter is not supplied.
    Microsoft.Rtc.Signaling.OperationFailureException:Automatic server
    discovery for the given sip user uri failed.
```

Examples

```
    -------------------------  Example 1  -------------------------

    Set-CsUserContactList -SipAddress user1@domain.com -ContactsSipAddress
    contact1@domain.com -GroupsToAddContactsTo "Group 1"

    Adds contact1 to Group 1


    -------------------------  Example 2  -------------------------

    Set-CsUserContactList -SipAddress user1@domain.com -ContactsSipAddress
    contact2@domain.com, contact3@domain.com -GroupsToAddContactsTo Group2,
    Group3 -AddToFavoritesGroup

    Adds contact2 and contact3 to Group2 and Group3 and Favorites


    -------------------------  Example 3  -------------------------

    Set-CsUserContactList -SipAddress user1@domain.com -ContactsSipAddress
    contact2@domain.com -GroupsToAddContactsTo Group3 -RemoveFromAllGroups

    First removes contact2 from all groups then adds contact2 to Group3


    -------------------------  Example 4  -------------------------

    Set-CsUserContactList -SipAddress user1@domain.com -ContactsSipAddress
    contact2@domain.com -GroupsToRemoveContactsFrom Group3

    Removes contact2 from Group3


    -------------------------  Example 5  -------------------------

    Set-CsUserContactList -SipAddress user1@domain.com -ContactsSipAddress
    contact2@domain.com, sip:contact3@domain.com -GroupsToRemoveContactsFrom
    "Group 1", "Group 2" -RemoveFromFavoritesGroup

    Removes contact2 and contact3 from Group 1, Group 2, and Favorites


    -------------------------  Example 6  -------------------------

    Set-CsUserContactList -SipAddress user1@domain.com -ContactsSipAddress
    contact2@domain.com, sip:contact3@domain.com -RemoveFromAllGroups

    Removes contact2 and contact3 from all groups


    -------------------------  Example 7  -------------------------

    Set-CsUserContactList -SipAddress user1@domain.com -ContactsSipAddress
    contact2@domain.com -GroupsToAddContactsTo Group3
    -GroupsToRemoveContactsFrom Group2

    Remove contact2 from Group2 and add it to Group3
```

Set-CsUserDelegates

Synopsis

```
    Updates a user's delegates
```

Syntax

```
Set-CsUserDelegates [-AddMembers <String[]>] [-RemoveAllMembersFirst
[<SwitchParameter>]] [-DelayRingTime <Nullable`1[Int32]>] [-SipAddress]
<String> [-Server <String>] [<CommonParameters>]

Set-CsUserDelegates [-RemoveMembers <String[]>] [-DelayRingTime
<Nullable`1[Int32]>] [-SipAddress] <String> [-Server <String>]
[<CommonParameters>]

Set-CsUserDelegates [-RemoveAllMembers [<SwitchParameter>]] [-DelayRingTime
<Nullable`1[Int32]>] [-SipAddress] <String> [-Server <String>]
[<CommonParameters>]
```

Description

```
This command adds or removes delegates from a user. Use this command if you
want to set a user's delegates without changing their forwarding settings.

This command can be run 3 different ways:
Add delegates
Remove delegates
Remove all delegates
```

Parameters

```
-AddMembers <String[]>
    Sip address of the contacts to add to the user's delegates.

    Valid inputs:
    user1@domain.com
    sip:user1@domain.com
    user2@domain.com, user2@domain.com, sip:user3@domain.com

-RemoveAllMembersFirst [<SwitchParameter>]
    Use this parameter to first clear the delegates list before adding other
    delegates. Valid only with the AddMembers parameter.

-DelayRingTime <Nullable`1[Int32]>
    Sets the amount of time in seconds to wait before also ringing the
    delegates. Valid range is 0 (immediate) - 60

-SipAddress <String>
    Specify the sip address of the user that you want to act on. The
    following formats are accepted:
    user@sipdomain.com
    sip:user@sipdomain.com

-Server <String>
    Optional. Specifies the FQDN of the Skype for Business pool where the
    user is homed. Useful if automatic server discovery is not properly
    configured in your environment.

    One of the following DNS records needs to be configured in your internal
    environment to enable automatic server discovery.
    SRV    _sipinternaltls._tcp.{sipdomain.com}
    SRV    _sip._tls.{sipdomain.com}
    A         sipinternal.{sipdomain.com}
    A         sip.{sipdomain.com}

    You may get the following error message if automatic discovery is not
    configured and this parameter is not supplied.
    Microsoft.Rtc.Signaling.OperationFailureException:Automatic server
    discovery for the given sip user uri failed.

-RemoveMembers <String[]>
    Sip address of the contacts to remove from the user's delegates.

    Valid inputs:
    user1@domain.com
    sip:user1@domain.com
```

```
    user2@domain.com, user2@domain.com, sip:user3@domain.com

-RemoveAllMembers [<SwitchParameter>]
    Removes all delegates from the user.
```

Examples

```
-------------------------  Example 1  -------------------------

Set-CsUserDelegates -SipAddress user1@domain.com -AddMembers
contact1@domain.com, sip:contact2@domain.com -RemoveAllMembersFirst
-DelayRingTime 10

First removes all contacts from the user's delegates then adds contact1 and
contact2 as delegates. Sets the ring delay to 10 so that incoming calls wait
10 seconds before ringing the delegates.


-------------------------  Example 2  -------------------------

Set-CsUserDelegates -SipAddress user1@domain.com -AddMembers
contact1@domain.com

Adds contact1 as a delegate


-------------------------  Example 3  -------------------------

Set-CsUserDelegates -SipAddress user1@domain.com -RemoveMembers
contact1@domain.com

Removes contact1 as a delegate


-------------------------  Example 4  -------------------------

Set-CsUserDelegates -SipAddress user1@domain.com -RemoveAllMembers

Removes all delegates
```

Get-CsUserForwarding

Synopsis

```
Get a user's call forwarding settings.
```

Syntax

```
Get-CsUserForwarding [-SipAddress] <String> [-Server <String>]
[<CommonParameters>]
```

Description

```
Use this command to retrieve the user's current call forwarding settings.
```

Parameters

```
-SipAddress <String>
    Specify the sip address of the user that you want to act on. The
    following formats are accepted:
    user@sipdomain.com
    sip:user@sipdomain.com

-Server <String>
    Optional. Specifies the FQDN of the Skype for Business pool where the
    user is homed. Useful if automatic server discovery is not properly
    configured in your environment.

    One of the following DNS records needs to be configured in your internal
    environment to enable automatic server discovery.
    SRV    _sipinternaltls._tcp.{sipdomain.com}
    SRV    _sip._tls.{sipdomain.com}
```

```
A          sipinternal.{sipdomain.com}
A          sip.{sipdomain.com}

You may get the following error message if automatic discovery is not
configured and this parameter is not supplied.
Microsoft.Rtc.Signaling.OperationFailureException:Automatic server
discovery for the given sip user uri failed.
```

Examples

```
-------------------------  Example 1  -------------------------

Get-CsUserForwarding -SipAddress user@domain.com

Retrieves the user's call forwarding settings.
```

Set-CsUserForwarding

Synopsis

```
Changes a user's forwarding settings
```

Syntax

```
Set-CsUserForwarding -DisableForward [<SwitchParameter>]
[-UnansweredCallsToVoicemail [<SwitchParameter>]] [-UnansweredCallsToOther
<String>] [-UnansweredCallWaitTime <Nullable`1[Int32]>] [-SipAddress]
<String> [-Server <String>] [<CommonParameters>]

Set-CsUserForwarding -EnableForward <FwdDestinationType> [-OtherDestination
<String>] [-SetDelegates <String[]>] [-SipAddress] <String> [-Server
<String>] [<CommonParameters>]

Set-CsUserForwarding -EnableSimRing <SimRingDestinationType>
[-OtherDestination <String>] [-UnansweredCallsToVoicemail
[<SwitchParameter>]] [-UnansweredCallsToOther <String>]
[-UnansweredCallWaitTime <Nullable`1[Int32]>] [-SetDelegates <String[]>]
[-SetTeamMembers <String[]>] [-DelegateTeamDelayRingTime
<Nullable`1[Int32]>] [-SipAddress] <String> [-Server <String>]
[<CommonParameters>]
```

Description

```
This command is used to change a user's call forwarding settings.

DisableForward mode = Calls will ring to the user and after some time the
call will transfer to the Unanswered Calls destination.
EnableForward mode = Calls will immediately ring at the destination
specified and will not ring at the user's SfB endpoint.
EnableSimRing mode = Calls will ring to the user and another destination at
the same time. After some time the call will transfer to the Unanswered
Calls destination.

The DisableForward, EnableForward, and EnableSimRing parameters are mutually
exclusive. Only one of them can be used at a time.
```

Parameters

```
-DisableForward [<SwitchParameter>]
    This parameter puts the cmdlet in Disable Forward mode.

-UnansweredCallsToVoicemail [<SwitchParameter>]
    Send unanswered calls to voicemail.

    Valid only with DisableForward and EnableSimRing.
    Cannot be used with the UnansweredCallsToVoicemail parameter.

-UnansweredCallsToOther <String>
    Specifies another destination to send unanswered calls to. Valid input
    is a sip address or phone number.
```

```
    Valid only with DisableForward and EnableSimRing.
    Cannot be used with the UnansweredCallsToOther parameter.

-UnansweredCallWaitTime <Nullable`1[Int32]>
    Specify the amount of time in seconds to wait before sending the call to
    voicemail or another destination. Valid range is 1 - 60

    Valid only with DisableForward and EnableSimRing.

-SipAddress <String>
    Specify the sip address of the user that you want to act on. The
    following formats are accepted:
    user@sipdomain.com
    sip:user@sipdomain.com

-Server <String>
    Optional. Specifies the FQDN of the Skype for Business pool where the
    user is homed. Useful if automatic server discovery is not properly
    configured in your environment.

    One of the following DNS records needs to be configured in your internal
    environment to enable automatic server discovery.
    SRV    _sipinternaltls._tcp.{sipdomain.com}
    SRV    _sip._tls.{sipdomain.com}
    A         sipinternal.{sipdomain.com}
    A         sip.{sipdomain.com}

    You may get the following error message if automatic discovery is not
    configured and this parameter is not supplied.
    Microsoft.Rtc.Signaling.OperationFailureException:Automatic server
    discovery for the given sip user uri failed.

-EnableForward <FwdDestinationType>
    This parameter puts the cmdlet in Enable Forward mode.
    Accepts the following values:
       Voicemail
       Delegates
       Other

-OtherDestination <String>
    Specifies another destination to forward or sim ring. Valid input is a
    sip address or phone number.

    Valid only with EnableForward and EnableSimRing.
    Valid only and required when the destination type is set to Other.

-SetDelegates <String[]>
    Sip address of the contacts to set as the user's delegates. This will
    clear all existing delegates first.

    Valid inputs:
    user1@domain.com
    sip:user1@domain.com
    user2@domain.com, user2@domain.com, sip:user3@domain.com

    Valid only with EnableForward and EnableSimRing.

-EnableSimRing <SimRingDestinationType>
    This parameter puts the cmdlet in Enable SimRing mode.
    Accepts the following values:
       Delegates
       Team
       Other

-SetTeamMembers <String[]>
    Sip address of the contacts to set as the user's team members. This will
    clear all existing team members first.

    Valid inputs:
    user1@domain.com
    sip:user1@domain.com
    user2@domain.com, user2@domain.com, sip:user3@domain.com
```

```
        Valid only with EnableSimRing.

    -DelegateTeamDelayRingTime <Nullable`1[Int32]>
        Sets the amount of time in seconds to wait before also ringing the
        delegates or team members. Valid range is 0 (immediate) - 60

        Valid only with EnableSimRing.
```

Examples

```
    -------------------------  Example 1  -------------------------

    Set-CsUserForwarding -SipAddress user1@domain.com -DisableForward

    Disable forwarding.


    -------------------------  Example 2  -------------------------

    Set-CsUserForwarding -SipAddress user1@domain.com -DisableForward
    -UnansweredCallsToVoicemail -UnansweredCallWaitTime 30

    Disable forwarding and send unanswered calls to voicemail in 30 seconds.


    -------------------------  Example 3  -------------------------

    Set-CsUserForwarding -SipAddress user1@domain.com -DisableForward
    -UnansweredCallsToOther "+17171234567"

    Disable forwarding and send unanswered calls to +17171234567


    -------------------------  Example 4  -------------------------

    Set-CsUserForwarding -SipAddress user1@domain.com -EnableForward Voicemail

    Enable forwarding directly to voicemail.


    -------------------------  Example 5  -------------------------

    Set-CsUserForwarding -SipAddress user1@domain.com -EnableForward Delegates
    -SetDelegates contact1@domain.com, contact2@domain.com

    Enable forwarding to delegates and set the delegates to contact1 and contact2


    -------------------------  Example 6  -------------------------

    Set-CsUserForwarding -SipAddress user1@domain.com -EnableForward Other
    -OtherDestination "+17171234567"

    Enable forwarding directly to +17171234567


    -------------------------  Example 7  -------------------------

    Set-CsUserForwarding -SipAddress user1@domain.com -EnableSimRing Other
    -OtherDestination "+17171234567"

    Enable simultaneous ring to +17171234567


    -------------------------  Example 8  -------------------------

    Set-CsUserForwarding -SipAddress user1@domain.com -EnableSimRing Team
    -SetTeamMembers contact1@domain.com, contact2@domain.com
    -DelegateTeamDelayRingTime 10 -UnansweredCallsToVoicemail
    -UnansweredCallWaitTime 30
```

```
Enable simultaneous ring to team members. Set the team to contact1 and
contact2. Only ring the team after 10 seconds. After 30 seconds, send the
call to voicemail.
```

Instant Message BOT

Disable Forward

/DisableForward: /unansweredest:voicemail sip:<user_uri>

/unansweredest:<voicemail | phonenumber | sipaddress>

/unansweredwaittime:<1-60>

Enable Forward

/EnableFwd:voicemail sip:<user_uri>

/EnableFwd:other <user_to_forward_to_uri> sip:<user_uri>

/EnableFwd:delegates <delegate_uri, delegate_uri> sip:<user_uri>

Enable Sim Ring

/EnableSimRing:other <phone_number> sip:<user_uri>

/EnableSimRing:delegates <delegate_uri, delegate_uri> sip:<user_uri>

/EnableSimRing:team <team_uri, team_uri> sip:<user_uri>

Optional parameters

/unansweredest:<voicemail | phonenumber>

/unansweredwaittime:<1-60>

/delegateteamdelayringtime:<0-60>

Get-CsUserNote

Synopsis

```
Gets a user's Personal and Out of Office note.
```

Syntax

```
Get-CsUserNote [-SipAddress] <String> [-Server <String>] [<CommonParameters>]
```

Description

```
Use this command to retrieve the user's personal and out of office note.
```

Parameters

```
-SipAddress <String>
    Specify the sip address of the user that you want to act on. The
    following formats are accepted:
    user@sipdomain.com
    sip:user@sipdomain.com

-Server <String>
    Optional. Specifies the FQDN of the Skype for Business pool where the
    user is homed. Useful if automatic server discovery is not properly
    configured in your environment.

    One of the following DNS records needs to be configured in your internal
    environment to enable automatic server discovery.
    SRV    _sipinternaltls._tcp.{sipdomain.com}
    SRV    _sip._tls.{sipdomain.com}
    A         sipinternal.{sipdomain.com}
    A         sip.{sipdomain.com}
```

```
        You may get the following error message if automatic discovery is not
        configured and this parameter is not supplied.
        Microsoft.Rtc.Signaling.OperationFailureException:Automatic server
        discovery for the given sip user uri failed.
```

Examples

```
    -------------------------  Example 1  -------------------------

    Get-CsUserNote -SipAddress user@domain.com

    Get the user's notes.
```

Set-CsUserNote

Synopsis

```
    Updates a user's personal note.
```

Syntax

```
    Set-CsUserNote -Note <String> [-SipAddress] <String> [-Server <String>]
    [<CommonParameters>]
```

Description

```
    This command sets a user's personal note to the value supplied. The note
    will be updated in the user's client.
```

Parameters

```
    -Note <String>


    -SipAddress <String>
        Specify the sip address of the user that you want to act on. The
        following formats are accepted:
        user@sipdomain.com
        sip:user@sipdomain.com

    -Server <String>
        Optional. Specifies the FQDN of the Skype for Business pool where the
        user is homed. Useful if automatic server discovery is not properly
        configured in your environment.

        One of the following DNS records needs to be configured in your internal
        environment to enable automatic server discovery.
        SRV    _sipinternaltls._tcp.{sipdomain.com}
        SRV    _sip._tls.{sipdomain.com}
        A         sipinternal.{sipdomain.com}
        A         sip.{sipdomain.com}

        You may get the following error message if automatic discovery is not
        configured and this parameter is not supplied.
        Microsoft.Rtc.Signaling.OperationFailureException:Automatic server
        discovery for the given sip user uri failed.
```

Examples

```
    -------------------------  Example 1  -------------------------

    Set-CsUserNote -SipAddress user@sipdomain.com -Note "this is a test note"

    This command sets the user's note to this is a test note


    -------------------------  Example 2  -------------------------

    Get-CsUser John | Set-CsUserNote -Note "this is a test note"
```

```
    This command pipes the output from the Skype for Business Get-CsUser command
    into the Set-CsUserNote command. This sets the note for John to this is a
    test note
```

Instant Message BOT

/ChangeNote:<Note> sip:<user_uri>

Get-CsUserPresence

Synopsis

```
    Gets a user's presence.
```

Syntax

```
    Get-CsUserPresence [-SipAddress] <String> [-Server <String>]
    [<CommonParameters>]
```

Description

```
    Use this command to retrieve the user's Skype for Business presence.
```

Parameters

```
    -SipAddress <String>
        Specify the sip address of the user that you want to act on. The
        following formats are accepted:
        user@sipdomain.com
        sip:user@sipdomain.com

    -Server <String>
        Optional. Specifies the FQDN of the Skype for Business pool where the
        user is homed. Useful if automatic server discovery is not properly
        configured in your environment.

        One of the following DNS records needs to be configured in your internal
        environment to enable automatic server discovery.
        SRV    _sipinternaltls._tcp.{sipdomain.com}
        SRV    _sip._tls.{sipdomain.com}
        A         sipinternal.{sipdomain.com}
        A         sip.{sipdomain.com}

        You may get the following error message if automatic discovery is not
        configured and this parameter is not supplied.
        Microsoft.Rtc.Signaling.OperationFailureException:Automatic server
        discovery for the given sip user uri failed.
```

Examples

```
    -------------------------  Example 1  -------------------------

    Get-CsUserPresence -SipAddress user@domain.com

    Get the user's presence.
```

Set-CsUserPresence

Synopsis

```
    Updates a user's presence.
```

Syntax

```
    Set-CsUserPresence -Presence <PresenceType> [-SipAddress] <String> [-Server
```

```
    <String>] [<CommonParameters>]
```

Description

```
    This command sets a user's presence to the value supplied. The presence will
    be updated in the user's client.
```

Parameters

```
    -Presence <PresenceType>
        Specify the presence to set for the user. When setting the presence, it
        is invalid to set it to Unknown.

    -SipAddress <String>
        Specify the sip address of the user that you want to act on. The
        following formats are accepted:
        user@sipdomain.com
        sip:user@sipdomain.com

    -Server <String>
        Optional. Specifies the FQDN of the Skype for Business pool where the
        user is homed. Useful if automatic server discovery is not properly
        configured in your environment.

        One of the following DNS records needs to be configured in your internal
        environment to enable automatic server discovery.
        SRV    _sipinternaltls._tcp.{sipdomain.com}
        SRV    _sip._tls.{sipdomain.com}
        A         sipinternal.{sipdomain.com}
        A         sip.{sipdomain.com}

        You may get the following error message if automatic discovery is not
        configured and this parameter is not supplied.
        Microsoft.Rtc.Signaling.OperationFailureException:Automatic server
        discovery for the given sip user uri failed.
```

Examples

```
    -------------------------  Example 1  -------------------------

    Set-CsUserPresence -SipAddress user@sipdomain.com -Presence Available

    This command sets the user's presence to Available.


    -------------------------  Example 2  -------------------------

    Set-CsUserPresence -SipAddress user@sipdomain.com -Presence Reset

    This command will reset the user's presence to the automatic presence
    supplied by the server.
```

Instant Message BOT

/ChangePresence:<PresenceState> sip:<user_uri>

Valid Presence States: Available, Busy, DoNotDisturb, Away, BeRightBack, OffWork, Offline, Reset

Set-CsUserTeamMembers

Synopsis

```
    Updates a user's team call members.
```

Syntax

```
Set-CsUserTeamMembers [-AddMembers <String[]>] [-RemoveAllMembersFirst
[<SwitchParameter>]] [-DelayRingTime <Nullable`1[Int32]>] [-SipAddress]
<String> [-Server <String>] [<CommonParameters>]

Set-CsUserTeamMembers [-RemoveMembers <String[]>] [-DelayRingTime
<Nullable`1[Int32]>] [-SipAddress] <String> [-Server <String>]
[<CommonParameters>]

Set-CsUserTeamMembers [-RemoveAllMembers [<SwitchParameter>]]
[-DelayRingTime <Nullable`1[Int32]>] [-SipAddress] <String> [-Server
<String>] [<CommonParameters>]
```

Description

```
This command adds or removes team members from a user. Use this command if
you want to set a user's team members without changing their forwarding
settings.

This command can be run 3 different ways:
Add team members
Remove team members
Remove all team members
```

Parameters

```
-AddMembers <String[]>
    Sip address of the contacts to add to the user's team members list.

    Valid inputs:
    user1@domain.com
    sip:user1@domain.com
    user2@domain.com, user2@domain.com, sip:user3@domain.com

-RemoveAllMembersFirst [<SwitchParameter>]
    Use this parameter to first clear the team members list before adding
    other team members. Valid only with the AddMembers parameter.

-DelayRingTime <Nullable`1[Int32]>
    Sets the amount of time in seconds to wait before also ringing the team
    members. Valid range is 0 (immediate) - 60

-SipAddress <String>
    Specify the sip address of the user that you want to act on. The
    following formats are accepted:
    user@sipdomain.com
    sip:user@sipdomain.com

-Server <String>
    Optional. Specifies the FQDN of the Skype for Business pool where the
    user is homed. Useful if automatic server discovery is not properly
    configured in your environment.

    One of the following DNS records needs to be configured in your internal
    environment to enable automatic server discovery.
    SRV    _sipinternaltls._tcp.{sipdomain.com}
    SRV    _sip._tls.{sipdomain.com}
    A         sipinternal.{sipdomain.com}
    A         sip.{sipdomain.com}

    You may get the following error message if automatic discovery is not
    configured and this parameter is not supplied.
    Microsoft.Rtc.Signaling.OperationFailureException:Automatic server
    discovery for the given sip user uri failed.

-RemoveMembers <String[]>
    Sip address of the contacts to remove from the user's team members list.

    Valid inputs:
    user1@domain.com
    sip:user1@domain.com
```

```
        user2@domain.com, user2@domain.com, sip:user3@domain.com

    -RemoveAllMembers [<SwitchParameter>]
        Removes all team members from the user.
```

Examples

```
    -------------------------  Example 1  -------------------------

    Set-CsUserTeamMembers -SipAddress user1@domain.com -AddMembers
    contact1@domain.com, sip:contact2@domain.com -RemoveAllMembersFirst
    -DelayRingTime 10

    First removes all contacts from the user's team then adds contact1 and
    contact2 as team members. Sets the ring delay to 10 so that incoming calls
    wait 10 seconds before ringing the team.


    -------------------------  Example 2  -------------------------

    Set-CsUserTeamMembers -SipAddress user1@domain.com -AddMembers
    contact1@domain.com

    Adds contact1 as a team member


    -------------------------  Example 3  -------------------------

    Set-CsUserTeamMembers -SipAddress user1@domain.com -RemoveMembers
    contact1@domain.com

    Removes contact1 as a team member.


    -------------------------  Example 4  -------------------------

    Set-CsUserTeamMembers -SipAddress user1@domain.com -RemoveAllMembers

    Removes all team members
```

Get-SefautilServerRegistration

Synopsis

```
    Gets the registration status of SEFAUtil Server.
```

Syntax

```
    Get-SefautilServerRegistration [<CommonParameters>]
```

Description

```
    Gets the detailed registration status of SEFAUtil Server.
```

Examples

```
    -------------------------  Example 1  -------------------------

    Get-SefautilServerRegistration

    Get the registration status.
```

Set-SefautilServerRegistration

Synopsis

```
Registers the SEFAUtil Server
```

Syntax

```
Set-SefautilServerRegistration -Name <String> -EmailAddress <String>
-PhoneNumber <String> -ImplementationType <ImplementationType>
[<CommonParameters>]

Set-SefautilServerRegistration -RegistrationKey <String> [<CommonParameters>]
```

Description

```
Use this command to request and install the registration key for SEFAUtil
Server. Below are the 2 ways to run this command:

Set-SefautilServerRegistration -Name "contact name" -EmailAddress
"contactemail@domain.com" -PhoneNumber "phone number" -ImplementationType
Partner or PartnerImplement or SelfImplement
    The above method requires Internet access to the following URL
https://lcregistration.landiscomputer.com

Set-SefautilServerRegistration -RegistrationKey "paste key here"
    Contact sales@landiscomputer.com to request a key to use with the above
method.

To generate an auth key, the sip address of the trusted application endpoint
is needed. To get that, run the following command:
Get-CsTrustedApplicationEndpoint -ApplicationId sefautilserver
```

Parameters

```
-Name <String>
    Specifies the contact's name.

-EmailAddress <String>
    Specifies the contact's email address.

-PhoneNumber <String>
    Specifies the contact's phone number.

-ImplementationType <ImplementationType>
    Specifiy the type of implementation.
    Partner = Microsoft Communications partner.
    PartnerImplemented = A Microsoft Partner implemented the product.
    SelfImplement = The end customer implemented the product.

-RegistrationKey <String>
    Specifies the registration key to install.
```

Examples

```
-------------------------  Example 1  -------------------------

Set-SefautilServerRegistration -Name "contact name" -EmailAddress
"contactemail@domain.com" -PhoneNumber "phone number" -ImplementationType
SelfImplement

This command retrieves a key from the online key service at
https://lcregistration.landiscomputer.com



AuthorizationKey       : <the auth key that was retrieved or installed>
EnterpriseIsRegistered : True
EnterpriseIsTrial      : False
CommunityIsRegistered  : True
ExpirationDate         : 3/8/2216 12:00:00 AM
AppVersion             : 1
```

```
-------------------------  Example 2  -------------------------

Set-SefautilServerRegistration -RegistrationKey "paste key here"

This command installs the registration key specified in the registration key
parameter.


AuthorizationKey       : <the auth key that was retrieved or installed>
EnterpriseIsRegistered : True
EnterpriseIsTrial      : False
CommunityIsRegistered  : True
ExpirationDate         : 3/8/2216 12:00:00 AM
AppVersion             : 1
```

Get-SefautilServerSettings

Synopsis

```
Gets a table of configurable settings for SEFAUtil Server.
```

Syntax

```
Get-SefautilServerSettings [<CommonParameters>]
```

Description

```
Gets a table of configurable settings for SEFAUtil Server.
```

Examples

```
-------------------------  Example 1  -------------------------

Get-SefautilServerSettings
```

Set-SefautilServerSettings

Synopsis

```
Changes SEFAUtil Server settings.
```

Syntax

```
Set-SefautilServerSettings [-MultiDelegatePublishDelay <Int32>]
[-IMBotNotifyUserOfChange [<Boolean>]] [<CommonParameters>]
```

Description

```
Use this command to change settings in SEFAUtil Server.
```

Parameters

```
-MultiDelegatePublishDelay <Int32>
    Specifies the delegate publish delay in milliseconds. When setting a
    user's delegates (Set-CsUserForwarding or Set-CsUserDelegates) and
    adding/removing multiple delegates, this setting determines how many
    milliseconds to delay between each delegate publish, This delay can
    resolve errors in some environments. Do not change unless necessary.

-IMBotNotifyUserOfChange [<Boolean>]
    Specifies whether or not to notify the user what a change is made to
    their settings. If user A uses the IM bot to change user B's presence,
    this setting determines whether or not User B will be notified by IM of
    the change.
```

Examples

```
    -------------------------  Example 1  -------------------------

    Set-SefautilServerSettings -MultiDelegatePublishDelay 200

    This command sets the delegate publish delay to 200 milliseconds.


    -------------------------  Example 2  -------------------------

    Set-SefautilServerSettings -IMBotNotifyUserOfChange $false

    This command will prevent a user from being notified when their setting
    changes.
```

Updating SEFAUtil Server

Available Here:

https://landiscomputer.freshdesk.com/support/solutions/articles/6000175014-sefautil-server-update-downloads