

# Quick RSPAMD Mail Gateway Intro

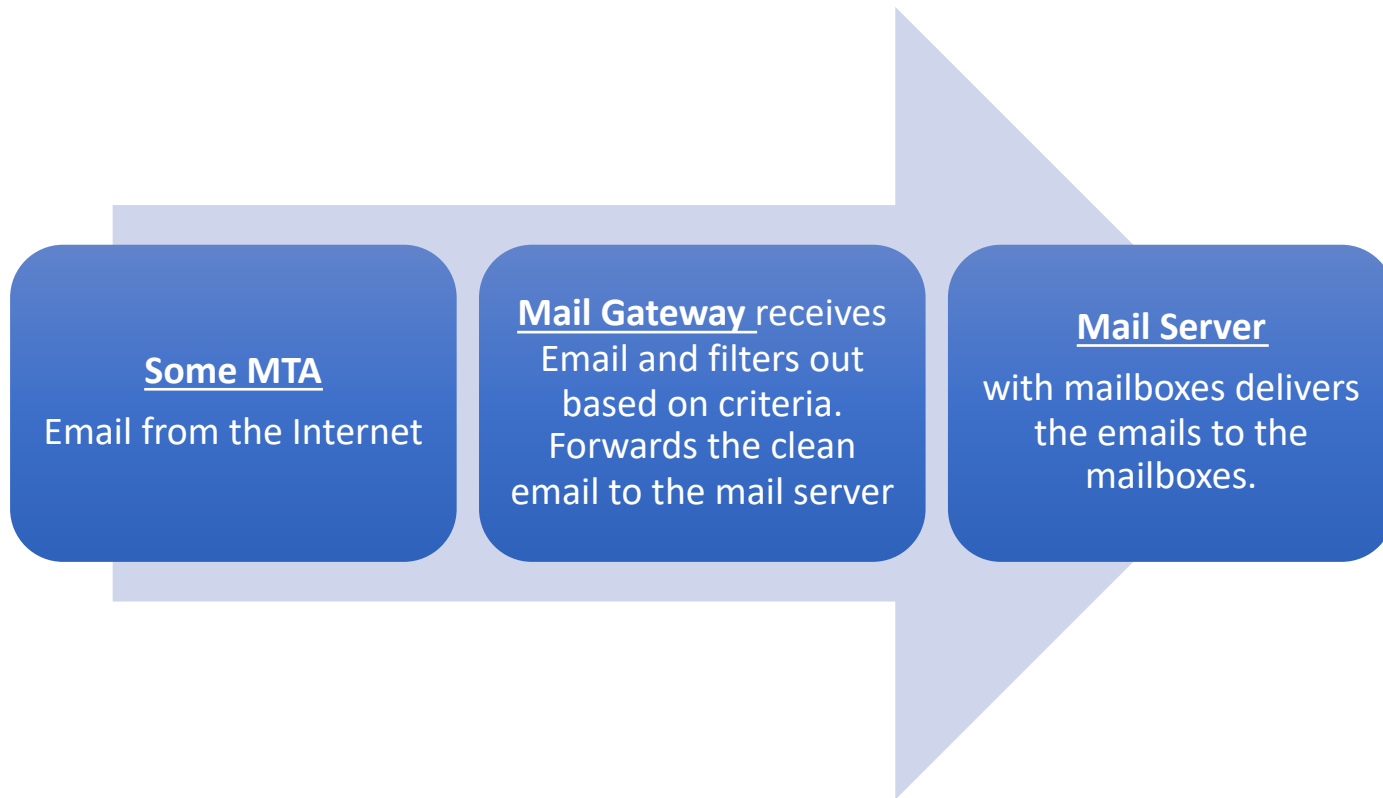
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# What is a Mail Gateway?

- A software/service/appliance that is able to receive and filter emails before they reach the email boxes
- Typically, a mail gateway will not contain mail box accounts and will only receive emails, filter them based on configured parameters, and then forward them to the mail server that contains the mailboxes
- The purpose is to remove dangerous or harmful content (like spam and viruses) on email before they reach user boxes
- A mail filter can process incoming emails and or outgoing emails

# How it flows



# Advantages

- Remove harmful email before it reaches mail boxes
  - Phishing emails, malware, viruses etc
- Remove the work of filtering email from the server that is handling email boxes
- Highly configurable and can block emails based on a number of criteria including content that is in the body of the email
- If hosted outside the network, can reduce load on the network connection/link (also known as far side scrubbing)

# Disadvantages

- Mistakes in configuration may mean mail is not delivered. They are highly customisable with hundreds of options and parameters which you must be careful with
- Increase the number of email servers to be managed

# Common tools used in Mail Gateways

- Spamassassin – No. 1 Open Source anti-spam platform giving system administrators a filter to classify email and block spam (unsolicited bulk email)
- ClamAV – Virus scanning software. Can be used for email scanning and web scanning
- Amavisd – interface between the MTA and the above tools. A common mail filtering installation with *Amavis* consists of an MTA, ClamAV and Spamassassin
- MailScanner - open source email security system design for Linux-based email gateways
- *Rspamd* – Powerful anti-spam software

# Mail Gateway Appliances

These are solutions that can be installed on servers and provide Mail Gateway services

- Software:
  - Anti Spam SMTP Proxy - [http://en.wikipedia.org/wiki/Anti-Spam SMTP Proxy](http://en.wikipedia.org/wiki/Anti-Spam_SMTP_Proxy)
  - Mail Border - <http://www.mailborder.com/>
  - ScrolloutF1 - <http://www.scrolloutf1.com/>
  - Xeams - <http://www.xeams.com/>
- Hardware (Blackbox):
  - Barracuda - <https://www.barracuda.com/products/emailsecuritygateway>

# What is Rspamd?

- It's an advanced spam filtering system that allows evaluation of messages by a number of rules including regular expressions, statistical analysis and custom services such as URL black lists. Each message is analysed by Rspamd and given a spam score.
- According to this spam score and the user's settings Rspamd recommends an action for the MTA to apply to the message: for example, to pass, to reject or to add a header.
- Rspamd is designed to process hundreds of messages per second simultaneously and has a number of features available.



# What Can RSPAMD do?

- <https://rspamd.com/features.html>
- Check emails for DKIM, DMARC, SPF, IP Address reputation, Greylisting, Rate limiting and much more
- Has a web interface for easy reports gathering
- It works pretty well with default configuration but needs a lot of reading and testing to unlock its full potential

# What we shall do in the lab

