Activitat

Instal·lar un servidor primari DNS

1. En una màquina virtual configureu   BIND de manera que resolgui les adreces de la xarxa ELXINOXANO que té dos dominis (ELXI.NO) i (XA.NO)

```
  GNU nano 2.2.6              File: 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 "ELXI.NO" {
        type master;
        file "/etc/bind/db.elxino";
};
zone "XA.NO" {
        type master;
        file "/etc/bind/db.xano";
};
```

```
  GNU nano 2.2.6                File: db.elxino

;
@         IN      NS      elxi.no
elxi.no IN      A       127.0.0.1
@         IN      A       127.0.0.1
vendes1 IN      A       192.168.15.2
WWW      IN      A       192.168.10.3
informatica4    IN      A       192.168.10.5
routervendes    IN      A       192.168.15.8
routervendes    IN      A       192.168.10.1
vendes2 IN      A       192.168.15.3
compres1        IN      A       192.168.15.99
compres2        IN      A       192.168.15.99
informatica3    IN      A       192.168.10.4
informatica4    IN      A       192.168.10.5
```

```
;
; BIND data file for local loopback interface
;
$TTL    604800
@        IN       SOA      XA.NO. root.XA.NO. (
                                    2           ; Serial
                               604800           ; Refresh
                                86400           ; Retry
                              2419200           ; Expire
                               604800 )         ; Negative Cache Ttl
;
@        IN       NS       xa.no
xa.no    IN       A        127.0.0.1
@        IN       A        127.0.0.1
www      IN       A        192.168.20.2
ROUTERX  IN       A        192.168.10.234
ROUTERX  IN       A        192.168.20.1
```

Prova de funcionament:

```
root@paco-VirtualBox:/etc/bind# dig @localhost routervendes.elxi.no +short
192.168.10.1
192.168.15.8
root@paco-VirtualBox:/etc/bind# dig @localhost elxi.no +short
127.0.0.1
```

```
root@paco-VirtualBox:/etc/bind# dig @localhost www.xa.no +short
192.168.20.2
root@paco-VirtualBox:/etc/bind# dig @localhost routerx.xa.no +short
192.168.20.1
192.168.10.234
root@paco-VirtualBox:/etc/bind#
```

2. Configureu el sistema perquè només permeti fer transferències de zona a localhost


```
GNU nano 2.2.6          File: /etc/bind/named.conf.options

        // the all-0's placeholder.

        // forwarders {
        //      0.0.0.0;
        // };

        //========================================================
        // If BIND logs error messages about the root key bein
        // you will need to update your keys.  See https://www
        //========================================================
        dnssec-validation auto;

        auth-nxdomain no;    # conform to RFC1035
        listen-on-v6 { any; };

        allow-transfer{127.0.0.1;};
};
```

```
root@paco-VirtualBox:/etc/bind# dig axfr elxi.no

; <<>> DiG 9.9.5-3ubuntu0.8-Ubuntu <<>> axfr elxi.no
;; global options: +cmd
ELXI.NO.             604800  IN    SOA     ELXI.NO. root.ELXI.NO. 2 604800
86400 2419200 604800
ELXI.NO.             604800  IN    NS      elxi.no.ELXI.NO.
ELXI.NO.             604800  IN    A       127.0.0.1
compres1.ELXI.NO.    604800  IN    A       192.168.15.99
compres2.ELXI.NO.    604800  IN    A       192.168.15.99
informatica3.ELXI.NO. 604800 IN    A       192.168.10.4
informatica4.ELXI.NO. 604800 IN    A       192.168.10.5
elxi.no.ELXI.NO.     604800  IN    A       127.0.0.1
routervendes.ELXI.NO. 604800 IN    A       192.168.10.1
routervendes.ELXI.NO. 604800 IN    A       192.168.15.8
vendes1.ELXI.NO.     604800  IN    A       192.168.15.2
vendes2.ELXI.NO.     604800  IN    A       192.168.15.3
WWW.ELXI.NO.         604800  IN    A       192.168.10.3
ELXI.NO.             604800  IN    SOA     ELXI.NO. root.ELXI.NO.
86400 2419200 604800
;; Query time: 4 msec
;; SERVER: 127.0.0.1#53(127.0.0.1)
;; WHEN: Mon Apr 11 15:19:17 CEST 2016
;; XFR size: 14 records (messages 1, bytes 384)
```

```
Command Prompt - nslookup                         _ □ ×
Microsoft Windows [Version 6.3.9600]
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C:\Users\Brian>nslookup
Default Server:  UnKnown
Address:  192.168.0.3

> server 192.168.15.183
Default Server:  [192.168.15.183]
Address:  192.168.15.183

> ls elxi.no
[[192.168.15.183]]
*** Can't list domain elxi.no: Query refused
The DNS server refused to transfer the zone elxi.no to your computer. If this
is incorrect, check the zone transfer security settings for elxi.no on the DNS
server at IP address 192.168.15.183.

>
```