

Despliegue aplicaciones web - Anton Blagodarnyy

Tarea 5 _ Tema 3

1.-Creamos e instalamos bind9 en el servidor esclavo.

```
ubuntu@ubuntuserver2204: - ×
  System information as of Mon Mar 3 04:30:14 PM UTC 2025
                           0.20458984375
 System load:
 Usage of /:
                           6.0% of 97.87GB
 Memory usage:
                           11%
                           0%
 Swap usage:
                           123
 Processes:
 Users logged in:
 IPv4 address for enp0s3: 10.0.2.15
  IPv6 address for enp0s3: fd00::a00:27ff:fe0b:1b85
 IPv4 address for enp0s8: 192.168.56.102
 * Strictly confined Kubernetes makes edge and IoT secure. Learn how MicroK8s
   just raised the bar for easy, resilient and secure K8s cluster deployment.
  https://ubuntu.com/engage/secure-kubernetes-at-the-edge
130 updates can be applied immediately.
To see these additional updates run: apt list --upgradable
The list of available updates is more than a week old.
To check for new updates run: sudo apt update
New release '24.04.2 LTS' available.
Run 'do-release-upgrade' to upgrade to it.
Last login: Mon Mar 3 16:27:52 2025
ubuntu@ubuntuserver2204:~$ sudo apt install bind9 bind9-utils bind9-doc -y
```

2.-En el servidor maestro agregamos la configuracion del servidor esclavo.

```
ubuntu@ubuntuserver2204: ~ ×
 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";
acl dns-slaves {
    192.168.56.102; # IP del servidor esclavo
3;
                                                                                               M–U Undo
M–E Redo
^G Help
                ^O Write Out
                                                ^K Cut
                                  Where Is
                                                                  Execute
                                                                                ^C Location
                  Read File
                                  Replace
                                                                                  Go To Line
   Exit
                                                  Paste
                                                                  Justify
```

3.-Tocamos la registros del servidor para agregarles los del esclavo.

```
ubuntu@ubuntuserver2204: - ×
 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.
IN NS ns2.periodista.com.
@
 Registros A
ns1 IN A
             192.168.1.1
             192.168.1.2
ns2 IN A
www IN A
             192.168.1.2
mail IN A
             192.168.1.3
  Registro MX
    IN MX 10 mail.periodista.com.
; Registro SRV
                 SRV 10 5 5223 chat.periodista.com.
             IN
_xmpp._tcp
             IN A
                     192.168.1.4
                                                                                                 M–U Undo
M–E Redo
^G Help
                ^O Write Out
                                   Where Is
                                                 ^K Cut
                                                                 ^T Execute
                                                                                 ^C Location
                   Read File
   Exit
                ^R
                                   Replace
                                                   Paste
                                                                    Justify
                                                                                    Go To Line
                                                                                                     Redo
```

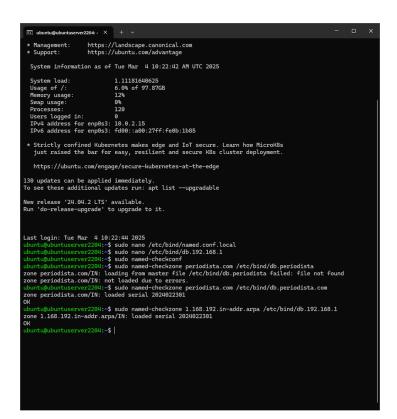
4.-Corregimos la configuracion. Faltaba la linea de allow-transfer {dns-slaves}.



5.-Agregamos los registros al archivo de configuración de la zona inversa.



6.-Comprobamos la sintaxis.



7.-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
```

8.-Configuramos el servidor esclavo.

```
GNU nano 6.2
                                        /etc/bind/named.con+.local
zone "periodista.com"
    type slave;
                        # Servidor esclavo
    file "db.periodista.com"; # Archivo que se creará con la transferencia
    masters { 192.168.56.102; }; # IP del servidor maestro
};
zone "1.168.192.in-addr.arpa" {
    type slave;
    file "db.192.168.1";
    masters { 192.168.1.1; };
   Do any local configuration here
  Consider adding the 1918 zones here, if they are not used in your
// organization
//include "/etc/bind/zones.rfc1918";
```

9.-Corregimos la configuracion del servidor maestro. El apartado del acl debe ir antes del de la zona.

```
ubuntu@ubuntuserver2204: - ×
 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";
acl dns-slaves {
    192.168.56.103; # IP del servidor esclavo
};
zone "periodista.com" {
    type master;
   file "/etc/bind/db.periodista.com";
        allow-transfer { dns-slaves; };
};
zone "192.168.1.in-addr.arpa" {
    type master;
    file "/etc/bind/db.192.168.1";
};
```

10.-Despues de reinicar el servidor esclavo. Comprobamos que se ha transferido el archivo.

```
ubuntu@ubuntuserver2204:~$ ls /var/cache/bind/
db.periodista.com managed-keys.bind managed-keys.bind.jnl
ubuntu@ubuntuserver2204:~$ A
```

11.-Hacemos dig dentro del servidor esclavo.

```
ubuntu@ubuntuserver2204:~$ dig @127.0.0.1 www.periodista.com
 <<>> DiG 9.18.30-Oubuntu0.22.04.2-Ubuntu <<>> @127.0.0.1 www.periodista.co
 (1 server found)
 ; global options: +cmd
  Got answer:
  ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 47134
;; flags: qr aa rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 0, ADDITIONAL: 1
;; OPT PSEUDOSECTION:
 EDNS: version: 0, flags:; udp: 1232
COOKIE: laee21cb2d775d500100000067c6da0732b9e394ea4304d2 (good)
;; QUESTION SECTION:
;www.periodista.com.
                                ΙN
;; ANSWER SECTION:
www.periodista.com.
                        86400
                                ΙN
                                        Α
                                                192.168.1.2
;; Query time: 0 msec
;; SERVER: 127.0.0.1#53(127.0.0.1) (UDP)
;; WHEN: Tue Mar 04 10:46:31 UTC 2025
   MSG SIZE rcvd: 91
```

12.-Apagamos el servidor maestro.

```
ubuntu@ubuntuserver2204:~$ sudo systemctl stop bind9
ubuntu@ubuntuserver2204:~$
```

13.-Y desde el cliente comprobamos que funciona el servidor esclavo.

C:\Users\anton>nslookup www.periodista.com 192.168.56.103

Servidor: UnKnown Address: 192.168.56.103

Nombre: www.periodista.com Address: 192.168.1.2