

UNIVERSIDAD POLITÉCNICA DE CHIAPAS



ASIGNATURA: SISTEMAS OPERATIVOS

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ACTIVIDAD: C1 - A4 - Servicios de sistemas operativos - Ubuntu en AWS

CORTE 1

CLASE: 7B

- Instala una instancia ubuntu en AWS
- Instala apache2 en esa instancia

The screenshot shows the AWS Management Console interface with the EC2 Instance Connect terminal open. The browser tabs at the top include 'Ejercicio de laboratorio 3 - Introd...', 'Lanzar una instancia | EC2 Mana...', 'Conectarse a la instancia | EC2 M...', and 'EC2 Instance Connect'. The address bar shows the URL: 'us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-0acc76bcff7aae7d3&osUser=ubuntu®ion=us-east-1&sshPort...'. The terminal window displays the following output:

```
aws
Servicios
Buscar servicios, características, blogs, documentos y i [Alt+S]
Norte de Virginia
voclabs/user2026200=Francisco_Dar_o_Rueda_Aquino_@ 5621-550...

System load: 0.0927734375    Processes:           109
Usage of /:   19.1% of 7.58GB    Users logged in:     0
Memory usage: 22%             IPv4 address for eth0: 172.31.81.220
Swap usage:   0%

0 updates can be applied immediately.

The list of available updates is more than a week old.
To check for new updates run: sudo apt update

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

ubuntu@ip-172-31-81-220:~$ sudo apt install apache2
```

Below the terminal output, the instance details are shown:

i-0acc76bcff7aae7d3 (Web Server)
PublicIPs: 18.208.110.121 PrivateIPs: 172.31.81.220

The footer of the console shows 'Comentarios', a search bar for '¿Busca la selección de idiomas? Encuéntrala en la nueva Unified Settings', and copyright information for Amazon Web Services, Inc. The taskbar at the bottom shows the Windows Start button, Firefox, Chrome (EC2 Instance Conn...), and Word (Documento1 - Wo...), along with system icons and the date/time: 02:33 p. m. 13/09/2022.

Ejercicio de laboratorio 3 - Intro x Lanza una instancia | EC2 Manag x Conectarse a la instancia | EC2 M x EC2 Instance Connect x +

us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-0acc76bcff7aae7d3&osUser=ubuntu®ion=us-east-1&sshPort...
YouTube Gmail Traducir Persona-4-Golden-... ePAPER READ Persona 4 Golden F... ASN Lookup - ASN... What Is My IP Addr... AS13999 Mega Cab... Autonomous Syste...

aws Servicios Buscar servicios, características, blogs, documentos y [Alt+S] Norte de Virginia voclabs/user2026200=Francisco_Dar_o_Rueda_Aquino_@ 5621-550...

```
Enabling conf localized-error-pages.
Enabling conf other-vhosts-access-log.
Enabling conf security.
Enabling conf serve-cgi-bin.
Enabling site 000-default.
Created symlink /etc/systemd/system/multi-user.target.wants/apache2.service → /lib/systemd/system/apache2.service.
Created symlink /etc/systemd/system/multi-user.target.wants/apache-htcacheclean.service → /lib/systemd/system/apache-htcacheclean.service.
Processing triggers for ufw (0.36.1-4build1) ...
Processing triggers for man-db (2.10.2-1) ...
Processing triggers for libc-bin (2.35-0ubuntu3) ...
Scanning processes...
Scanning linux images...

Running kernel seems to be up-to-date.

No services need to be restarted.

No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
ubuntu@ip-172-31-81-220:~$
```

i-0acc76bcff7aae7d3 (Web Server)
PublicIPs: 18.208.110.121 PrivateIPs: 172.31.81.220

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Windows Firefox EC2 Instance Conn... Documento1 - Wo...

02:34 p. m.
13/09/2022

- Lista los servicios activos

The screenshot shows a web browser window with the AWS Management Console. The active tab is 'Administrar y Listar Servicios'. The browser address bar shows the URL: `us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-0acc76bcff7aae7d3&osUser=ubuntu®ion=us-east-1&sshPort=22`. The terminal window displays the following commands and output:

```
ubuntu@ip-172-31-81-220:~$ sudo systemctl list-units --type=service
Unknown command verb list-units.
ubuntu@ip-172-31-81-220:~$ sudo systemctl list-unit-files --type=service --all
```

UNIT	FILE	STATE	VENDOR PRESET
acpid.service		disabled	enabled
apache-htcacheclean.service		disabled	enabled
apache-htcacheclean@.service		disabled	enabled
apache2.service		enabled	enabled
apache2@.service		disabled	enabled
apparmor.service		enabled	enabled
apport-autoreport.service		static	-
apport-forward@.service		static	-
apport.service		generated	-
apt-daily-upgrade.service		static	-
apt-daily.service		static	-
autovt@.service		alias	-
blk-availability.service		enabled	enabled
bolt.service		static	-
chrony-dnsrv@.service		static	-
chrony.service		enabled	enabled
chronyd.service		alias	-

Below the terminal output, the instance details are shown:

i-0acc76bcff7aae7d3 (Web Server)
PublicIPs: 18.208.110.121 PrivateIPs: 172.31.81.220

The bottom of the screenshot shows the Windows taskbar with the following open applications: 'EC2 Instance Conn...', 'Documento1 - Wo...', and the system clock showing '02:36 p. m. 13/09/2022'.

Ejercicio de laboratorio 3 - Ir x Lanza una instancia | EC2 M x Conectarse a la instancia | EC x EC2 Instance Connect x Administrar y Listar Servicios x + -

us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-0acc76bcff7aae7d3&osUser=ubuntu®ion=us-east-1&sshPort...

YouTube Gmail Traducir Persona-4-Golden-... ePAPER READ Persona 4 Golden F... ASN Lookup - ASN... What Is My IP Addr... AS13999 Mega Cab... Autonomous Syste...

aws Servicios Buscar servicios, características, blogs, documentos y [Alt+S] Norte de Virginia voclabs/user2026200=Francisco_Dar_o_Rueda_Aquino_@ 5621-550...

acpid.service	disabled	enabled
apache-htcacheclean.service	disabled	enabled
apache-htcacheclean@.service	disabled	enabled
apache2.service	enabled	enabled
apache2@.service	disabled	enabled
apparmor.service	enabled	enabled
apport-autoreport.service	static	-
apport-forward@.service	static	-
apport.service	generated	-
apt-daily-upgrade.service	static	-
apt-daily.service	static	-
autovt@.service	alias	-
blk-availability.service	enabled	enabled
bolt.service	static	-
chrony-dnssrv@.service	static	-
chrony.service	enabled	enabled
chronyd.service	alias	-
cloud-config.service	enabled	enabled
cloud-final.service	enabled	enabled
cloud-init-hotplugd.service	static	-
cloud-init-local.service	enabled	enabled

lines 1-22

i-0acc76bcff7aae7d3 (Web Server)

PublicIPs: 18.208.110.121 PrivateIPs: 172.31.81.220

Comentarios ¿Busca la selección de idiomas? Encuéntrala en la nueva Unified Settings

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EC2 Instance Conn... Documento1 - Wo... 02:36 p. m. 13/09/2022

- Identifica cual es el PID de apache2: PIDS CON LOS NÚMEROS 2226, 2228, 2229

The screenshot shows a terminal window within the AWS Management Console. The terminal output of the 'ps aux' command is as follows:

USER	PID	%CPU	%MEM	VSZ	SSZ	T	TIME	COMMAND
root	493	0.3	5.1	743464	51132	?	Ssl 19:29	0:01 /usr/lib/snapd/snapd
root	494	0.0	0.7	15288	7292	?	Ss 19:29	0:00 /lib/systemd/systemd-logind
root	500	0.0	1.2	392444	12772	?	Ssl 19:29	0:00 /usr/libexec/udisks2/udisksd
root	661	0.0	1.1	316916	11892	?	Ssl 19:29	0:00 /usr/sbin/ModemManager
root	669	0.0	2.1	110084	21332	?	Ssl 19:29	0:00 /usr/bin/python3 /usr/share/unattended-upgrades/unattended-upgrade-shutdown --wait-
root	677	0.0	0.1	6216	1128	ttyS0	Ss+ 19:29	0:00 /sbin/agetty -o -p -- \u --keep-baud 115200,57600,38400,9600 ttyS0 vt220
root	690	0.0	0.1	6172	1072	ttyL	Ss+ 19:29	0:00 /sbin/agetty -o -p -- \u --noclear ttyL linux
root	692	0.0	0.8	15416	8880	?	Ss 19:29	0:00 sshd: /usr/sbin/sshd -D -o AuthorizedKeysCommand /usr/share/ec2-instance-connect/ei
root	1129	0.0	1.5	1232048	15644	?	Ssl 19:29	0:00 /snap/amazon-ssm-agent/5656/amazon-ssm-agent
root	1154	0.1	2.6	1170548	26112	?	Sl 19:29	0:00 /snap/amazon-ssm-agent/5656/ssm-agent-worker
root	1207	0.0	1.1	16908	11000	?	Ss 19:33	0:00 sshd: ubuntu [priv]
ubuntu	1552	0.0	0.9	16916	9688	?	Ss 19:33	0:00 /lib/systemd/systemd --user
ubuntu	1553	0.0	0.4	170192	4804	?	S 19:33	0:00 (sd-pam)
ubuntu	1633	0.0	0.7	17296	7812	?	S 19:33	0:00 sshd: ubuntu@pts/0
ubuntu	1636	0.0	0.5	9096	5252	pts/0	Ss 19:33	0:00 -bash
root	2226	0.0	0.4	6760	4692	?	Ss 19:34	0:00 /usr/sbin/apache2 -k start
www-data	2228	0.0	0.4	752976	4536	?	Sl 19:34	0:00 /usr/sbin/apache2 -k start
www-data	2229	0.0	0.4	752976	4536	?	Sl 19:34	0:00 /usr/sbin/apache2 -k start
www-data	2349	0.0	0.0	3736	160	?	Ss 19:34	0:00 /usr/bin/htcacheclean -d 120 -p /var/cache/apache2/mod_cache_disk -l 300M -n
root	2457	0.0	2.0	295936	20568	?	Ssl 19:34	0:00 /usr/libexec/packagekitd
ubuntu	2531	0.0	0.3	10460	3332	pts/0	R+ 19:37	0:00 ps aux

Below the terminal output, the instance details for 'i-0acc76bcff7aae7d3 (Web Server)' are shown, including PublicIPs: 18.208.110.121 and PrivateIPs: 172.31.81.220.

- Identifica el puerto abierto en apache2: EJECUTÁNDOSE EN EL PUERTO 80

The screenshot shows a web browser window with multiple tabs, including 'Ejercicio de la...', 'Lanzar una in...', 'Conectarse a...', 'EC2 Instance', 'Administrar y...', 'C1 - A4 - Ser...', '20 Comandos', 'Cómo instala...', and others. The address bar shows the URL: `us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instancetype=i-0acc76bcff7aae7d3&osUser=ubuntu®ion=us-east-1&sshPort=...`. The browser's search bar contains the text: `Buscar servicios, características, blogs, documentos y...`. The main content area displays a terminal window with the following output:

```
aws
Servicios
Buscar servicios, características, blogs, documentos y... [Alt+S]
Norte de Virginia
voclabs/user2026200=Francisco_Dar__o_Rueda_Aquino_@ 5621-550...

unix 2      [ ACC ]     STREAM    LISTENING   14530      /run/systemd/journal/stdout
unix 2      [ ACC ]     SEQPACKET LISTENING   14533      /run/udev/control
unix 2      [ ACC ]     STREAM    LISTENING   16549      /run/systemd/resolve/io.systemd.Resolve
unix 2      [ ACC ]     STREAM    LISTENING   14572      /run/systemd/journal/io.systemd.journal
unix 2      [ ACC ]     STREAM    LISTENING   17016      /run/acpid.socket
unix 2      [ ACC ]     STREAM    LISTENING   17026      /run/dbus/system_bus_socket
unix 2      [ ACC ]     STREAM    LISTENING   17039      /run/snapd.socket
unix 2      [ ACC ]     STREAM    LISTENING   17041      /run/snapd-snap.socket
unix 2      [ ACC ]     STREAM    LISTENING   17044      /run/uidd/request
unix 2      [ ACC ]     STREAM    LISTENING   18605      /var/snap/lxd/common/lxd-user/unix.socket
unix 2      [ ACC ]     STREAM    LISTENING   18611      /var/snap/lxd/common/lxd/unix.socket
unix 2      [ ACC ]     STREAM    LISTENING   19157      /var/lib/amazon/ssm/ipc/health
unix 2      [ ACC ]     STREAM    LISTENING   19158      /var/lib/amazon/ssm/ipc/termination
unix 2      [ ACC ]     STREAM    LISTENING   17038      @ISCSIADM_ABSTRACT_NAMESPACE

ubuntu@ip-172-31-81-220:~$ sudo netstat -plnt
Active Internet connections (only servers)
Proto Recv-Q Send-Q Local Address           Foreign Address         State       PID/Program name
tcp        0      0 0.0.0.0:22              0.0.0.0:*               LISTEN      692/sshd: /usr/sbin
tcp        0      0 127.0.0.0:53:53        0.0.0.0:*               LISTEN      401/systemd-resolve
tcp6       0      0 :::80                  :::*                   LISTEN      2226/apache2
tcp6       0      0 :::22                  :::*                   LISTEN      692/sshd: /usr/sbin

ubuntu@ip-172-31-81-220:~$
```

Below the terminal output, the instance details are shown:

i-0acc76bcff7aae7d3 (Web Server)
PublicIPs: 18.208.110.121 PrivateIPs: 172.31.81.220

The bottom of the screenshot shows the browser's footer with the text: `Comentarios`, `¿Busca la selección de idiomas? Encuéntrala en la nueva Unified Settings`, `© 2022, Amazon Web Services, Inc. o sus filiales.`, `Privacidad`, `Términos`, and `Preferencias de cookies`. The taskbar at the bottom of the screen shows the Windows logo, a Firefox icon, and the text: `EC2 Instance Conn...`, `Documento1 - Wo...`, and the system clock: `02:45 p. m. 13/09/2022`.

- Apaga el servicio apache2

The screenshot shows a web browser window with multiple tabs, including 'Ejercicio de la...', 'Lanzar una in...', 'Conectarse a...', 'EC2 Instance', 'Administrar y...', 'C1 - A4 - Ser...', 'IP 20 Comandos', 'Cómo instala...', and others. The active tab is the AWS Management Console, specifically the 'EC2 Instance Connect' page for an instance named 'i-0acc76bcff7aae7d3' in the 'us-east-1' region. The terminal window displays the following commands and output:

```
ubuntu@ip-172-31-81-220:~$ sudo netstat -plnt
Active Internet connections (only servers)
Proto Recv-Q Send-Q Local Address           Foreign Address         State       PID/Program name
tcp        0      0 0.0.0.0:22              0.0.0.0:*               LISTEN      692/sshd: /usr/sbin
tcp        0      0 127.0.0.1:53            0.0.0.0:*               LISTEN      401/systemd-resolve
tcp6       0      0 :::80                  :::*                   LISTEN      2226/apache2
tcp6       0      0 :::22                  :::*                   LISTEN      692/sshd: /usr/sbin

ubuntu@ip-172-31-81-220:~$ sudo service stop apache2
stop: unrecognized service

ubuntu@ip-172-31-81-220:~$ sudo systemctl stop apache2
ubuntu@ip-172-31-81-220:~$
```

Below the terminal output, the instance details for 'i-0acc76bcff7aae7d3 (Web Server)' are shown, including PublicIPs: 18.208.110.121 and PrivateIPs: 172.31.81.220.

The bottom of the screenshot shows the Windows taskbar with the Start button, taskbar icons for Firefox, Chrome, and Word, and the system tray showing the time as 02:46 p. m. on 13/09/2022.

- Identifica si el PID anterior y puerto sigue habilitado: EL PUERTO NI LOS PIDS SE MUESTRAN LISTADOS

The screenshot shows a web browser window with the AWS Management Console open to the EC2 instance connection page. The terminal output shows the following commands and results:

```
ubuntu@ip-172-31-81-220:~$ sudo netstat -plnt
Active Internet connections (only servers)
Proto Recv-Q Send-Q Local Address           Foreign Address         State       PID/Program name
tcp        0      0 0.0.0.0:22             0.0.0.0:*               LISTEN      692/sshd: /usr/sbin
tcp        0      0 127.0.0.0:53:53        0.0.0.0:*               LISTEN      401/systemd-resolve
tcp6       0      0 :::80                  :::*                   LISTEN      2226/apache2
tcp6       0      0 :::22                  :::*                   LISTEN      692/sshd: /usr/sbin

ubuntu@ip-172-31-81-220:~$ sudo service stop apache2
stop: unrecognized service

ubuntu@ip-172-31-81-220:~$ sudo systemctl stop apache2
ubuntu@ip-172-31-81-220:~$ sudo netstat -plnt
Active Internet connections (only servers)
Proto Recv-Q Send-Q Local Address           Foreign Address         State       PID/Program name
tcp        0      0 0.0.0.0:22             0.0.0.0:*               LISTEN      692/sshd: /usr/sbin
tcp        0      0 127.0.0.0:53:53        0.0.0.0:*               LISTEN      401/systemd-resolve
tcp6       0      0 :::22                  :::*                   LISTEN      692/sshd: /usr/sbin

ubuntu@ip-172-31-81-220:~$
```

Below the terminal output, the instance details for `i-0acc76bcff7aae7d3 (Web Server)` are shown, including Public IPs: 18.208.110.121 and Private IPs: 172.31.81.220.

Ejercicio de la xLanzar una in xConectarse a xEC2 Instance xAdministrar y xC1 - A4 - Serv xLP 20 Comandos xCómo instala x

us-east-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-0acc76bcff7aae7d3&osUser=ubuntu®ion=us-east-1&sshPort...

YouTube Gmail Traducir Persona-4-Golden-... ePAPER READ Persona 4 Golden F... ASN Lookup - ASN... What Is My IP Addr... AS13999 Mega Cab... Autonomous Syste...

awsServicios

Buscar servicios, características, blogs, documentos y i [Alt+S]

Norte de Virginia

voclabs/user2026200=Francisco_Dar_o_Rueda_Aquino_@ 5621-550...

chrony	485	0.0	0.0	10560	528	?	S	19:29	0:00	/usr/sbin/chronyd -F 1
root	493	0.1	5.1	743464	51132	?	Ssl	19:29	0:01	/usr/lib/snapd/snapd
root	494	0.0	0.7	15288	7292	?	Ss	19:29	0:00	/lib/systemd/systemd-logind
root	500	0.0	1.2	392444	12772	?	Ssl	19:29	0:00	/usr/libexec/udisks2/udisksd
root	661	0.0	1.1	316916	11892	?	Ssl	19:29	0:00	/usr/sbin/ModemManager
root	669	0.0	2.1	110084	21332	?	Ssl	19:29	0:00	/usr/bin/python3 /usr/share/unattended-upgrades/unattended-upgrade-shutdown --wait-
root	677	0.0	0.1	6216	1128	ttyS0	Ss+	19:29	0:00	/sbin/agetty -o -p -- \u --keep-baud 115200,57600,38400,9600 ttyS0 vt220
root	690	0.0	0.1	6172	1072	tty1	Ss+	19:29	0:00	/sbin/agetty -o -p -- \u --noclear tty1 linux
root	692	0.0	0.8	15416	8880	?	Ss	19:29	0:00	sshd: /usr/sbin/sshd -D -o AuthorizedKeysCommand /usr/share/ec2-instance-connect/ei
root	1129	0.0	1.6	1232048	16612	?	Ssl	19:29	0:00	/snap/amazon-ssm-agent/5656/amazon-ssm-agent
root	1154	0.0	2.6	1170548	26112	?	S1	19:29	0:00	/snap/amazon-ssm-agent/5656/ssm-agent-worker
root	1207	0.0	1.1	16908	11000	?	Ss	19:33	0:00	sshd: ubuntu [priv]
ubuntu	1552	0.0	0.9	16916	9688	?	Ss	19:33	0:00	/lib/systemd/systemd --user
ubuntu	1553	0.0	0.4	170192	4804	?	S	19:33	0:00	(sd-pam)
ubuntu	1633	0.0	0.7	17296	7812	?	S	19:33	0:00	sshd: ubuntu@pts/0
ubuntu	1636	0.0	0.5	9096	5252	pts/0	Ss	19:33	0:00	-bash
www-data	2349	0.0	0.0	3736	160	?	Ss	19:34	0:00	/usr/bin/htcacheclean -d 120 -p /var/cache/apache2/mod_cache_disk -l 300M -n
root	2457	0.0	2.0	295936	20568	?	Ssl	19:34	0:00	/usr/libexec/packagekitd
root	2573	0.0	0.0	0	0	?	I	19:42	0:00	[kworker/u30:1-events_unbound]
root	2728	0.0	0.0	0	0	?	I	19:43	0:00	[kworker/0:0-events]
ubuntu	2751	0.0	0.3	10460	3224	pts/0	R+	19:46	0:00	ps aux

ubuntu@ip-172-31-81-220:~\$

i-0acc76bcff7aae7d3 (Web Server)

PublicIPs: 18.208.110.121 PrivateIPs: 172.31.81.220

Comentarios

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EC2 Instance Conn...

Documento1 - Wo...

02:47 p. m.
13/09/2022