

# CONFIGURACIONES

Hecho por: Marc Burguera, Alvaro Escartí y Javier Puertas

#### ÍNDICE

0.- Preparación de nuestro servidor

1.- Configuración caché

2.- Configuración principal

3.- Configuración secundaria



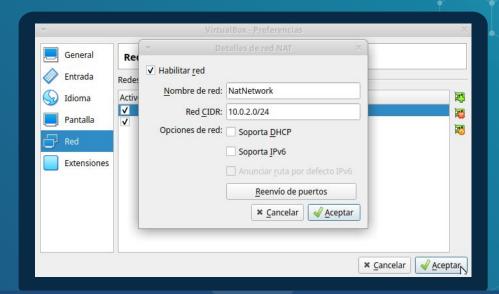
## PREPARACIÓN DEL SERVIDOR

#### EMPEZAMOS....





### CREACIÓN DE RED NAT



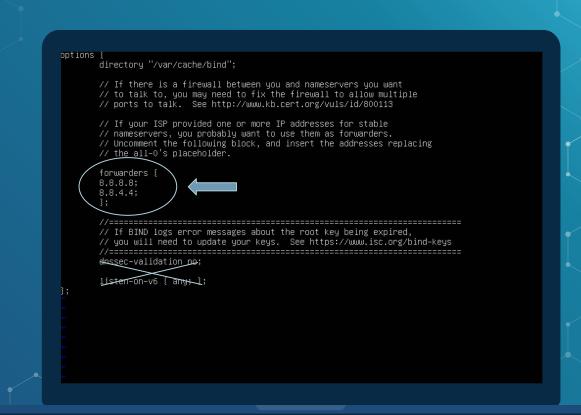
## COMPROBACIÓN DE INTERNET

```
javier@javier:~$ ping www.upv.es
PING ias.cc.upv.es (158.42.4.23) 56(84) bytes of data.
^C
--- ias.cc.upv.es ping statistics ---
1 packets transmitted, O received, 100% packet loss, time Oms
```

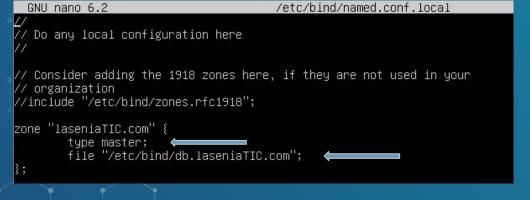
#### INSTALACIÓN BIND 9

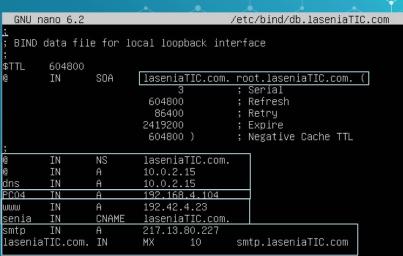
root@javier:/home/javier# sudo apt install bind9
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
bind9 ya está en su versión más reciente (1:9.18.1–1ubuntu1.2).
O actualizados, O nuevos se instalarán, O para eliminar y 39 no actualizados.
root@javier:/home/javier#

# 2 CONFIGURACIÓN DNS CACHÉ



## 3 CONFIGURACIÓN PRINCIPAL





```
javier@javier:~$ dig @10.0.2.15 smtp.laseniaTIC.com
; <<>> DiG 9.18.1-1ubuntu1.2-Ubuntu <<>> @10.0.2.15 smtp.laseniaTIC.com
; (1 server found)
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 61273
;; flags: or aa rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1
;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 1232
 COOKIE: c06860183a6d4a2201000000634ec258da6affa137f33896 (good)
;; QUESTION SECTION:
;smtp.laseniaTIC.com.
                               IN
;; ANSWER SECTION:
smtp.laseniaTIC.com.
                       604800 IN
                                               217.13.80.227
;; Query time: 0 msec
;; SERVER: 10.0.2.15#53(10.0.2.15) (UDP)
;; WHEN: Tue Oct 18 15:12:24 UTC 2022
;; MSG SIZE rcvd: 92
```

```
javier@javier:~$ dig @10.0.2.15 PCO4.laseniaTIC.com
 <<>> DiG 9.18.1-1ubuntu1.2-Ubuntu <<>> @10.0.2.15 PC04.laseniaTIC.com
 (1 server found)
; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 5195
;; flags; or aa rd ra; QUERY: 1. ANSWER: 1. AUTHORITY: 0. ADDITIONAL: 1
;; OPT PSEUDOSECTION:
 EDNS: version: 0, flags:; udp: 1232
 COOKIE: 0a4b4b4873021be101000000634ec0dce1548252ff9b2d55 (good)
 ; QUESTION SECTION:
PCO4.laseniaTIC.com.
;; ANSWER SECTION:
PCO4.laseniaTIC.com.
                       604800 IN
                                               192.168.4.104
;; Queru time: O msec
; SERVER: 10.0.2.15#53(10.0.2.15) (UDP)
;; WHEN: Tue Oct 18 15:06:04 UTC 2022
;; MSG SIZE rcvd: 92
javier@javier:~$
```

```
javier@javier:~$ dig @10.0.2.15 dns.laseniaTIC.com
 <<>> DiG 9.18.1-1ubuntu1.2-Ubuntu <<>> @10.0.2.15 dns.laseniaTIC.com
 (1 server found)
 ; global options: +cmd
 ; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 59052
;; flags: gr aa rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1
 ; OPT PSEUDOSECTION:
 EDNS: version: 0, flags:; udp: 1232
 COOKIE: e7c19364fa020c5801000000634ec065fc0b1bdd0ef65b00 (good)
 ; QUESTION SECTION:
dns.laseniaTIC.com.
                                IN
:: ANSWER SECTION:
dns.laseniaTIC.com.
                       604800 IN
                                                10.0.2.15
;; Query time: O msec
 ; SERVER: 10.0.2.15#53(10.0.2.15) (UDP)
 ; WHEN: Tue Oct 18 15:04:05 UTC 2022
;; MSG SIZE rcvd: 91
javier@javier:~$ _
```

```
javier@javier:~$ dig @10.0.2.15 www.laseniaTIC.com
; <<>> DiG 9.18.1–1ubuntu1.2–Ubuntu <<>> @10.0.2.15 www.laseniaTIC.com
; (1 server found)
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 1640
;; flags: gr aa rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1
;; OPT PSEUDOSECTION:
; EDNS: version: O, flags:; udp: 1232
 COOKIE: 113e2845b7e0600301000000634ec113b0351f687ce5c5f1 (good)
;; QUESTION SECTION:
;www.laseniaTIC.com.
                               IN
;; ANSWER SECTION:
www.laseniaTIC.com.
                       604800 IN
                                               192.42.4.23
;; Query time: 4 msec
;; SERVER: 10.0.2.15#53(10.0.2.15) (UDP)
;; WHEN: Tue Oct 18 15:06:59 UTC 2022
;; MSG SIZE rcvd: 91
javier@javier:~$
```



## CONFIGURACIÓN SECUNDARIA

#### DNS SLAVE (ESCLAVO)

```
GNU nano 6.2
                                       /etc/bind/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 "laseniaTIC.com" {
        type slave;
        file "/etc/bind/db.laseniaTIC.com";
       master { 10.0.2.15; };
        allow-query { any; };
```

#### DNS SLAVE (ESCLAVO)

```
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)

Docs: man:named(8)

fain PID: 1118 (named)

Tasks: 4

Memory: 12.5M

CPU: 120ms

CGroup: /system.slice/bind9.service

_1118 /usr/sbin/named -f -u bind
```

