Despliegue aplicaciones web - Anton Blagodarnyy

Tarea 4 _ Tema 3

1.-Actualizamos el sistema e instalamos bind9

```
ubuntu@ubuntuserver2204:~$ sudo apt update
Hit:1 http://in.archive.ubuntu.com/ubuntu jammy InRelease
Get:2 http://in.archive.ubuntu.com/ubuntu jammy-updates InRelease [128 kB]
Get:3 http://in.archive.ubuntu.com/ubuntu jammy-backports InRelease [127 kB]
Get:4 http://in.archive.ubuntu.com/ubuntu jammy-security InRelease [129 kB]
Get:5 http://in.archive.ubuntu.com/ubuntu jammy-updates/main amd64 Packages [2,338 kB]
Get:6 http://in.archive.ubuntu.com/ubuntu jammy-updates/main Translation-en [389 kB]
Get:7 http://in.archive.ubuntu.com/ubuntu jammy-updates/restricted amd64 Packages [2,980 kB]
Get:8 http://in.archive.ubuntu.com/ubuntu jammy-updates/restricted Translation-en [521 kB]
Get:9 http://in.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 Packages [1,187 kB]
Get:10 http://in.archive.ubuntu.com/ubuntu jammy-updates/universe Translation-en [291 kB]
Get:11 http://in.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 Packages [30.0 kB]
Get:12 http://in.archive.ubuntu.com/ubuntu jammy-backports/universe Translation-en [16.6 kB]
Get:13 http://in.archive.ubuntu.com/ubuntu jammy-security/main amd64 Packages [2,080 kB]
Get:14 http://in.archive.ubuntu.com/ubuntu jammy-security/main Translation-en [326 kB]
Get:15 http://in.archive.ubuntu.com/ubuntu jammy-security/universe amd64 Packages [961 kB]
Get:16 http://in.archive.ubuntu.com/ubuntu jammy-security/universe Translation-en [205 kB]
Fetched 11.7 MB in 4s (2,921 kB/s)
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
279 packages can be upgraded. Run 'apt list --upgradable' to see them.
ubuntu@ubuntuserver2204:~$ sudo apt install bind9 -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
bind9 is already the newest version (1:9.18.30-0ubuntu0.22.04.2).
0 upgraded, 0 newly installed, 0 to remove and 279 not upgraded.
ubuntu@ubuntuserver2204:~$
```

2.-Configuramos el archivo named.conf.options

```
  GNU nano 6.2                          /etc/bind/named.conf.options
options {
        directory "/var/cache/bind";

    forwarders {
        8.8.8.8;
        8.8.4.4;
    };

        allow-query{any;};
        recursion no;

        dnssec-validation auto;

        auth-nxdomain no;
        listen-on-v6 {any;}
};




                              [ Wrote 16 lines ]
^G Help       ^O Write Out  ^W Where Is   ^K Cut        ^T Execute    ^C Location   M-U Undo      M-A Set Mark
^X Exit       ^R Read File  ^\ Replace    ^U Paste      ^J Justify    ^/ Go To Line M-E Redo      M-6 Copy
```
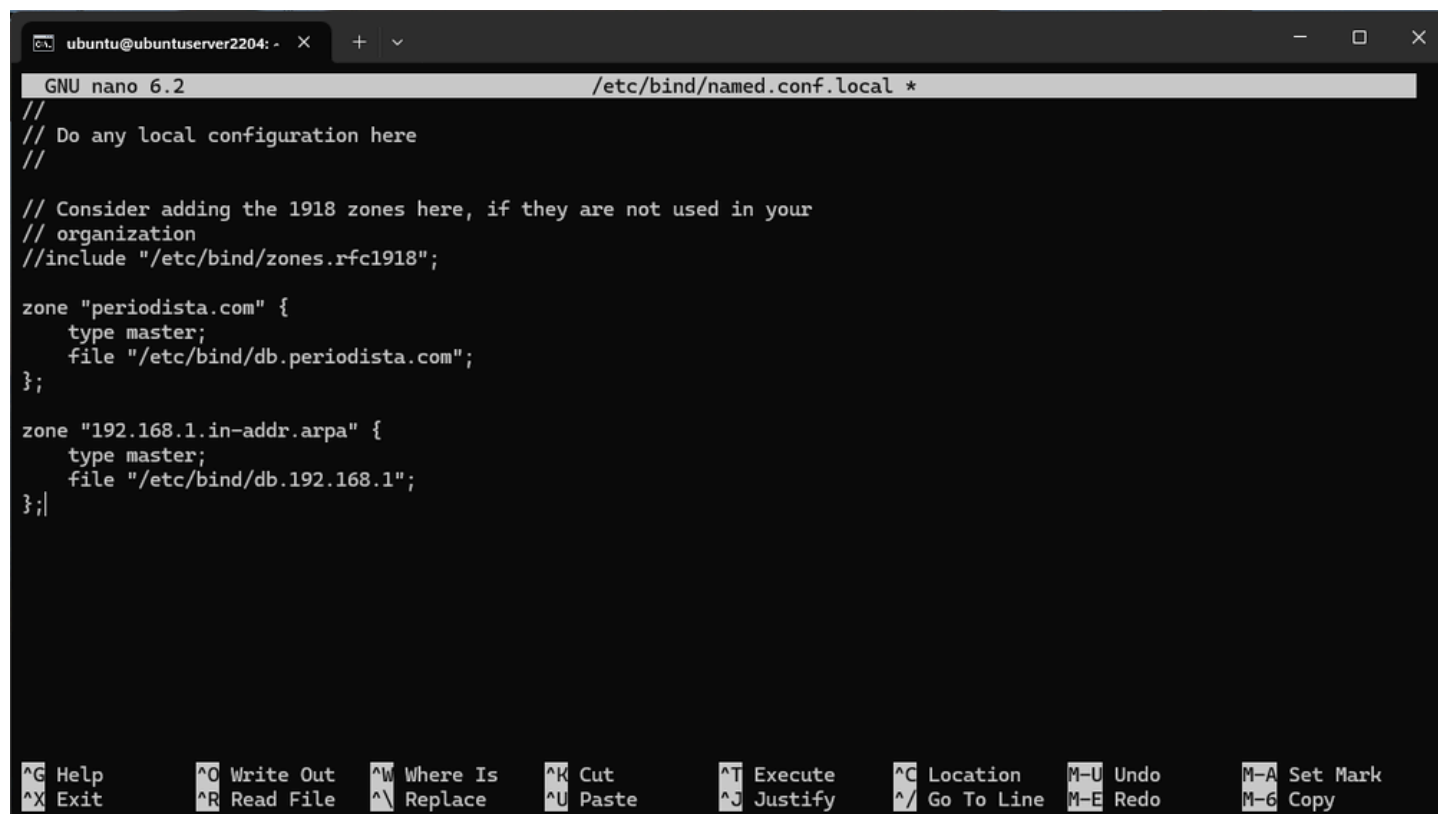
3.-Editamos el archivo named.conf.local

```
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 "periodista.com" {
    type master;
    file "/etc/bind/db.periodista.com";
};

zone "192.168.1.in-addr.arpa" {
    type master;
    file "/etc/bind/db.192.168.1";
};

^G Help       ^O Write Out   ^W Where Is    ^K Cut        ^T Execute    ^C Location    M-U Undo    M-A Set Mark
^X Exit       ^R Read File   ^\ Replace     ^U Paste      ^J Justify    ^/ Go To Line  M-E Redo    M-6 Copy
```
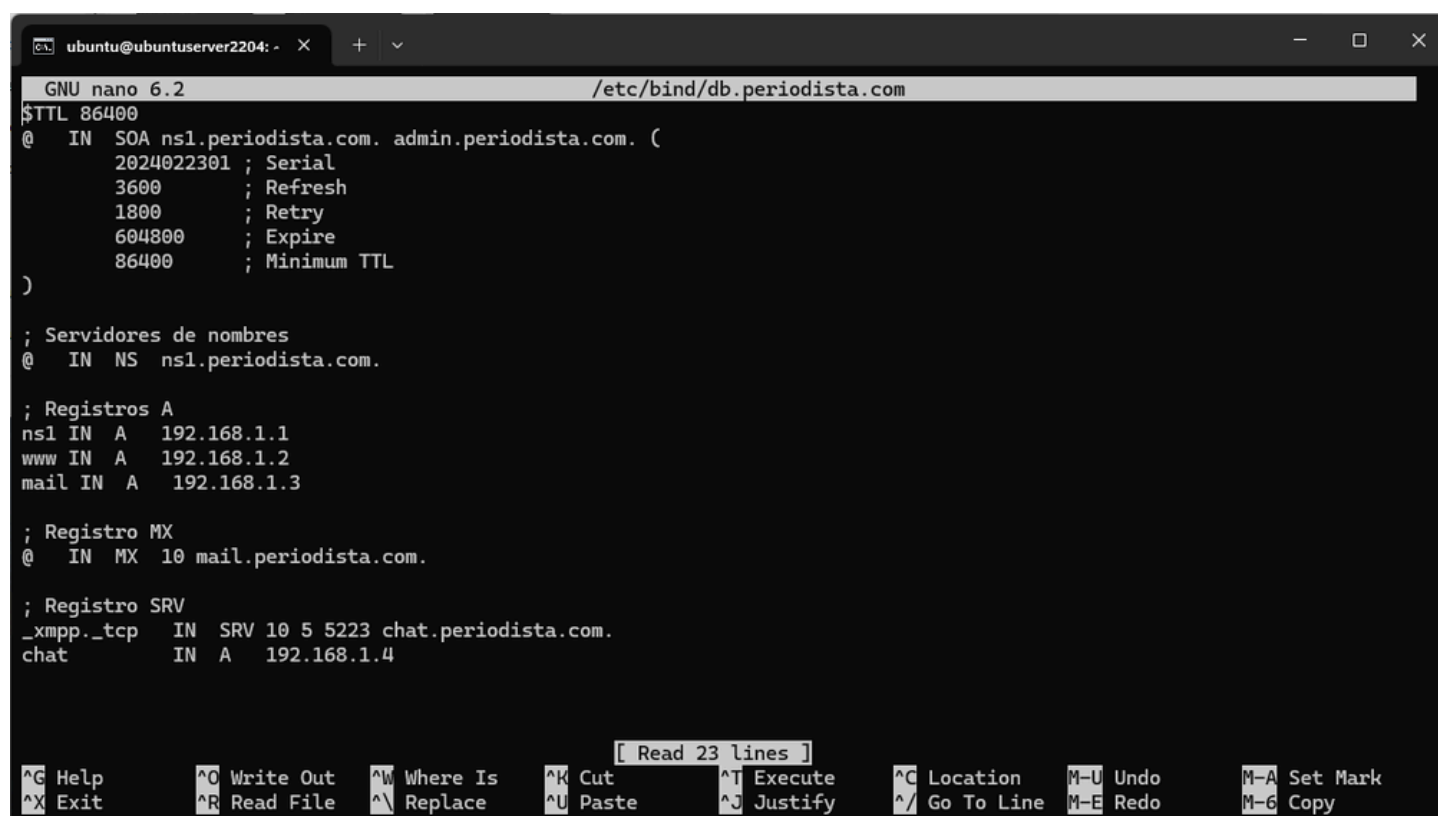
4.-Creamos el archivo db.periodista.com

```
GNU nano 6.2                          /etc/bind/db.periodista.com
$TTL 86400
@   IN  SOA ns1.periodista.com. admin.periodista.com. (
        2024022301 ; Serial
        3600        ; Refresh
        1800        ; Retry
        604800      ; Expire
        86400       ; Minimum TTL
)

; Servidores de nombres
@   IN  NS  ns1.periodista.com.

; Registros A
ns1 IN  A   192.168.1.1
www IN  A   192.168.1.2
mail IN  A   192.168.1.3

; Registro MX
@   IN  MX  10 mail.periodista.com.

; Registro SRV
_xmpp._tcp   IN  SRV 10 5 5223 chat.periodista.com.
chat         IN  A   192.168.1.4

                            [ Read 23 lines ]
^G Help       ^O Write Out   ^W Where Is    ^K Cut        ^T Execute    ^C Location    M-U Undo    M-A Set Mark
^X Exit       ^R Read File   ^\ Replace     ^U Paste      ^J Justify    ^/ Go To Line  M-E Redo    M-6 Copy
```

5.-Asi como la zona inversa.

```
  GNU nano 6.2                          /etc/bind/db.192.168.1 *
$TTL 86400
@   IN  SOA ns1.periodista.com. admin.periodista.com. (
        2024022301 ; Serial
        3600       ; Refresh
        1800       ; Retry
        604800     ; Expire
        86400      ; Minimum TTL
)

; Servidores de nombres
@   IN  NS  ns1.periodista.com.

; Registros PTR
1   IN  PTR ns1.periodista.com.
2   IN  PTR www.periodista.com.
3   IN  PTR mail.periodista.com.
4   IN  PTR chat.periodista.com.
```

```
^G Help      ^O Write Out  ^W Where Is  ^K Cut     ^T Execute  ^C Location    M-U Undo  M-A Set Mark
^X Exit      ^R Read File   ^\ Replace   ^U Paste   ^J Justify  ^/ Go To Line  M-E Redo  M-6 Copy
```

6.-Reiniciamos el servicio.

```
ubuntu@ubuntuserver2204:~$ sudo systemctl restart bind9
ubuntu@ubuntuserver2204:~$ sudo systemctl enable bind9
Failed to enable unit: Refusing to operate on alias name or linked unit file: bind9.service
ubuntu@ubuntuserver2204:~$ sudo systemctl enable named
Synchronizing state of named.service with SysV service script with /lib/systemd/systemd-sysv-install.
Executing: /lib/systemd/systemd-sysv-install enable named
ubuntu@ubuntuserver2204:~$
```

7.-Hacemos las comprobaciones.

```
ubuntu@ubuntuserver2204:~$ dig periodista.com

; <<>> DiG 9.18.30-0ubuntu0.22.04.2-Ubuntu <<>> periodista.com
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 46470
;; flags: qr rd ra; QUERY: 1, ANSWER: 2, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 65494
;; QUESTION SECTION:
;periodista.com.                     IN      A

;; ANSWER SECTION:
periodista.com.         263     IN      A       172.67.221.41
periodista.com.         263     IN      A       104.21.45.247

;; Query time: 0 msec
;; SERVER: 127.0.0.53#53(127.0.0.53) (UDP)
;; WHEN: Sun Feb 23 10:32:45 UTC 2025
;; MSG SIZE  rcvd: 75

ubuntu@ubuntuserver2204:~$
```

```
ubuntu@ubuntuserver2204:~$ nslookup periodista.com
Server:         127.0.0.53
Address:        127.0.0.53#53

Non-authoritative answer:
Name:   periodista.com
Address: 104.21.45.247
Name:   periodista.com
Address: 172.67.221.41
Name:   periodista.com
Address: 2606:4700:3036::6815:2df7
Name:   periodista.com
Address: 2606:4700:3035::ac43:dd29

ubuntu@ubuntuserver2204:~$
```

```
Name:    periodista.com
Address: 172.67.221.41
Name:    periodista.com
Address: 2606:4700:3036::6815:2df7
Name:    periodista.com
Address: 2606:4700:3035::ac43:dd29

ubuntu@ubuntuserver2204:~$ dig periodista.com MX

; <<>> DiG 9.18.30-0ubuntu0.22.04.2-Ubuntu <<>> periodista.com MX
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 252
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 65494
;; QUESTION SECTION:
;periodista.com.                 IN      MX

;; AUTHORITY SECTION:
periodista.com.        1800    IN      SOA     bristol.ns.cloudflare.com. dns.cloudflare.com. 2365457642 10000 2400 604
800 1800

;; Query time: 347 msec
;; SERVER: 127.0.0.53#53(127.0.0.53) (UDP)
;; WHEN: Sun Feb 23 10:33:43 UTC 2025
;; MSG SIZE  rcvd: 105

ubuntu@ubuntuserver2204:~$
```

```
;; QUESTION SECTION:
;periodista.com.                 IN      MX

;; AUTHORITY SECTION:
periodista.com.        1800    IN      SOA     bristol.ns.cloudflare.com. dns.cloudflare.com. 2365457642 10000 2400 604
800 1800

;; Query time: 347 msec
;; SERVER: 127.0.0.53#53(127.0.0.53) (UDP)
;; WHEN: Sun Feb 23 10:33:43 UTC 2025
;; MSG SIZE  rcvd: 105

ubuntu@ubuntuserver2204:~$ nslookup -type=MX periodista.com
Server:         127.0.0.53
Address:        127.0.0.53#53

Non-authoritative answer:
*** Can't find periodista.com: No answer

Authoritative answers can be found from:
periodista.com
        origin = bristol.ns.cloudflare.com
        mail addr = dns.cloudflare.com
        serial = 2365457642
        refresh = 10000
        retry = 2400
        expire = 604800
        minimum = 1800

ubuntu@ubuntuserver2204:~$
```

```
            mail addr = dns.cloudflare.com
            serial = 2365457642
            refresh = 10000
            retry = 2400
            expire = 604800
            minimum = 1800

ubuntu@ubuntuserver2204:~$ dig _xmpp._tcp.periodista.com SRV

; <<>> DiG 9.18.30-0ubuntu0.22.04.2-Ubuntu <<>> _xmpp._tcp.periodista.com SRV
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NXDOMAIN, id: 45765
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 1, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 65494
;; QUESTION SECTION:
;_xmpp._tcp.periodista.com.     IN      SRV

;; AUTHORITY SECTION:
periodista.com.         1800    IN      SOA     bristol.ns.cloudflare.com. dns.cloudflare.com. 2365457642 10000 2400 604
800 1800

;; Query time: 219 msec
;; SERVER: 127.0.0.53#53(127.0.0.53) (UDP)
;; WHEN: Sun Feb 23 10:35:56 UTC 2025
;; MSG SIZE  rcvd: 116

ubuntu@ubuntuserver2204:~$
```

```
;; Query time: 219 msec
;; SERVER: 127.0.0.53#53(127.0.0.53) (UDP)
;; WHEN: Sun Feb 23 10:35:56 UTC 2025
;; MSG SIZE  rcvd: 116

ubuntu@ubuntuserver2204:~$ nslookup -type=SRV _xmpp._tcp.periodista.com
Server:         127.0.0.53
Address:        127.0.0.53#53

** server can't find _xmpp._tcp.periodista.com: NXDOMAIN

ubuntu@ubuntuserver2204:~$ dig -x 192.168.56.1

; <<>> DiG 9.18.30-0ubuntu0.22.04.2-Ubuntu <<>> -x 192.168.56.1
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NXDOMAIN, id: 18889
;; flags: qr rd ra; QUERY: 1, ANSWER: 0, AUTHORITY: 0, ADDITIONAL: 1

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 65494
;; QUESTION SECTION:
;1.56.168.192.in-addr.arpa.     IN      PTR

;; Query time: 23 msec
;; SERVER: 127.0.0.53#53(127.0.0.53) (UDP)
;; WHEN: Sun Feb 23 10:36:47 UTC 2025
;; MSG SIZE  rcvd: 54

ubuntu@ubuntuserver2204:~$
```