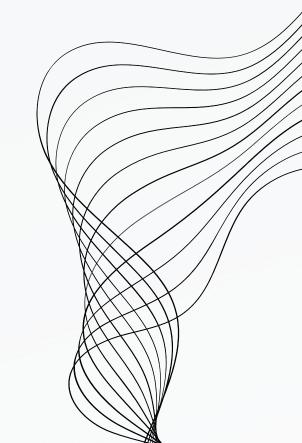




## LABORATORIO 264

CREACIÓN DE RECURSOS DE REDES
EN UNA AMAZON VIRTUAL PRIVATE
CLOUD (VPC)

FELIPE PUTRELLI
GUILLERMO SAN MARTÍN
HUGO DESIDERIO
JESSIKA OLIVERA
RAMIRO FERREIRA
YARA VILLAR



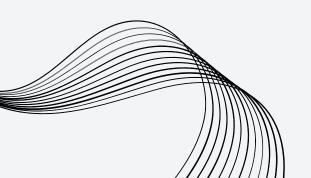
# CONTEXTO

¡Hola, equipo de soporte en la nube!

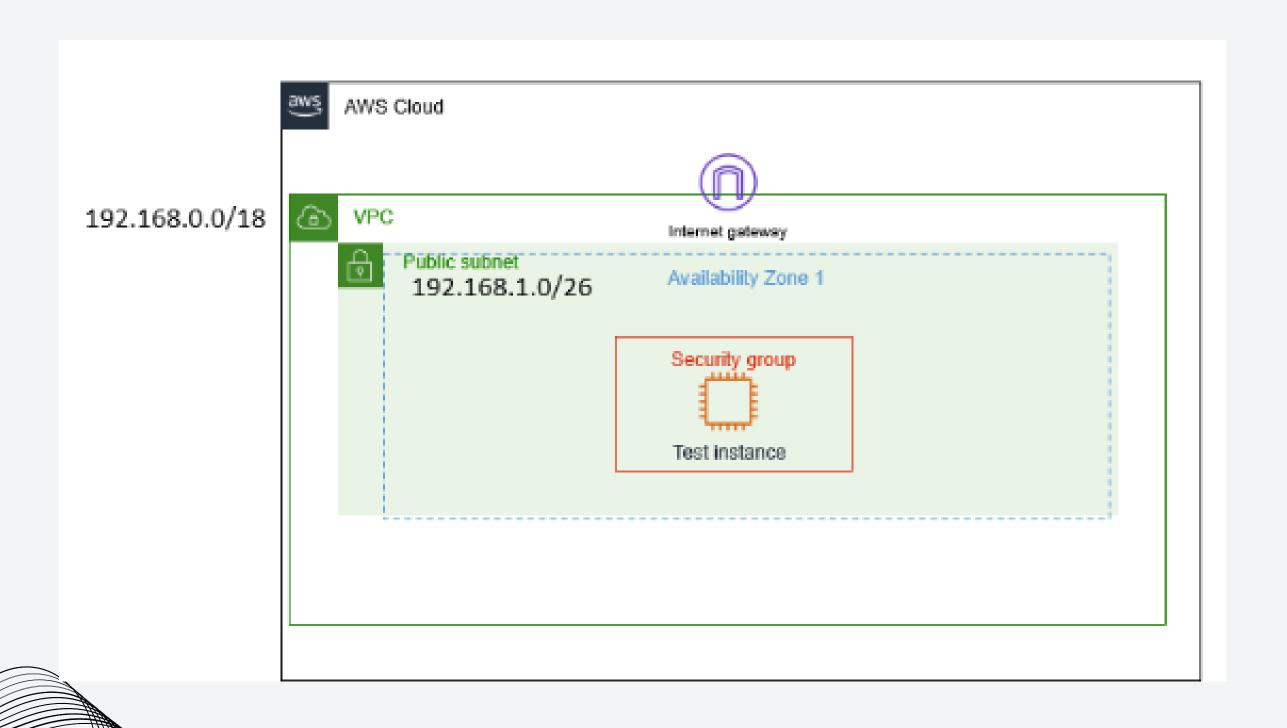
Hace unos días, me puse en contacto con ustedes para solicitar ayuda a fin de configurar mi VPC. Pensé que sabía adjuntar todos los recursos para establecer una conexión a Internet, pero ni siquiera puedo hacer ping por fuera de la VPC. ¡Todo lo que necesito es hacer ping! ¿Me pueden ayudar a configurar mi VPC donde tenga conectividad de red y pueda hacer ping? A continuación, se encuentra la arquitectura. ¡Gracias!

Brock, propietario de la empresa emergente





# CONTEXTO (IMAGEN)



# TAREA 1:

Paso: 1

#### Creamos una vpc

# Paso: 2

Paso: 3

Crear una subred, asociarla a la vpc y crear Creamos internet gateways y lo una regla tabla de enrutamiento

vinculamos a la vpc

Resources to create Info	networking resources.
• VPC only	○ VPC and more
Name tag - optional Creates a tag with a key of 'Name' and a value that	you specify.
Test VPC	
Pv4 CIDR block Info	
IPv4 CIDR manual input	
○ IPAM-allocated IPv4 CIDR block	
Pv4 CIDR	
192.168.0.0/18	
IDR block size must be between /16 and /28.	
Du6 CIDD block Info	
Pv6 CIDR block Info  No IPv6 CIDR block  IPAM-allocated IPv6 CIDR block	
No IPv6 CIDR block IPAM-allocated IPv6 CIDR block	
No IPv6 CIDR block  IPAM-allocated IPv6 CIDR block  Amazon-provided IPv6 CIDR block	
No IPv6 CIDR block IPAM-allocated IPv6 CIDR block Amazon-provided IPv6 CIDR block IPv6 CIDR owned by me	
No IPv6 CIDR block IPAM-allocated IPv6 CIDR block Amazon-provided IPv6 CIDR block IPv6 CIDR owned by me Tenancy Info	
No IPv6 CIDR block IPAM-allocated IPv6 CIDR block Amazon-provided IPv6 CIDR block IPv6 CIDR owned by me	▼
No IPv6 CIDR block IPAM-allocated IPv6 CIDR block Amazon-provided IPv6 CIDR block IPv6 CIDR owned by me Tenancy Info	▼
No IPv6 CIDR block IPAM-allocated IPv6 CIDR block Amazon-provided IPv6 CIDR block IPv6 CIDR owned by me  Tenancy Info  Default	▼
No IPv6 CIDR block IPAM-allocated IPv6 CIDR block Amazon-provided IPv6 CIDR block IPv6 CIDR owned by me  Fenancy Info  Default	
No IPv6 CIDR block IPAM-allocated IPv6 CIDR block Amazon-provided IPv6 CIDR block IPv6 CIDR owned by me  Tenancy Info Default  Tags A tag is a label that you assign to an AWS resource.	▼  Each tag consists of a key and an optional value. You can use tags to search and filte
No IPv6 CIDR block IPAM-allocated IPv6 CIDR block Amazon-provided IPv6 CIDR block IPv6 CIDR owned by me  Tenancy Info Default  Tags A tag is a label that you assign to an AWS resource, your resources or track your AWS costs.	Each tag consists of a key and an optional value. You can use tags to search and filte
No IPv6 CIDR block IPAM-allocated IPv6 CIDR block Amazon-provided IPv6 CIDR block IPv6 CIDR owned by me  Tenancy Info  Default	

PC			
PC ID reate subnets in this VPC.			
vpc-049e7622e38e5786d (Te	st VPC)	•	
ssociated VPC CIDRs			
v4 CIDRs			
92.168.0.0/18			
ubnet settings pecify the CIDR blocks and Availabil	lity Zone for the subnet.		
ubnet 1 of 1 Subnet name			
Create a tag with a key of 'Name'	and a value that you specify.		
Public Subnet			
The name can be up to 256 chara	cters long.		
Availability Zone Info Choose the zone in which your sul	onet will reside, or let Amazon choose one for you	J.	
No preference		▼	
		▼	
IPv4 VPC CIDR block Info	o create a subnet in.	▼	
	o create a subnet in.	•	
IPv4 VPC CIDR block Info Choose the IPv4 VPC CIDR block t 192.168.0.0/18	o create a subnet in.		
IPv4 VPC CIDR block Info Choose the IPv4 VPC CIDR block t 192.168.0.0/18 IPv4 subnet CIDR block	o create a subnet in.	•	
IPv4 VPC CIDR block Info Choose the IPv4 VPC CIDR block t 192.168.0.0/18	o create a subnet in.		
IPv4 VPC CIDR block Info Choose the IPv4 VPC CIDR block t 192.168.0.0/18  IPv4 subnet CIDR block 192.168.1.0/26  < > ^ ~ ~	o create a subnet in.	•	
IPv4 VPC CIDR block Info Choose the IPv4 VPC CIDR block to 192.168.0.0/18 IPv4 subnet CIDR block	o create a subnet in.  Value - optional	•	
IPv4 VPC CIDR block Info Choose the IPv4 VPC CIDR block to 192.168.0.0/18  IPv4 subnet CIDR block  192.168.1.0/26  ⟨ ⟩ ∧ ∨  ▼ Tags - optional		▼ 64 IPs	Remove
IPv4 VPC CIDR block Info Choose the IPv4 VPC CIDR block t  192.168.0.0/18  IPv4 subnet CIDR block  192.168.1.0/26  ⟨	Value - optional	•	Remove
IPv4 VPC CIDR block Info Choose the IPv4 VPC CIDR block t  192.168.0.0/18  IPv4 subnet CIDR block  192.168.1.0/26  ⟨ ⟩ ∧ ∨  ▼ Tags - optional  Key	Value - optional	▼ 64 IPs	Remove
IPv4 VPC CIDR block Info Choose the IPv4 VPC CIDR block t  192.168.0.0/18  IPv4 subnet CIDR block  192.168.1.0/26  ⟨	Value - optional	▼ 64 IPs	Remove
IPv4 VPC CIDR block Info Choose the IPv4 VPC CIDR block t  192.168.0.0/18  IPv4 subnet CIDR block  192.168.1.0/26  ⟨	Value - optional	▼ 64 IPs	Remove
IPv4 VPC CIDR block Info Choose the IPv4 VPC CIDR block t  192.168.0.0/18  IPv4 subnet CIDR block  192.168.1.0/26  ⟨	Value - optional	▼ 64 IPs	Remove



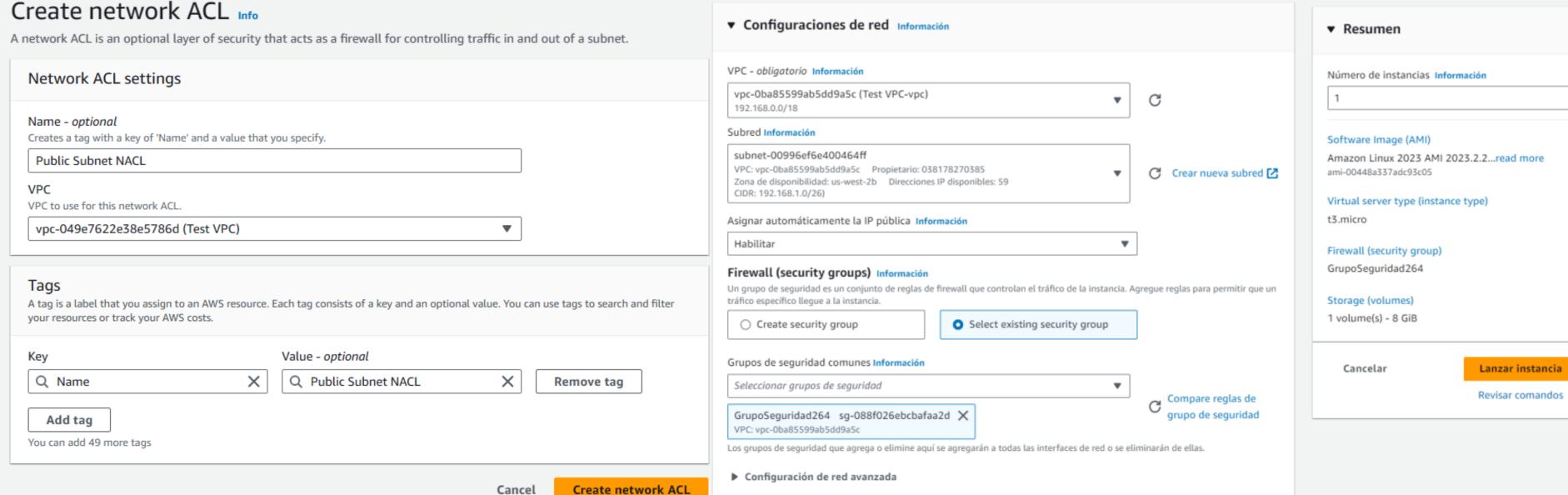
### TAREA 1:

#### Paso: 1

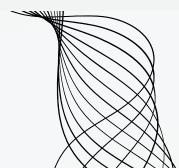
#### Creamos una ACL

#### Paso: 2

#### Crear la instancia





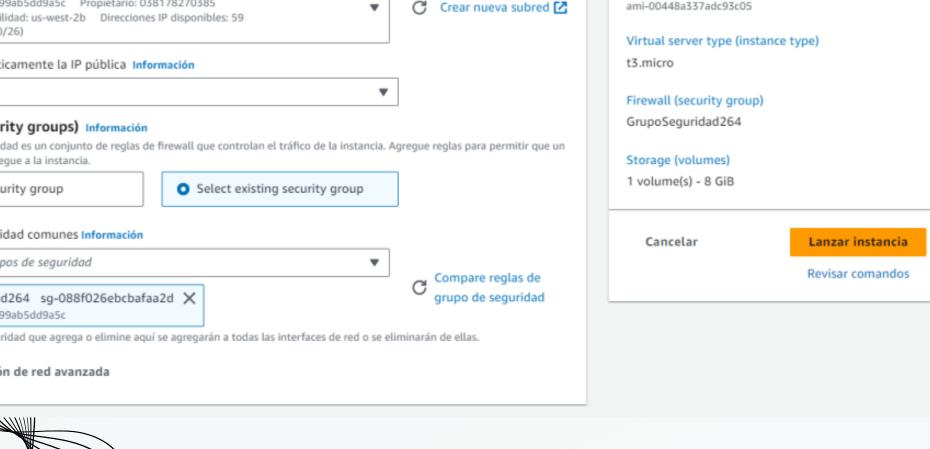


## TAREA 2:

#### Paso: 1

#### Crear la instancia

▼ Configuraciones de red Información	▼ Resumen	
VPC - obligatorio Información	Número de instancias Información	
vpc-0ba85599ab5dd9a5c (Test VPC-vpc) 192.168.0.0/18	1	
Subred Información	Software Image (AMI)	
subnet-00996ef6e400464ff  VPC: vpc-0ba85599ab5dd9a5c Propietario: 038178270385  Zona de disponibilidad: us-west-2b Direcciones IP disponibles: 59  CIDR: 192.168.1.0/26)  Crear nueva subred ☑	Amazon Linux 2023 AMI 2023.2.2re ami-00448a337adc93c05	
Asignar automáticamente la IP pública Información	Virtual server type (instance type) t3.micro	
Habilitar ▼	Firewall (security group)	
Firewall (security groups) Información	GrupoSeguridad264	
Un grupo de seguridad es un conjunto de reglas de firewall que controlan el tráfico de la instancia. Agregue reglas para permitir que un tráfico específico llegue a la instancia.	Storage (volumes)	
Create security group     Select existing security group	1 volume(s) - 8 GiB	
Grupos de seguridad comunes Información	Cancelar Lanz	
Seleccionar grupos de seguridad   ▼	Revis	
GrupoSeguridad264 sg-088f026ebcbafaa2d X  VPC: vpc-0ba85599ab5dd9a5c  Compare reglas de grupo de seguridad		
Los grupos de seguridad que agrega o elimine aquí se agregarán a todas las interfaces de red o se eliminarán de ellas.		
▶ Configuración de red avanzada		



#### Paso: 2

#### Nos conectamos a la instancia mediante SSH

```
delimination of the property of the prop
                      login as: ec2-user
                    Authenticating with public key "imported-openssh-key"
                                                                                                                                                          Amazon Linux 2
                                                                                                                                                          AL2 End of Life is 2025-06-30.
                                                                                                                                                          A newer version of Amazon Linux is available!
                                                                                                                                                          Amazon Linux 2023, GA and supported until 2028-03-15.
                                                                                                                                                                         https://aws.amazon.com/linux/amazon-linux-2023/
[ec2-user@ip-10-0-10-220 ~]$
```

### TAREA 3:

Vinculamos el putty y escribimos ping google.com

