

## 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**

```
*email-body.txt x  *Unsaved Document 1 x
1 From: lanforge@jed-f19.candelatech.com
2 To: bob@example.com
3 Subject: creating stuff
4
5 Hello Jed, this is a test from jed-f19.
6
7 Jed
8
```

2. 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.

- A. Set the *Name* to **email1**
- B. Set *SMTP-FROM* to `lanforge@jed-f19.candelatech.com`
- C. The *RCPT-TO* address to `bob@example.com`
- D. For *UL/DL*, choose **Upload**
- E. 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**.