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TP3 Messagerie : serveur Postfix , protocole SMTP

1)

Voici le tableau des configurations des deux machines :

	Adresse IP	Nom machine	Nom Utilisateur
PC1	192.168.43.1	mzoughi	amine
PC2	192.168.43.2	wang	peng

Configuration de la machine 1 :

```
Fichier Édition Affichage Terminal Onglets Aide
q20305: root /home/mzmz# ifconfig
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.43.5 netmask 255.255.255.0 broadcast 192.168.43.255
    inet6 fe80::7a45:c4ff:fe40:9f9c prefixlen 64 scopeid 0x20<link>
    ether 78:45:c4:40:9f:9c txqueulen 1000 (Ethernet)
           RX packets 54103 bytes 59149934 (56.4 MiB)
           RX errors 0 dropped 0 overruns 0 frame 0
TX packets 21636 bytes 5171313 (4.9 MiB)
           TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
eth1: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
           inet 192.168.43.1 netmask 255.255.255.0 broadcast 192.168.43.255
inet6 fe80::20a:f7ff:fe16:be40 prefixlen 64 scopeid 0x20<link>
ether 00:0a:f7:16:be:40 txqueuelen 1000 (Ethernet)
           RX packets 109 bytes 26915 (26.2 KiB)
           RX errors 0 dropped 0 overruns 0 frame 0
           TX packets 97 bytes 26043 (25.4 KiB)
           TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
           device interrupt 17
lo: flags=73<UP,L00PBACK,RUNNING> mtu 65536
           inet 127.0.0.1 netmask 255.0.0.0
           inet6 ::1 prefixlen 128 scopeid 0x10<host>
loop txqueuelen 1 (Boucle locale)
           RX packets 16 bytes 876 (876.0 B)
           RX errors 0 dropped 0 overruns 0
           TX packets 16 bytes 876 (876.0 B)
           TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

Voici la configuration du fichier /etc/hosts de la machine 1 :

```
GNU nano 2.7.4

127.0.0.1 localhost
192.168.43.1 mzoughi.iutv.top amine
192.168.43.2 wang.iutv.top peng
# The following lines are desirable for IPv6 capable hosts
::1 localhost ip6-localhost ip6-loopback
ff02::1 ip6-allnodes
ff02::2 ip6-allrouters
```

On peut ping de la machine 1(mzoughi) à la machine 2(wang) :

```
Q20305: root /home/mzmz# ping wang
PING wang.iutv.top.fr (192.168.43.2) 56(84) bytes of data.

64 bytes from wang.iutv.top.fr (192.168.43.2): icmp_seq=1 ttl=64 time=0.176 ms

64 bytes from wang.iutv.top.fr (192.168.43.2): icmp_seq=2 ttl=64 time=0.185 ms

64 bytes from wang.iutv.top.fr (192.168.43.2): icmp_seq=3 ttl=64 time=0.175 ms

64 bytes from wang.iutv.top.fr (192.168.43.2): icmp_seq=4 ttl=64 time=0.158 ms

^C
--- wang.iutv.top.fr ping statistics ---

4 packets transmitted, 4 received, 0% packet loss, time 3052ms

rtt min/avg/max/mdev = 0.158/0.173/0.185/0.016 ms

q20305: root /home/mzmz# ping 192.168.43.2

PING 192.168.43.2 (192.168.43.2) 56(84) bytes of data.

64 bytes from 192.168.43.2: icmp_seq=1 ttl=64 time=0.158 ms

64 bytes from 192.168.43.2: icmp_seq=2 ttl=64 time=0.163 ms

64 bytes from 192.168.43.2: icmp_seq=3 ttl=64 time=0.174 ms

64 bytes from 192.168.43.2: icmp_seq=4 ttl=64 time=0.174 ms

^C
--- 192.168.43.2 ping statistics ---

4 packets transmitted, 4 received, 0% packet loss, time 3053ms

rtt min/avg/max/mdev = 0.158/0.166/0.174/0.014 ms
```

Configuration de la machine 2 :

```
q20306: root /home/azerty# ifconfig eth1 192.168.43.2/24 up
q20306: root /home/azerty# ifconfig
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
inet 192.168.43.6 netmask 255.255.255.0 broadcast 192.168.43.255
          inet6 fe80::7a45:c4ff:fe40:a19d prefixlen 64 scopeid 0x20<link>
          ether 78:45:c4:40:a1:9d txqueuelen 1000 (Ethernet) RX packets 98344 bytes 118566476 (113.0 MiB)
         RX errors 0 dropped 0 overruns 0 frame 0 TX packets 29809 bytes 7902653 (7.5 MiB)
         TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
eth1: flags=4099<UP,BROADCAST,MULTICAST> mtu 1500
inet 192.168.43.2 netmask 255.255.255.0 broadcast 192.168.43.255
ether 00:0a:f7:16:c3:ef txqueuelen 1000 (Ethernet)
          RX packets 0 bytes 0 (0.0 B)
          RX errors 0 dropped 0 overruns 0 frame 0
          TX packets 0 bytes 0 (0.0 B)
          TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
          device interrupt 18
lo: flags=73<UP,L00PBACK,RUNNING> mtu 65536
          inet 127.0.0.1 netmask 255.0.0.0
          inet6 ::1 prefixlen 128 scopeid 0x10<host>
          loop txqueuelen 1 (Boucle locale)
          RX packets 12 bytes 636 (636.0 B)
          RX errors 0 dropped 0 overruns 0
          TX packets 12 bytes 636 (636.0 B)
          TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
q20306: root /home/azerty#
```

Configuration du fichier : /etc/hosts :

```
GNU nano 2.7.4

Fichier: /etc/hosts

127.0.0.1 localhost
192.168.43.1 mzoughi.iutv.top amine
192.168.43.2 wang.iutv.top peng
# The following lines are desirable for IPv6 capable hosts
::1 localhost ip6-localhost ip6-loopback
ff02::1 ip6-allnodes
ff02::2 ip6-allrouters
```

ping de la machine 2 à la machine 1 :

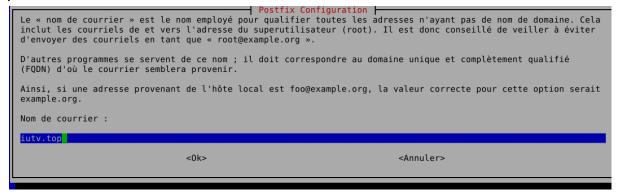
```
q20306: root /home/azerty# ping mzoughi
PING mzoughi.iutv.top.fr (192.168.43.1) 56(84) bytes of data.
64 bytes from mzoughi.iutv.top.fr (192.168.43.1): icmp_seq=1 ttl=64 time=0.253 ms
64 bytes from mzoughi.iutv.top.fr (192.168.43.1): icmp_seq=2 ttl=64 time=0.141 ms
64 bytes from mzoughi.iutv.top.fr (192.168.43.1): icmp_seq=3 ttl=64 time=0.142 ms
64 bytes from mzoughi.iutv.top.fr (192.168.43.1): icmp_seq=4 ttl=64 time=0.121 ms
64 bytes from mzoughi.iutv.top.fr (192.168.43.1): icmp_seq=5 ttl=64 time=0.189 ms
64 bytes from mzoughi.iutv.top.fr (192.168.43.1): icmp_seq=6 ttl=64 time=0.178 ms
64 bytes from mzoughi.iutv.top.fr (192.168.43.1): icmp_seq=7 ttl=64 time=0.189 ms
67 c
--- mzoughi.iutv.top.fr ping statistics ---
7 packets transmitted, 7 received, 0% packet loss, time 6150ms
rtt min/avg/max/mdev = 0.121/0.173/0.253/0.041 ms
q20306: root /home/azerty#
```

Nous avions ajouté les utilisateurs avec la commande "useradd" : pour la machine 1 :

```
q20305: root /home/mzmz# useradd amine
pour la machine 2:
q20306: root /home/azerty# useradd peng
q20306: root /home/azerty#
```

On configure le nom du courrier :

Cette option nous permet d'avoir une adresse mail n'ayant pas de nom de domaine. Nous avions mis comme domaine personnel : iutv.top.fr pour la machine 1 :

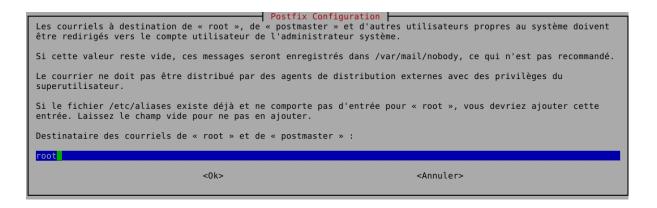


pour la machine 2 :

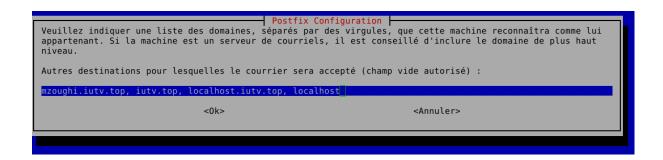
Cette option de configuration sert à définir l'adresse mail du "root" et de "postmaster", si on laisse la case vide alors les messages des utilisateurs seront enregistrer sur /var/mail/nobody:

pour la machine 1 :

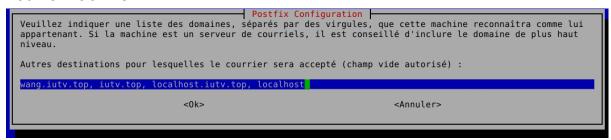
pour la machine 2 :



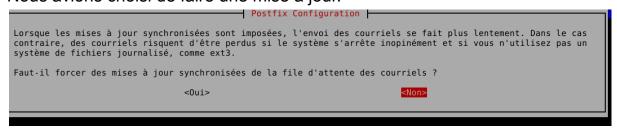
Cette option nous permet de configurer une liste des domaines pour que la machine le reconnaît comme appartenant. Nous avions mis le domaine du voisin pour qu'on reçoive les courriers de tous les utilisateurs de ce domaine. Pour la machine 1 :



Pour la machine 2 :

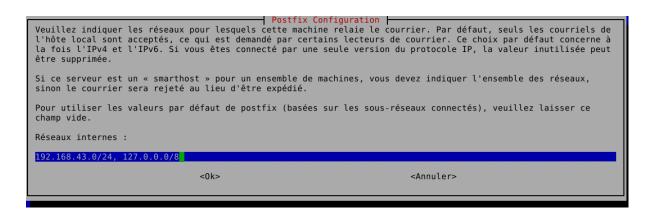


Cette option de configuration nous propose de faire une mise à jour synchronisées de la file d'attente des courriels.Lorsqu'on fait une mise à jour, alors l'envoie des courriels se fait plus lentement .Cependant , si on ne fait pas de mise à jour , l'envoie du courriels sera plus rapide mais il y aura de forte de chance que perdre le courriels si le système s'arrête. Nous avions choisi de faire une mise à jour.



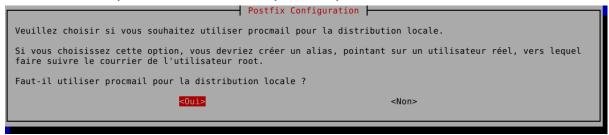
Cette option de configuration nous propose de mettre un ou plusieurs réseau interne pour lequel la machine relaie le courrier.

On a mis l'adresse de notre réseau local 192.168.43.0.

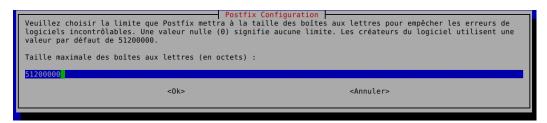


Cette option de configuration nous propose d'utiliser le promail pour la distribution locale.

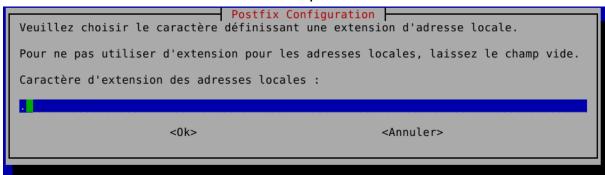
Nous n'avions pas besoin d'utiliser promail pour la distribution locale.



Cette option de configuration nous permet de choisir la taille maximal des boites aux lettres (en octets), nous avions choisi 5120000 octets.



Cette option nous propose de choisir un caractère définissant une extension d'adresse locale. Nous avons mis un "." pour l'adresse locale.



Cette option nous propose d'utiliser le protocole IPV6, IPV4 ou tous. On a choisi d'utiliser tous pour pouvoir recevoir tous les mail de protocole IPV4 ou IPV6.

Nous avions terminé de configurer le postfix des deux machines : pour la machine 1 :

```
q20305: root /home/mzmz# dpkg-reconfigure postfix
Removing sqlite map entry from /etc/postfix/dynamicmaps.cf
setting synchronous mail queue updates: true
Adding sqlite map entry to /etc/postfix/dynamicmaps.cf
setting myorigin
setting destinations: mzoughi.iutv.top, iutv.top, localhost.iutv.top, localhost
setting relayhost:
setting mynetworks: 192.168.43.0/24, 127.0.0.0/8
setting mailbox_command
setting mailbox_cize_limit: 51200000
setting recipient_delimiter: .
setting inet_interfaces: all
setting inet_protocols: all

Postfix (main.cf) is now set up with the changes above. If you need to make changes, edit /etc/postfix/main.cf (and others) as needed. To view Postfix configuration values, see postconf(1).

After modifying main.cf, be sure to run 'service postfix reload'.

Running newaliases
```

pour la machine 2 :

```
Terminal - azertv@g20306: ~
Fichier Édition Affichage Terminal Onglets Aide
changes, edit /etc/postfix/main.cf (and others) as needed. To view Postfix
configuration values, see postconf(1).
After modifying main.cf, be sure to run 'service postfix reload'.
Running newaliases
q20306: root /home/azerty# nano /etc/postfix/main.cf
q20306: root /home/azerty# nano /etc/hosts
q20306: root /home/azerty# dpkg-reconfigure postfix
Removing sqlite map entry from /etc/postfix/dynamicmaps.cf
setting synchronous mail queue updates: true
Adding sqlite map entry to /etc/postfix/dynamicmaps.cf
setting myorigin
setting destinations: wang.iutv.top, iutv.top, localhost.iutv.top, localhost
setting relayhost:
setting mynetworks: 192.168.43.0/24, 127.0.0.0/8
setting mailbox_command setting mailbox_size_limit: 51200000
setting recipient_delimiter:
setting inet_interfaces: all
setting inet_protocols: all
Postfix (main.cf) is now set up with the changes above. If you need to make
changes, edit /etc/postfix/main.cf (and others) as needed. To view Postfix
configuration values, see postconf(1).
After modifying main.cf, be sure to run 'service postfix reload'.
Running newaliases
q20306: root /home/azerty#
```

Nous avons configurer le fichier : /etc/postfix/main.cf en ajoutant la ligne "smtp_dns_support_level=disables" qui permet de configurer le mail sans DNS.

```
GNU nano 2.7.4 Fichier: /etc/postfix/main.cf

smtpd_use_tls=yes
smtpd_tls_session_cache_database = btree:${data_directory}/smtpd_scache
smtp_tls_session_cache_database = btree:${data_directory}/smtpd_scache

# See /usr/share/doc/postfix/TLS_README.gz in the postfix-doc package for

# information on enabling SSL in the smtp client.

smtpd_relay_restrictions = permit_mynetworks permit_sasl_authenticated defer_unauth_destination
myhostname = q20306.iutv.univ-paris13.fr
alias_maps = hash:/etc/aliases
alias_database = hash:/etc/aliases
myorigin = /etc/mailname
mydestination = peng@wang.iutv.top.fr, mzoughi.iutv.top.fr , localhost.localdomain, localhost
relayhost =
mynetworks = 192.168.43.0/24
mailbox_command =
mailbox_size_limit = 51200000
recipient_delimiter =
inet_interfaces = all
inet_protocols = all
smtp_dns_support_level=disabled
```

Nous avons recharger la configuration :

```
q20306: root /home/azerty# /etc/init.d/postfix reload
[ ok ] Reloading postfix configuration (via systemctl): postfix.service.
q20306: root /home/azerty#
```

3)

On a envoyer un mail à cette adresse :

```
$ mail amine@mzoughi.iutv.top
Subject: test1
test1
Cc:
```

```
N 22 peng@iutv.top Thu Sep 22 17:55 20/773 test1
```

voici le message d'erreur qu'on a eu dans la machine 1 il y a bien l'adresse du destinataire mais on arrive pas à envoyer le mail de la machine 1 à la machine 2 pourtant la machine 2 arrive à envoyer un mail à la machine 1 et la m1 arrive à le lire et le recevoire on a tout re-vérifier et ce qui nous a fait perdre du temps dans ce tp . on voulait savoir notre erreur comme ça on la reproduira plus.

```
Sep 22 17:47:31 q20305 postfix/qmg/[15001]. 3/E/34557. 'cmmote's uid=1001 from=<amine>
Sep 22 17:47:31 q20305 postfix/pickup[19660]: B291C45D7C: wid=1001 from=<amine>
Sep 22 17:47:31 q20305 postfix/cleanup[19893]: B291C45D7C: message-id=<20220922154731.B291C45D7C@q20305.iutv.univ-paris13.fr>
Sep 22 17:47:31 q20305 postfix/qmgr[19661]: B291C45D7C: from=<amine@iutv.top>, size=403, nrcpt=1 (queue active)
Sep 22 17:47:31 q20305 postfix/smtp[19895]: B291C45D7C: to=<peng@wang.iutv.top>, relay=wang.iutv.top[192.168.43.2]:25, delay=0
.31, delays=0.18/0.01/0.02/0.11, dsn=2.0.0, status=sent (250 2.0.0 0k: queued as DDFAC404FC)
Sep 22 17:47:32 q20305 postfix/qmgr[19661]: B291C45D7C: removed
```