

# LPIC2 2021 Sesión 9 (2021-03-02)

## Documentación relacionada:

- Manual Certificación LPIC-2.pdf, pag XX
- Material Practicas LPIC-2/LPIC-202/
- Presentaciones/2020/202/
- gdrive://

## Clase

### DNS

#### DNS: Laboratorio (continuación [\[\[info: cursos: pue: lpic2-2021: s8# dns laboratorio\]\]](#))

ficheros de configuración para el master del servidor DNS

[named.conf](#)

```
options {
    directory "/var/named"; %%//%% aunque esté enjaulado, no lo sabe...
    forwarders{
        8.8.8.8;
        8.8.4.4;
    };
    allow-transfer{
        192.168.2.152;
    };
    allow-notify {192.168.2.152;};
};

zone "." {
    type hint;
    file "named.ca";
};

zone "curso.esp"{
    type master;
    allow-update {
        192.168.2.0/24;
    };
    file "db.curso";
};

zone "2.168.192.IN-ADDR.ARPA"{
    type master;
    allow-update {
        192.168.2.0/24;
    };
    file "db.192.168.2";
};
```

```
};
```

### db.curso

```
$ORIGIN .
$TTL 259200 ; 3 days
curso.esp      IN SOA   sercentos7.curso.esp. root.curso.esp. (
                2021022502 ; serial
                86400      ; refresh (1 day)
                7200       ; retry (2 hours)
                2592000    ; expire (4 weeks 2 days)
                172800     ; minimum (2 days)
                )
                NS       orion.curso.esp.
                NS       sercentos7.curso.esp.
                MX       3 trasgu.curso.esp.
$ORIGIN curso.esp.
agendapc5      CNAME   pc5
curso          A       192.168.2.3
fresnosa       CNAME   trasgu
localhost      A       127.0.0.1
pc2            A       192.168.2.8
pc3            A       192.168.2.10
portalpc12     CNAME   pc12
portatil       A       192.168.2.2
trasgu         A       192.168.2.150
orion          A       192.168.2.152
webalizerpc12 CNAME   pc12
sercentos7     A       192.168.2.5
```

### db.192.168.2

```
$TTL 259200 ; 3 days
2.168.192.IN-ADDR.ARPA. IN SOA   sercentos7.curso.esp. root.curso.esp. (
                2021022501 ; serial
                86400      ; refresh (1 day)
                7200       ; retry (2 hours)
                2592000    ; expire (4 weeks 2 days)
                172800     ; minimum (2 days)
                )
2.168.192.IN-ADDR.ARPA. NS       orion.curso.esp.
2.168.192.IN-ADDR.ARPA. NS       sercentos7.curso.esp.
2.168.192.IN-ADDR.ARPA. MX       3 sercentos7.curso.esp.

150           IN      PTR      trasgu.curso.esp.
5             IN      PTR      sercentos7.curso.esp.
152          IN      PTR      orion.curso.esp.
8            IN      PTR      pc2.curso.esp.
```

### named.ca

```
; This file holds the information on root name servers needed to
; initialize cache of Internet domain name servers
```

```

; (e.g. reference this file in the "cache . <file>"
; configuration file of BIND domain name servers).
;
; This file is made available by InterNIC
; under anonymous FTP as
; file /domain/named.cache
; on server FTP.INTERNIC.NET
; -OR- RS.INTERNIC.NET
;
; last update: Jan 29, 2004
; related version of root zone: 2004012900
;
;
; formerly NS.INTERNIC.NET
;
. 3600000 IN NS A.ROOT-SERVERS.NET.
A.ROOT-SERVERS.NET. 3600000 A 198.41.0.4
;
; formerly NS1.ISI.EDU
;
. 3600000 NS B.ROOT-SERVERS.NET.
B.ROOT-SERVERS.NET. 3600000 A 192.228.79.201
;
; formerly C.PSI.NET
;
. 3600000 NS C.ROOT-SERVERS.NET.
C.ROOT-SERVERS.NET. 3600000 A 192.33.4.12
;
; formerly TERP.UMD.EDU
;
. 3600000 NS D.ROOT-SERVERS.NET.
D.ROOT-SERVERS.NET. 3600000 A 128.8.10.90
;
; formerly NS.NASA.GOV
;
. 3600000 NS E.ROOT-SERVERS.NET.
E.ROOT-SERVERS.NET. 3600000 A 192.203.230.10
;
; formerly NS.ISC.ORG
;
. 3600000 NS F.ROOT-SERVERS.NET.
F.ROOT-SERVERS.NET. 3600000 A 192.5.5.241
;
; formerly NS.NIC.DDN.MIL
;
. 3600000 NS G.ROOT-SERVERS.NET.
G.ROOT-SERVERS.NET. 3600000 A 192.112.36.4
;
; formerly AOS.ARL.ARMY.MIL
;
. 3600000 NS H.ROOT-SERVERS.NET.
H.ROOT-SERVERS.NET. 3600000 A 128.63.2.53
;
; formerly NIC.NORDU.NET
;
. 3600000 NS I.ROOT-SERVERS.NET.

```

```
I.R00T-SERVERS.NET.      3600000      A      192.36.148.17
;
; operated by VeriSign, Inc.
;
.                          3600000      NS     J.R00T-SERVERS.NET.
J.R00T-SERVERS.NET.      3600000      A      192.58.128.30
;
; operated by RIPE NCC
;
.                          3600000      NS     K.R00T-SERVERS.NET.
K.R00T-SERVERS.NET.      3600000      A      193.0.14.129
;
; operated by ICANN
;
.                          3600000      NS     L.R00T-SERVERS.NET.
L.R00T-SERVERS.NET.      3600000      A      198.32.64.12
;
; operated by WIDE
;
.                          3600000      NS     M.R00T-SERVERS.NET.
M.R00T-SERVERS.NET.      3600000      A      202.12.27.33
; End of File
```

[/etc/resolv.conf](#)

```
nameserver 192.168.2.5
nameserver 192.168.2.152
search curso.esp
domain curso.esp
```

- **/etc/sysconfig/network-scripts/icfg-enp0s3:**

```
PEERDNS=No
DNS1=<IP_DNS>
DNS2=<IP_DNS>
```

- para que no sobrescriba el **resolv.conf** (el DHCP o Vagrant) y mantenga los DNS que yo le diga
- dig

## DNS: Laboratorio

- DOC: Material Practicas LPIC-2/LPIC-202/1-Domain Name Server/2-Laboratorio DNS RedHat7.pdf

- ```
options {
    directory "/var/named";
    forwarders{
        8.8.8.8;
        192.168.2.1;
    };
    // allow-transfer{
    // 192.168.2.5;
    // 192.168.2.3;
    // };
```

```
//
};

zone "." {
    type hint;
    file "named.ca";
};
zone "curso.esp"{
    type slave;
    file "slaves/db.curso";
    masters { 192.168.2.5; };
};

zone "2.168.192.IN-ADDR.ARPA"{
    type slave;
    file "slaves/db.192.168.2";
    masters { 192.168.2.5; };
};

};
```

- [/etc/resolv.conf](#)

```
nameserver 192.168.2.5
search curso.esp
domain curso.esp
```

- cp named.ca /var/named/chroot/var/named/
- cp named.conf /var/named/chroot/etc/
- mkdir /var/named/chroot/var/named/slaves
- chmod -R 770 /var/named/chroot/var/named/slaves
- chown -R named:named /var/named/chroot/var/named/slaves
- service named restart ← centos6 sin systemctl

## DNS (continuación)

- masterfile-format:
  - indica en que formato se transfieren las zonas desde el master: text,raw,map
  - [https://fpngenred.es/DNS/estamento\\_masterfileformat.html](https://fpngenred.es/DNS/estamento_masterfileformat.html)
- dig,nslookup,host
  - host -t NS curso.esp
- DOC: Manual Certificacion LPIC-2.pdf, pag. 254
- añadir nueva zona esclava en el master:

```
zone "nombrezona" {
    type slave;
    masters { 192.168.x.x; };
    file "db.miempresa.com";
    masterfile-format text;
};
```

- añadir a **named.conf**:

```
options {
    directory "/var/named"; // aunque esté enjaulado, no lo sabe...
```

```
listen-on port 53 { IP_escucha; };  
forwarders{  
    8.8.8.8;  
    8.8.4.4;  
};
```

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