

Re: Exchange 2007 – Sending to External Domains

Source:

<http://www.tech-archive.net/Archive/Exchange/microsoft.public.exchange.connectivity/2007-02/msg00047.html>

- *From:* Smurfman <smurfman@xxxxxxxxxxxxxxx>
 - *Date:* Fri, 9 Feb 2007 08:35:01 -0800
-

Okay, I still have one issue.

I still can't send email from Exch2007 mailbox to external domain.

This is where I need some help.

J

"Smurfman" wrote:

Chace,

I re-read your post here...and kind of understand.

By default, the Exch2007 install created Receive Connectors, two of them.

1) Default EXCH2007-SERVER –

- a) Configured to user (All Available) IP addresses on port 25 to receive mail (located on the top portion of the Network Tab)
- b) Configured to receive mail from remote servers with IP address 0.0.0.0-255.255.255.255 (also on the Network Tab)
- c) Authentication by default was TLS checked, Basic only after TLS checked, Exchange Server auth is checked, and Integrated Windows checked.
- d) The permissions tab by default was Exchange Users, Exchange Servers, and Legacy Exchange Servers...I have since added Anonymous to see if this would make a change....obviously I am still missing something.

2) The other Receive connector is the one Created by default for Client EXCH2007-SERVER

- a) Same network settings as the Default server settings, except the port is 587 instead of 25.
- b) Authentication Tab – TLS, Basic after TLS, and Integrated Windows Auth all checked.
- c) Finally the Permissions tab is Exchange Users, Exchange Servers, and Legacy Exchange Servers.

I think the issue I am having is directly related to the External SMTP

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server (the relay server using Virtual SMTP) not allowing the connection to take place, since the Send Connector is trying to pass credentials? Or the receive connector is expecting credentials?

Thanks

J

"chace zhang" wrote:

Hi,

Thank you for posting here.

Based on my research, to establish Internet mail flow through Exchange Hosted Services or a third-Party SMTP gateway, you create a Send connector and a Receive connector between the Hub Transport servers in the Exchange organization and the external SMTP servers that process and route Internet e-mail.

The following authentication methods can be used in this scenario:

Basic authentication The Exchange Hub Transport servers and the external SMTP servers authenticate by using Basic authentication. A user name and password is required. This authentication method is unavailable for Exchange Hosted Services.

Externally secured: The network connection between the Hub Transport servers and the external SMTP servers is secured by using a method that is external to Exchange.

Before you start this procedure, verify that the following prerequisites are met:

If you are using Basic authentication, a domain account must exist in the Active Directory forest to use for Basic authentication. For example, create a domain user account that has the universal principal name (UPN) smtpgateway@xxxxxxxxxxx as the credentials that must be used for authentication by the SMTP gateway when delivering mail to the Exchange servers in the Contoso domain.

If you are using Basic authentication over TLS, the target server must be configured to use an X.509 certificate that contains a fully qualified domain name (FQDN) that is the same as the FQDN of the Receive connector.

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If you are using external authentication, a trusted network connection must exist between the Hub Transport server and the SMTP gateway server. This connection can be an IPsec association or virtual private network (VPN). Alternatively, the servers may reside in a trusted physically controlled network.

To establish mail flow to and from the Internet through Exchange Hosted Services or a third-party SMTP gateway, follow these steps:

Create a Send connector on the Hub Transport server to send e-mail to Exchange Hosted Services or the third-party SMTP gateway.

Create a Receive connector on the Hub Transport server to receive e-mail from Exchange Hosted Services or the third-party SMTP gateway.

Note:

This step is optional. An additional Receive connector is only required if you are using external authentication. If Basic authentication is used, the default Receive connector will accept e-mail submissions from the authenticated SMTP gateway.

Configure the external SMTP gateway server to route and process e-mail to and from your Hub Transport servers.

The following procedure establishes Internet mail between an Exchange 2007 Hub transport server in the Contoso.com Active Directory forest and an external SMTP gateway.

Procedure

To create Internet connectors that are configured to send e-mail between an Exchange 2007 Hub Transport server and an external SMTP gateway by using

Basic authentication

To use the Exchange Management Console to create the Send connector from Contoso.com to the Internet through an external SMTP gateway, follow these steps:

1. Open the Exchange Management Console. Expand Organization Configuration, click Hub Transport, and then, in the action pane, click New Send connector.

2. On the New SMTP Send Connector wizard Introduction page, in the Name field, type a unique name for the connector.

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3. From the Select the intended use for this connector drop-down list, select Custom, and then click Next.

4. On the Address Space page, click Add. In the Add Address Space dialog box, type "*" for the name of the remote SMTP domain, and then click Next.

5. On the Network Settings page, only the Route all mail through the following smart hosts: setting can be selected. Click Add.

6. In the Add Smart Host dialog box, in the IP address or Fully qualified domain name (FQDN) field, type the IP address or FQDN of the external SMTP gateway server, and then click OK. To specify more than one SMTP gateway as a smart host, click Add and enter additional IP addresses or FQDNs, and then click Next.

7. On the Smart host security settings page, select Basic Authentication or Basic Authentication over TLS, type the user name and password that will be used to authenticate the connection, and then click Next.

8. On the Source Server page, click Add. In the Select Hub Transport and subscribed Edge Transport servers dialog box, select one or more Hub Transport servers in your organization, click OK, and then click Next.

9. On the New Connector page, click New, and then on the Completion page, click Finish.

To create Internet connectors that are configured to send e-mail between an Exchange 2007 Hub Transport server and an external SMTP gateway by using external authentication

Create a Send connector by using the following method:

To use the Exchange Management Console to create the Send connector from Contoso.com to the SMTP gateway, follow these steps:

1. Open the Exchange Management Console. Expand Organization Configuration,

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click Hub Transport, and then in the action pane, click New Send connector.

2. On the New SMTP Send connector wizard Introduction page, in the Name field, type a unique name for the connector. From the Select the intended use for this connector drop-down list, select Internal, and then click Next.

3. On the Address Space page, click Add. In the Add Address Space dialog box, type "*", and then click Next.

4. On the Network Settings page, only the Route all mail through the following smart hosts: setting can be selected. Click Add.

5. In the Add Smart Host dialog box, in the IP address or Fully qualified domain name (FQDN), type the IP address or FQDN of the SMTP gateway server, and then click OK. To specify more than SMTP gateway server as a smart host, click Add and enter additional IP addresses or FQDNs, and then click Next.

6. On the Smart host security settings page, select Externally Secured (for example with IPsec), and then click Next.

7. On the Source Server page, click Add. In the Select Hub Transport and subscribed Edge Transport servers dialog box, select one or more Hub Transport servers in your organization, click OK, and then click Next.

8. On the New Connector page, click New, and then on the Completion page, click Finish.

Create a new Receive connector by using following method:

To use the Exchange Management Console to create the Receive connector for Contoso.com to receive mail from an external SMTP gateway, follow these steps:

1. Open the Exchange Management Console. Expand Server Configuration, click

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Hub Transport, and then in the action pane, click New Receive Connector.

2. On the New SMTP Receive Connector wizard Introduction page, in the Name field, type a unique name for the connector.

3. From the Select the intended use for this connector drop-down list, select Internal, and then click Next.

4. On the Remote Network settings page, delete the all network ranges entry, and then click Add.

5. In the Add IP Address(es) of Remote Servers dialog box, type the IP address of the external SMTP gateway server, click OK, and then click Next.

6. On the New Connector page, click New, and then on the Completion page, click Finish.

7. To modify the authentication method that is used for this connector, follow these steps:

8. In the task pane, select the Receive connector that you want to modify, and then in the action pane, click Properties.

9. Click the Authentication tab. Clear the check boxes for Basic Authentication and Exchange Server, select Externally Secured (for example with IPsec), and then click OK.

To establish Internet mail flow directly through a Hub Transport server, you create a Send connector that routes e-mail to the Internet. Also, you modify the configuration of the default Receive connector to accept e-mail from the Internet. In this scenario, the Exchange 2007 Hub Transport server can be reached directly through the Internet. We don't recommend this topology because it increases security risks by exposing to the Internet the Exchange 2007 server and all roles installed on that server. We recommend that you implement a perimeter network-based SMTP gateway, such as the Edge Transport server, instead.

To establish mail flow to and from the Internet through a Hub Transport

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server, follow these steps:

1. Create a Send connector on the Hub Transport server to send e-mail to the Internet.
2. Modify the default Receive connector to allow anonymous connections.
3. Register MX resource records for all accepted domains in a public domain name system (DNS) server.

Note:

Consult the documentation of your DNS provider for information about how to register MX records for your domain.

4. Configure network gateways to route SMTP traffic to and from the Hub Transport server.

The following procedure establishes mail flow directly between an Exchange 2007 Hub Transport server in the Contoso.com Active Directory forest and the Internet.

To create a Send connector on a Hub Transport server that is configured to send e-mail directly to the Internet
To use the Exchange Management Console to create the Send connector from Contoso.com to the Internet, follow these steps:

1. Open the Exchange Management Console. Expand Organization Configuration,