

PRÁCTICAS DE LABORATORIO

Guillermina Antonaccio

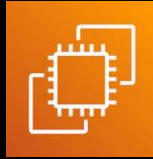
Decimoctavo laboratorio
(262):

Direcciones IP Estáticas y
Dinámicas



Instructor:
Roberto Landa

TAREA 1:



En esta tarea, debíamos solucionar un problema a un cliente que en su instancia EC2 la IP cambiaba continuamente (era una IP dinámica). Para arreglar este problema nosotros recreamos una instancia igual a como la había hecho nuestro cliente.

La IP publica cuando deteníamos la instancia desaparecía, y cuando la iniciábamos cambiaba, para arreglar esto, creamos una EIP o "Elastic IPs" son **IP públicas y estáticas que podemos asignar a alguno de nuestros recursos**. Normalmente cuando lanzamos un recurso, como una instancia EC2 o como una instancia RDS, se nos asigna una IP pública que es dinámica. Nosotros asignamos una EIP que creamos a la instancia y la IP publica quedo estática.

1- La IP Publica la primera vez que inicializamos la instancia es: 35.92.243.140

2-La IP Privada la primera vez que inicializamos la instancia es: 10.0.10.247

En esta imagen podemos apreciar la primera vez que lanzamos la instancia con las mismas características que el cliente, podemos ver el número de IP Publica es: 35.92.243.140 y la IP Privada 10.0.10.247.

The screenshot displays the AWS Management Console interface. On the left, the navigation menu includes 'EC2 Dashboard', 'EC2 Global View', 'Events', 'Instances', 'Instance Types', 'Launch Templates', 'Spot Requests', 'Savings Plans', 'Reserved Instances', 'Dedicated Hosts', 'Capacity Reservations', 'Images', and 'Elastic Block Store'. The 'Instances' section is selected, showing a list of two instances: 'test instance' (ID: i-0fed37e5eb9cb7257) and 'Command Host' (ID: i-032a43fded0d9a798). Both are in a 'Running' state. The 'test instance' is highlighted, and its details are shown in a panel below. The details panel includes tabs for 'Details', 'Security', 'Networking', 'Storage', 'Status checks', 'Monitoring', and 'Tags'. Under the 'Details' tab, the 'Instance summary' section shows the instance ID, public IPv4 address (35.92.243.140), private IPv4 addresses (10.0.10.247), and instance state (Running). Red arrows point from the instance ID in the list to the details panel, and from the public and private IP addresses in the details panel to the text in the slide above.

Instances (1/2) Info

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
test instance	i-0fed37e5eb9cb7257	Running	t3.micro	2/2 checks passed	No alarms	us-west-2a
Command Host	i-032a43fded0d9a798	Running	t3.micro	2/2 checks passed	No alarms	us-west-2a

Instance: i-0fed37e5eb9cb7257 (test instance)

Details | Security | Networking | Storage | Status checks | Monitoring | Tags

Instance summary Info

Instance ID	Public IPv4 address	Private IPv4 addresses
i-0fed37e5eb9cb7257 (test instance)	35.92.243.140 open address	10.0.10.247
IPv6 address	Instance state	Public IPv4 DNS
-	Running	ec2-35-92-243-140.us-west-2.compute.amazonaws.com open address

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Una vez que la detuvimos la IP publica desapareció y la IP privada se mantuvo (10.0.10.247):

aws

Services

Search

[Alt+S]

Oregon

voclabs/user2846438=Guillermina_Antonaccio_Scaffo @ 3647-6845...

EC2 Dashboard

EC2 Global View

Events

Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Capacity Reservations

New

Images

AMIs

AMI Catalog

Elastic Block Store

Instances (1/2) Info

Find Instance by attribute or tag (case-sensitive)

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
<input checked="" type="checkbox"/>	test instance	i-0fed37e5eb9cb7257	Stopped	t3.micro	2/2 checks passed	No alarms	us-west-2a
<input type="checkbox"/>	Command Host	i-032a43fded0d9a798	Running	t3.micro	2/2 checks passed	No alarms	us-west-2a

Instance: i-0fed37e5eb9cb7257 (test instance)

Details

Security

Networking

Storage

Status checks

Monitoring

Tags

Instance summary Info

Instance ID	Public IPv4 address	Private IPv4 addresses
i-0fed37e5eb9cb7257 (test instance)	-	10.0.10.247
IPv6 address	Instance state	Public IPv4 DNS
-	Stopped	-

CloudShell

Feedback

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Cuando iniciamos la instancia de nuevo el número de IP Publica cambio ahora es: 35.89.277.174 y la IP Privada se mantuvo

Successfully started i-Ofed37e5eb9cb7257

Instances (1/2) Info

Find Instance by attribute or tag (case-sensitive)

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
<input checked="" type="checkbox"/>	test instance	i-Ofed37e5eb9cb7257	Running	t3.micro	2/2 checks passed	No alarms	us-west-2a
<input type="checkbox"/>	Command Host	i-032a43fded0d9a798	Running	t3.micro	2/2 checks passed	No alarms	us-west-2a

Instance: i-Ofed37e5eb9cb7257 (test instance)

Details | Security | Networking | Storage | Status checks | Monitoring | Tags

Instance summary Info

Instance ID i-Ofed37e5eb9cb7257 (test instance)	Public IPv4 address 35.89.277.174 open address	Private IPv4 addresses 10.0.10.247
IPv6 address -	Instance state Running	Public IPv4 DNS ec2-35-89-277-174.us-west-2.compute.amazonaws.com open address

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Para que la IP publica quedara estática creamos un EIP y la asignamos a nuestra instancia EC2.

Elastic IP addresses (1/2)

Actions

Allocate Elastic IP address

Q

Filter Elastic IP addresses

<

1

>

<div><div></div></div>	Name	Allocated IPv4 add...	Type	Allocation ID	Reverse DN
<input checked="" type="checkbox"/>	-	34.223.242.155	Public IP	eipalloc-082a3e6294dbfc5ff	-
<input type="checkbox"/>	-	52.36.205.153	Public IP	eipalloc-0fa66b3fe0afb1815	-

<

>

Una vez creada la EIP y asignada a nuestra instancia, la IP de EIP apareció como IP pública de nuestra instancia.

aws

Services

Search

[Alt+S]

Oregon

voclabs/user2846438=Guillermina_Antonaccio_Scaffo @ 3647-6845...

EC2 Dashboard

EC2 Global View

Events

Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

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Instances (1/2) Info

Find Instance by attribute or tag (case-sensitive)

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
<input checked="" type="checkbox"/>	test instance	i-0fed37e5eb9cb7257	Running	t3.micro	2/2 checks passed	No alarms	us-west-2a
<input type="checkbox"/>	Command Host	i-032a43fded0d9a798	Running	t3.micro	2/2 checks passed	No alarms	us-west-2a

Instance: i-0fed37e5eb9cb7257 (test instance)

DetailsSecurityNetworkingStorageStatus checksMonitoringTags

Instance summary Info

Instance ID

i-0fed37e5eb9cb7257 (test instance)

Public IPv4 address

34.223.242.155 |open address

Private IPv4 addresses

10.0.10.247

Instance state

Running

Public IPv4 DNS

ec2-34-223-242-155.us-west-2.compute.amazonaws.com |open address

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Aquí detuvimos la instancia y la IP pública no desapareció, se mantuvo

The screenshot displays the AWS Management Console interface. At the top, the navigation bar shows the AWS logo, 'Services', a search bar, and the user's account information. The main content area is titled 'Instances (1/2) Info'. Below this, there is a search bar and a table of instances. The table has columns for Name, Instance ID, Instance state, Instance type, Status check, Alarm status, Availability Zone, and Public IPv4 DNS. Two instances are listed: 'test instance' (i-0fed37e5eb9cb7257) which is 'Stopped', and 'Command Host' (i-032a43fded0d9a798) which is 'Running'. Below the table, the details for the 'test instance' are shown. The 'Instance summary' section includes the Instance ID, Public IPv4 address (34.223.242.155), Private IPv4 addresses (10.0.10.247), Instance state (Stopped), and Public IPv4 DNS (ec2-34-223-242-155.us-west-2.compute.amazonaws.com). A red arrow points to the Public IPv4 address field.

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
test instance	i-0fed37e5eb9cb7257	Stopped	t3.micro	-	No alarms	us-west-2a	ec2-34-223-242-155.us-west-2.compute.amazonaws.com
Command Host	i-032a43fded0d9a798	Running	t3.micro	2/2 checks passed	No alarms	us-west-2a	ec2-54-190-138-47.us-west-2.compute.amazonaws.com

Instance: i-0fed37e5eb9cb7257 (test instance)

Instance summary

- Instance ID: i-0fed37e5eb9cb7257 (test instance)
- Public IPv4 address: 34.223.242.155 [open address](#)
- Private IPv4 addresses: 10.0.10.247
- Instance state: Stopped
- Public IPv4 DNS: ec2-34-223-242-155.us-west-2.compute.amazonaws.com [open address](#)

Y al volver a iniciar la instancia la IP publica seguía manteniéndose igual, resolvimos el problema de nuestro cliente

The screenshot displays the AWS Management Console interface. At the top, the navigation bar includes the AWS logo, 'Services', a search bar, and the region 'Oregon'. The main content area is titled 'Instances (1/2) Info'. Below this, there's a search bar and a table of instances. The table has columns for Name, Instance ID, Instance state, Instance type, Status check, Alarm status, Availability Zone, and Public IPv4 DNS. Two instances are listed: 'test instance' (ID: i-0fed37e5eb9cb7257) and 'Command Host' (ID: i-032a43fded0d9a798). Both are in a 'Running' state with '2/2 checks passed'. Below the table, the details for the 'test instance' are shown. The 'Instance summary' section includes the Instance ID, Public IPv4 address (34.223.242.155), Private IPv4 addresses (10.0.10.247), and Public IPv4 DNS (ec2-34-223-242-155.us-west-2.compute.amazonaws.com). A red arrow points to the Public IPv4 address field.

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
test instance	i-0fed37e5eb9cb7257	Running	t3.micro	2/2 checks passed	No alarms	us-west-2a	ec2-34-223-242-155.us-west-2.compute.amazonaws.com
Command Host	i-032a43fded0d9a798	Running	t3.micro	2/2 checks passed	No alarms	us-west-2a	ec2-54-190-138-47.us-west-2.compute.amazonaws.com

Instance: i-0fed37e5eb9cb7257 (test instance)

Instance summary


- Instance ID: i-0fed37e5eb9cb7257 (test instance)
- Public IPv4 address: 34.223.242.155 (open address)
- Private IPv4 addresses: 10.0.10.247
- Public IPv4 DNS: ec2-34-223-242-155.us-west-2.compute.amazonaws.com (open address)
- Instance state: Running

TAREA 2:



En esta tarea teníamos que hablar con un compañero y que uno de nosotros sea el cliente y el otro el asistente de la nube, para hablar acerca de lo que había pasado y explicar cómo solucionamos el problema de la IP pública dinámica y cómo la cambiamos a una IP estática gracias a EIP.





Aquí termina el
laboratorio, muchas
gracias