Postfix and Dovecot Configuration

Installation

1. `hostnamectl set-hostname mail.<domain>.<tld>`
2. `yum -y install postfix dovecot`

Postfix Configuration

1. Append the following to `/etc/postfix/main.cf`:
   1. `myhostname = mail.<domain>.<tld>`
   2. `mydomain = <domain>.<tld>`
   3. `myorigin = $mydomain`
   4. `home_mailbox = mail/`
   5. `mynetworks = 127.0.0.0/8 <domain IP>`
   6. `inet_interfaces = all`
   7. `mydestination = $myhostname, localhost.$mydomain, localhost, $mydomain`
   8. `smtpd_sasl_type = dovecot`
   9. `smtpd_sasl_path = private/auth`
   10. `smtpd_sasl_local_domain =`
   11. `smtpd_sasl_security_options = noanonymous`
   12. `broken_sasl_auth_clients = yes`
   13. `smtpd_sasl_auth_enable = yes`
   14. `smtpd_recipient_restrictions = permit_sasl_authenticated,permit_mynetworks, reject_unauth_destination`
   15. `smtp_tls_security_level = may`
   16. `smtpd_tls_security_level = may`
   17. `smtp_tls_note_starttls_offer = yes`
   18. `smtpd_tls_loglevel = 1`
   19. `smtpd_tls_key_file = /etc/letsencrypt/live/<domain>.<tld>/privkey.pem`
   20. `smtpd_tls_cert_file = /etc/letsencrypt/live/<domain>.<tld>/fullchain.pem`
   21. `smtpd_tls_received_header = yes`
   22. `smtpd_tls_session_cache_timeout = 3600s`
   23. `smtpd_use_tls=yes`

24. `tls_random_source = dev: /dev/urandom`
25. `virtual_alias_domains = <domain>. <tld>`
26. `virtual_alias_maps = hash: /etc/postfix/virtual`

2. Find and uncomment the following lines in `/etc/postfix/main. cf`:
   1. `#inet_interfaces = localhost`
   2. `#mydestination = $myhostname, localhost. $mydomain, localhost`
3. Append the following lines to `/etc/postfix/master. cf`:
   1. `submission inet n - n - - smtpd`
   2. `-o syslog_name=postfix/submission`
   3. `-o smtpd_sasl_auth_enable=yes`
   4. `-o smtpd_recipient_restrictions=permit_sasl_authenticated,reject_unauth_destination`
   5. `-o milter_macro_daemon_name=ORIGINATING`
   6. `smtps inet n - n - - smtpd`
   7. `-o syslog_name=postfix/smtps`
   8. `-o smtpd_sasl_auth_enable=yes`
   9. `-o smtpd_recipient_restrictions=permit_sasl_authenticated,reject_unauth_destination`
   10. `-o milter_macro_daemon_name=ORIGINATING`
4. Make sure that the following is present in `/etc/postfix/main. cf`:
   1. `alias_maps = hash: /etc/aliases`
5. Edit and add the desired email address to `/etc/postfix/virtual` such as the following:
   1. `info@<domain>. <tld> admin`
   2. `webmaster@<domain>. <tld> admin`
6. Create a map database: `postmap /etc/postfix/virtual`

Dovecot Configuration

1. Find and modify the following lines in `/etc/dovecot/conf. d/10-master. conf`:
   1. `# Postfix smtp-auth`
   2. `unix_listener /var/spool/postfix/private/auth {`
   3. `mode = 0660`
   4. `user = postfix`
   5. `group = postfix`
   6. `}`
2. Find and modify the following lines in `/etc/dovecot/conf. d/10-auth. conf`:
   1. `auth_mechanisms = plain login`
3. Find and modify the following lines in `/etc/dovecot/conf. d/10-mail. conf`:
   1. `mail_location = maildir: ~/mail`
4. Find and modify the following lines in `/etc/dovecot/conf. d/20-pop3. conf`:
   1. `pop3_uidl_format = %08Xu%08Xv`
5. Find and modify the following lines in `/etc/dovecot/conf. d/10-ssl. conf`:
   1. `ssl_cert = </etc/letsencrypt/live/<domain>. <tld>/fullchain. pem`
   2. `ssl_key = </etc/letsencrypt/live/<domain>. <tld>/privkey. pem`

Restart and Enable Services

1. `systemctl restart postfix`
2. `systemctl enable postfix`
3. `systemctl restart dovecot`
4. `systemctl enable dovecot`

Open Firewall Ports

1. `firewall-cmd --permanent --add-service=smtp`
2. `firewall-cmd --permanent --add-port=587/tcp`
3. `firewall-cmd --permanent --add-port=465/tcp`
4. `firewall-cmd --permanent --add-port=110/tcp`
5. `firewall-cmd --permanent --add-service=pop3s`
6. `firewall-cmd --permanent --add-port=143/tcp`
7. `firewall-cmd --permanent --add-service=imaps`
8. `firewall-cmd --reload`

Configure DNS

1. Add an `A` record for the mail server:
   1. `name = mail.<domain>.<tld>` `
   2. `IP = <mail server IP>`
2. Add an `MX` record:
   1. `Hostname = mail.<domain>.<tld>`
   2. `Priority = 5`
3. Add the following `TXT` records:
   1. `Name = @`
   2. `Text = "v=spf1 ip4:<domain IP> ~all"`
   3. `Name = _dmarc.<domain>.<tld>`
   5. `Text = v=DMARC1; p=none`
4. Add `PTR` record for `<domain>.<tld>`
5. Finally, test your email at `https://www.mail-tester.com/`

Notes on Using Let's Encrypt for SSL

Make sure that `Encryption` is set to `STARTTLS` when configuring mail clients

References

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