

Layer-4 SMTP Traffic to a Mail Server

Goal: Create un-authenticated, un-encrypted SMTP traffic to an email server.

This is a basic email traffic testing scenario. We start with an easy-to-construct scenario for a mail server (no user authentication or TLS configured). This testing scenario works when

1. the mail server accepts emails from a local network (E.G. 192.168.0.0/16)
2. or the email server allows incoming mail to its own domain.

The following scenario was tested against two postfix servers:

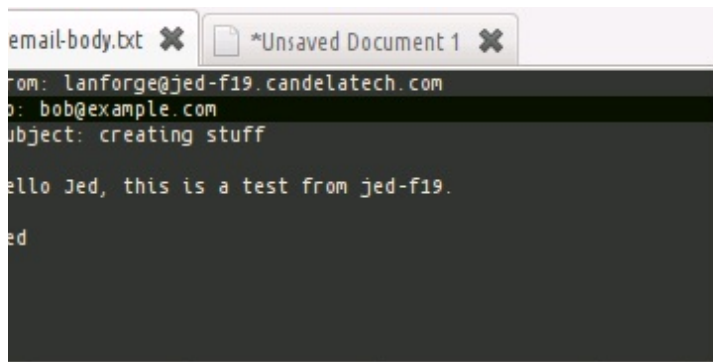
1. LANforge sending to an email relay in an office firewall to a public email server. The public server permits the IP of the office firewall and all email addressed to **example.com**.
2. LANforge sending emails directly to the **example.com** mail server, skipping the office gateway.

Please remember that you cannot actually send things to **example.com**, see [RFC 2606, Section 3](#). You will want to assemble your own mail domain records and email server as necessary. If you are using Postfix, you can [start with these guides](#).

CAVEATS: This cookbook does not cover authenticated SMTP connections (E.G.: [Postfix and SASL](#)) or SSL/TLS certificates (E.G.: [Postfix and TLS](#)).



1. Create a text file `/home/lanforge/email-body.txt`. We will send it as an email. We will use a minimum of [RFC 822](#) specified fields: **To**, **From** and **Subject**



- In the LANforge *Layer-4* tab, click **Create** and enter fields we will use to find the email body and where we will send it.

CREATE/MODIFY L4ENDPOINT

Name: email1 Rpt Timer: default (5 s) Test Manager: default_tm

Index: 1 Resource: 1 (shuttle-f19x64) Port: 0 (eth1)(MGT) IP Addr: AUTO

Queue Name: 4 URLs per 10m: 100 Max Speed: New Modem (56 Kbps)

Queue Size: 3 (3 sec) URL Timeout: 10000 DNS Cache Timeout: 60

Block Size: Default (512 B)

Proxy Port: 0 Proxy Server:

Proxy Auth:

Proxy Auth Types: Basic Digest NTLM

Compression: Gzip Deflate

Auth Types: Basic Digest GSS-Negotiate NTLM

Cert: ca-bundle.crt

SMTP-From: lanforge@jed-f19.candelatech.com

SMTP-RCPT-TO: bob@example.com

UL/DL: Upload IPv4 IPv6

SMTP-URL: smtp://outbound.candelatech.local

Source/Dest File: email-body.txt

Get-URLs-From-File Authenticate Server Use-Proxy Allow-Reuse Allow-Cache Enable 4XX Show Headers

Bind DNS FTP PASV FTP EPSV

Buttons: Apply OK Batch-Create Cancel

- Set the *Name* to **email1**
- Set *SMTP-FROM* to `lanforge@jed-f19.candelatech.com`
- The *RCPT-TO* address to `bob@example.com`
- For *UL/DL*, choose **Upload**
- Our mail relay is at `outbound.candelatech.local`. Enter the *URL* `smtp://outbound.candelatech.local`

F. Set *Source/Dest* to `email-body.txt`. Double check that files actually exists at `/home/lanforge/email-body.txt`

For more information see [GUI User Guide: Layer-4](#)

3. To monitor your mail relay, open up a terminal, ssh to the relay and tail the mail-log. You will probably use the command `sudo tail -f /var/log/maillog`
4. In the *Layer-4* tab, select connection **email1** and click **Start**.

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