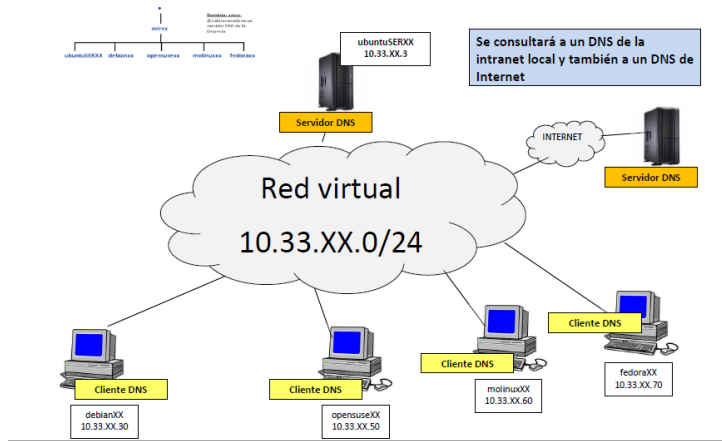


ACTIVIDAD 7 DNS

Herramientas de consulta a servidores DNS: nslookup, host, dig.

Actividad 7 : Herramientas de consulta a servidores DNS : nslookup, host, dig



Lo primero que vamos a hacer es cambiar el fichero /etc/bind/named.conf.options y vamos poner en la línea forwarders la dirección ip 8.8.8.8 y lo descomentamos

```
GNU nano 2.2.4      File: named.conf.options      Modified
options {
    directory "/var/cache/bind";

    // If there is a firewall between you and nameservers you want
    // to talk to, you may need to fix the firewall to allow multiple
    // ports to talk.  See http://www.kb.cert.org/vuls/id/800113

    // If your ISP provided one or more IP addresses for stable
    // nameservers, you probably want to use them as forwarders.
    // Uncomment the following block, and insert the addresses replacing
    // the all-0's placeholder.

    forwarders {
        8.8.8.8;
    };

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

^G Get Help  ^O WriteOut  ^R Read File  ^Y Prev Page  ^K Cut Text    ^C Cur Pos
^X Exit      ^J Justify   ^W Where Is   ^V Next Page  ^U UnCut Text ^T To Spell
```

A continuación vamos a poner el siguiente comando:

Dig www.meteoval.com, con dig nos da la dirección ip del nombre que hemos puesto

```
root@ubuntu:/etc/bind# dig www.meteoval.com

; <<>> DiG 9.7.1-P2 <<>> www.meteoval.com
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 59465
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 0

;; QUESTION SECTION:
www.meteoval.com.                IN      A

;; ANSWER SECTION:
www.meteoval.com.                5      IN      A      81.169.145.163

;; Query time: 64 msec
;; SERVER: 192.168.249.2#53(192.168.249.2)
;; WHEN: Tue May  1 23:36:56 2012
;; MSG SIZE rcvd: 50
```

Ahora utilizamos host, que nos permite dar la dirección ip del dominio que hemos puesto y también nos muestra el nombre

```
root@ubuntu:/etc/bind# host www.elpais.com
www.elpais.com is an alias for elpais.es.edgesuite.net.
elpais.es.edgesuite.net is an alias for a1749.g.akamai.net.
a1749.g.akamai.net has address 213.248.113.152
a1749.g.akamai.net has address 213.248.113.161
root@ubuntu:/etc/bind# host www.facebook.com
www.facebook.com has address 69.63.190.74
root@ubuntu:/etc/bind# host www.meteoval.com
www.meteoval.com has address 81.169.145.163
www.meteoval.com has IPv6 address 2a01:238:20a:202:1090::144
root@ubuntu:/etc/bind#
```

Con nslookup nos muestra el nombre del servidor y el alias asignado y la dirección ip

```
root@ubuntu:/etc/bind# nslookup www.elpais.com
Server:          192.168.249.2
Address:         192.168.249.2#53

Non-authoritative answer:
www.elpais.com canonical name = elpais.es.edgesuite.net.
elpais.es.edgesuite.net canonical name = a1749.g.akamai.net.
Name:   a1749.g.akamai.net
Address: 213.248.113.152
Name:   a1749.g.akamai.net
Address: 213.248.113.161

root@ubuntu:/etc/bind# nslookup www.meteoval.com
Server:          192.168.249.2
Address:         192.168.249.2#53

Non-authoritative answer:
Name:   www.meteoval.com
Address: 81.169.145.163

root@ubuntu:/etc/bind#
```

Ahora lo vamos a realizar con un cliente Molinux

Lo hacemos con dig www.meteoval.com

```
root@lales-virtual-machine: /home/lales
Archivo Editar Ver Buscar Terminal Ayuda
Paquetes TX:54 errores:0 perdidos:0 overruns:0 carrier:0
colisiones:0 long.colaTX:0
Bytes RX:4974 (4.9 KB) TX bytes:4974 (4.9 KB)

root@lales-virtual-machine:/home/lales# dig www.meteoval.com

; <<> DiG 9.7.1-P2 <<> www.meteoval.com
;; global options: +cmd
;; Got answer:
;; ->HEADER<<- opcode: QUERY, status: NOERROR, id: 55240
;; flags: qr rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 0

;; QUESTION SECTION:
www.meteoval.com.          IN      A

;; ANSWER SECTION:
www.meteoval.com.         5       IN      A       81.169.145.163

;; Query time: 4 msec
;; SERVER: 192.168.249.2#53(192.168.249.2)
;; WHEN: Tue May 1 23:52:19 2012
;; MSG SIZE rcvd: 50

root@lales-virtual-machine:/home/lales#
```

Host www.facebook.com, host www.tuenti.com, host www.meteoval.com

```
root@lales-virtual-machine:/home/lales# host www.facebook.com
www.facebook.com has address 66.220.156.32
root@lales-virtual-machine:/home/lales# host www.tuenti.com
www.tuenti.com has address 95.131.168.181
root@lales-virtual-machine:/home/lales# www.meteoval.com
www.meteoval.com: orden no encontrada
root@lales-virtual-machine:/home/lales# host meteoval.com
meteoval.com has address 81.169.145.163
meteoval.com has IPv6 address 2a01:238:20a:202:1090::144
meteoval.com mail is handled by 10 mailin.rzone.de.
root@lales-virtual-machine:/home/lales#
```



Nslookup www.elpais.com, nslookup www.meteoval.com

```
root@lales-virtual-machine:/home/lales# nslookup www.elpais.com
Server:          192.168.249.2
Address:         192.168.249.2#53

Non-authoritative answer:
www.elpais.com canonical name = elpais.es.edgesuite.net.
elpais.es.edgesuite.net canonical name = a1749.g.akamai.net.
Name:   a1749.g.akamai.net
Address: 213.248.113.152
Name:   a1749.g.akamai.net
Address: 213.248.113.161

root@lales-virtual-machine:/home/lales# nslookup www.meteoval.com
Server:          192.168.249.2
Address:         192.168.249.2#53

Non-authoritative answer:
Name:   www.meteoval.com
Address: 81.169.145.163
```

MARÍA ÁNGELES PEÑASCO SÁNCHEZ – ACTIVIDAD 7 – TEMA 3 – DNS