## **DNS**

## 1-Instalation de dns/apache/mysql

```
imane@ubuntu:~$ sudo nano /etc/dhcp/dhcpd.conf.
imane@ubuntu:~$ sudo nano /etc/dhcp/dhcpd.conf
imane@ubuntu:~$ sudo nano /etc/bind/named.conf.local
imane@ubuntu:~$ sudo nano /etc/bind/db.pharma.me
imane@ubuntu:~$ sudo nano /etc/bind/db.10
imane@ubuntu:~$ sudo named-checkconf
imane@ubuntu:~$ sudo named-checkzone pharma.me /etc/bind/db.pharma.me
zone pharma.me/IN: loaded serial 2025010601
OK
imane@ubuntu:~$ sudo named-checkzone 0.0.10.in-addr.arpa /etc/bind/db.10
zone 0.0.10.in-addr.arpa/IN: loaded serial 2025010601
imane@ubuntu: $ sudo systemctl restart bind9
imane@ubuntu: $ sudo systemctl enable bind9
Failed to enable unit: Refusing to operate on alias name or linked unit file: b
ind9.service
imane@ubuntu:~$ sudo named-checkconf
imane@ubuntu:~$ sudo nano /etc/bind/named.conf.local
imane@ubuntu:~$ sudo systemctl restart bind9
imane@ubuntu:~$ sudo systemctl enable bind9
Failed to enable unit: Refusing to operate on alias name or linked unit file: b
ind9.service
imane@ubuntu:~$ sudo named-checkzone pharma.me /etc/bind/db.pharma.me
zone pharma.me/IN: loaded serial 2025010601
OK
imane@ubuntu:~$ sudo nano /etc/bind/named.conf.local
imane@ubuntu:~$ sudo nano /etc/bind/db.pharma.me
imane@uhuntu:~$ sudo systemctl restart hind9
```

```
imane@ubuntu:~$ sudo named-checkzone pharma.me /etc/bind/db.pharma.me
zone pharma.me/IN: loaded serial 2025010601
OK
imane@ubuntu:~$ sudo nano /etc/bind/named.conf.local
imane@ubuntu:~$ sudo nano /etc/bind/db.pharma.me
imane@ubuntu: $ sudo systemctl restart bind9
imane@ubuntu:~$ sudo systemctl enable bind9
Failed to enable unit: Refusing to operate on alias name or linked unit file:
ind9.service
imane@ubuntu: $ sudo nano /etc/bind/db.pharma.me
imane@ubuntu: $ sudo systemctl restart bind9
imane@ubuntu:~$ sudo systemctl enable bind9
Failed to enable unit: Refusing to operate on alias name or linked unit file:
ind9.service
imane@ubuntu: $ sudo nano /etc/bind/named.conf.local^C
imane@ubuntu:~$ sudo systemctl enable named
Synchronizing state of named.service with SysV service script with /lib/system
/systemd-sysy-install.
Executing: /lib/systemd/systemd-sysv-install enable named
imane@ubuntu:~$
imane@ubuntu:~$ sudo systemctl status bind9
named.service - BIND Domain Name Server
     Loaded: loaded (/lib/systemd/system/named.service; enabled; vendor preset
    Active: active (running) since Tue 2025-01-21 23:02:35 +01; 3min 25s ago
       Docs: man:named(8)
   Main PID: 13486 (named)
```

```
tmane@ubuntu:~$ nslookup www.pharma.me

Server: 10.0.0.1

Address: 10.0.0.1#53

Name: www.pharma.me

Address: 10.0.0.1
```

```
#
# See man:systemd-resolved.service(8) for details abou
# operation for /etc/resolv.conf.
nameserver 10.0.0.1
```

```
$TTL
        86400
        IN
                SOA
                        ns1.pharma.me. admin.pharma.me. (
                      2025010601 ; Serial (année, mois, jour, numéro de révisi>
                                 ; Refresh (1 heure)
                                 ; Retry (30 minutes)
                      1800
                                 ; Expire (2 semaines)
                      1209600
                      86400 )
                                 ; Minimum TTL (1 jour)
; Définition des serveurs de noms
                NS
        IN
                        ns1.pharma.me.
        IN
                NS
                        ns2.pharma.me.
; Adresses des serveurs de noms
ns1
        IN
                Α
                        10.0.0.1
ns2
        IN
                A
                        10.0.0.2
; Enregistrement des hôtes
        IN
                A
                        10.0.0.1
mail
        IN
                A
                        10.0.0.3
ftp
        IN
                A
                        10.0.0.4
; Enregistrements MX pour le mail
        IN
                MX
                        10 mail.pharma.me.
                               [ Read 23 lines ]
```

```
(1 server found)
; global options: +cmd
; Got answer:
; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 16595
; flags: qr aa rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1
: OPT PSEUDOSECTION:
EDNS: version: 0, flags:; udp: 1232
 COOKIE: d423a4d75d1ba3520100000067901a8de4490f8fe042eaf9 (good)
; QUESTION SECTION:
www.pharma.me.
                               IN
                                       A
; ANSWER SECTION:
www.pharma.me.
                       86400
                               IN
                                       Α
                                              10.0.0.1
; Query time: 4 msec
; SERVER: 127.0.0.1#53(localhost) (UDP)
: WHEN: Tue Jan 21 23:07:09 +01 2025
; MSG SIZE rcvd: 86
.mane@ubuntu:~$ dig @localhost -x 10.0.0.1
 <<>> DiG 9.18.30-0ubuntu0.20.04.1-Ubuntu <<>> @localhost -x 10.0.0.1
(1 server found)
; global options: +cmd
: Got answer:
  ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 11243
```

```
//
// Définition de la zone principale (directe)
zone "pharma.me" {
    type master;
    file "/etc/bind/db.pharma.me"; // Fichier de zone pour le domaine EIDIA.U
};

// Définition de la zone inverse
zone "0.0.10.in-addr.arpa" {
    type master;
    file "/etc/bind/db.10"; // Fichier de zone inverse pour les IP 192.168.0.
};

// Do any local configuration here
//
// Consider adding the 1918 zones here, if they are not used in your
// organization
//include "/etc/bind/zones.rfc1918";
```

```
.mane@ubuntu:~$ sudo apt update
Hit:1 http://archive.ubuntu.com/ubuntu focal InRelease
Hit:2 http://security.ubuntu.com/ubuntu focal-security InRelease
Get:3 http://archive.ubuntu.com/ubuntu focal-updates InRelease [128 kB]
Hit:4 http://archive.ubuntu.com/ubuntu focal-backports InRelease
Fetched 128 kB in 4s (29.6 kB/s)
Reading package lists... Done
Building dependency tree
Reading state information... Done
All packages are up to date.
imane@ubuntu:~$ sudo apt install apache2 -y
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
 linux-headers-5.15.0-126-generic linux-hwe-5.15-headers-5.15.0-126
 linux-image-5.15.0-126-generic linux-modules-5.15.0-126-generic
 linux-modules-extra-5.15.0-126-generic
Use 'sudo apt autoremove' to remove them.
The following additional packages will be installe
```

```
lmane@ubuntu:~$ sudo systemctl enable apache2
Synchronizing state of apache2.service with SysV service script with /lib/syste
nd/systemd-sysv-install.
Executing: /lib/systemd/systemd-sysv-install enable apache2
```