

## Tarea #986 Realizar la instalación de los servicios de red en el servidor Linux (web, dB, DNS, proxy, VPN, FTP)

### WEB

The screenshot shows a Linux desktop with a snow-capped mountain background. A terminal window is open, displaying the command `sudo apt-get install wget` and its output. The output indicates that `wget` is already installed at version 1.20.3-1ubuntu2. The desktop environment includes a taskbar at the bottom with various application icons and a system tray showing the date and time as 04:15 p.m. on 06/12/2023.

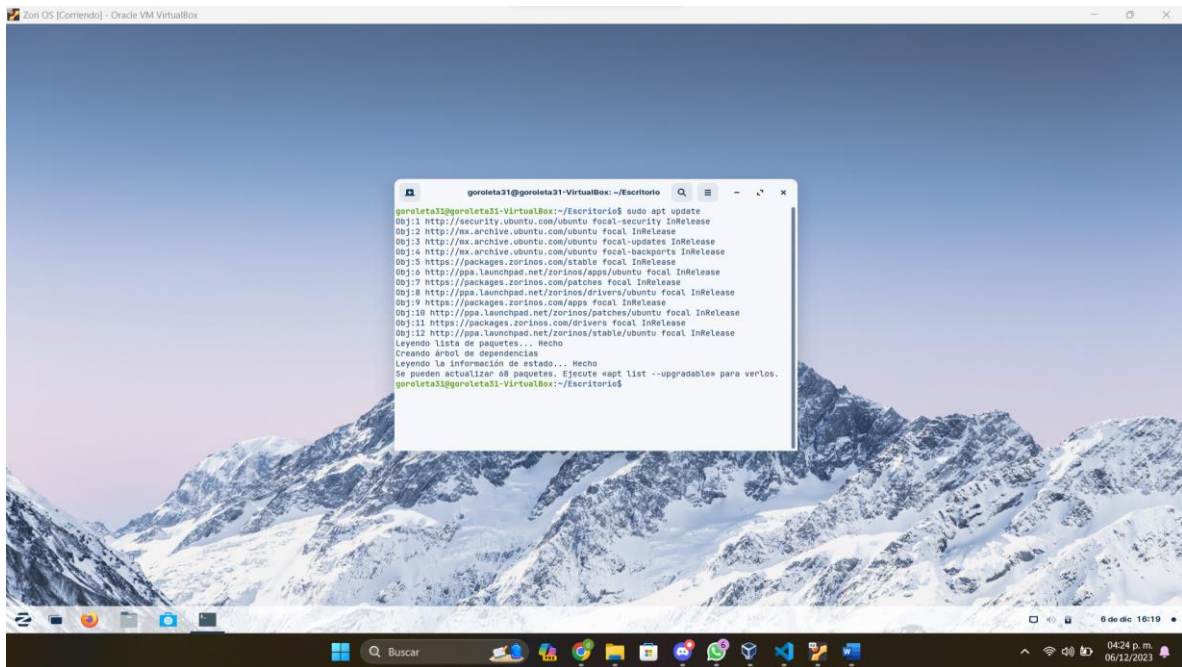
```
goroleta31@goroleta31-VirtualBox: ~/Escritorio
goroleta31@goroleta31-VirtualBox:~/Escritorio$ sudo apt-get install wget
[sudo] contraseña para goroleta31:
Leyendo lista de paquetes... Hecho
Creando árbol de dependencias
Leyendo la información de estado... Hecho
wget ya está en su versión más reciente (1.20.3-1ubuntu2).
Fijado wget como instalado manualmente.
Los paquetes indicados a continuación se instalarán de forma automática y ya no son necesarios.
linux-headers-5.15.0-78-generic linux-hw-5.15-headers-5.15.0-78
linux-image-5.15.0-78-generic linux-modules-5.15.0-78-generic
linux-modules-extra-5.15.0-78-generic
Utilice 'sudo apt autoremove' para eliminarlos.
0 actualizados, 0 nuevos se instalarán, 0 para eliminar y 08 no actualizados.
goroleta31@goroleta31-VirtualBox:~/Escritorio$
```

### DB

The screenshot shows the same Linux desktop environment as the previous one. The terminal window now displays the output of the `mysql-server` installation. It shows the configuration of the MySQL server, including the creation of the `/etc/mysql/mysql.conf` file and the creation of the `mysql` service. The output indicates that the server is now running as pid 3364. The desktop environment and system tray are the same as in the previous screenshot.

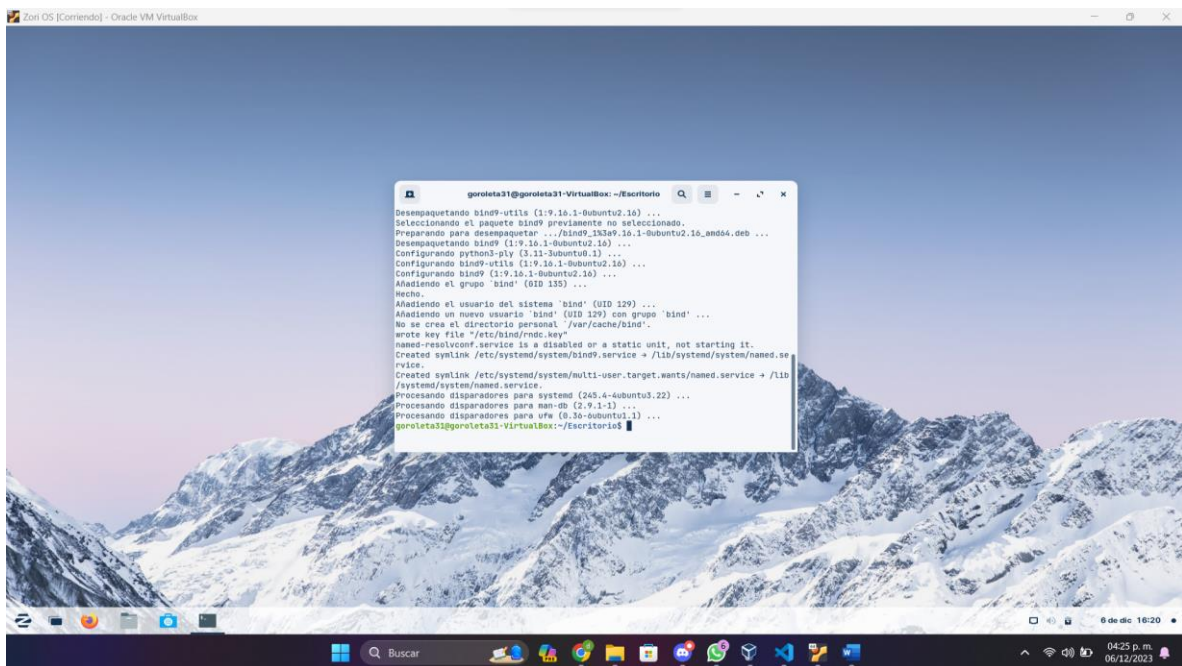
```
goroleta31@goroleta31-VirtualBox: ~/Escritorio
reading /usr/share/mecab/dic/ipadic/Conjunction.csv ... 171
reading /usr/share/mecab/dic/ipadic/Adj.csv ... 27210
emitting double-array: 100% [#####]
reading /usr/share/mecab/dic/ipadic/matrix.def ... 1310x1310
emitting matrix : 100% [#####]
done!
update-alternatives: utilizando /var/lib/mecab/dic/ipadic-utf8 para proveer /var
/lib/mecab/dic/gojian (mecab-dictionary) en modo automatico
Configurando mysql-server-8.0 (8.0.35-0ubuntu0.20.04.1) ...
update-alternatives: utilizando /etc/mysql/mysql.conf para proveer /etc/mysql/my.
conf (my.cnf) en modo automatico
Renaming removed key_buffer and myisam-recover options (if present)
mysql will log errors to /var/log/mysql/error.log
mysql is running as pid 3364
Created symlink /etc/systemd/system/multi-user.target.wants/mysql.service + /lib
/systemd/system/mysql.service.
Configurando mysql-server (8.0.35-0ubuntu0.20.04.1) ...
Procesando disparadores para systemd (245.4-0ubuntu3.22) ...
Procesando disparadores para nan-dm (2.9.1-1) ...
Procesando disparadores para libc-bin (2.31-0ubuntu9.12) ...
goroleta31@goroleta31-VirtualBox:~/Escritorio$
```

## DNS



The screenshot shows a Zorin OS desktop environment. A terminal window is open, displaying the output of the command `sudo apt update`. The output lists several package sources and their release information, including `http://security.ubuntu.com/ubuntu focal-security InRelease`, `http://mx.archive.ubuntu.com/ubuntu focal InRelease`, `http://mx.archive.ubuntu.com/ubuntu focal-updates InRelease`, `http://mx.archive.ubuntu.com/ubuntu focal-backports InRelease`, `https://packages.zorinos.com/stable focal InRelease`, `http://ppa.launchpad.net/zorinos/apps/ubuntu focal InRelease`, `https://packages.zorinos.com/patches focal InRelease`, `http://ppa.launchpad.net/zorinos/drivers/ubuntu focal InRelease`, `https://packages.zorinos.com/apps focal InRelease`, `http://ppa.launchpad.net/zorinos/patches/ubuntu focal InRelease`, `https://packages.zorinos.com/drivers focal InRelease`, and `http://ppa.launchpad.net/zorinos/stable/ubuntu focal InRelease`. The terminal also shows the progress of reading the package list, creating a dependency tree, and reading the state information.

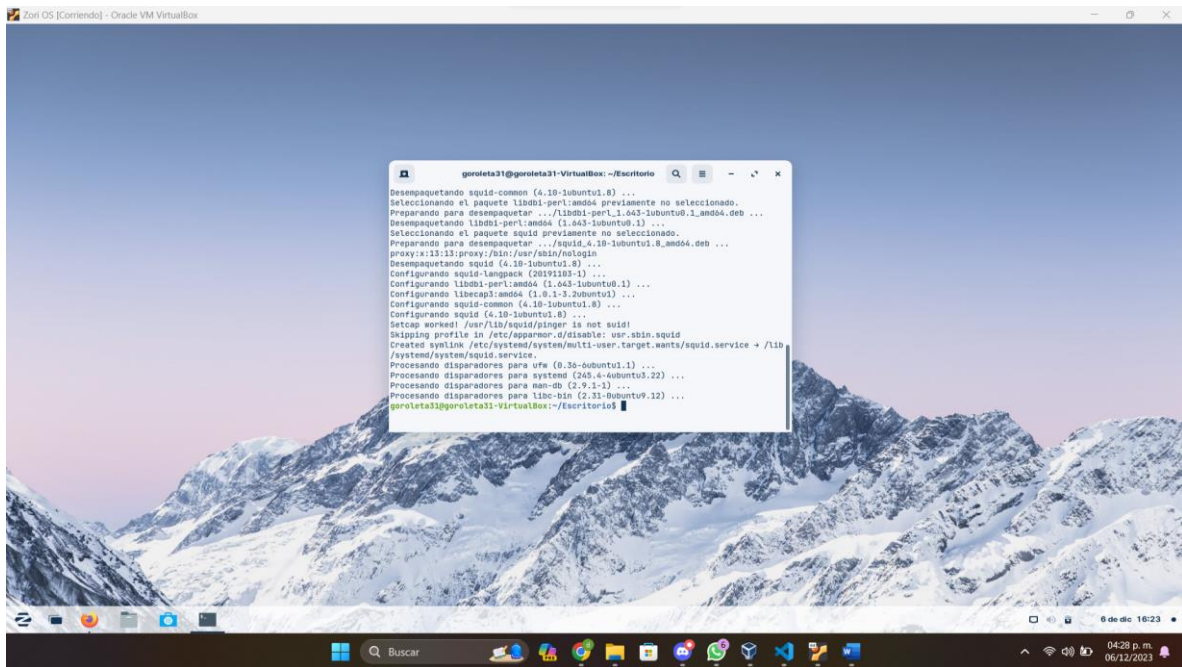
```
goroletal3@goroletal3-VirtualBox: ~/Escritorio
goroletal3@goroletal3-VirtualBox:~$ sudo apt update
Obj:1 http://security.ubuntu.com/ubuntu focal-security InRelease
Obj:2 http://mx.archive.ubuntu.com/ubuntu focal InRelease
Obj:3 http://mx.archive.ubuntu.com/ubuntu focal-updates InRelease
Obj:4 http://mx.archive.ubuntu.com/ubuntu focal-backports InRelease
Obj:5 https://packages.zorinos.com/stable focal InRelease
Obj:6 http://ppa.launchpad.net/zorinos/apps/ubuntu focal InRelease
Obj:7 https://packages.zorinos.com/patches focal InRelease
Obj:8 http://ppa.launchpad.net/zorinos/drivers/ubuntu focal InRelease
Obj:9 https://packages.zorinos.com/apps focal InRelease
Obj:10 http://ppa.launchpad.net/zorinos/patches/ubuntu focal InRelease
Obj:11 https://packages.zorinos.com/drivers focal InRelease
Obj:12 http://ppa.launchpad.net/zorinos/stable/ubuntu focal InRelease
Leyendo lista de paquetes... Hecho
Creando árbol de dependencias
Leyendo la información de estado... Hecho
Se pueden actualizar 68 paquetes. Ejecute «apt list --upgradable» para verlos.
goroletal3@goroletal3-VirtualBox:~$
```



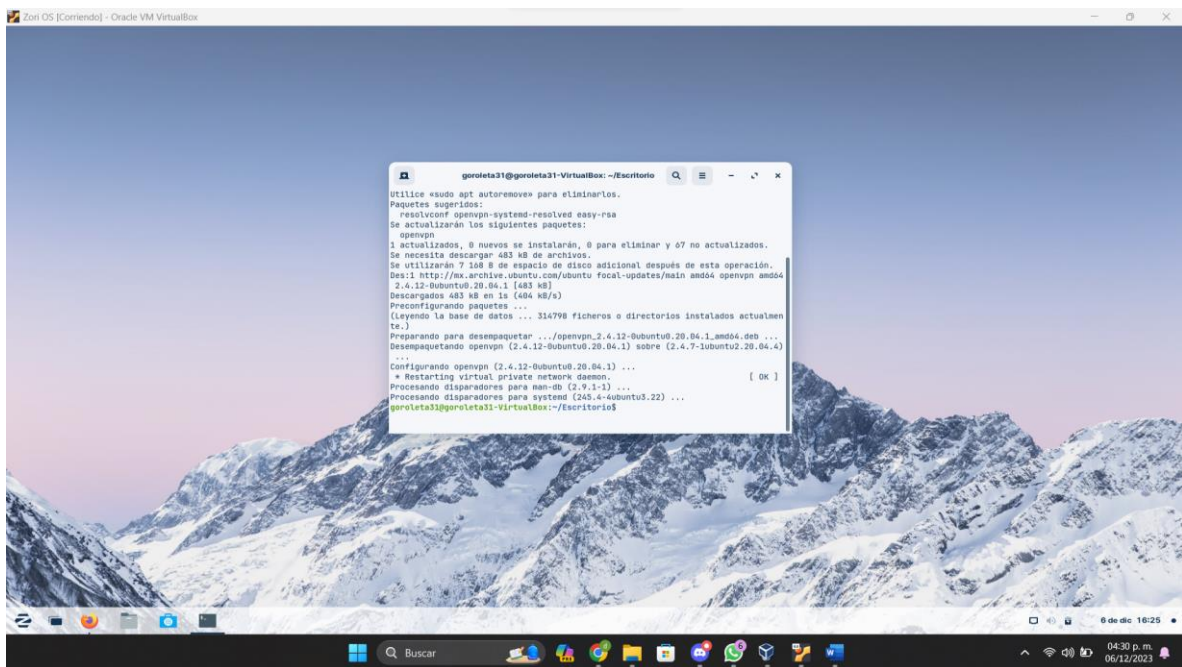
The screenshot shows a Zorin OS desktop environment. A terminal window is open, displaying the output of the command `sudo apt install bind9`. The output shows the progress of installing the `bind9` package, including the selection of the package, the preparation for installation, the configuration of the package, the creation of the `bind` group, the addition of the `bind` user, the creation of the `bind` directory, the creation of the `bind` service, the creation of the `bind` target, the processing of the `bind` service, the processing of the `bind` target, and the processing of the `bind` service.

```
goroletal3@goroletal3-VirtualBox: ~/Escritorio
goroletal3@goroletal3-VirtualBox:~$ sudo apt install bind9
Desempaquetando bind9-utils (1:9.16.1-0ubuntu2.16) ...
Seleccionando el paquete bind9 previamente no seleccionado.
Preparando para desempaquetar .../bind9_1:9.16.1-0ubuntu2.16_amd64.deb ...
Desempaquetando bind9 (1:9.16.1-0ubuntu2.16) ...
Configurando python3-ply (3.11-0ubuntu1) ...
Configurando bind9-utils (1:9.16.1-0ubuntu2.16) ...
Configurando bind9 (1:9.16.1-0ubuntu2.16) ...
Añadiendo el grupo 'bind' (GID 135) ...
Hecho.
Añadiendo el usuario del sistema 'bind' (UID 129) ...
Añadiendo un nuevo usuario 'bind' (UID 129) con grupo 'bind' ...
No se crea el directorio personal '/var/cache/bind'.
wrote key file '/etc/bind/rndc.key'
named-resolvconf.service is a disabled or a static unit, not starting it.
Created symlink /etc/systemd/system/bind9.service → /lib/systemd/system/named.service.
Created symlink /etc/systemd/system/multi-user.target.wants/named.service → /lib/systemd/system/named.service.
Procesando disparadores para systemd (249.4-0ubuntu3.22) ...
Procesando disparadores para man-db (2.9.1-1) ...
Procesando disparadores para ufw (0.36-0ubuntu1) ...
goroletal3@goroletal3-VirtualBox:~$
```

## PROXY

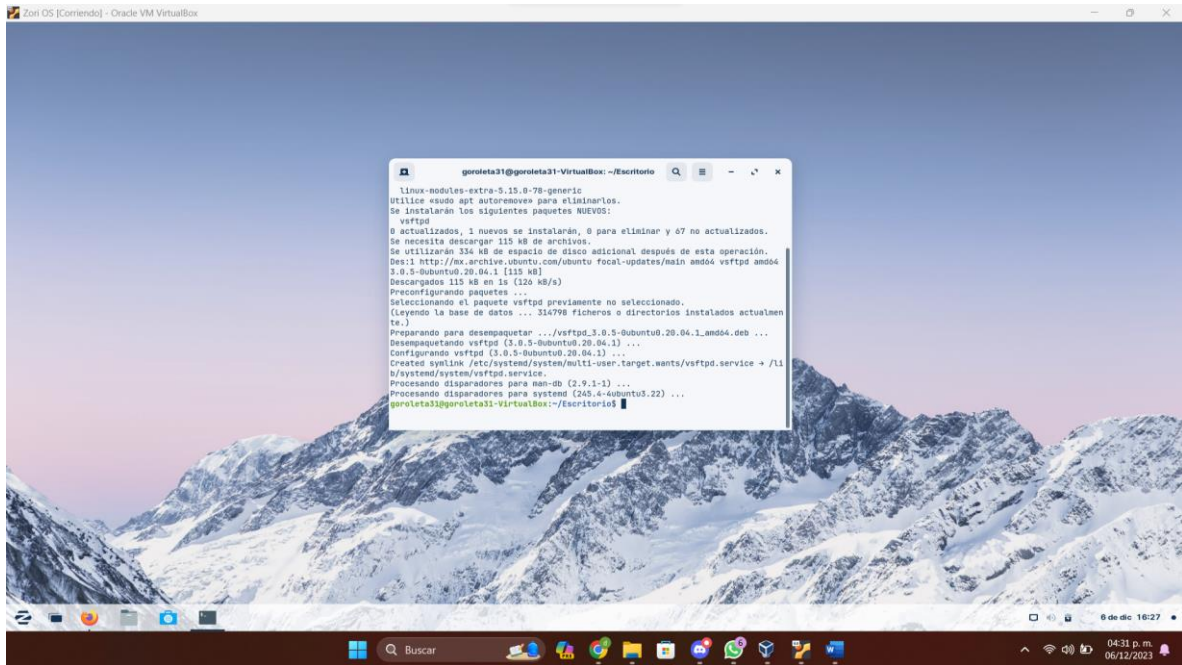


## VPN





## FTP



The screenshot shows a Zorin OS desktop environment. A terminal window is open in the center, displaying the output of the command `sudo apt autoremove` and the installation of `vsftpd`. The terminal output includes the following text:

```
gorolota31@gorolota31-VirtualBox: ~/Escritorio
Linux-modules-extra-5.15.0-78-generic
Utilice «sudo apt autoremove» para eliminarlos.
Se instalarán los siguientes paquetes NUEVOS:
vsftpd
0 actualizados, 1 nuevos se instalarán, 0 para eliminar y 07 no actualizados.
Se necesita descargar 115 kB de archivos.
Se utilizarán 334 kB de espacio de disco adicional después de esta operación.
Des:1 http://mx.archive.ubuntu.com/ubuntu focal-updates/main amd64 vsftpd amd64
3.0.5-0ubuntu0.20.04.1 [115 kB]
Descargados 115 kB en 1s (126 kB/s)
Preconfigurando paquetes ...
Seleccionando el paquete vsftpd previamente no seleccionado.
(Leyendo la base de datos ... 314796 ficheros o directorios instalados actualmen
te.)
Preparando para desempaquetar .../vsftpd.3.0.5-0ubuntu0.20.04.1.amd64.deb ...
Desempaquetando vsftpd (3.0.5-0ubuntu0.20.04.1) ...
Configurando vsftpd (3.0.5-0ubuntu0.20.04.1) ...
Creates symlink /etc/systemd/system/multi-user.target.wants/vsftpd.service → /li
b/systemd/system/vsftpd.service.
Procesando disparadores para nan-db (2.9.1-1) ...
Procesando disparadores para systemd (245.4-ubuntu03.22) ...
gorolota31@gorolota31-VirtualBox: ~/Escritorio
```

The desktop background is a scenic view of snow-capped mountains. The taskbar at the bottom shows various application icons and the system clock indicating 04:31 p.m. on 06/12/2023.