Copiar la estructura de sota, tantes vegades com sigui necessari

Realitza i entrega una captura de l'arxiu /etc/postfix/main.cf mostrant els canvis realitzats

```
# fresh installs.
compatibility_level = 3.6




# TLS parameters
smtpd_tls_cert_file=/etc/ssl/certs/ssl-cert-snakeoil.pem
smtpd_tls_key_file=/etc/ssl/private/ssl-cert-snakeoil.key
smtpd_tls_security_level=may

smtp_tls_CApath=/etc/ssl/certs
smtp_tls_security_level=may
smtp_tls_session_cache_database = btree:${data_directory}/smtp_scache


smtpd_relay_restrictions = permit_mynetworks permit_sasl_authenticated defer_unauth_destination
myhostname = nemesi
alias_maps = hash:/etc/aliases
alias_database = hash:/etc/aliases
myorigin = /etc/mailname
mydestination = nemesi, mail.m7lab.lan, nemesi, localhost.localdomain, localhost
relayhost =
mynetworks = 127.0.0.0/8 [::ffff:127.0.0.0]/104 [::1]/128 172.30.1.0/24
mailbox_size_limit = 0
recipient_delimiter = +
inet_interfaces = all
inet_protocols = all
home_mailbox = Maildir/
smtpd_sasl_type = dovecot
smtpd_sasl_path = private/auth
smtpd_sasl_local_domain =
smtpd_sasl_security_options = anonymous
broken_sasl_auth_clients = yes
smtpd_sasl_auth_enable = yes
smtpd_recipient_restrictions = permit_sasl_authenticated,permit_auth_destination,permit_mynetworks,r
eject
dj. de gen. 09 12:30:18 romerox@nemesi:~$
```

Realitza i entrega una captura del fitxer /etc/dovecot/conf.d/10-master.conf on es vegin els canvis realitzats.

```
  # To give the caller full permissions to lookup all users, set the mode to
  # something else than 0666 and Dovecot lets the kernel enforce the
  # permissions (e.g. 0777 allows everyone full permissions).
  unix_listener auth-userdb {
    #mode = 0666
    #user =
    #group =
  }

  # Postfix smtp-auth
  unix_listener /var/spool/postfix/private/auth {
    mode = 0666
    user = postfix
    group = postfix
}

  # Auth process is run as this user.
  #user = $default_internal_user
}

service auth-worker {
  # Auth worker process is run as root by default, so that it can access
  # /etc/shadow. If this isn't necessary, the user should be changed to
  # $default_internal_user.
  #user = root
}

service dict {
  # If dict proxy is used, mail processes should have access to its socket.
  # For example: mode=0660, group=vmail and global mail_access_groups=vmail
  unix_listener dict {
    #mode = 0600
    #user =
    #group =
  }
}
dj. de gen. 09 12:40:35 romerox@nemesi:/etc/dovecot/conf.d$ _
```

Realitza i entrega una captura de l'arxiu /etc/postfix/main.cf mostrant els canvis realitzats

```
# TLS parameters
smtpd_tls_cert_file = /etc/ssl/certs/mailcert.pem
smtpd_tls_key_file = /etc/ssl/private/mail.key
smtpd_tls_security_level = may

smtp_tls_CApath=/etc/ssl/certs
smtp_tls_security_level = may
smtp_tls_session_cache_database = btree:${data_directory}/smtp_scache


smtpd_relay_restrictions = permit_mynetworks permit_sasl_authenticated defer_unauth_destination
myhostname = mail.m7lab.lan
alias_maps = hash:/etc/aliases
alias_database = hash:/etc/aliases
myorigin = /etc/mailname
mydestination = nemesi, mail.m7lab.lan, nemesi, localhost.localdomain, localhost
relayhost =
mynetworks = 127.0.0.0/8 [::ffff:127.0.0.0]/104 [::1]/128 172.30.1.0/24
mailbox_size_limit = 0
recipient_delimiter = +
inet_interfaces = all
inet_protocols = all
home_mailbox = Maildir/
smtpd_sasl_type = dovecot
smtpd_sasl_path = private/auth
smtpd_sasl_local_domain =
smtpd_sasl_security_options = anonymous
broken_sasl_auth_clients = yes
smtpd_sasl_auth_enable = yes
smtpd_recipient_restrictions = permit_sasl_authenticated,permit_auth_destination,permit_mynetworks,r
eject
smtp_tls_note_-starttls_offer = yes
smtp_tls_key_file = /etc/ssl/private/mail.key
smtpd_tls_loglevel = 1
smtpd_tls_received_header = yes
smtpd_use_tld = yes
dj. de gen. 09 12:54:14 romerox@nemesi:/$
```

Realitza i entrega una captura del fitxer /etc/postfix/master.cf

```
  GNU nano 6.2                        /etc/postfix/master.cf
smtp      inet  n       -       y       -       -       smtpd
#smtp      inet  n       -       y       -       1       postscreen
#smtpd     pass  -       -       y       -       -       smtpd
#dnsblog   unix  -       -       y       -       0       dnsblog
#tlsproxy  unix  -       -       y       -       0       tlsproxy
# Choose one: enable submission for loopback clients only, or for any client.
#127.0.0.1:submission inet n -    y       -       -       smtpd
submission inet n       -       y       -       -       smtpd
  -o syslog_name=postfix/submission
  -o smtpd_tls_wrappermode=no
  -o smtpd_tls_security_level=encrypt
  -o smtpd_sasl_auth_enable=yes
#  -o smtpd_tls_auth_only=yes
#  -o smtpd_reject_unlisted_recipient=no
#  -o smtpd_client_restrictions=$mua_client_restrictions
#  -o smtpd_helo_restrictions=$mua_helo_restrictions
#  -o smtpd_sender_restrictions=$mua_sender_restrictions
#  -o smtpd_recipient_restrictions=
  -o smtpd_relay_restrictions=permit_sasl_authenticated,reject
  -o smtpd_sasl_type=dovecot
  -osmtpd_sasl_path=private/auth
  -o milter_macro_daemon_name=ORIGINATING
# Choose one: enable smtps for loopback clients only, or for any client.
#127.0.0.1:smtps inet n  -       y       -       -       smtpd
#smtps     inet  n       -       y       -       -       smtpd
#  -o syslog_name=postfix/smtps
#  -o smtpd_sasl_auth_enable=yes
#  -o smtpd_reject_unlisted_recipient=no
#  -o smtpd_client_restrictions=$mua_client_restrictions
#  -o smtpd_helo_restrictions=$mua_helo_restrictions
#  -o smtpd_sender_restrictions=$mua_sender_restrictions
#  -o smtpd_recipient_restrictions=
#  -o smtpd_relay_restrictions=permit_sasl_authenticated,reject


dj. de gen. 09 13:02:48 romerox@nemesi:/$
```

Realitza i entrega una captura de la conversa anterior, on es vegi (entre altres coses) els codis anteriors

```
dt. de gen. 14 08:44:11 romerox@nemesi:~$ telnet mail.m7lab.lan
Trying 172.30.1.6...
telnet: Unable to connect to remote host: Connection refused
dt. de gen. 14 08:46:12 romerox@nemesi:~$ telnet mail.m7lab.lan 25
Trying 172.30.1.6...
Connected to mail.m7lab.lan.
Escape character is '^]'.
220 mail.m7lab.lan ESMTP Postfix (Ubuntu)
ehlo mail.m7lab.lan
250-mail.m7lab.lan
250-PIPELINING
250-SIZE 10240000
250-VRFY
250-ETRN
250-STARTTLS
250-AUTH PLAIN LOGIN
250-AUTH=PLAIN LOGIN
250-ENHANCEDSTATUSCODES
250-8BITMIME
250-DSN
250-SMTPUTF8
250 CHUNKING
```

Realitza i entrega una captura del resultat de la comanda doveadm

```
dt. de gen. 14 08:58:42 romerox@nemesi:~$ sudo doveadm auth test testmail testmail
passdb: testmail auth succeeded
extra fields:
  user=testmail

dt. de gen. 14 08:58:49 romerox@nemesi:~$ _
```

Realitza i entrega una captura on es vegi que Postfix té habilitats els ports 25 i 587

```
dt. de gen. 14 08:58:49 romerox@nemesi:~$ sudo apt install net-tools
S'està llegint la llista de paquets… Fet
S'està construint l'arbre de dependències… Fet
S'està llegint la informació de l'estat… Fet
net-tools ja està en la versió més recent (1.60+git20181103.0eebece-1ubuntu5).
0 actualitzats, 0 nous a instal·lar, 0 a suprimir i 58 no actualitzats.
dt. de gen. 14 09:00:03 romerox@nemesi:~$ sudo netstat -tlnp
Active Internet connections (only servers)
Proto Recv-Q Send-Q Local Address           Foreign Address         State       PID/Program name
tcp        0      0 0.0.0.0:25              0.0.0.0:*               LISTEN      1463/master
tcp        0      0 0.0.0.0:22              0.0.0.0:*               LISTEN      708/sshd: /usr/sbin
tcp        0      0 127.0.0.53:53           0.0.0.0:*               LISTEN      632/systemd-resolve
tcp        0      0 0.0.0.0:587             0.0.0.0:*               LISTEN      1463/master
tcp6       0      0 :::25                   :::*                    LISTEN      1463/master
tcp6       0      0 :::22                   :::*                    LISTEN      708/sshd: /usr/sbin
tcp6       0      0 :::587                  :::*                    LISTEN      1463/master
dt. de gen. 14 09:00:11 romerox@nemesi:~$ _
```