

Hosted Email Security Integration with Microsoft Office 365

» This document highlights the benefits of Hosted Email Security (HES) for Microsoft™ Office™ 365 customers and provides step-by-step instruction on integration.





TABLE OF CONTENTS

Introduction	3
Benefits from Combining HES and Office 365	4
Understanding How Email Flows Works	5
Inbound Email Set Up	6
Outbound Email Set Up	18



INTRODUCTION

Office 365 is Microsoft's cloud solution for accessing email, calendar, and Microsoft office tools. Office 365 allows organizations to host their entire email architecture at an off-site location, and it allows Microsoft to manage all the day-to-day aspects of your organization's email.

Trend Micro has designed Hosted Email Security (HES) for customers who are using either cloud-based or onsite email.

Unlike traditional onsite email solutions where a simple cable could be moved in order to add a layer of protection, cloud-based solutions require a different approach. This document highlights the benefits of HES for Office 365 customers, as well as step-by-step instruction on integration. This integration guide assumes a functioning Office 365 deployment.



BENEFITS OF COMBINING HOSTED EMAIL SECURITY AND OFFICE 365

Moving your mail to the cloud does not mean you have to reduce your security. By integrating Trend Micro™ Hosted Email Security with Microsoft Office 365, you can now have the best of both worlds—true enterprise email security with the convenience of the cloud.

HES can provide the following features to enhance your Office 365 email security:

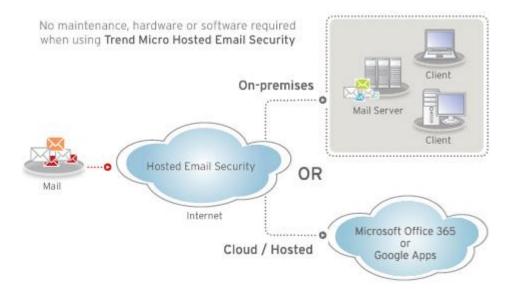
- Layered protection: Provides protection on phishing, spam, and graymail with multiple techniques, including sender reputation, content and image analysis, machine learning, and more.
- **Email fraud protection**: Protects against Business Email Compromise (BEC) with enhanced machine learning, combined with expert rules, analyzing both the header and content of the email
- Cloud sandboxing: Includes cloud sandboxing for automatic in-depth simulation and analysis of potentially malicious attachments in a secure virtual environment hosted by Trend Micro. Cloud sandbox leverages proven Trend Micro™ Deep Discovery™ sandboxing technology, which has achieved a "Recommended" rating by NSS Labs.

Adding HES on top of Microsoft Office 365 offers enhanced security, especially with spearphishing and targeted attack protection, providing you with an additional layer of security against advanced malware and zero-day exploits.



UNDERSTANDING HOW EMAIL FLOW WORKS

In order to better understand how HES works in conjunction with Microsoft Office 365, the path the email message takes must first be understood.



- 1. An email is initiated from one organization to the other. Let's say an email from someone at Trend Micro to someone at Example.com is sent.
- 2. The Trend Micro mail server will look up the MX record of Example.com. This record will contain the Domain Name or IP address of the first hop in Example.com's email architecture. This first hop is the first level of inspection that Example.com wants performed on their email.
- 3. Since Example.com is using Trend Micro HES, this will be the first hop for the inbound email.
- 4. HES then inspects the email via Trend Micro's world class email and web reputation service for threats such as:
 - a. Spam
 - b. Phishing
 - c. Viruses
 - d. Spyware



- 5. If the email passes the HES checks, it is then sent to Example.com's next hop, which is their Microsoft Office 365 cloud email server.
- 6. After further processing by Microsoft Office 365, the email is then sent to the recipient's mailbox.

INBOUND EMAIL SET UP

Configuring your Hosted Email Security Settings

- 1. Configure the corresponding inbound settings in Trend Micro HES to route emails sent to your domain to Office 365.
 - a. Log into the HES main page
 - b. From the above column click on the following:
 - i. **Domains**
 - ii. Add
 - c. For the domain that is being routed:
 - i. Input the IP address or host name of yourOffice 365 Server in the "Inbound Servers" field.

This can either be found by performing an nslookup or through the user interface in

Microsoft Office 365.

Note: Microsoft generates MX records for your domains when you set them up in Exchange Online.

ii. Input the **Port** for your Office 365 server.

(Normally, it's port 25)

- iii. Input the **preference** for your server (sometimes referred to as distance, is a value from 1 to 100.)
- d. Click "Add Domain" to save your setting.



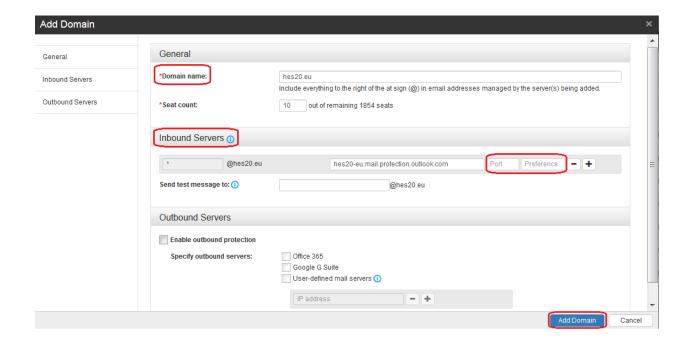
DNS records

The following DNS records must be configured at your DNS hosting provider. The records that you configure depend on the domain purpose that you set. View DNS records

Need help adding these records? See step-by-step instructions for creating DNS records at popular DNS hosting providers.

Exchange Online

TYPE	PRIORITY	HOST NAME	POINTS TO ADDRESS	ΠL
MX	0	@	trenden ablement-com.mail.protection.outlook.com	1 Hour
CNAME	-	autodiscover	autodiscover.outlook.com	1 Hour

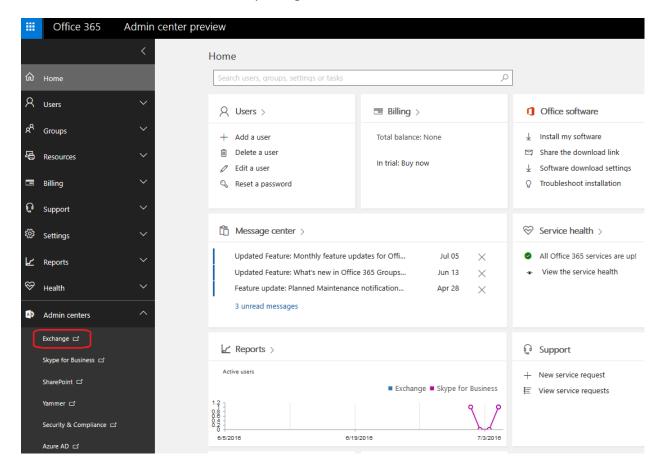


Configuring Microsoft Office 365 Settings

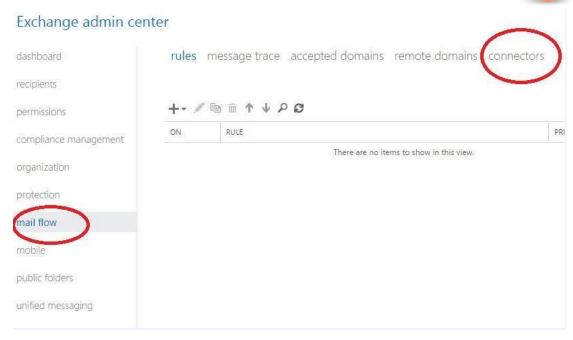
1. Log into your Microsoft Office 365 administrator center account



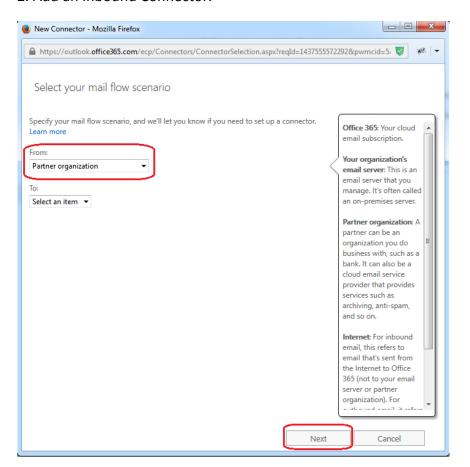
- a. Click on ADMIN from navigation menu
- b. Then Exchange under Admin centers
- c. Then mail flow from left navigation
- d. Then connectors from top navigation menu



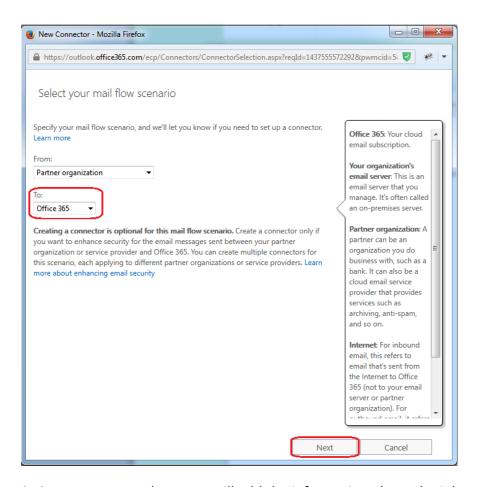




2. Add an Inbound Connector.



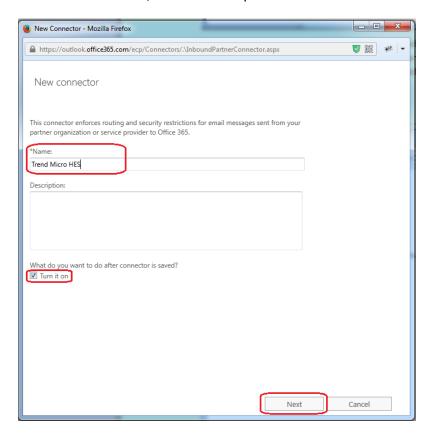




- 3. Connectors are where you will add the information about the inbound HES server.
 - a. Be sure to define the Connector name and the domains you want to accept.

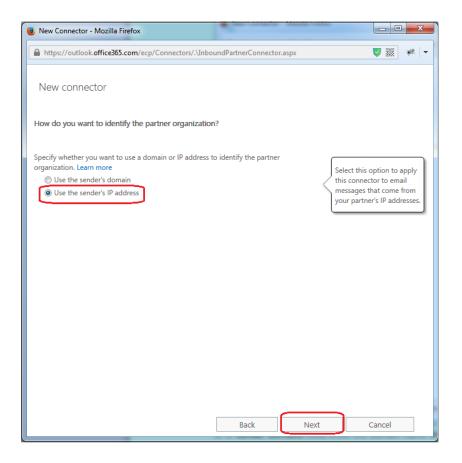


4. In the **Name** field, enter a descriptive name for the inbound connector.





5. Choose: Use the sender's IP address

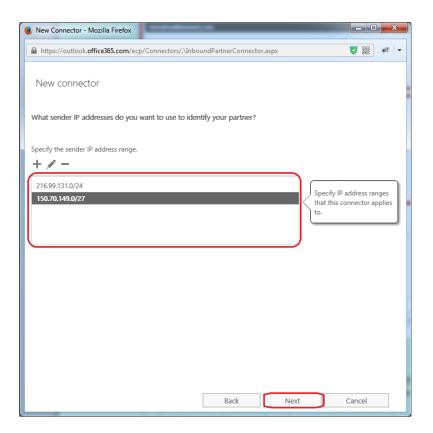


6. In **Specify the sender IP addresses range** field, enter the IP address or addresses for the organization you want to add to the safe list. This will be the IP address of the HES Server. This information is available in the welcome email (not the license registration email) or available in this support article: http://esupport.trendmicro.com/solution/en-us/1055066.aspx.

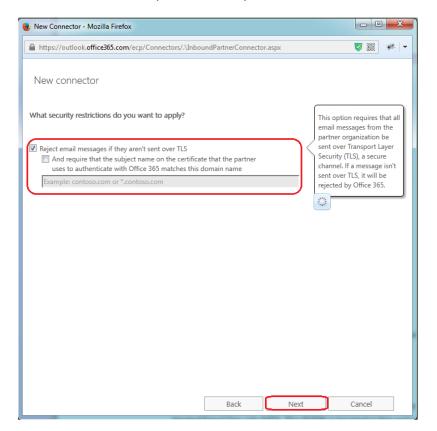
NOTE: You may have Office 365 only accepts rr in range of 24 to 32 (nnn.nnn.nnn.nnn/rr), please modify the rr from HES instructions to the closest Office 365 allows you to set. For example: 216.104.0.0/19 you can enter as 216.104.0.0/24.

The IP addresses in the screenshots above may be subject to change without notice, *always use* information from the welcome email or support article as primary source.



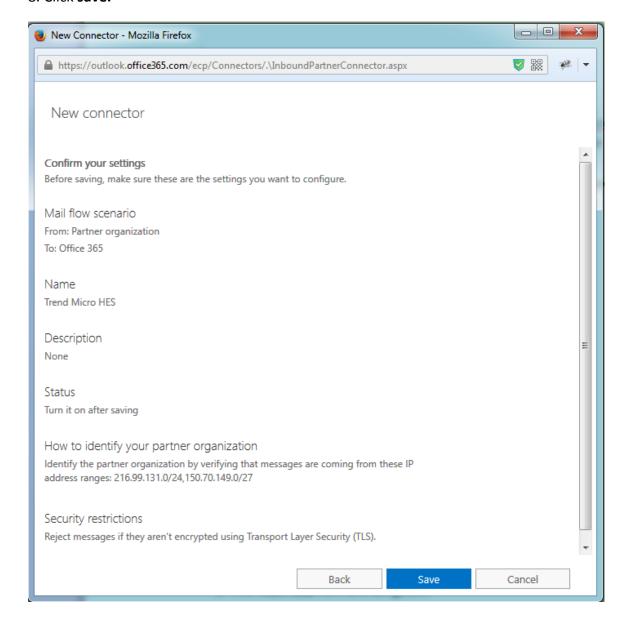


7. Choose the security restrictions you want:





8. Click save.



Point the MX record of your domain to Trend Micro HES

Important! This step should be performed last to guarantee mail flow.

The MX record or Mail Exchange record is the IP address or domain name that will be receiving your mail. This has to be the first destination of the email. In this case, it must be the public IP address of the HES server. This address must be configured through your ISP or domain registrar:

- 1. Lower the TTL of the MX record to help increase delivery reliability
- 2. Migrate MX record to new HES IP address



Add an email flow rule to bypass spam filtering

Turn off spam filtering in Exchange Online and use Hosted Email Security only

- 1. Log into your Microsoft Office 365.
- 2. Go to Exchange admin center page (select **Admin centers** | **Exchange** from title bar).
- 3. Click **mail flow** from left navigation, select **rules**.
- 4. Select "Bypass spam filtering" from pull-down menu.
- 5. In the **Rule** window, complete the required fields.
 - a. Name: Turn off spam filter in Office 365.
 - b. Apply this rule if
 - i. Select **The sender...** | IP address is in any of these ranges or exactly matches.
 - **ii.** In the **Specify IP address ranges** window, enter the same IP addresses from step 6 of INBOUND MAIL SETUP section above.
 - iii. Click the add icon for each range.
 - iv. Click ok.
 - c. Do the following: Set the spam confidence level (SCL) to... Bypass spam filtering
 - d. Except if: Do not add an exception
 - e. Audit this rule with severity level: Not specified
 - f. Choose a mode for this rule: **Enforce**
- 6. Click Save.

Add an email flow rule to lock down Exchange Online

This accepts only emails from Hosted Email Security to ensure spammers cannot bypass.

- 1. Log into your Microsoft Office 365.
- 2. Go to Exchange admin center page (select **Admin centers** | **Exchange** from title bar).



- 3. Click **mail flow** from left navigation, select **rules**.
- 4. Select "Restrict messages by sender or recipient ..." from pull-down menu.
 - a. Name: "Only accept inbound mail from HES"
 - b. Apply this rule if
 - i. Select The sender is located.
 - ii. In the select sender location window, select Outside the organization
 - iii. Click **ok**
 - c. Do the following: Delete the message without notifying anyone
 - d. Audit this rule with severity level: Not specified
 - e. Choose a mode for this rule: Enforce
- 5. In the **Rule** window, complete the required fields.
- 6. Add an exception to the allow email flow from Hosted Email Security
 - a. Click More options
 - b. Under Except if, click add exception
 - c. Select The sender... | IP address is in any of these ranges or exactly matches.
 - d. In the **Specify IP address ranges** window, enter the same IP addresses from step 6 of INBOUND FMAIL SETUP section above.
 - e. Click the add icon for each range
 - f. Click ok
- 7. Click save.

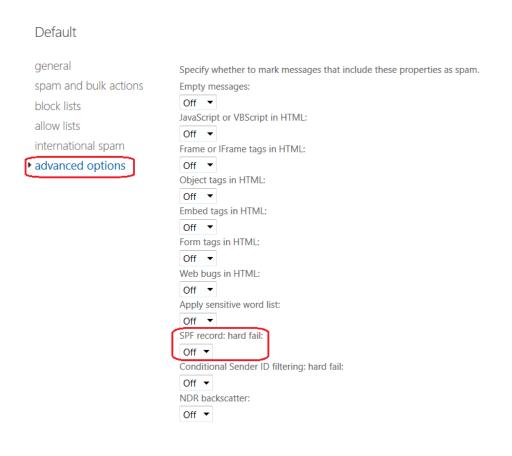
Disable SPF hard fail check

This accepts the emails from Hosted Email Security, which may fail SPF check.

- 1. Log into your Microsoft Office 365.
- 2. Go to Exchange admin center page (select **Admin centers** | **Exchange** from title bar).



- 3. Click protection from left navigation, select spam filter.
- 4. Change the advanced options of your spam policy
 - a. Click the spam policy to open it
 - b. Choose advanced options from the left navigation
 - c. Find SPF record: hard fail and choose Off for this option



Save Cancel

d. Click Save for this setting



OUTBOUND EMAIL SET UP

Configure your Hosted Email Security Settings

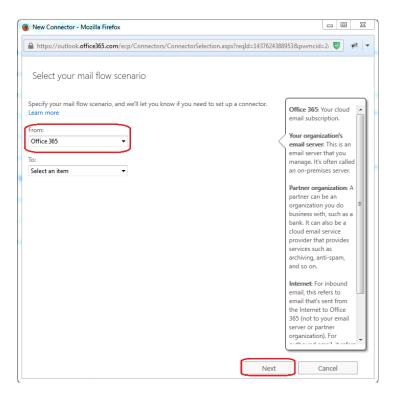
- 1. Configure the corresponding outbound settings in Trend Micro HES to route emails sent from your domain from Office 365.
 - a. Log into the HES main page
 - b. From the above column click on the following:
 - i. Domains
 - ii. Special domain name
 - c. Check the checkbox for Enable outbound protection
 - d. Select checkbox button for Office 365
 - e. Click Save

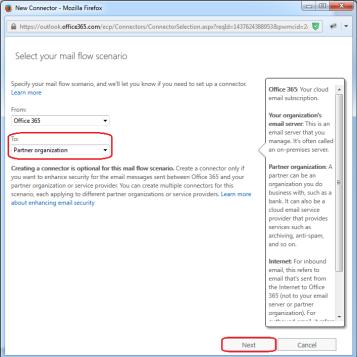
Configure Microsoft Office 365 Settings

- 1. Log into your Microsoft Office 365 administrator center account
- a. Click on ADMIN from navigation menu
- b. Then Exchange under Admin centers
- c. Then mail flow from left navigation
- d. Then connectors from top navigation menu



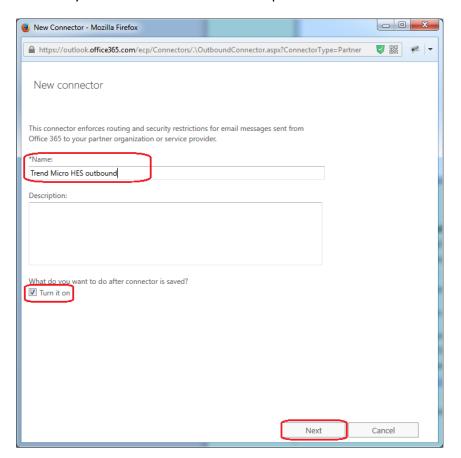
2. Add an Outbound Connector as follows:





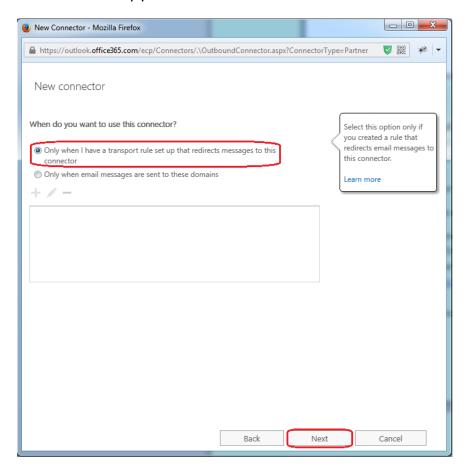


3. Name your connector and add description.



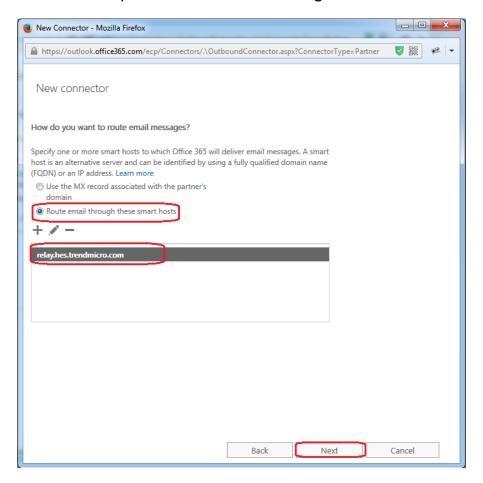


4. Choose the way you want to use this connector.





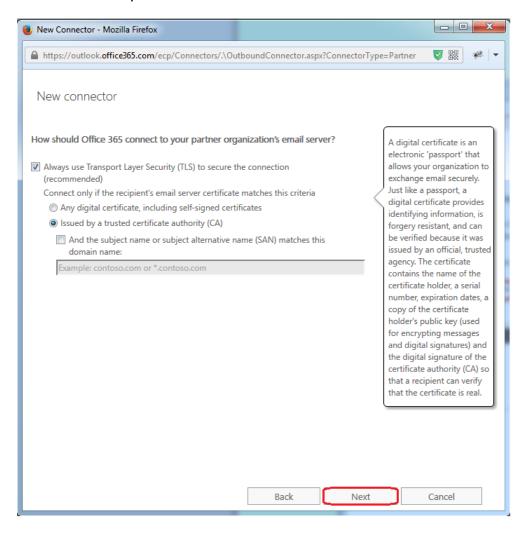
5. Add HES Relay FQDN to: Route email through these smart hosts



 Add the fully qualified domain name (FQDN) for the purpose of relay messages to this Hosted Email Security MTA. This FQDN is located in the welcome email (sent to the administrator after you have completed Hosted Email Security activation process). (http://docs.trendmicro.com/en-us/enterprise/hosted-email-security-administratorguide/about-domain-managem/configuring-a-domain.aspx)

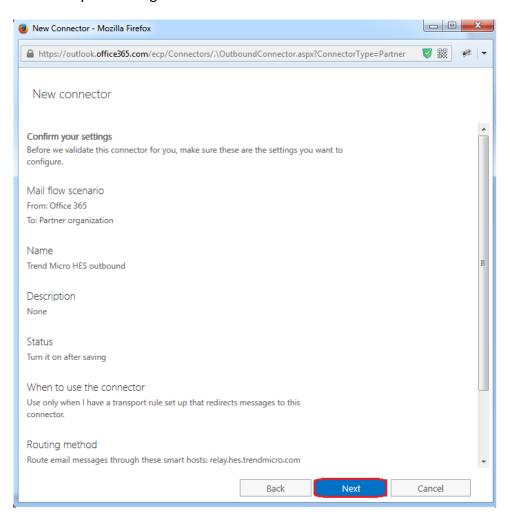


6. Choose the way to connect to HES.



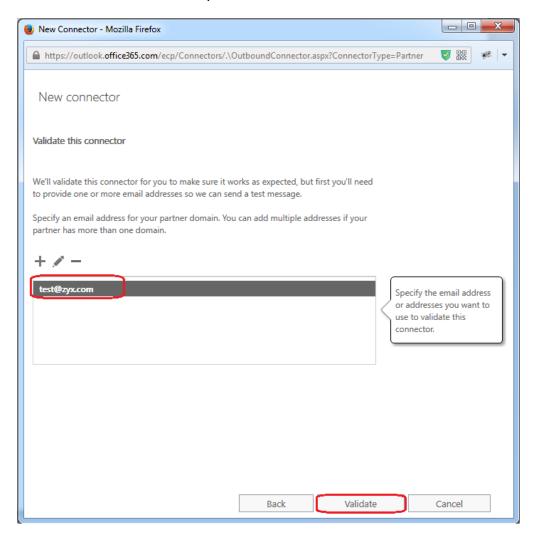


7. Review your setting.



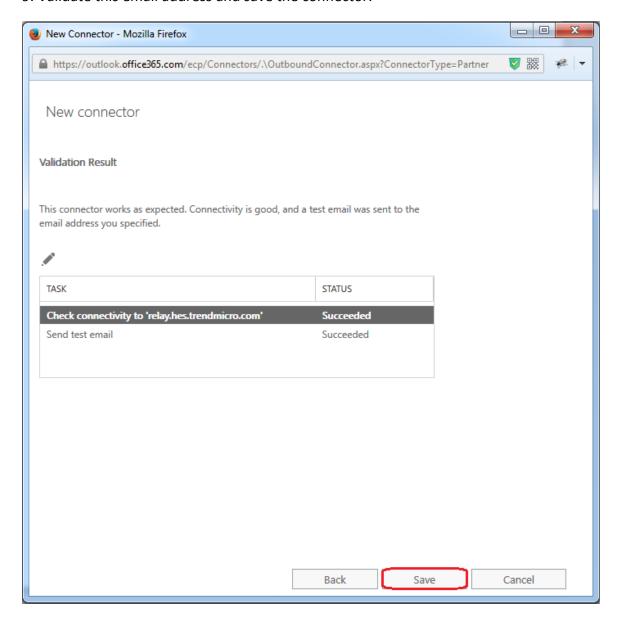


8. Add one test email to verify this connector.



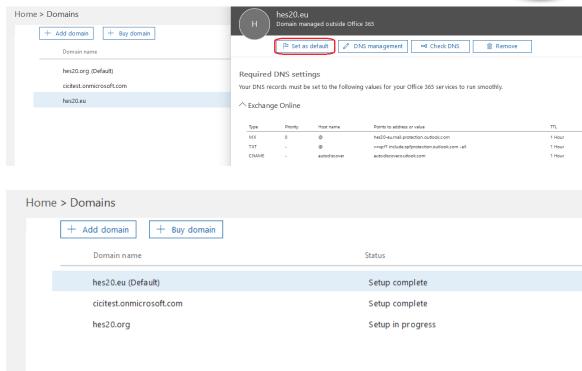


9. Validate this email address and save the connector.



Note: when you have more than one domains in your Office 365 system, the validation may not succeeded for "Send test email" part. Sometimes, it's because that the default domain is not the one you register to HES. Choose the domain which you register to HES and enable outbound filter and make it as default domain like below:





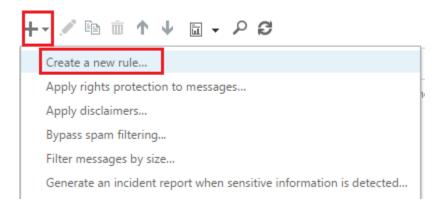
After that, try to set your collector again.

10. Click save.

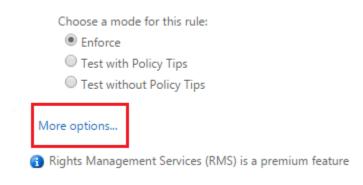


Add an email flow rule to use the HES Outbound connector

- 1. Log into your Microsoft Office 365.
- 2. Go to Exchange admin center page (select **Admin centers** | **Exchange** from title bar).
- 3. Click mail flow from left navigation, select rules.
- 4. Click "+" sign and "create a new rule"



- a. Complete the following fields:
 - i. Name: HES Outbound
 - ii. Apply this rule if:
 - 1. Select "The recipient is located", a new pop out console will show.
 - 2. Select "Outside the organization" click ok.
 - 3. Click "More Options" to show more conditions





iii. Do the following:

- 1. In the dropdown menu, mouse over to "Redirect message to" and then select "the following connector."
- 2. Select the outbound connector you created for HES.
- iv. Choose Mode:
 - 1. Select "Enforce"
- v. Click save

Congratulations! You have completed the installation process. Office 365 is now secured by Trend Micro Hosted Email Security.

Trend Micro Incorporated is a pioneer in secure content and threat management. Founded in 1988, Trend Micro provides individuals and organizations of all sizes with award-winning security software, hardware and services. With headquarters in Tokyo and operations in more than 30 countries, Trend Micro solutions are sold through corporate and value-added resellers and service providers worldwide. For additional information and evaluation copies of Trend Micro products and services, visit our Web site at www.trendmicro.com.

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