## DHCP:

- installer isc-dhcp-server
- apt install isc-dhcp-server
- aller dans etc/dhcp/ et editer dhcpd.conf

```
dhcpd.conf

dhcpd.conf

dhcpd.conf

sample configuration file for ISC dhcpd

option definitions common to all supported networks...

option domain-name "starfleet.lan";

option domain-name-servers 192.168.42.146;

subnet 192.168.42.0 netwask 255.255.0 {
    range 192.168.42.100 192.168.42.150;
    option domain-name-servers 192.168.42.146;
    option routers 192.168.42.146;
    option routers 192.168.42.2;}

default-lease-time 600;

imax-lease-time 7200;

f The ddns-updates-style parameter controls whether or not the server will

attempt to do a DNS update when a lease is confirmed. We default to the

behavior of the version 2 packages ('none', since DHCP v2 didn't

have support for DDNS.)

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A Quitter O Lire fich. O Remplacer O Coller O Justifier O Aller ligne M-E Refaire
```

- configurer l'adresse réseaux
- installer bind9
- apt install bind9
- aller dans etc/bind
- nano named.conf.local

```
GNU nano 7.2

//

// Do any local configuration here

//

// Consider adding the 1918 zones here, if they are not used in your

// organization

//include "/etc/bind/zones.rfc1918";

zone "starfleet.lan" {

type master;

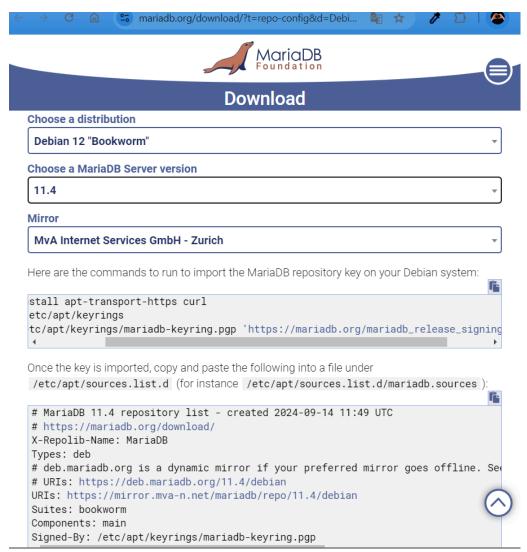
file "/etc/bind/db.starfleet.lan";

};
```

- creer une zone dns
- cree un fichier db.nomdudomaine

mettre l'adresse dhcp

- installer php 7.4 et 8.4 et aussi version fpm
- apt install php7.4,
- installer mariadb



rentrer dans mariadb mysql use mysql;

et taper CREATE USER 'phpmyadmin'@'localhost' IDENTIFIED BY 'admin';

GRANT ALL PRIVILEGES ON \* TO 'phpmyadmin'@localhost IDENTIFIED BY 'admin':

flush privileges;

- installation phpmyadmin
- <a href="https://files.phpmyadmin.net/phpMyAdmin/5.2.1/phpMyAdmin-5.2.1-all-languages.tar.gz">https://files.phpmyadmin.net/phpMyAdmin/5.2.1/phpMyAdmin-5.2.1-all-languages.tar.gz</a>
- commande wget suivie de l'url

```
ot@debian:/opt#
                                     phpMyAdmin-5.2.1-all-languages.zip
phpMyAdmin-5.2.1-all-languages
phpMyAdmin-5.2.1-all-languages.tar.gz
root@debian:/opt# cd phpMyAdmin-5.2.1-all-languages/
root@debian:/opt/phpMyAdmin-5.2.1-all-languages# ls
pabel.config.json examples package.json
                                                          templates
                    favicon.ico README
ChangeLog
                                                         themes
                    index.php RELEASE-DATE-5.2.1
composer.json
                                                        url.php
composer.lock
                                 robots.txt
                                                         vendor
config.sample.inc.php libraries setup
                                                         yarn.lock
                LICENSE show_config_errors.php locale sql
CONTRIBUTING.md
doc
root@debian:/opt/phpMyAdmin-5.2.1-all-languages#
```

- faire copier coller du fichier config.sample et le transformer en nouveau fichier config.inc
- en faisant cp config.sample.inc.php config.inc.php

```
root@debian:/opt# cd phpMyAdmin/
root@debian:/opt/phpMyAdmin# ls
babel.config.json doc locale sql
ChangeLog examples package.json templates
composer.json favicon.ico README themes
composer.lock index.php RELEASE-DATE-5.2.1 url.php
config.inc.php js robots.txt vendor
config.sample.inc.php libraries setup yarn.lock
CONTRIBUTING.md LICENSE show_config_errors.php
root@debian:/opt/phpMyAdmin# nano config.inc.php
root@debian:/opt/phpMyAdmin# [
```

- et editer config.inc.php
- et mettre 32 caractere

```
CNU nano 7.2

Config.inc.php

CNU nano 7.2

Config.inc.php

Config.inc.php

CNU nano 7.2

Config.inc.php

Conf
```

- installer cockpit
- apt install cockpit
- aller dans /etc/cockpit
- creer un fichier cockpit.conf
- et mettre le dns approprier (admin.starfleet.lan)
- [WebService]
- Origins = https://cockpit.domain.tld wss://cockpit.domain.tld
- ProtocolHeader = X-Forwarded-Proto
- installer nginx

- suivre linstallation sur <a href="https://nginx.org/en/linux\_packages.html">https://nginx.org/en/linux\_packages.html</a>
- configurer nginx
- aller dans /usr/share/nginx
- creer des dossier au nom de domaine (www7) (www8)
- et dans ses dossier creer un fichier et mettre script php info
- exemple fichier index.php:
- <?php
- phpinfo();
- ?>
- ceci sert de lien symbolique
- ensuite aller dans /etc/nginx/conf.d
- creer des fichier pour chaque domaine

```
Server {
    Isten 80;
    server_name www7.starfleet.lan;
    return 301 https://$server_name$request_uri; # Rediriger HTTP vers HTTPS
}

server {
    server_name www7.starfleet.lan;
    listen 443 ssl;

    ssl_certificate /etc/ssl/certs/nginx.crt;
    ssl_certificate_key /etc/ssl/private/nginx.key;

location / {
    root /usr/share/nginx/www7;
    index_index.php_index.html index.htm;

autoindex_on;
    }
    access_log /var/log/nginx/access_www7.log;
    error_log /var/log/nginx/error_www7.log;
    location ~ .ophp}
    {
        root /usr/share/nginx/www7;
        fastcgi_nams_unix.ynuphp/php?fa-f-fpm.sock;
        fastcgi_nams_unix.ynuphp/php/php?fa-f-fpm.sock;
        fastcgi_nams_unix.ynuphp/php/php?fa-f-fpm.sock;
        fastcgi_nams_unix.ynuphp/php/php?fastcgi_script_name;
        Include fastcgi_params;
    }
}
```

pour cockpit / admin.conf

```
# location ~ \.php$ {
    #root /usr/share/nginx/admin;
    #fastcgi_pass unix:/var/run/php/php7.4-fpm.sock;
    #fastcgi_index index.php;
    #fastcgi_param SCRIPT_FILENAME $document_root$fastcgi_script_name;
    #include fastcgi_params;
# }

location / {
    # Required to proxy the connection to Cockpit
    proxy_pass https://127.0.0.1:9090;
    proxy_set_header Host $host;
    proxy_set_header X-Forwarded-Proto $scheme;

# Required for web sockets to function
    proxy_http_version 1.1;
    proxy_buffering off;
```

apt install proftpd et proftpd-mod-crypto cd /etc/proftpd nano proftpd.conf

```
Activer l'accès pour Amandine
<Directory /usr/share/nginx>
    # Interdire l'écriture dans ce répertoire
    <Limit WRITE>
        AllowAll
    </Limit>
    # Autoriser la lecture dans ce répertoire
    <Limit READ>
        AllowAll
    </Limit>
 # Autoriser la lecture dans ce répertoire
    <Limit RETR>
       DenyAll
    </Limit>
Restreindre Amandine à son répertoire (chroot)
DefaultRoot /usr/share/nginx
# Configurer les ports passifs pour les connexions FTP
PassivePorts 60000 65535
```

```
322 usermod -aG www.data amandine
323 usermod -aG www-data amandine
324 id amandine
325 chown -R amandine:www-data /usr/share/nginx
326 chown -R 750 /usr/share/nginx
327 ufw status numbered
328 ufw allow 21/ud
329 ufw allow 21/udp
330 chown -R 760 /usr/share/nginx
331 chown -R 766 /usr/share/nginx
332 chown -R 750 /usr/share/nginx
333 chmod -R 766 /usr/share/nginx
334 chown -R amandine:www-data /usr/share/nginx
335 chmod -R 766 /usr/share/nginx
336 ls -ld /usr/share/nginx
337 sudo chmod 755 /usr/share/nginx
338 ls -ld /usr/share/nginx
339 sudo find /usr/share/nginx -type d -exec chmod 755 {} \;
340 sudo tail -f /var/log/proftpd/proftpd.log
341 sudo ls -ld /
342 sudo ls -ld /usr/share/nginx
343 sudo ls -1 /usr/share/nginx
344 cd /etc/proftpd
345 nano proftpd.conf
346 sudo systemctl restart proftpd
347 ftp 192.168.42.146
348 sudo iptables -A INPUT -p tcp --dport 54642 -j ACCEPT
349 nano proftpd.conf
350 sudo systemctl restart proftpd
         192 168 42
sudo useradd -d /usr/share/nginx -s /sbin/nologin amandine
 sudo passwd amandine
 sudo chown -R amandine:amandine /usr/share/nginx
 sudo chmod -R 755 /usr/share/nginx
root@debian:/etc# sudo systemctl restart proftpd
root@debian:/etc# ftp 192.168.42.146
Connected to 192.168.42.146.
220 ProFTPD Server (starfleet) [192.168.42.146]
Name (192.168.42.146:x): amandine
331 Mot de passe requis pour amandine
Password:
230 Utilisateur amandine authentifié
Remote system type is UNIX.
Using binary mode to transfer files.
ftp> pwd
Remote directory: /
ftp> ls
229 Entering Extended Passive Mode (|||27729|)
150 Ouverture d'une connexion de données en mode ASCII pour file list
drwxr-xr-x 2 amandine amandine 4096 Sep 5 09:47 admin
                                    4096 Sep 4 11:46 html
4096 Sep 6 08:55 php
drwxr-xr-x 2 amandine amandine
drwxr-xr-x 2 amandine amandine
drwxr-xr-x 2 amandine amandine
drwxr-xr-x 2 amandine amandine
                                    4096 Sep 10 08:48 www7
                                    4096 Sep 5 09:47 www8
226 Téléchargement terminé
ftp>
```

pare feu apt install ufw

```
284
    ufw enable
285 ip a
286 ufw allow 80
287 ufw status
288 ufw allow 443/tcp
289 ufw status
290 ufw allow 53
291 ufw status
292 ufw allow 53/tcp
293 ufw status
294 ufw allow 53/udp
295 ufw status
296 ufw allow 67/udp
297 ufw allow 80/tcp
298 ufw status
299 ufw allow 68/udp
300 ss -tulnp | grep named
301 ufw status numbered
302 ufw delet 10
303 ufw status numbered
304 ufw delete 10
305 ufw status numbered
306 ufw delete 11
307 ufw status numbered
308 ufw delete 11
309 ufw status numbered
310 ufw delete 9
311 ufw status numbered
312 ufw delete 9
313 ufw status numbered
314 ufw delete 9
315 ufw status numbered
316 ufw delete 9
317 ufw status numbered
318 ufw delete 9
319 ufw status numbered
320 ufw allow 22/tcp
```

```
root@debian:/etc/nginx/conf.d# ufw status
Status: active
                            Action
CO
                                         From
                            _____
                                         ____
30
                            ALLOW
                                        Anywhere
143/tcp
                            ALLOW
                                        Anywhere
53
                            ALLOW
                                        Anywhere
53/tcp
                            ALLOW
                                        Anywhere
53/udp
                                        Anywhere
                            ALLOW
57/udp
                                        Anywhere
                            ALLOW
30/tcp
                            ALLOW
                                        Anywhere
58/udp
                            ALLOW
                                        Anywhere
22/tcp
                                        Anywhere
                            ALLOW
21/tcp
                                        Anywhere
                            ALLOW
21/udp
                            ALLOW
                                        Anywhere
50000:65535/tcp
                            ALLOW
                                        Anywhere
21
                            ALLOW
                                        Anywhere
22/tcp (v6)
                            ALLOW
                                        Anywhere (v6)
21/tcp (v6)
                            ALLOW
                                        Anywhere (v6)
21/udp (v6)
                            ALLOW
                                        Anywhere (v6)
50000:65535/tcp (v6)
                            ALLOW
                                        Anywhere (v6)
21 (v6)
                            ALLOW
                                        Anywhere (v6)
```

pour le tls installer proftpd-mod-crypto activer le modul mod\_tls.c dans modul.conf et rajouter les cles ssl dans tls.conf

```
</IfModule>
<IfModule mod tls.c>
 TLSEngine
 TLSLog
                               /war/log/proftpd/tls.log
 TLSRSACertificateFile /etc/ssl/certs/nginx.crt
TLSRSACertificateKeyFile /etc/ssl/private/nginx.key
 TLSRSACertificateFile
  # Activer TLS v1.2 et versions supérieures
                                 TLSv1.2 TLSv1.3
 TLSProtocol
 # Exiger l'utilisation de TLS pour toutes les connexions
 TLSRequired
                                on
  # Ne pas autoriser les connexions anonymes en TLS
 TLSVerifyClient
                                off
 # Activer les sessions TLS réutilisables
 TLSRenegotiate
 TLSOptions
                                NoSessionReuseRequired
 # Activer le chiffrement pour les canaux de contrôle et de données
 TLSCipherSuite HIGH
TLSCertificateChainFile /etc/ssl/certs/nginx.crt
 # Activer l'authentification et les connexions FTP/TLS explicites (FTPS)
 TLSRSACertificateFile /etc/cel/
 # TLSOptions
 TLSRSACertificateFile /etc/ssi/certs/nglm.certificateFile /etc/ssl/private/nginx.key off
 TLSVerifyClient
  # Forcer la protection des données avec encryption
 TLSRequired
 # Paramètres pour la compatibilité avec FileZilla et autres clients FTP
 TLSOptions
                               NoSessionReuseRequired
</IfModule>
```

et mettre le liens symbolique dans proftpd.conf

```
LoadModule mod_tls.c

# Includes DSO modules
Include /etc/proftpd/modules.conf
Include /etc/proftpd/tls.conf

# Set off to disable IPv6 support which is annoying on IPv4 only boxes.
UseIPv6 off

# If set on you can experience a longer connection delay in many cases.

<IfModule mod_ident.c>
```

et restart le proftpd