# TP 4 Compte rendu Fabien Mauhourat

## Hôtes virtuels et restriction des accès :

# Configuration apache debian:

#### www.rt1.mrt.conf:

```
<VirtualHost *:80>
    ServerName www.rt1.mrt
```

ServerAdmin tp@reims.com
DocumentRoot /var/www/html/rt1

<Directory "/var/www/html/rt1">
 Options -Indexes
 order deny,allow
 allow from 172.18.10.10
 allow from 172.18.10.11
 allow from 172.18.10.12
 deny from all

ErrorLog \${APACHE\_LOG\_DIR}/error.log
CustomLog \${APACHE\_LOG\_DIR}/access.log combined
</VirtualHost>

#### www.rt2.mrt.conf:

</Directory>

```
<VirtualHost *:80>
    ServerName www.rt2.mrt
```

ServerAdmin tp@reims.com
DocumentRoot /var/www/html/rt2

<Directory "/var/www/html/rt2">
Options -Indexes
order deny,allow
allow from 172.18.10.10
allow from 172.18.10.11

```
deny from all
    </Directory>
    ErrorLog ${APACHE_LOG_DIR}/error.log
    CustomLog ${APACHE_LOG_DIR}/access.log combined
</VirtualHost>
www.rt3.mrt.conf:
<VirtualHost *:80>
    ServerName www.rt3.mrt
    ServerAdmin tp@reims.com
    DocumentRoot /var/www/html/rt3
    <Directory "/var/www/html/rt3">
           Options -Indexes
           order deny, allow
           allow from 172.18.10.10
           allow from 172.18.10.12
           deny from all
    </Directory>
    ErrorLog ${APACHE_LOG_DIR}/error.log
    CustomLog ${APACHE_LOG_DIR}/access.log combined
</VirtualHost>
```

mkdir -p /var/www/html/{rt1,rt2,rt3} chown www-data:www-data/var/www/html/rt\* a2ensite www.rtx.mrt.conf systemctl reload apache2

#### **Configuration DNS:**

/etc/bind/db.grp1.mrt: www.rt1.mrt IN CNAME ip2 www.rt2.mrt IN CNAME ip2 www.rt3.mrt IN CNAME ip2

Modifier le serial puis systematl reload bind9.

#### **Vérification:**

curl -I www.rt1.mrt/index.html

# **HTTPS pour debian:**

## Installation et configuration openssl :

apt install openssl

## Pour générer un certificat valable 1 an avec un clé de 2048 bit :

openssl req -x509 -nodes -days 365 -newkey rsa:2048 -sha256 -out /etc/ssl/certs/server.crt -keyout /etc/ssl/private/server.key :

Country Name (2 letter code) [AU]:FR
State or Province Name (full name) [Some-State]:Reims
Locality Name (eg, city) []:Reims
Organization Name (eg, company) [Internet Widgits Pty Ltd]:URCA
Organizational Unit Name (eg, section) []:URCA
Common Name (e.g. server FQDN or YOUR name) []:www.rt4.mrt
Email Address []:tp@reims.com

# Création du vhost /etc/apache2/sites-available/www.rt4.mrt.conf:

<IfModule mod\_ssl.c>
 <VirtualHost \_default\_:443>

ServerName www.rt4.mrt ServerAdmin tp@reims.com

#### DocumentRoot /var/www/html/rt4

ErrorLog \${APACHE\_LOG\_DIR}/error.log
CustomLog \${APACHE\_LOG\_DIR}/access.log combined

<Directory "/var/www/html/rt4">
 Options -Indexes
 Require all granted
</Directory>

SSLEngine on

# SSLCertificateFile /etc/ssl/certs/server.crt SSLCertificateKeyFile /etc/ssl/private/server.key

.....

</VirtualHost>

</IfModule>

## Activer le module ssl d'apache ainsi que le vhosts par www.rt4.mrt.conf :

a2enmod ssl a2ensite www.rt4.mrt.conf

mkdir /var/www/html/rt4 chown www-data:www-data /var/www/html/rt4 a2ensite www.rt4.mrt.conf systemctl restart apache2

#### **Configuration DNS:**

/etc/bind/db.grp1.mrt : www.rt4.mrt IN CNAME ip2

Modifier le serial puis systemctl reload bind9.

# HTTPS pour alpine:

# Installation et configuration openssl :

apk add apache2-ssl openssl

# Pour générer un certificat valable 1 an avec un clé de 2048 bit :

openssl req -x509 -nodes -days 365 -newkey rsa:2048 -sha256 -out /etc/ssl/certs/server.crt -keyout /etc/ssl/private/server.key.

# Création du vhost /etc/apache2/conf.d/ssl.conf :

.....

<VirtualHost \_default\_:443>

DocumentRoot "/var/www/localhost/rt4"

# ServerName www.rt4.mrt ServerAdmin tp@reims.com

ErrorLog logs/ssl\_error.log
TransferLog logs/ssl\_access.log

<Directory "/var/www/localhost/rt4">
 Options -Indexes
 Require all granted
</Directory>

SSLEngine on SSLCertificateFile /etc/ssl/certs/server.crt SSLCertificateKeyFile /etc/ssl/private/server.key

.....

</VirtualHost>

#### Création du répértoire :

mkdir /var/www/localhost/rt4

## **Configuration DNS:**

/etc/bind/db.grp1.mrt : www.rt4.mrt IN CNAME ip1

Modifier le serial puis systemctl reload bind9.

#### **Vérification:**

curl -Ik https://www.rt4.mrt

curl -kv https://www.rt4.mrt  $2>&1 \mid awk \mid BEGIN \{ cert=0 \} /^* Server certificate:/ { cert=1 } /^*/ { if (cert) print }' :$ 

- \* Server certificate:
- \* subject: C=FR; ST=Reims; L=Reims; O=URCA; OU=URCA; CN=www.rt4.mrt; emailAddress=tp@reims.com
- \* start date: Nov 5 14:01:07 2019 GMT
- \* expire date: Nov 4 14:01:07 2020 GMT

- \* issuer: C=FR; ST=Reims; L=Reims; O=URCA; OU=URCA; CN=www.rt4.mrt; emailAddress=tp@reims.com
- \* SSL certificate verify result: self signed certificate (18), continuing anyway.
- \* TLSv1.3 (IN), TLS handshake, Newsession Ticket (4):
- \* TLSv1.3 (IN), TLS handshake, Newsession Ticket (4):
- \* old SSL session ID is stale, removing
- \* Connection #0 to host www.rt4.mrt left intact

#### SSI:

## **Configuration SSI:**

```
vi /etc/httpd/conf/httpd.conf :
XBitHack on
<Directory "/var/www/html">
Options +Includes
</Directory>
chmod +x index.html
```

### Création page html:

```
<html>
<body>
hostname : centos-tp2<br>
Adresse ip : <!--#exec cmd="ip a | awk '/.*inet.*eth0/ {print $2}'" --><br>
Taille disque : <!--#exec cmd="df -h --total -x devtmpfs -x tmpfs | awk '/^total/ {print $4}'" --><br>
Charge CPU : <!--#exec cmd="vmstat | awk 'NR==3 {print 100-$15}'" --><br>

</body>
</html>
```

#### **Vérification SSI:**

```
curl ip3
<html>
<body>

hostname : centos-tp2<br>
```

Adresse ip: 172.18.10.12/24

<br>

Taille disque : 1.5G

<br>

Charge CPU: 0

<br> </body> </html>

# Répertoire partagé (WebDav) :

# Configuration du répertoire webdav :

mkdir /var/www/html/rt1/webdav chown -R www-data:www-data /var/www/html/rt1 a2enmod dav\_fs dav systemctl restart apache2

## Configuration de l'utilisateur apache2 :

htpasswd -c /etc/apache2/passwd superv

# Configuration du vhost apache :

</VirtualHost>

```
www.rt1.mrt.conf :

<VirtualHost *:80>
    ServerName www.rt1.mrt

<Directory "/var/www/html/rt1/webdav">
    Options +Indexes
    DAV On
    AuthType Basic
    AuthName webdav
    AuthUserFile /etc/apache2/passwd
    Require valid-user
</Directory>
```

#### **Vérification:**

curl -I -u superv:password <u>www.rt1.mrt/webdav/</u>

## Installation de davfs2:

yum install epel-release yum install davfs2

#### Création du device fuse :

/var/lib/lxc/centos-tp2/config:

lxc.autodev=1

lxc.hook.autodev=sh -c "mknod -m 0666 \${LXC\_ROOTFS\_MOUNT}/dev/fuse c 10 229"

# Configuration de l'authentification :

/etc/davfs2/secrets:

http://www.rt1.mrt/webdav superv password

# Montage du filesystem :

mkdir /webdav

mount -t davfs www.rt1.mrt/webdav/ /webdav/