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Configuration des machines

init1

Sur Dumas

```
mkdir /etc/s203
echo "histoire_d_un_mort" > /etc/s203/nom.txt
echo "8" > /etc/s203/id.txt
```

Configuration pérenne de Dumas, Richelieu, Treville, Porthos, Aramis, Athos

Pour activer le routage

```
Décommenter `/etc/sysctl.conf` > **ipforward**
```

Porthos

```
auto eth0
iface eth0 inet static
address 10.144.0.1
netmask 255.252.0.0
```

```
auto eth1
iface eth1 inet static
```

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```
address 10.0.73.2
netmask 255.255.255.0
up ip route add 10.164.0.0/14 via 10.0.73.4 dev eth1
up ip route add 10.252.0.0/14 via 10.0.73.3 dev eth1
up ip route add 10.0.19.0/24 via 10.0.73.5 dev eth1
gateway 10.0.73.1
```

Aramis

```
auto eth0
iface eth0 inet static
address 10.164.0.1
netmask 255.252.0.0
```

```
auto eth1
iface eth1 inet static
address 10.0.73.4
netmask 255.255.255.0
up ip route add 10.144.0.0/14 via 10.0.73.2 dev eth1
up ip route add 10.252.0.0/14 via 10.0.73.3 dev eth1
up ip route add 10.0.19.0/24 via 10.0.73.5 dev eth1
gateway 10.0.73.1
```

Athos

```
auto eth0
iface eth0 inet static
address 10.252.0.1
netmask 255.252.0.0
```

```
auto eth1
iface eth1 inet static
address 10.0.73.3
netmask 255.255.255.0
up ip route add 10.164.0.0/14 via 10.0.73.4 dev eth1
up ip route add 10.144.0.0/14 via 10.0.73.2 dev eth1
up ip route add 10.0.19.0/24 via 10.0.73.5 dev eth1
gateway 10.0.73.1
```

Dartagnan

```
auto eth0
iface eth0 inet static
address 10.0.19.1
netmask 255.255.255.0
```

```
auto eth1
iface eth1 inet static
address 10.0.73.5
netmask 255.255.255.0
up ip route add 10.144.0.0/14 via 10.0.73.2 dev eth1
up ip route add 10.252.0.0/14 via 10.0.73.3 dev eth1
up ip route add 10.164.0.0/14 via 10.0.73.4 dev eth1
gateway 10.0.73.1
```

Dumas

```
auto eth0
iface eth0 inet static
address 10.0.2.67
```

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```
netmask 255.255.255.0
gateway 10.0.2.2
```

```
auto eth1
iface eth1 inet static
address 10.0.73.1
netmask 255.255.255.0
up ip route add 10.144.0.0/14 via 10.0.73.2 dev eth1
up ip route add 10.252.0.0/14 via 10.0.73.3 dev eth1
up ip route add 10.164.0.0/14 via 10.0.73.4 dev eth1
up ip route add 10.0.19.0/24 via 10.0.73.5 dev eth1
```

```
auto eth2
iface eth2 inet static
address 10.0.0.45
netmask 255.255.255.0
```

Routes

Equipe 1

```
up ip route add 10.144.0.0/14 via 10.0.73.2 dev eth1
```

Equipe 2

```
up ip route add 10.252.0.0/14 via 10.0.73.3 dev eth1
```

Equipe 3

```
up ip route add 10.164.0.0/14 via 10.0.73.4 dev eth1
```

Admin

```
up ip route add 10.0.19.0/24 via 10.0.73.5 dev eth1
```

Service DHCP

Configuration non globale (dhcp1 & dhcp2)

Avant de modifier les fichiers, enlever les texte déjà présent
echo "" > /etc/dhcp/dhcpd.conf

```
➤ Porthos
default-lease-time 3600;
max-lease-time 7200;
authoritative;
```

Nom du serveur DHCP:
server-name "dhcp.dumas";

```
DNS:
#option domain-name "dns.dumas";
#option domain-name-servers ;
ddns-update-style none;
```

```
#refus(deny)/autorise(allow) les clients inconnus
allow unknown-clients;
```

Réseaux

```
option rfc3442-classless-static-routes code 121 = array of integer 8;
```

```
subnet 10.144.0.0 netmask 255.252.0.0 {  
    range 10.144.0.2 10.147.255.190;  
    option routers 10.144.0.1;  
}
```

➤ Athos

```
default-lease-time 3600;  
max-lease-time 7200;  
authoritative;
```

Nom du serveur DHCP:

```
server-name "dhcp.dumas";
```

DNS:

```
#option domain-name "dns.dumas";  
#option domain-name-servers ;  
ddns-update-style none;
```

```
## refus(deny)/autorise(allow) les clients inconnus  
allow unknown-clients;
```

Réseaux

```
option rfc3442-classless-static-routes code 121 = array of integer 8;
```

```
subnet 10.252.0.0 netmask 255.252.0.0 {  
    range 10.252.0.2 10.255.255.190;  
    option routers 10.252.0.1;  
}
```

➤ Aramis

```
default-lease-time 3600;  
max-lease-time 7200;  
authoritative;
```

Nom du serveur DHCP:

```
server-name "dhcp.dumas";
```

DNS:

```
#option domain-name "dns.dumas";  
#option domain-name-servers ;  
ddns-update-style none;
```

```
## refus(deny)/autorise(allow) les clients inconnus  
allow unknown-clients;
```

Réseaux

```
option rfc3442-classless-static-routes code 121 = array of integer 8;
```

```
subnet 10.164.0.0 netmask 255.252.0.0 {  
    range 10.164.0.2 10.167.255.190;  
    option routers 10.164.0.1;  
}
```

➤ Dartagnan

```
default-lease-time 3600;  
max-lease-time 7200;  
authoritative;
```

Nom du serveur DHCP:

```
server-name "dhcp.dumas";
```

DNS:

```
#option domain-name "dns.dumas";
```

```
#option domain-name-servers ;
```

```
ddns-update-style none;
```

```
## refus(deny)/autorise(allow) les clients inconnus
```

```
allow unknown-clients;
```

```
##### Réseaux #####
```

```
option rfc3442-classless-static-routes code 121 = array of integer 8;
```

```
subnet 10.0.19.0 netmask 255.252.0.0 {
```

```
    range 10.0.19.2 10.0.19.242;
```

```
    option routers 10.0.19.1;
```

```
    host planchet {
```

```
        hardware ethernet 02:04:06:4f:c3:77;
```

```
        fixed-address 10.0.19.10;
```

```
    }
```

```
}
```

Configuration des relais DHCP (isc-dhcp-relay)

Seulement pour dhcp3 (config globale)

Editer les fichier `/etc/default/isc-dhcp-relay`

➤ Porthos (équipe 1)

```
SERVERS="10.0.73.1"
```

```
INTERFACES="eth0 eth1"
```

```
OPTIONS=""
```

➤ Athos (équipe 2)

```
SERVERS="10.0.73.1"
```

```
INTERFACES="eth0 eth1"
```

```
OPTIONS=""
```

➤ Aramis (équipe 3)

```
SERVERS="10.0.73.1"
```

```
INTERFACES="eth0 eth1"
```

```
OPTIONS=""
```

➤ Dartagnan (admin)

```
SERVERS="10.0.73.1"
```

```
INTERFACES="eth0 eth1"
```

```
OPTIONS=""
```

Ensuite, démarrer tout

Dumas

```
service isc-shcp-server restart
```

Relais (Porthos, Athos, Aramis, Dartagnan)

```
service isc-dhcp-relay restart
```

Modifier les configs des clients

Planchet, Grimaud, Bazin, Mousqueton
auto eth0
iface eth0 inet dhcp

Service DNS

Porthos

nano etc unbound unbound.conf

```
server:
  interface: 0.0.0.0
  port: 8080

  do-udp: yes
  do-tcp: yes

  access-control: *.*.*.*.*.*.*.*.* allow → adresse reseau

  local-zone: "passerelle.dumas" redirect
  local-data: "passerelle.dumas A 10.0.2.2"

forward-zone:
  name: "."
  Forward-addr: 10.0.0.1
```

Aramis

nano etc unbound unbound.conf

```
server:
  interface: 0.0.0.0
  port: 8080

  do-udp: yes
  do-tcp: yes

  access-control: *.*.*.*.*.*.*.*.* allow

  local-zone: "passerelle.dumas" redirect
  local-data: "passerelle.dumas A 10.0.2.2"

forward-zone:
  name: "."
  Forward-addr: 10.0.0.1
```

Athos

nano etc unbound unbound.conf

```
server:
  interface: 0.0.0.0
  port: 8080
```

```
do-udp: yes
do-tcp: yes
```

```
access-control: *.*.*.*.*.*.*.*.* allow
```

```
local-zone: "passerelle.dumas" redirect
local-data: "passerelle.dumas A 10.0.2.2"
```

```
forward-zone:
  name: "."
  Forward-addr: 10.0.0.1
```

Dartagnan

nano etc unbound unbound conf

```
server:
  interface: 0.0.0.0
  port: 8080
```

```
do-udp: yes
do-tcp: yes
```

```
access-control: 19.0.19.0/24 allow
```

```
local-zone: "passerelle.dumas" redirect
local-data: "passerelle.dumas A 10.0.2.2"
```

```
forward-zone:
  name: "."
  forward-addr: 10.0.0.1
```

Service Unbound - Exemple

Dans le fichier /etc/unbound/unbound.conf

```
server:
  interface:      0.0.0.0
  port:           8080

  do-udp:         yes
  do-tcp:         yes

  access-control: 10.144.0.0/14 allow

  local-zone:     "passerelle.dumas" redirect
  local-data:     "passerelle.dumas A 10.0.2.2"
```

```
forward-zone:
  name: "."
  forward-addr: 10.0.0.1
```

/etc/resolv.conf (routeurs équipes & admin)

```
nameserver 10.0.2.2
nameserver 10.0.0.189
```

/etc/hosts (routeurs équipes & admin)

10.0.2.2 passerelle.dumas

10.0.0.189 dns.dumas

Service Web

Web1

Pour lancer apache au démarrage: update-rc.d apache2 default

➤ Porthos

Mkdir /var/www/equipe1.dumas

Nano /var/www/equipe1.dumas/index.html

Cd /etc/apache2/sites-available

Cp 000-default.conf equipe1.dumas.conf

Dans le fichier equipe1.dumas.conf

```
# The ServerName directive sets the request scheme, hostname and port that
# the server uses to identify itself. This is used when creating
# redirection URLs. In the context of virtual hosts, the ServerName
# specifies what hostname must appear in the request's Host: header to
# match this virtual host. For the default virtual host (this file) this
# value is not decisive as it is used as a last resort host regardless.
# However, you must set it for any further virtual host explicitly.
#ServerName www.example.com
```

ServerName www.equipe1.dumas

ServerAdmin root@equipe1.dumas

ServerAlias equipe1.dumas

DocumentRoot /var/www/equipe1.dumas/index.html

```
# Available loglevels: trace8, ..., trace1, debug, info, notice, warn,
# error, crit, alert, emerg.
# It is also possible to configure the loglevel for particular
# modules, e.g.
```

Faire de même pour les 2 suivants: en mettant bien le bon nom d'équipe

➤ Aramis

Mkdir /var/www/equipe3.dumas

Nano /var/www/equipe3.dumas/index.html

Cd /etc/apache2/sites-available

Cp 000-default.conf equipe3.dumas.conf

➤ Athos

Mkdir /var/www/equipe2.dumas

Nano /var/www/equipe2.dumas/index.html

Cd /etc/apache2/sites-available

Cp 000-default.conf equipe2.dumas.conf

Permettre aux 3 nouveaux fichiers de prendre la priorité sur le fichier par défaut:

Sur toutes les machines concernées:

a2dissite 000-default.conf

Puis, sur la machine correspondante au numéro d'équipe:

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a2ensite equipe1.dumas.conf
a2ensite equipe2.dumas.conf
a2ensite equipe3.dumas.conf

Service SSH & Serveur de Fichiers

ssh1

Planchet addr IP = 192.168.0.144

Télécharger les clés de Moodle puis les mettre dans :

/tmp-marionnet/marionnet-trukBidule/s203/hostfs/(num de la machine)

Num machine = regarder dans chaque dossier guestname jusqu'à trouver celui où y'a noté planchet

Dans planchet

```
cp /mnt/hostfs/cle_s203 /root/.ssh  
cp /mnt/hostfs/cle_s203.pub /root/.ssh  
chmod 400 /root/.ssh/cle_s203  
ssh -i /root/.ssh/cle_s203 root@192.168.0.144  
Yes  
r205s203  
````
```

Une fois connecté, on fait les modifs dans ````/etc/network/interfaces```` et on vérifie bien tout pour pas perdre l'accès  
- ne pas ip a flush au cas ou.

Penser à faire une sauvegarde du projet avant de modifier quoi que ce soit dans Dartagnan.

Une fois les modifs faites, on arrête toutes les machine puis on redémarre, et on vérifie en refaisant un SSH avec la nouvelle addr IP