

TP DNS Bind9

Installation de Bind9 :

```
root@dievartvincent-VirtualBox:/home/dievartvincent# apt install bind9
```

```
root@dievartvincent-VirtualBox:/home/dievartvincent# cd /etc/bind
root@dievartvincent-VirtualBox:/etc/bind# ls
bind.keys  db.127  db.empty  named.conf          named.conf.local  rndc.key
db.0       db.255  db.local  named.conf.default-zones  named.conf.options  zones.rfc1918
root@dievartvincent-VirtualBox:/etc/bind#
```

On copie le fichier db.local en vam.local et on le modifie :

```
GNU nano 4.8 root@dievartvincent
;
; BIND data file for local loopback interface
;
$TTL      604800
@         IN      SOA      vam.local.      root.vam.local. (
; Serial
; Refresh
; Retry
; Expire
; Negative Cache TTL
;
@         IN      NS       localhost.
@         IN      A        127.0.0.1
@         IN      AAAA     ::1
ns        IN      S1       192.168.0.1
ns        IN      S2       192.168.0.2
ns        IN      S3       192.168.0.4
ns        IN      ROUTEUR  192.168.0.254
```

```
Nov 13 16:59:22 dieartvincent-VirtualBox named[4195]: zone 0.in-addr.arpa/IN: loaded serial 1
Nov 13 16:59:22 dieartvincent-VirtualBox named[4195]: zone 127.in-addr.arpa/IN: loaded serial 1
Nov 13 16:59:22 dieartvincent-VirtualBox named[4195]: zone localhost/IN: loaded serial 2
Nov 13 16:59:22 dieartvincent-VirtualBox named[4195]: zone vam.local/IN: loaded serial 2
Nov 13 16:59:22 dieartvincent-VirtualBox named[4195]: zone 255.in-addr.arpa/IN: loaded serial 1
Nov 13 16:59:22 dieartvincent-VirtualBox named[4195]: all zones loaded
Nov 13 16:59:22 dieartvincent-VirtualBox named[4195]: running
```

Puis on configure le fichier named.conf.local :

```
GNU nano 4.8 named.conf.local
//
// 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 "vam.local" {
    type master;
    file "/etc/bind/db.vam.local";
};
```

Après cela on configure le fichier db.local :

```
GNU nano 4.8 db.local
;
; BIND data file for local loopback interface
;
$TTL      604800
@         IN      SOA      ns.vam.local. root.vam.local. (
                        2      ; Serial
                        604800 ; Refresh
                        86400  ; Retry
                        2419200 ; Expire
                        604800 ) ; Negative Cache TTL
;
@         IN      NS       ns
@         IN      A        127.0.0.1
@         IN      AAAA     ::1
ns        IN      A        192.168.0.29
ns        IN      S1       192.168.0.51
ns        IN      S2       192.168.0.52
ns        IN      S3       192.168.0.53
ns        IN      ROUTER   192.168.0.254
```

Pour la recherche inverse on modifie named.conf.local :

```
zone "vam.local" {
    type master;
    file "/etc/bind/db.vam.local";
};

zone "0.168.192.in-addr.arpa." {
    type master;
    file "/etc/bind/db.vam.inv.local";
};
```

On copie et modifie le fichier db.127 configure :

```
GNU nano 4.8
;
; BIND reverse data file for local loopback interface
;
$TTL      604800
@         IN      SOA      ns.vam.local. root.vam.local. (
                        1      ; Serial
                        604800 ; Refresh
                        86400  ; Retry
                        2419200 ; Expire
                        604800 ) ; Negative Cache TTL
;
@         IN      NS       ns.vam.local.
1.0.0     IN      PTR      ns.vam.local.
29        IN      PTR      A
51        IN      PTR      S1
52        IN      PTR      S2
53        IN      PTR      S3
254       IN      PTR      ROUTER
```

On modifie le fichier resolv.conf :

```
GNU nano 2.5.3      File: resolv.conf

# Dynamic resolv.conf(5) file for glibc resolver(3) generated by resolvconf(8)
#     DO NOT EDIT THIS FILE BY HAND -- YOUR CHANGES WILL BE OVERWRITTEN

search vam.vam
nameserver 192.168.43.200

```

[Wrote 5 lines]

^G Get Help **^O** Write Out **^W** Where Is **^K** Cut Text **^J** Justify **^C** Cur Pos
^X Exit **^R** Read File **^A** Replace **^U** Uncut Text **^T** To Spell **^_** Go To Line

on relance le service avec service bind9 restart :

```
● bind9.service - BIND Domain Name Server
   Loaded: loaded (/lib/systemd/system/bind9.service; enabled; vendor preset: enabled)
   Drop-In: /run/systemd/generator/bind9.service.d
            └─50-insserv.conf-$named.conf
   Active: active (running) since lun. 2020-11-16 17:06:43 CET; 15s ago
     Docs: man:named(8)
  Process: 2266 ExecStop=/usr/sbin/rndc stop (code=exited, status=0/SUCCESS)
 Main PID: 2272 (named)
    CGroup: /system.slice/bind9.service
            └─2272 /usr/sbin/named -f -u bind

nov. 16 17:06:43 antoine-VirtualBox named[2272]: zone 0.in-addr.arpa/IN: loaded serial 1
nov. 16 17:06:43 antoine-VirtualBox named[2272]: zone 127.in-addr.arpa/IN: loaded serial 1
nov. 16 17:06:43 antoine-VirtualBox named[2272]: zone vam.vam/IN: loaded serial 2
nov. 16 17:06:43 antoine-VirtualBox named[2272]: zone 43.168.192.in-addr.arpa/IN: loaded serial
nov. 16 17:06:43 antoine-VirtualBox named[2272]: zone localhost/IN: loaded serial 2
nov. 16 17:06:43 antoine-VirtualBox named[2272]: zone 255.in-addr.arpa/IN: loaded serial 1
nov. 16 17:06:43 antoine-VirtualBox named[2272]: all zones loaded
nov. 16 17:06:43 antoine-VirtualBox named[2272]: running
nov. 16 17:06:43 antoine-VirtualBox named[2272]: zone vam.vam/IN: sending notifies (serial 2)
nov. 16 17:06:43 antoine-VirtualBox named[2272]: zone 43.168.192.in-addr.arpa/IN: sending notifi
~
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```

On voit que le DNS est fonctionnel.

```
antoine@antoine-VirtualBox:/etc/bind$ nslookup vam.vam
Server:      192.168.43.200
Address:     192.168.43.200#53

Name:   vam.vam
Address: 192.168.43.200
```