

IMAP URLAUTH

Authorization in URLs
Forward email without download

Chris Newman and Mark Crispin

Overview

- Changes in this Revision
- Upcoming Changes
- Why URLAUTH is important
- Examples
- Security Concerns

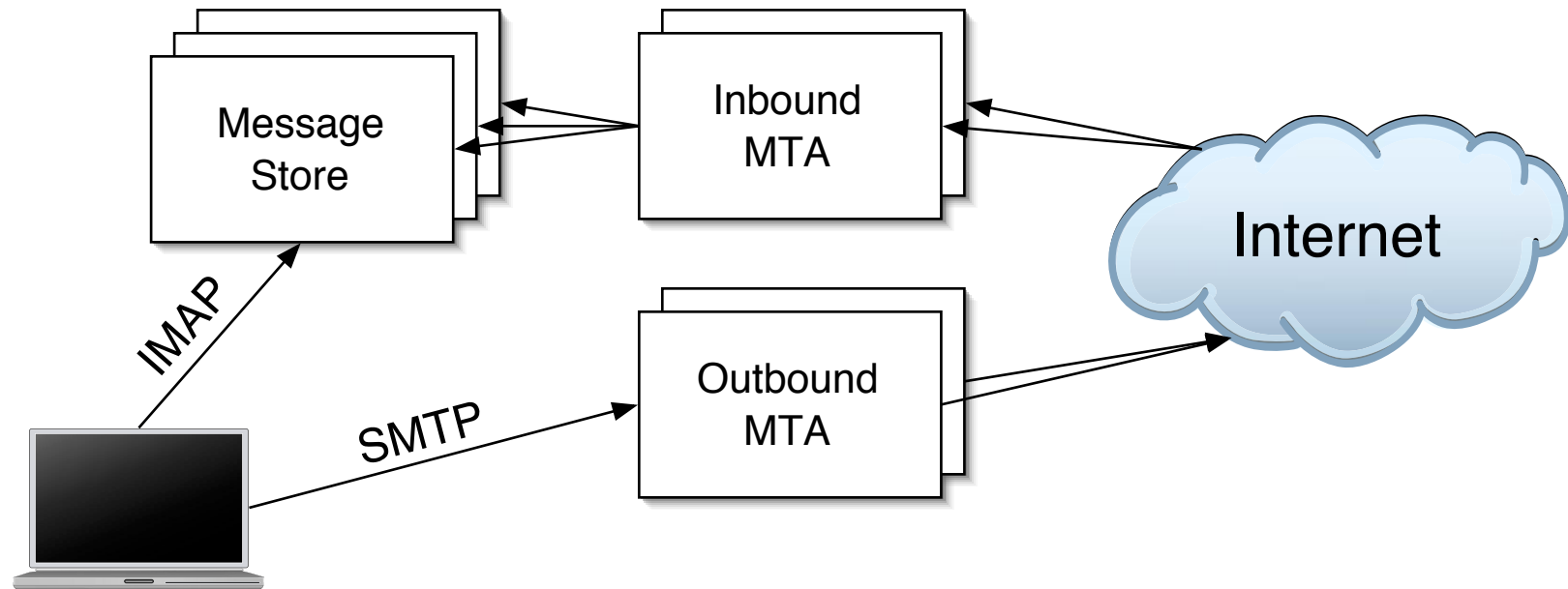
Changes in URLAUTH

- Added authid= and authrole=
- Hex encoding of HMAC-MD5
- Refine security considerations

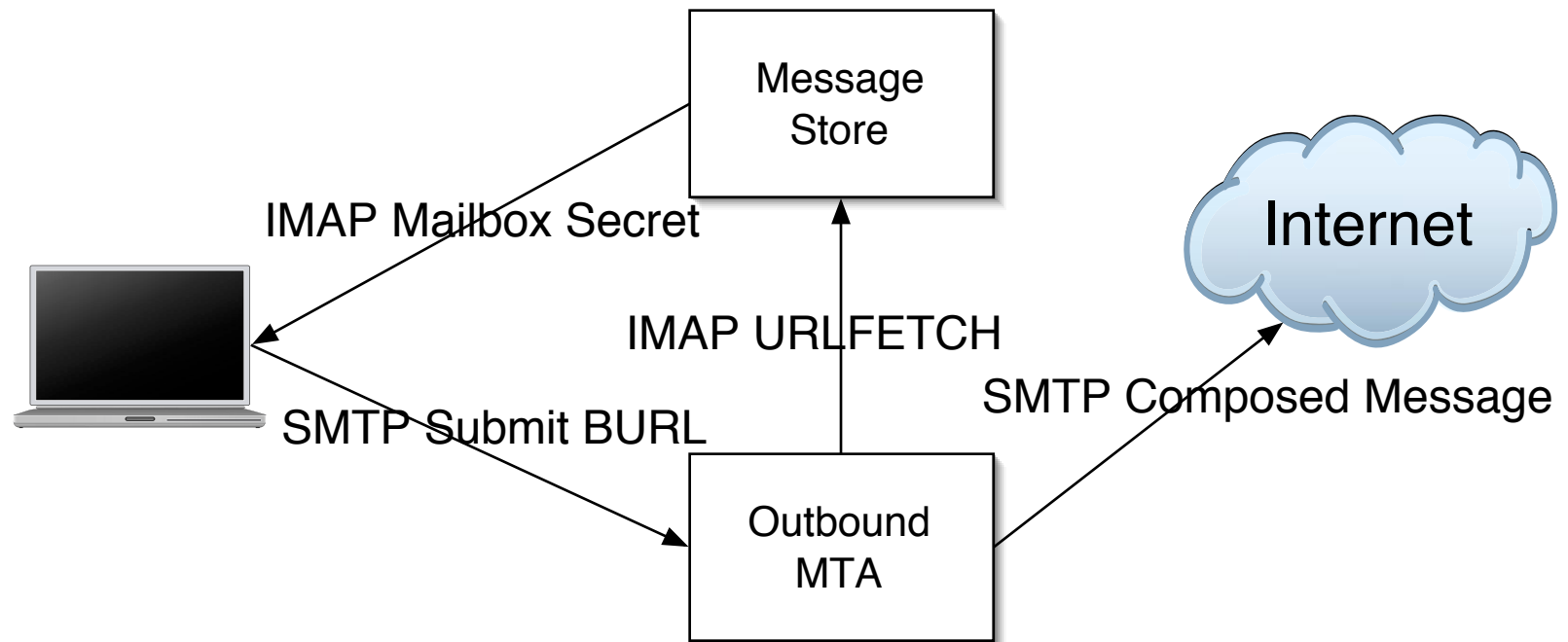
Upcoming Changes to URLAUTH

- Need to do initial CHANGEKEY to get a secret on a mailbox
- Make anonymous access explicit in URL. (authorization without authentication)
- Add a hash function parameter so it can be changed to other mechanisms. (e.g., URLAUTH=SHA1:...)
- ? default config for authrole= behavior

Scalable Email Server Deployment (simplified)



URLAUTH forward without download



IMAP URLAUTH

- `imap://joe@example.com/INBOX;uid=20;
section=1.2;authrole=submit;
urlauth=91354a473744909de610943775f92
038`
- `imap://joe@example.com/INBOX;uid=20;
section=1.2;authid=fred;
urlauth=91354a473744909de610943775f92
038`

Security Concerns

- IMAP Mailbox key should be TLS-protected.
- Can protect URL in transit with TLS.
- Should not store URL without protection.
 - Beware of browser history and cache
- Require out-of-band authentication whenever possible.

References

- lemonade WG
- draft-crispin-imap-urlauth-04.txt
- draft-newman-lemonade-compose-00.txt
(Submit profile for composing with BURL)
- draft-ietf-lemonade-submit-01.txt
(compares push vs. pull models)