

Despliegue aplicaciones web - Anton Blagodarnyy

Tarea 1 \_ Tema 3

#### 1.-Actualizamos el sistema.

```
×
 ubuntu@ubuntuserver2204: - ×
ubuntu@ubuntuserver2204:~$ sudo apt-get update
Get:1 https://download.docker.com/linux/ubuntu focal InRelease [57.7 kB]
Get:2 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages [54.1 kB]
Hit:3 http://in.archive.ubuntu.com/ubuntu jammy InRelease
Get: 4 http://in.archive.ubuntu.com/ubuntu jammy-updates InRelease [128 kB]
Get:5 http://in.archive.ubuntu.com/ubuntu jammy-backports InRelease [127 kB]
Get:6 http://in.archive.ubuntu.com/ubuntu jammy-security InRelease [129 kB]
Get:7 http://in.archive.ubuntu.com/ubuntu jammy-updates/main amd64 Packages [2,276 kB]
Get:8 http://in.archive.ubuntu.com/ubuntu jammy-updates/main Translation-en [382 kB]
Get:9 http://in.archive.ubuntu.com/ubuntu jammy-updates/restricted amd64 Packages [2,877 kB]
Get:10 http://in.archive.ubuntu.com/ubuntu jammy-updates/restricted Translation-en [501 kB]
Get:11 http://in.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 Packages [1,182 kB]
Get:12 http://in.archive.ubuntu.com/ubuntu jammy-updates/universe Translation-en [289 kB]
Get:13 http://in.archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 Packages [44.5 kB]
Get:14 http://in.archive.ubuntu.com/ubuntu jammy-updates/multiverse Translation-en [11.5 kB]
Get:15 http://in.archive.ubuntu.com/ubuntu jammy-backports/main amd64 Packages [67.7 kB]
Get:16 http://in.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 Packages [28.9 kB]
Get:17 http://in.archive.ubuntu.com/ubuntu jammy-security/main amd64 Packages [2,041 kB]
Get:18 http://in.archive.ubuntu.com/ubuntu jammy-security/main Translation-en [321 kB]
Get:19 http://in.archive.ubuntu.com/ubuntu jammy-security/restricted amd64 Packages [2,772 kB]
Get:20 http://in.archive.ubuntu.com/ubuntu jammy-security/restricted Translation-en [484 kB]
Get:21 http://in.archive.ubuntu.com/ubuntu jammy-security/universe amd64 Packages [959 kB]
Get:22 http://in.archive.ubuntu.com/ubuntu jammy-security/universe Translation-en [204 kB]
Get:23 http://in.archive.ubuntu.com/ubuntu jammy-security/multiverse amd64 Packages [37.6 kB]
Fetched 15.0 MB in 6s (2,577 kB/s)
Reading package lists... Done
W: https://download.docker.com/linux/ubuntu/dists/focal/InRelease: Key is stored in legacy trusted.gpg
 keyring (/etc/apt/trusted.gpg), see the DEPRECATION section in apt-key(8) for details.
ubuntu@ubuntuserver2204:~$
```

#### 2.-Instalamos la herramienta.

```
×
ubuntu@ubuntuserver2204: ~ ×
ubuntu@ubuntuserver2204:~$ sudo apt install bind9 bind9utils
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following packages were automatically installed and are no longer required:
 libflashrom1 libftdi1-2
Use 'sudo apt autoremove' to remove them.
The following additional packages will be installed:
 bind9-dnsutils bind9-host bind9-libs bind9-utils dns-root-data
Suggested packages:
 bind-doc resolvconf
The following NEW packages will be installed:
 bind9 bind9-utils bind9utils dns-root-data
The following packages will be upgraded:
```

### 3.-Actualizamos el fichero named.conf.options

```
ubuntu@ubuntuserver2204: - ×
GNU nano 6.2
                                      /etc/bind/named.conf.options *
options {
       directory "/var/cache/bind";
   listen-on port 53 { 192.168.x.x; }; // Reemplaza 192.168.x.x por la IP interna del servidor.
                                         // Deshabilita la resolución recursiva.
    recursion no;
   allow-transfer { none; };
                                        // Bloquea transferencias de zona.
    version "No disponible";
                                        // Oculta la versión de 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 {
       //
// };
               0.0.0.0;
        //-----
        // If BIND logs error messages about the root key being expired,
        // you will need to update your keys. See https://www.isc.org/bind-keys
       dnssec-validation auto;
       listen-on-v6 { any; };
```

### 4.-Actualizamos el archivo /bind9

```
GNU nano 6.2 /etc/default/bind9 *

OPTIONS="-4 -u bind"
```

## 5.-Configuramos 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 "antonBlagodarnyyTareal.com" {
    type master;
    file "/etc/bind/zones/db.antonBlagodarnyyTareal.com";
};
```

6.-Creamos el archivo de la zona directa con la configuracion indicada.

```
ubuntu@ubuntuserver2204: - X
 GNU nano 6.2
                                /etc/bind/zones/db.nombreApellidoTarea1.com *
                      ; Tiempo de vida en segundos de las respuestas DNS
$TTL 604800
$ORIGIN antonBlagodarnyyTareal.com. ; Dominio base para los registros de esta zona
@ IN SOA ns1.antonBlagodarnyyTarea1.com. admin.antonBlagodarnyyTarea1.com. (
                     ; Serial: 16/01/2025, primera modificación
   1601202501
    604800
                     ; Refresh: 1 semana
                     ; Retry: 1 día
    86400
                       Expire: 4 semanas
    2419200
                     ; Negative Cache TTL: 1 semana
    604800 )
 Name servers - registros NS
@ IN NS ns1
                   ; Indica que ns1 es el servidor autoritativo de la zona
; Registros tipo A - direcciones IP asociadas a nombres
ns1 IN A 192.168.56.101 ; Reemplaza con la IP de tu servidor DNS
www IN A 192.168.56.101 ; Reemplaza con la IP de tu servidor Apache
```

7.-Aqui se ve como se ha creado la carpeta y pegado en el sitio indicado.

8.-Comprobamos los errores sintacticos.

```
ubuntu@ubuntuserver2204:~$ sudo named-checkconf
ubuntu@ubuntuserver2204:~$

ubuntu@ubuntuserver2204:~$

ubuntu@ubuntuserver2204:~$ sudo named-checkzone antonBlagodarnyyTareal.com /etc/bind/zones/db.nombreAp
ellidoTareal.com
zone antonBlagodarnyyTareal.com/IN: loaded serial 1601202501
OK
ubuntu@ubuntuserver2204:~$
```

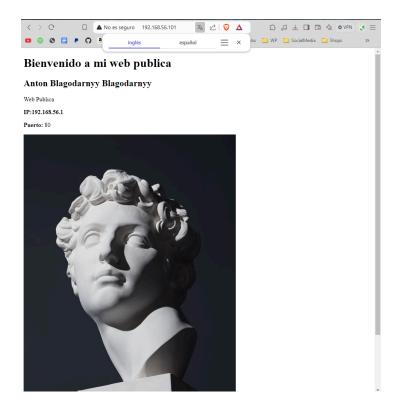
9.-Configuramos la pagina web para que escuche por el puerto indicado.

```
ubuntu@ubuntuserver2204: / 🗡
 GNU nano 6.2
                                                   tarea2_webpublica.conf *
<VirtualHost *:80>
         # The ServerName directive sets the request scheme, hostname and port that # the server uses to identify itself. This is used when creating # redirection URLs. In the context of virtual hosts, the ServerName # specifies what hostname must appear in the request's Host: header to
         # match this virtual host. For the default virtual host (this file) this
         # value is not decisive as it is used as a last resort host regardless.
         # However, you must set it for any further virtual host explicitly.
         ServerName www.antonBlagodarnyyTareal.com
         ServerAlias webpublica.es
         ServerAdmin webmaster@localhost
         DocumentRoot /var/www/webPublica
         # Available loglevels: trace8, ..., trace1, debug, info, notice, warn,
         # error, crit, alert, emerg.
         # It is also possible to configure the loglevel for particular
         # modules, e.g.
         #LogLevel info ssl:warn
         ErrorLog ${APACHE_LOG_DIR}/error.log
         CustomLog ${APACHE_LOG_DIR}/access.log combined
         # For most configuration files from conf-available/, which are
         # enabled or disabled at a global level, it is possible to
         # include a line for only one particular virtual host. For example the
# following line enables the CGI configuration for this host only
         # after it has been globally disabled with "a2disconf".
         #Include conf-available/serve-cgi-bin.conf
</VirtualHost>
# vim: syntax=apache ts=4 sw=4 sts=4 sr noet
```

10.-Reiniciamos el servidor

```
ubuntu@ubuntuserver2204:/etc/apache2/sites-available$ sudo a2ensite tarea2_webpublica.conf
Enabling site tarea2_webpublica.
To activate the new configuration, you need to run:
  systemctl reload apache2
ubuntu@ubuntuserver2204:/etc/apache2/sites-available$ systemctl reload apache2
    AUTHENTICATING FOR org.freedesktop.systemd1.manage-units =
Authentication is required to reload 'apache2.service'.
Authenticating as: Ubuntu (ubuntu)
Password:
   = AUTHENTICATION COMPLETE ===
ubuntu@ubuntuserver2204:/etc/apache2/sites-available$ systemctl server status apache2
Unknown command verb server.
ubuntu@ubuntuserver2204:/etc/apache2/sites-available$ systemctl status apache2
apache2.service - The Apache HTTP Server
     Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor preset: enabled)
     Active: active (running) since Thu 2025-01-16 11:12:31 UTC; 28min ago
      Docs: https://httpd.apache.org/docs/2.4/
    Process: 2955 ExecReload=/usr/sbin/apachectl graceful (code=exited, status=0/SUCCESS)
  Main PID: 789 (apache2)
      Tasks: 6 (limit: 2226)
     Memory: 15.8M
        CPÚ: 319ms
     CGroup: /system.slice/apache2.service
              - 789 /usr/sbin/apache2 -k start
               -2959 /usr/sbin/apache2 -k start
              -2960 /usr/sbin/apache2 -k start
              -2961 /usr/sbin/apache2 -k start
              -2962 /usr/sbin/apache2 -k start
             __2963 /usr/sbin/apache2 -k start
Jan 16 11:12:31 ubuntuserver2204 systemd[1]: Starting The Apache HTTP Server...
Jan 16 11:12:31 ubuntuserver2204 systemd[1]: Started The Apache HTTP Server.
Jan 16 11:12:31 ubuntuserver2204 systemd[1]: Reloading The Apache HTTP Server...
Jan 16 11:12:32 ubuntuserver2204 systemd[1]: Reloaded The Apache HTTP Server.
Jan 16 11:40:16 ubuntuserver2204 systemd[1]: Reloading The Apache HTTP Server...
Jan 16 11:40:16 ubuntuserver2204 systemd[1]: Reloaded The Apache HTTP Server.
ubuntu@ubuntuserver2204:/etc/apache2/sites-available$
```

### 11.-Comprobamos que la ip funciona



# 12.-Corregimos el archivo de zona.

```
ubuntu@ubuntuserver2204: / ×
 GNU nano 6.2
                               /etc/bind/zones/db.antonBlagodarnyyTarea1.com *
 BIND data file for local loopback interfac
$TTL
        604800
                        ns1.antonBlagodarnyyTarea1.com. admin.antonBlagodarnyyTarea1.com. (
        ΙN
                SOA
                              2024011601; Serial (use a date-based format and increment for each chab
                                         ; Refresh
                         604800
                          86400
                                         ; Retry
                        2419200
                                          Expire
                         604800 )
                                         ; Negative Cache TTL
 Name servers
                        ns1.antonBlagodarnyyTarea1.com.
        ΙN
                NS
 A records
ns1
        IN
                        192.168.56.101
                                          ; Replace with your DNS server's IP
                Α
                                          ; Replace with your Apache server's IP
        IN
                        192.168.56.101
                Α
www
 Optional: Add more A records if needed for other services
```

13.-Corregimos el archivo de configuracion.

```
ः. ubuntu@ubuntuserver2204:/
 GNU nano 6.2
                                       /etc/bind/named.conf.options *
options {
       directory "/var/cache/bind";
   listen-on port 53 {127.0.0.1; 192.168.56.101; }; // Reemplaza 192.168.x.x por la IP interna dela recursion no; // Deshabilita la resolución recursiva.
                                         // Bloquea transferencias de zona.
   allow-transfer { none; };
    version "No disponible";
                                         // Oculta la versión de Bind.
forwarders {
    8.8.8.8;
    8.8.4.4;
};
        // 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 {
               0.0.0.0;
        //
// };
        // If BIND logs error messages about the root key being expired,
        // you will need to update your keys. See https://www.isc.org/bind-keys
        dnssec-validation auto;
       listen-on-v6 { any; };
};
```

14.-Con el comando nslookup comprobamos la resolucion del dominio.

```
C:\Users\anton>nslookup antonBlagodarnyyTareal.com 192.168.56.101

Servidor: UnKnown
Address: 192.168.56.101

Nombre: antonBlagodarnyyTareal.com
Address: 192.168.56.101

C:\Users\anton>
```