

# SNA Lab - SMTP

*teams of two - one report per team*

In a previous lab, you did configure *outgoing* emails from a server, to receive cron job reports. Now it's time to setup a minimal and basic Mail eXchanger (MX) to receive and host email messages yourself.

## Task 1 - Basic MX

- Make sure you've got an SMTP daemon available (usually Postfix or Exim)
- Configure the daemon so it can host messages addressed to @IP—ADDRESS or <yourhost>.os3.su.
  - If you don't have a DNS record for your IP address, you can use @IP—ADDRESS and from another machine on the network to validate your setup.
  - If you do have a public DNS record, it's even better, but be careful with your tcp/25 open to the public (avoid being an Open Relay<sup>1</sup> for spammers). It is NOT mandatory to define an MX record<sup>2</sup>.
- Configure an alias for postmaster@ to redirect messages to your user account
- Send an email from another node on the same network, being internal or public
- Validate that you receive emails addressed to postmaster@
  - showing the mail logs
  - where are the messages stored on the system?
  - cat the content (including headers...)
- Bonus: further define the hosts you willing to relay, and validate it from another node on the network

## Task 2 - Basic IMAP

- Make sure you've got an IMAP daemon available (usually Dovecot)
- Configure it to serve the hosted messages on the server
- Eventually enable SSL/TLS
- Access it with an IMAP client

## Bonus - Transport Encryption

- Enable STARTTLS on your tcp/25
- Eventually force the transport to be encrypted only (refuse non encrypted transport)
- Show how you validate this/those feature(s)

## Bonus - Telnet

- Talk SMTP yourself (you need to use additional brackets if using IP address e.g. <postmaster@[x.x.x.x]>)
- Eventually talk SMTP throughout a STARTTLS channel (apropos s\_client )
- Talk IMAP yourself
- Eventually talk IMAP throughout an SSL/TLS channel

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<sup>1</sup>Open mail relay [https://en.wikipedia.org/wiki/Open\\_mail\\_relay](https://en.wikipedia.org/wiki/Open_mail_relay)

<sup>2</sup>MX record [https://en.wikipedia.org/wiki/MX\\_record](https://en.wikipedia.org/wiki/MX_record)