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>`
    4. `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

1. Krizna Article
2. Ubuntu Postfix Alias Configuration

Revision #2
Created 5 April 2017 19:42:22 by Tingwai
Updated 17 April 2017 19:55:50 by Tingwai