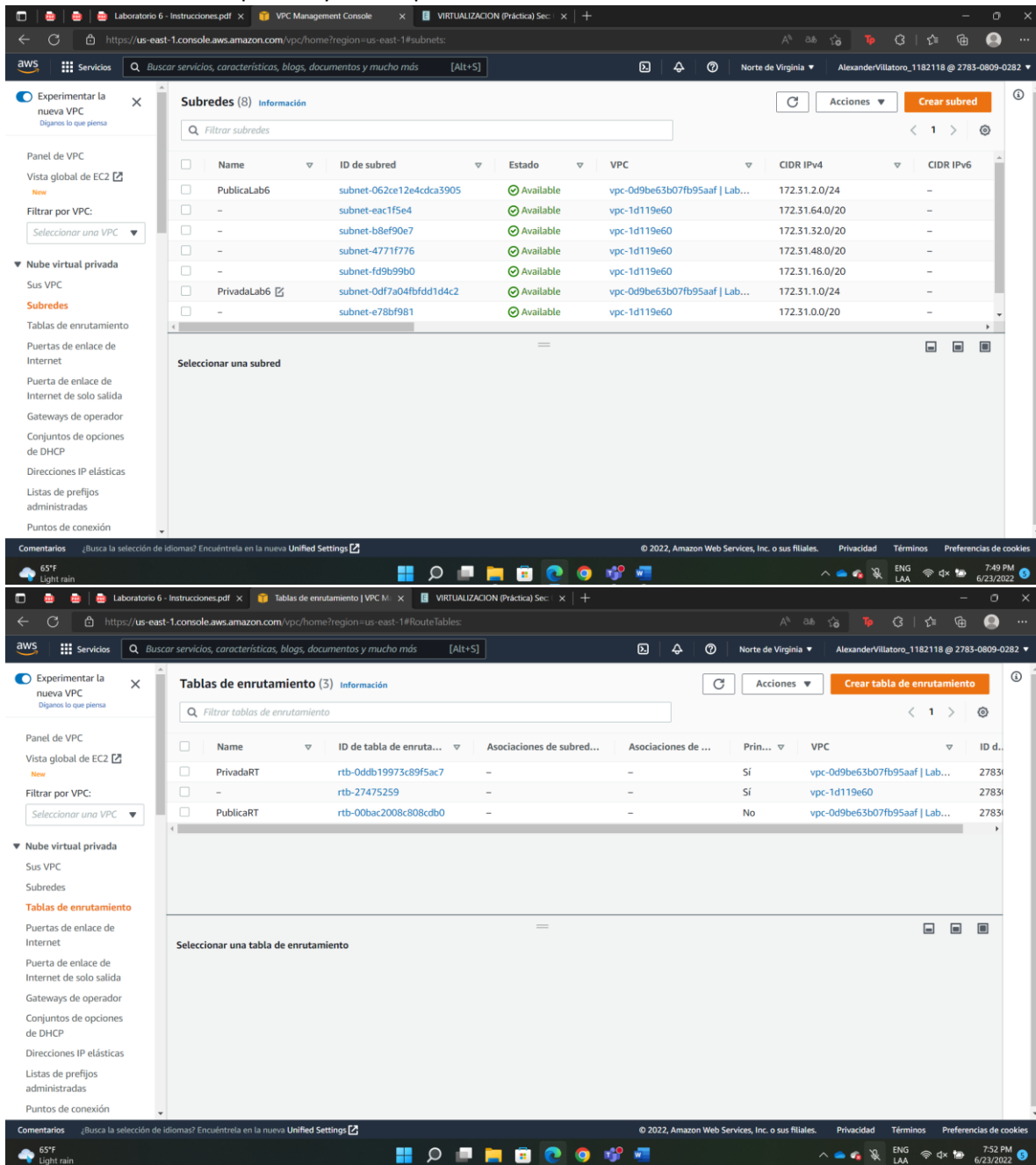


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## Laboratorio 6

Creación de una VPC con 2 subnets y 1 instancia Windows en cada una.

. Una subnet debe ser pública y la otra privada. Screenshot de la Rout Table de ambas.



The screenshot displays two screenshots of the AWS Management Console. The top screenshot shows the 'Subredes (8)' page, and the bottom screenshot shows the 'Tablas de enrutamiento (3)' page.

**Subredes (8) Information**

Name	ID de subred	Estado	VPC	CIDR IPv4	CIDR IPv6
PublicaLab6	subnet-062ce12e4cdca3905	Available	vpc-0d9be63b07fb95aaf   Lab...	172.31.2.0/24	-
-	subnet-eac1f5e4	Available	vpc-1d119e60	172.31.64.0/20	-
-	subnet-b8ef90e7	Available	vpc-1d119e60	172.31.32.0/20	-
-	subnet-4771f776	Available	vpc-1d119e60	172.31.48.0/20	-
-	subnet-fd9b99b0	Available	vpc-1d119e60	172.31.16.0/20	-
PrivadaLab6	subnet-0df7a04fbfd1d4c2	Available	vpc-0d9be63b07fb95aaf   Lab...	172.31.1.0/24	-
-	subnet-e78bf981	Available	vpc-1d119e60	172.31.0.0/20	-

**Tablas de enrutamiento (3) Information**

Name	ID de tabla de enruta...	Asociaciones de subred...	Asociaciones de ...	Prin...	VPC	ID d...
PrivadaRT	rtb-0ddb19973c89f5ac7	-	-	Sí	vpc-0d9be63b07fb95aaf   Lab...	2783...
-	rtb-27475259	-	-	Sí	vpc-1d119e60	2783...
PublicaRT	rtb-00bac2008c808c8b0	-	-	No	vpc-0d9be63b07fb95aaf   Lab...	2783...

Screenshot of the AWS Management Console showing the VPC Management Console for the VPC 'rtb-00bac2008c808cdb0'. The console displays the 'Rutas para rtb-00bac2008c808cdb0 / PublicaRT actualizadas correctamente' (Routes for rtb-00bac2008c808cdb0 / PublicaRT updated successfully) page.

The page shows the following details:

- ID de tabla de enrutamiento: rtb-00bac2008c808cdb0
- Principal: No
- Asociaciones de subredes explícitas: subnet-062ce12e4cdca3905 / PublicaLab6
- Asociaciones de borde: -
- VPC: vpc-0d9be63b07fb95aaf | Laboratorio6
- ID de propietario: 278308090282

The 'Rutas' (Routes) tab is selected, showing a table of routes:

Destino	Destino	Estado	Propagada
0.0.0.0/0	igw-0efcd9fc65023167e	Activo	No
172.31.0.0/16	local	Activo	No

Crear las 2 instancias Windows. Screenshot de la descripción de ambas instancias.

Screenshot of the AWS Management Console showing the EC2 Management Console for the instance 'Laboratorio6'. The console displays the 'Summary' page for the instance.

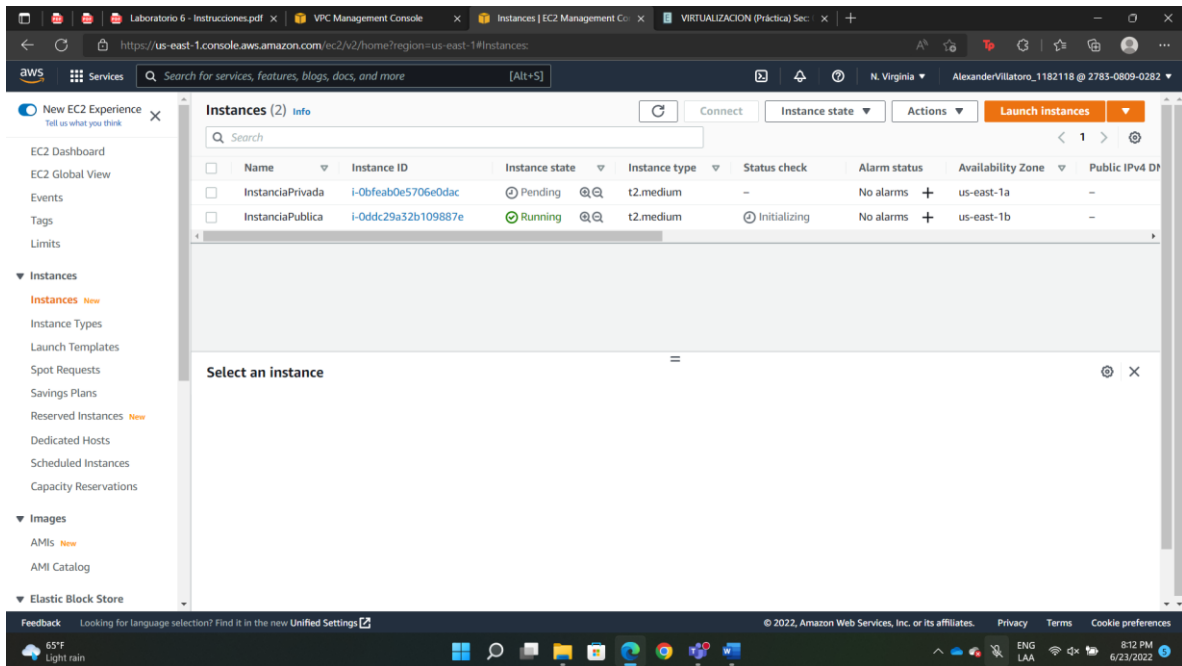
The 'Summary' page shows the following details:

- Number of instances: 1
- Software Image (AMI): Microsoft Windows Server 2019 ...read more
- Virtual server type (instance type): t2.medium
- Firewall (security group): New security group
- Storage (volumes): 1 volume(s) - 30 GiB

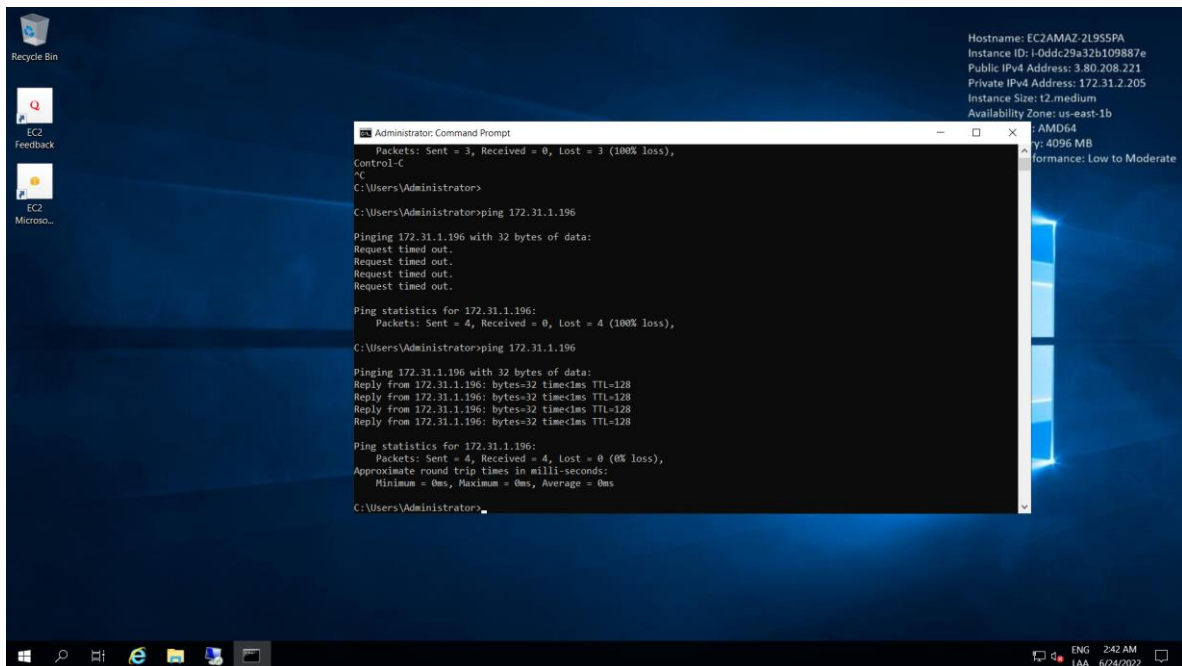
The 'Network settings' section shows the VPC 'vpc-0d9be63b07fb95aaf (Laboratorio6)' and the Subnet 'subnet-062ce12e4cdca3905' (PublicaLab6). The 'Auto-assign public IP' is set to 'Enable'.

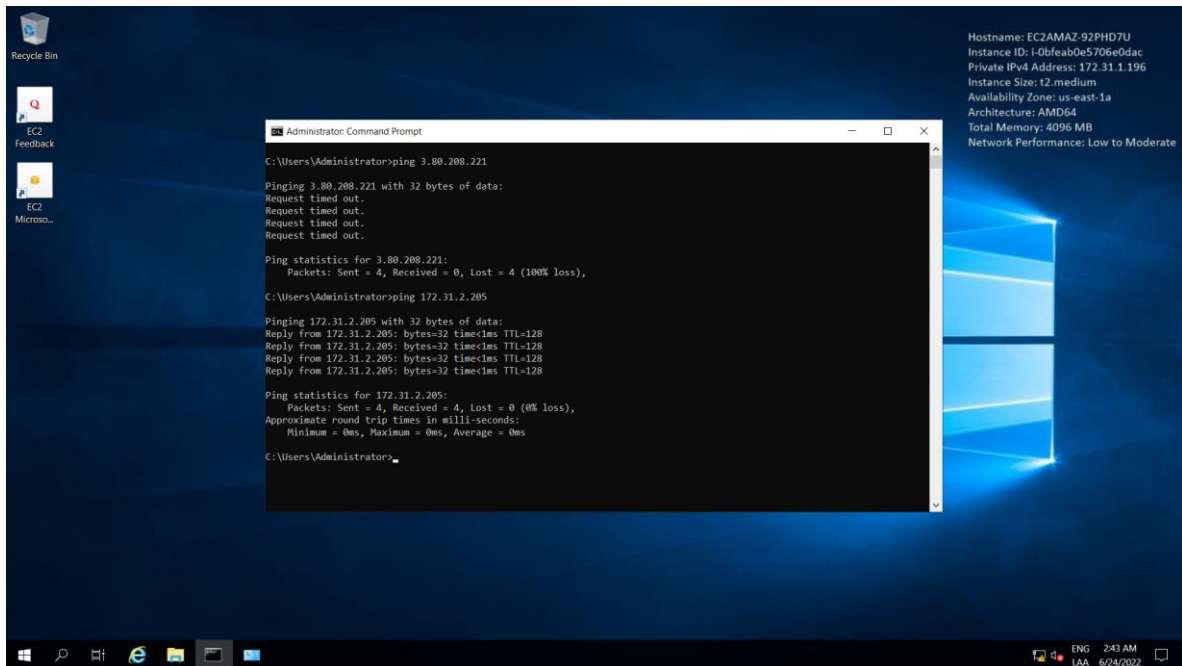
The 'Firewall (security groups)' section shows the 'Create security group' button and the 'Select existing security group' button. The security group name is 'launch-wizard-3'.

The 'Description' section shows the 'Description - required' field.



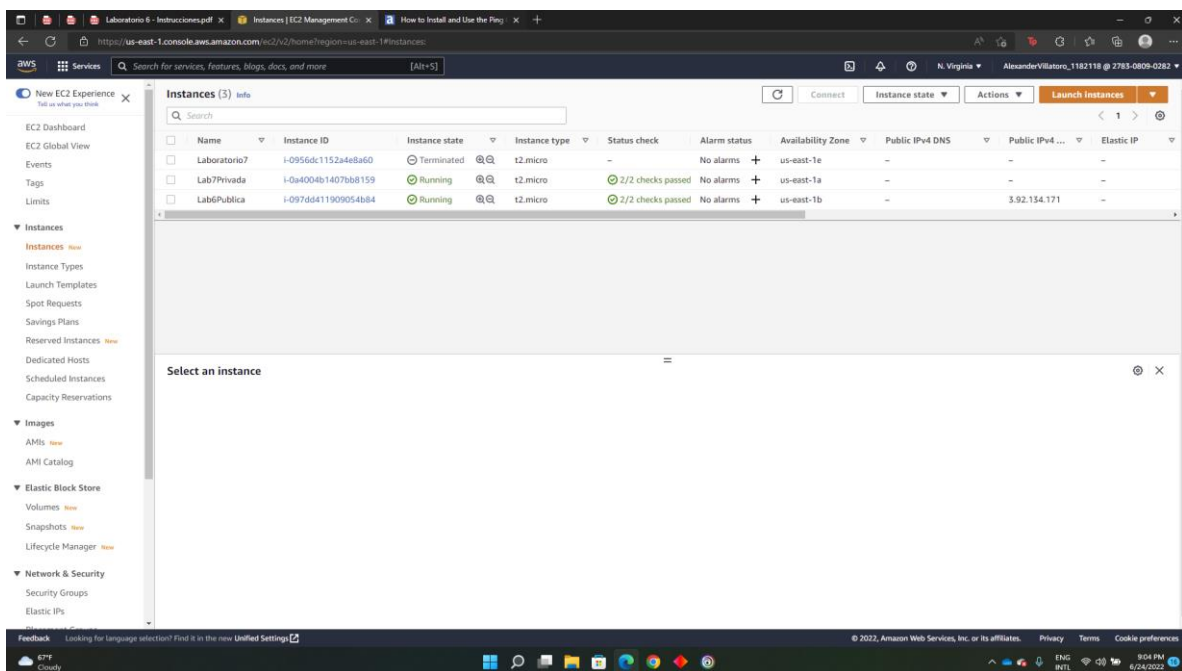
Hacer un ping de comunicación entre ambas instancias. Screenshot de comunicación de ambas instancias.





## Parte 2:

1. Repetir la Parte 1 del laboratorio utilizando maquinas Free Tier de Linux.
  - a. Describir la diferencia que existe para poder conectarse a las instancias y los pasos utilizados para lograr la conexión.
  - b. El ping de comunicación puede ser únicamente desde la instancia pública.



## Ping de publica a privada

```
set:16 http://security.ubuntu.com/ubuntu jammy-security/multiverse Translation-en [900 B]
set:17 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 c-n-f Metadata [228 B]
set:18 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 c-n-f Metadata [286 kB]
set:19 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/multiverse amd64 Packages [217 kB]
set:20 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/multiverse Translation-en [112 kB]
set:21 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy/multiverse amd64 c-n-f Metadata [8372 B]
set:22 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 Packages [323 kB]
set:23 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main Translation-en [78.1 kB]
set:24 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 c-n-f Metadata [5552 B]
set:25 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/restricted amd64 Packages [194 kB]
set:26 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/restricted Translation-en [29.5 kB]
set:27 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 Packages [131 kB]
set:28 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe Translation-en [46.6 kB]
set:29 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 c-n-f Metadata [2680 B]
set:30 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 Packages [4192 B]
set:31 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse Translation-en [1016 B]
set:32 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 c-n-f Metadata [232 B]
set:33 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/main amd64 c-n-f Metadata [112 B]
set:34 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/restricted amd64 c-n-f Metadata [116 B]
set:35 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 Packages [4844 B]
set:36 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe Translation-en [7932 B]
set:37 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 c-n-f Metadata [236 B]
set:38 http://us-east-1.ec2.archive.ubuntu.com/ubuntu jammy-backports/multiverse amd64 c-n-f Metadata [116 B]
Fetched 22.1 MB in 3s (6492 kB/s)
Reading package lists... Done
root@ip-172-31-2-34:/home/ubuntu# apt-get install iputils-ping -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
iputils-ping is already the newest version (3:20211215-1).
iputils-ping set to manually installed.
0 upgraded, 0 newly installed, 0 to remove and 11 not upgraded.
root@ip-172-31-2-34:/home/ubuntu# ping 172.31.1.26
PING 172.31.1.26 (172.31.1.26) 56(84) bytes of data:
64 bytes from 172.31.1.26: icmp_seq=1 ttl=64 time=0.787 ms
64 bytes from 172.31.1.26: icmp_seq=2 ttl=64 time=0.829 ms
64 bytes from 172.31.1.26: icmp_seq=3 ttl=64 time=0.931 ms
64 bytes from 172.31.1.26: icmp_seq=4 ttl=64 time=0.763 ms
64 bytes from 172.31.1.26: icmp_seq=5 ttl=64 time=0.809 ms
64 bytes from 172.31.1.26: icmp_seq=6 ttl=64 time=0.923 ms
```

i-097dd411909054b84 (Lab6Publica)  
Public IPs: 3.92.134.171 Private IPs: 172.31.2.34

87°F  
Cloudy

ENG  
RTL

9:12 PM  
6/24/2022

Desde la consola web es más sencillo ya que no se necesita ni de las claves para poder ingresar a la instancia. La diferencia es que se debe de modificar los inbound rules y darle todo el trafico 0.0.0.0/0 para poder ingresar.