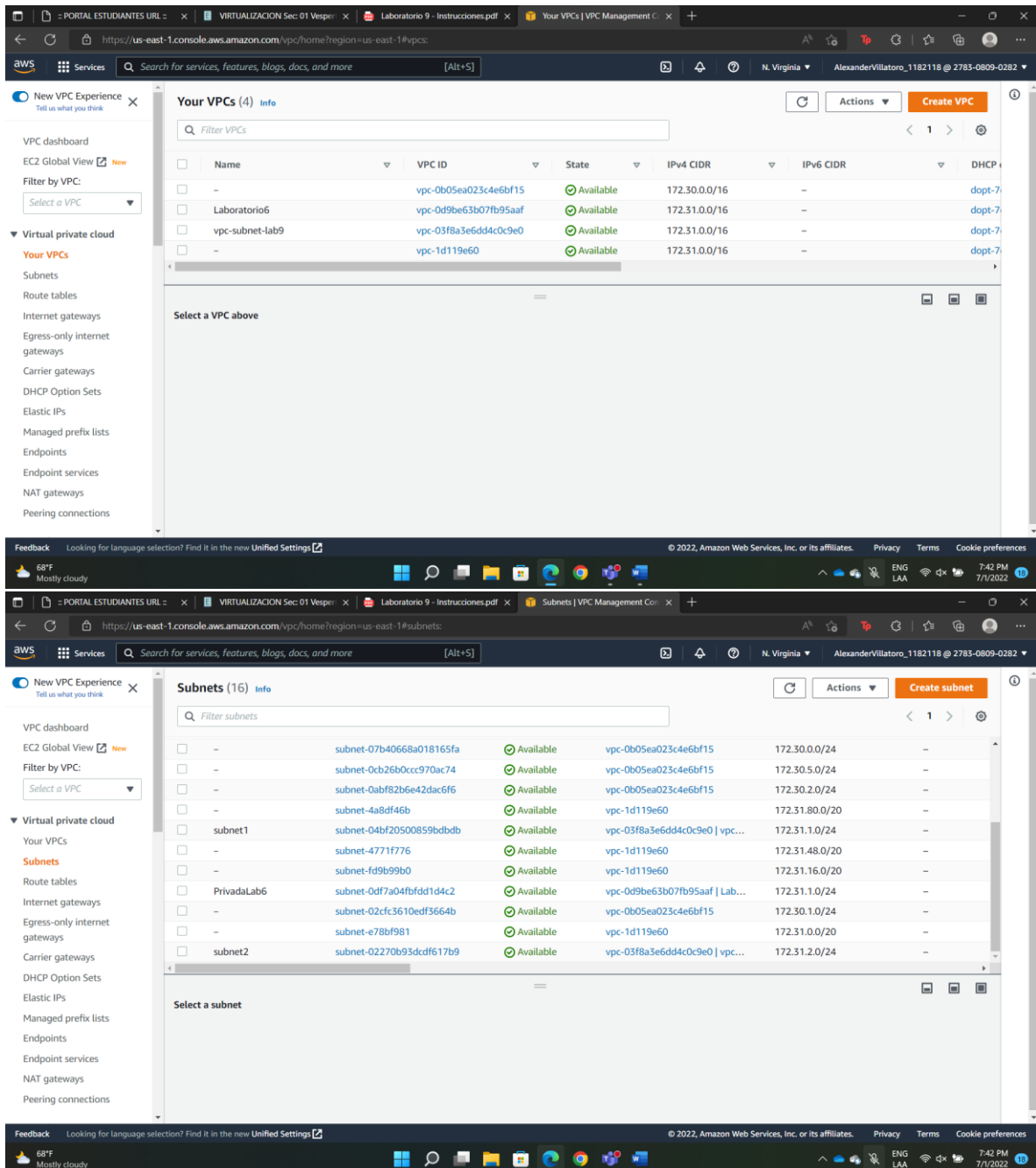


Nombre: Alexander Villatoro
Carné: 1182118

Laboratorio 9

Crear una nueva DEFAULT VPC con 2 subnets, cada subnet en una AVZ diferente y con acceso a internet.



The screenshot displays the AWS Management Console interface, specifically the 'Your VPCs' and 'Subnets' sections. The top section, 'Your VPCs (4)', shows a table of existing VPCs. The bottom section, 'Subnets (16)', shows a table of existing subnets. The interface includes a sidebar with navigation links for VPC dashboard, EC2 Global View, and various VPC-related services. The main content area displays a list of VPCs and subnets with their respective IDs, states, and IP address ranges.

| Name | VPC ID | State | IPv4 CIDR | IPv6 CIDR | DHCP |
|-----------------|-----------------------|-----------|---------------|-----------|--------|
| - | vpc-0b05ea023c4e6bf15 | Available | 172.30.0.0/16 | - | dopt-7 |
| Laboratorio6 | vpc-0d9be63b07fb95aaf | Available | 172.31.0.0/16 | - | dopt-7 |
| vpc-subnet-lab9 | vpc-03f8a3e6dd4c0c9e0 | Available | 172.31.0.0/16 | - | dopt-7 |
| - | vpc-1d119e60 | Available | 172.31.0.0/16 | - | dopt-7 |

| Name | Subnet ID | State | VPC | IPv4 CIDR | IPv6 CIDR |
|-------------|--------------------------|-----------|--------------------------------|----------------|-----------|
| - | subnet-07b40668a018165fa | Available | vpc-0b05ea023c4e6bf15 | 172.30.0.0/24 | - |
| - | subnet-0cb26b0ccc970ac74 | Available | vpc-0b05ea023c4e6bf15 | 172.30.5.0/24 | - |
| - | subnet-0abf82b6e42dac6f6 | Available | vpc-0b05ea023c4e6bf15 | 172.30.2.0/24 | - |
| - | subnet-4a8df46b | Available | vpc-1d119e60 | 172.31.80.0/20 | - |
| subnet1 | subnet-04bf20500859bdbdb | Available | vpc-03f8a3e6dd4c0c9e0 vpc... | 172.31.1.0/24 | - |
| - | subnet-4771f776 | Available | vpc-1d119e60 | 172.31.48.0/20 | - |
| - | subnet-fd9b99b0 | Available | vpc-1d119e60 | 172.31.16.0/20 | - |
| PrivadaLab6 | subnet-0df7a04fbfdd1d4c2 | Available | vpc-0d9be63b07fb95aaf Lab... | 172.31.1.0/24 | - |
| - | subnet-02cfc3610edf3664b | Available | vpc-0b05ea023c4e6bf15 | 172.30.1.0/24 | - |
| - | subnet-e78bf981 | Available | vpc-1d119e60 | 172.31.0.0/20 | - |
| subnet2 | subnet-02270b93cdf617b9 | Available | vpc-03f8a3e6dd4c0c9e0 vpc... | 172.31.2.0/24 | - |

PORTAL ESTUDIANTES URL : x | VIRTUALIZACION Sec 01 Vesper : x | Laboratorio 9 - Instrucciones.pdf x | Route tables | VPC Management : x

https://us-east-1.console.aws.amazon.com/vpc/home?region=us-east-1#RouteTables

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New VPC Experience Tell us what you think

VPC dashboard

EC2 Global View New

Filter by VPC: Select a VPC

Virtual private cloud

Your VPCs

Subnets

Route tables

Internet gateways

Egress-only internet gateways

Carrier gateways

DHCP Option Sets

Elastic IPs

Managed prefix lists

Endpoints

Endpoint services

NAT gateways

Peering connections

Route tables (5) Info

Filter route tables

Actions Create route table

| <input type="checkbox"/> | Name | Route table ID | Explicit subnet associat... | Edge associations | Main | VPC | Ow... |
|--------------------------|------------|------------------------|-----------------------------|-------------------|------|--------------------------------|--------------|
| <input type="checkbox"/> | PrivadaRT | rtb-0ddb19973c89f5ac7 | subnet-0df7a04fbfdd1d... | - | Yes | vpc-0d9be63b07fb95aaf Lab... | 278308090282 |
| <input type="checkbox"/> | - | rtb-27475259 | - | - | Yes | vpc-1d119e60 | 278308090282 |
| <input type="checkbox"/> | - | rtb-078d7222058b7b391 | - | - | Yes | vpc-0b05ea023c4e6bf15 | 278308090282 |
| <input type="checkbox"/> | route-lab9 | rtb-0a364a0e36f832bf2 | - | - | Yes | vpc-03f8a3e6dd4c0c9e0 vpc... | 278308090282 |
| <input type="checkbox"/> | PublicaRT | rtb-00bac2008c808cddb0 | subnet-062ce12e4cdca3... | - | No | vpc-0d9be63b07fb95aaf Lab... | 278308090282 |

Select a route table

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PORTAL ESTUDIANTES URL : x | VIRTUALIZACION Sec 01 Vesper : x | Laboratorio 9 - Instrucciones.pdf x | Internet gateways | VPC Management : x

https://us-east-1.console.aws.amazon.com/vpc/home?region=us-east-1#igws

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Peering connections

Internet gateways (4) Info

Filter internet gateways

Actions Create internet gateway

| <input type="checkbox"/> | Name | Internet gateway ID | State | VPC ID | Owner |
|--------------------------|------------------|-----------------------|----------|--|--------------|
| <input type="checkbox"/> | - | igw-044034ab4cf193311 | Attached | vpc-0b05ea023c4e6bf15 | 278308090282 |
| <input type="checkbox"/> | internet-gw-lab9 | igw-0a0c476a42c9ac2ca | Attached | vpc-03f8a3e6dd4c0c9e0 vpc-subnet-... | 278308090282 |
| <input type="checkbox"/> | Laboratorio6 | igw-0efcd9fc65023167e | Attached | vpc-0d9be63b07fb95aaf Laboratorio6 | 278308090282 |
| <input type="checkbox"/> | - | igw-ee31cc94 | Attached | vpc-1d119e60 | 278308090282 |

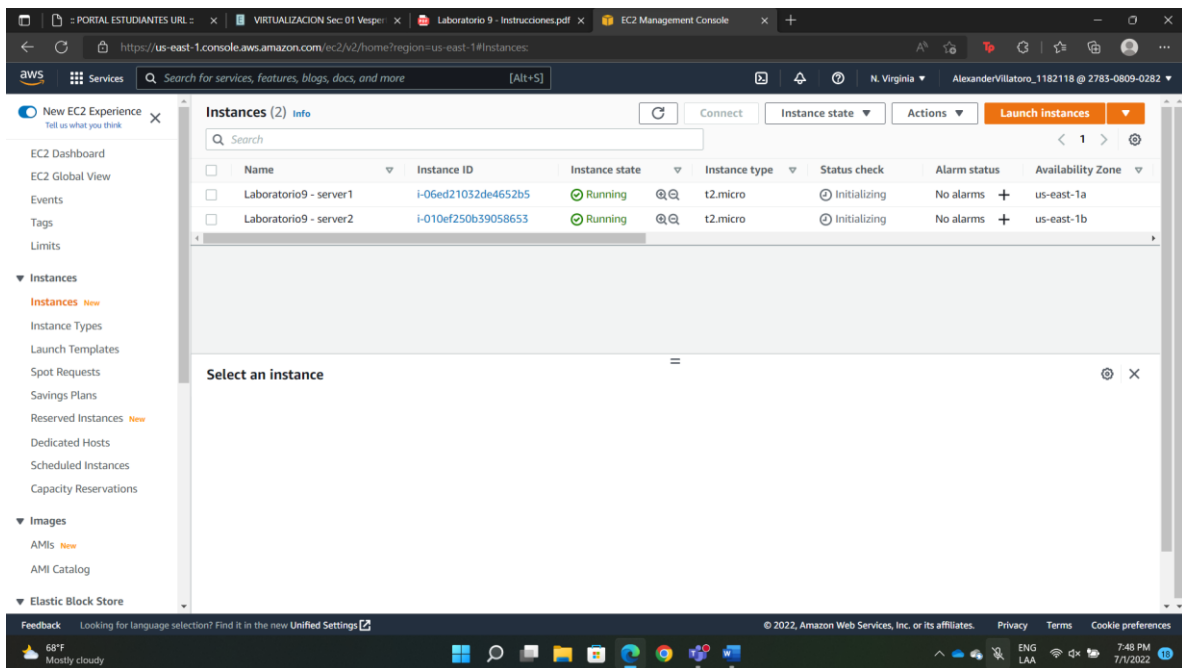
Select an internet gateway above

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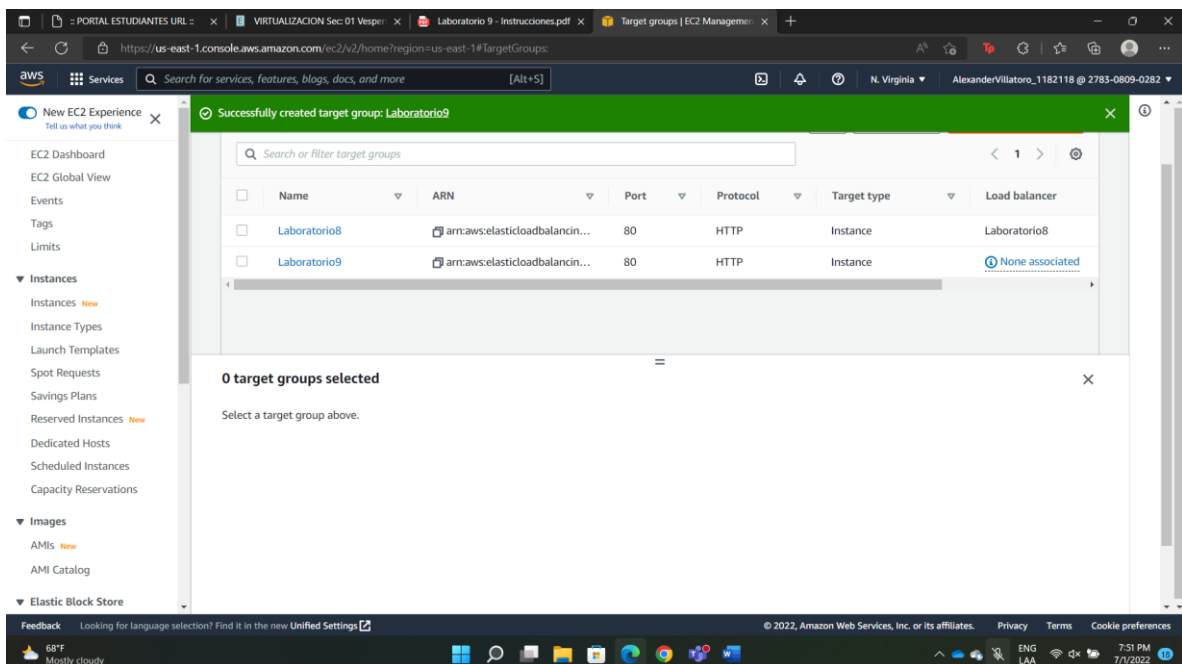
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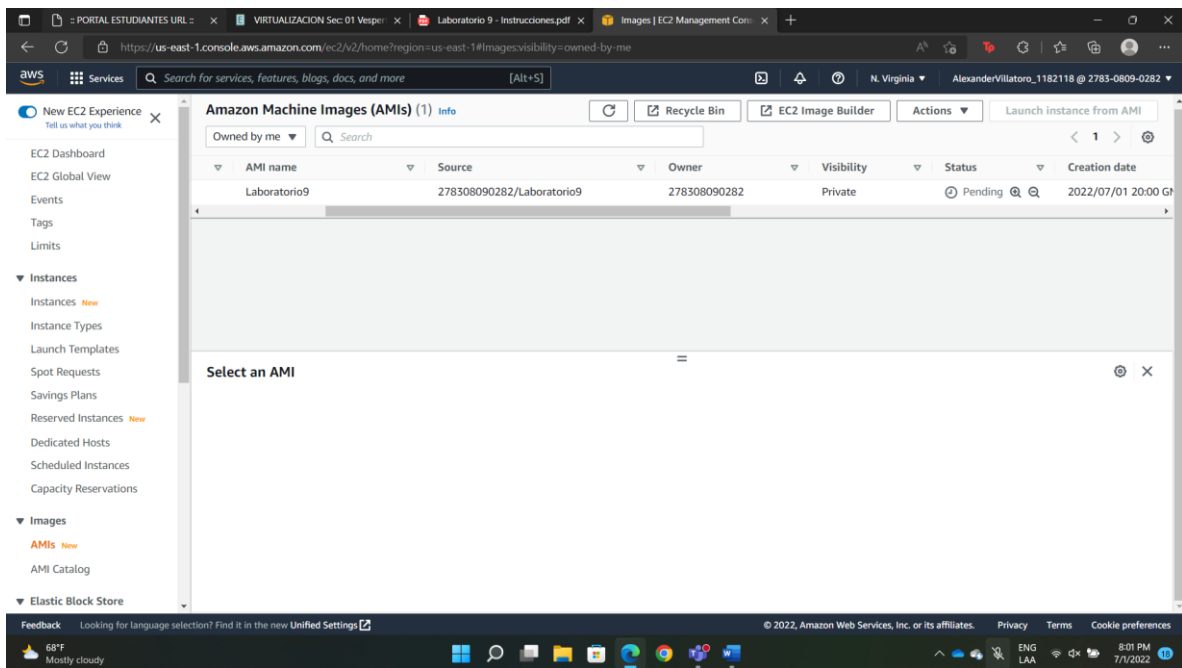
Crear una instancia EC2, utilizar el SG de la VPC. Crear un sitio web simple desde la User Data.



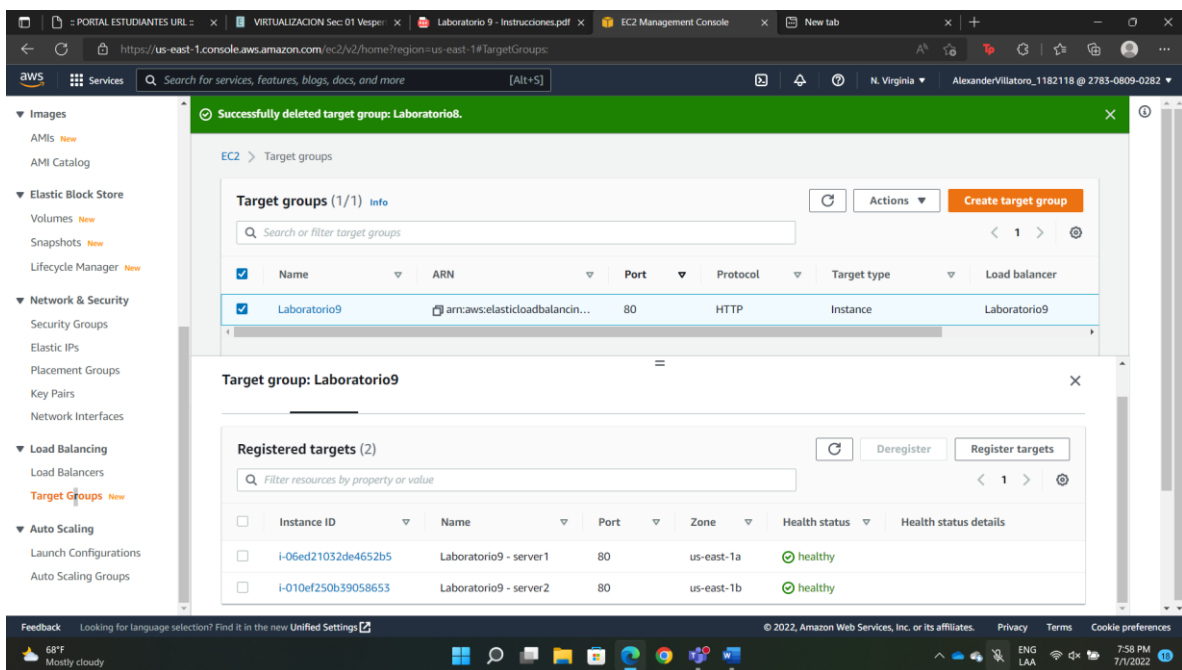
3. Crear una imagen de la instancia. a. Screenshot de la imagen creada.

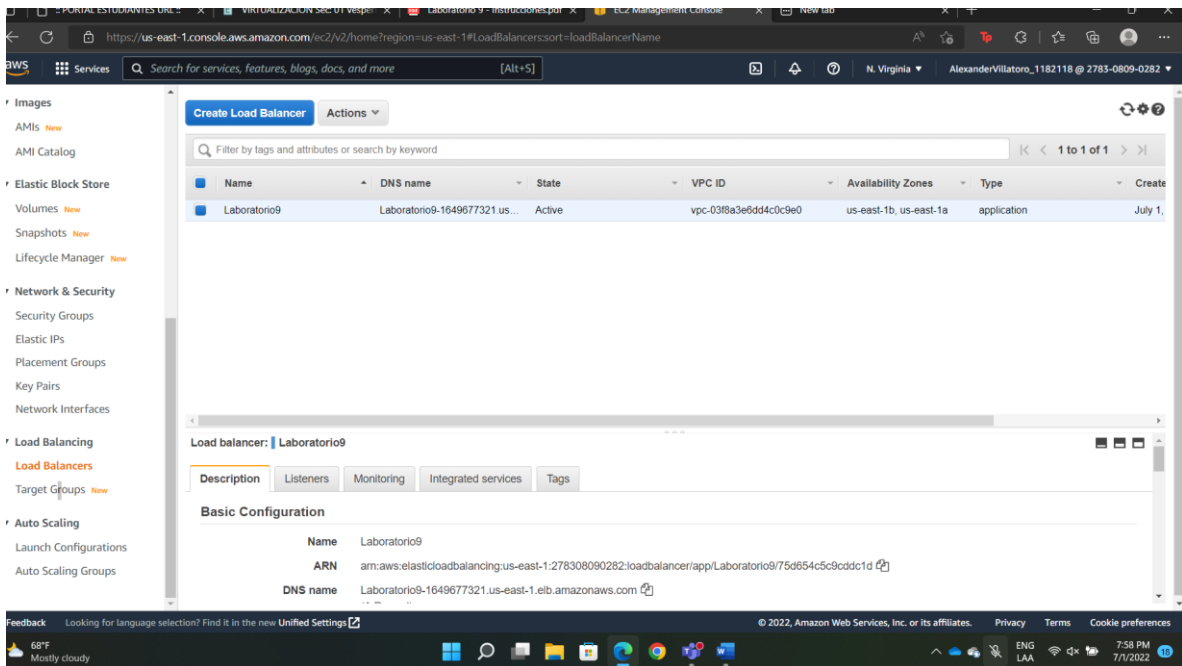


3. Crear una imagen de la instancia. a. Screenshot de la imagen creada

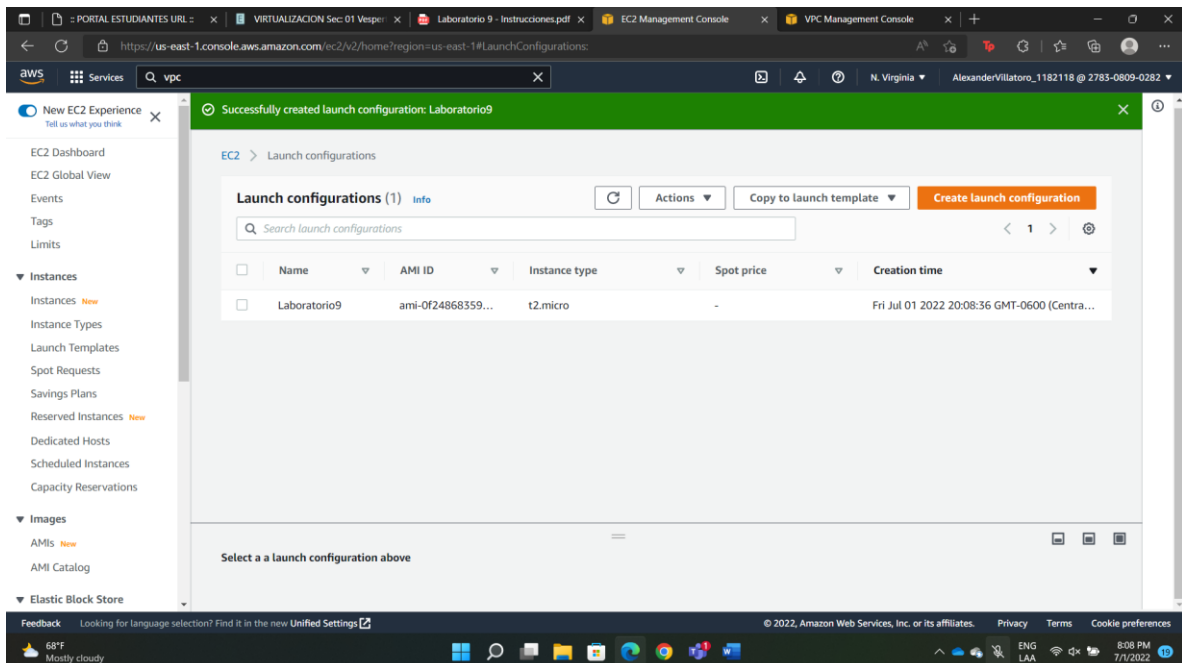


4. Crear un Target Group y un Classic Load Balancer. a. Screenshot del endpoint del Load Balancer funcionando.





6. Corroborar la funcionalidad del auto escalado. a. Screenshot de la creación automática de una segunda instancia al momento exacto de la creación del Auto Scaling Group. b. Screenshot de la creación forzada de una tercera instancia.



PORTAL ESTUDIANTES UI: x VIRTUALIZACION Sec 01 V: x Laboratorio 9 - Instruccione: x EC2 Management Console x VPC Management Console x Auto Scaling groups | EC2: x

https://us-east-1.console.aws.amazon.com/ec2/v2/home?region=us-east-1#AutoScalingGroups

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Images
AMIs **New**
AMI Catalog

Elastic Block Store
Volumes **New**
Snapshots **New**
Lifecycle Manager **New**

Network & Security
Security Groups
Elastic IPs
Placement Groups
Key Pairs
Network Interfaces

Load Balancing
Load Balancers
Target Groups **New**

Auto Scaling
Launch Configurations
Auto Scaling Groups

EC2 > Auto Scaling groups

Auto Scaling groups (1) info

Search your Auto Scaling groups

Create an Auto Scaling group

| <input type="checkbox"/> | Name | Launch template/configuration | Instances | Status | Desired capacity | Min | Max | Avail. |
|--------------------------|--------------|-------------------------------|-----------|--------|------------------|-----|-----|-----------|
| <input type="checkbox"/> | Laboratorio9 | Laboratorio9 | 3 | - | 3 | 1 | 5 | us-east-1 |

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PORTAL ESTUDIANTES UI: x VIRTUALIZACION Sec 01 V: x Laboratorio 9 - Instruccione: x Auto Scaling groups | EC2: x VPC Management Console x Target groups | EC2 Management Console: x

https://us-east-1.console.aws.amazon.com/ec2/v2/home?region=us-east-1#TargetGroups

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New EC2 Experience Tell us what you think

EC2 Dashboard
EC2 Global View
Events
Tags
Limits

Instances
Instances **New**
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances **New**
Dedicated Hosts
Scheduled Instances
Capacity Reservations

Images
AMIs **New**
AMI Catalog

Elastic Block Store

Target groups (1/1) info

Search or filter target groups

Actions Create target group

| <input checked="" type="checkbox"/> | Name | ARN | Port | Protocol | Target type | Load balancer |
|-------------------------------------|--------------|---|------|----------|-------------|---------------|
| <input checked="" type="checkbox"/> | Laboratorio9 | arn:aws:elasticloadbalancing:us-east-1:1182118:targetgroup/Laboratorio9:1182118 | 80 | HTTP | Instance | Laboratorio9 |

Target group: Laboratorio9

| <input type="checkbox"/> | Instance ID | Name | Port | Zone | Health status | Health status details |
|--------------------------|---------------------|------------------------|------|------------|---------------|-----------------------|
| <input type="checkbox"/> | i-05a6f0ce96e8c758b | | 80 | us-east-1a | healthy | |
| <input type="checkbox"/> | i-010ef250b39058653 | Laboratorio9 - server2 | 80 | us-east-1b | healthy | |
| <input type="checkbox"/> | i-06ed21032de4652b5 | Laboratorio9 - server1 | 80 | us-east-1a | healthy | |
| <input type="checkbox"/> | i-004499b058f812305 | | 80 | us-east-1b | healthy | |
| <input type="checkbox"/> | i-06b6bf7afb6ee255b | | 80 | us-east-1a | healthy | |

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Instances (5) info

Search

| | Name | Instance ID | Instance state | Instance type | Status check | Alarm status | Availability Zone |
|--------------------------|------------------------|---------------------|----------------|---------------|-------------------|--------------|-------------------|
| <input type="checkbox"/> | - | i-06b6bf7afb6ee255b | Running | t2.micro | 2/2 checks passed | No alarms | us-east-1a |
| <input type="checkbox"/> | - | i-05a6f0ce96e8c758b | Running | t2.micro | 2/2 checks passed | No alarms | us-east-1a |
| <input type="checkbox"/> | Laboratorio9 - server1 | i-06ed21032de4652b5 | Running | t2.micro | 2/2 checks passed | No alarms | us-east-1a |
| <input type="checkbox"/> | Laboratorio9 - server2 | i-010ef250b39058653 | Running | t2.micro | 2/2 checks passed | No alarms | us-east-1b |
| <input type="checkbox"/> | - | i-004499b038f812305 | Running | t2.micro | 2/2 checks passed | No alarms | us-east-1b |

Select an instance

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EC2 > Auto Scaling groups > Laboratorio9

Details Activity Automatic scaling Instance management Monitoring Instance refresh

Group details Edit

| | | | |
|------------------|---|----------------------------|--|
| Desired capacity | 0 | Auto Scaling group name | Laboratorio9 |
| Minimum capacity | 0 | Date created | Fri Jul 01 2022 20:16:29 GMT-0600 (Central Standard Time) |
| Maximum capacity | 0 | Amazon Resource Name (ARN) | arn:aws:autoscaling:us-east-1:278308090282:autoScalingGroup:c56e60a1-5508-4054-beb8-49466e9c91ee:autoScalingGroupName/Laboratorio9 |

Launch configuration Edit

| | | | | | |
|----------------------|--------------|---------------|-----------------------|-----------------|----------------------|
| Launch configuration | Laboratorio9 | AMI ID | ami-0f248683593b4e984 | Security groups | sg-008cc544ce13b180f |
| Instance type | | Key pair name | | Create time | |

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Limits

▼ Instances

Instances new

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances new

Dedicated Hosts

Scheduled Instances

Capacity Reservations

▼ Images

AMIs new

AMI Catalog

▼ Elastic Block Store

Volumes new

Snapshots new

Lifecycle Manager new

▼ Network & Security

Security Groups

Elastic IPs

Placement Groups

Key Pairs

Network Interfaces

Target groups (1/1) info

Search or filter target groups

✓

Name

ARN

Port

Protocol

Target type

Load balance

✓

Laboratorio8

arn:aws:elasticloadbalancing:us-east-1:1230903670:targetgroup/Laboratorio8

80

HTTP

Instance

Laboratorio8

Target group: Laboratorio8

Details

Targets

Monitoring

Health checks

Attributes

Tags

Registered targets (4)

Filter resources by property or value

Instance ID

Name

Port

Zone

Health status

Health status details

☐

i-0d59385f59e824fee

80

us-east-1b

healthy

☐

i-06aaf18b5494a1db0

80

us-east-1a

healthy

☐

i-015c0907105de368f

80

us-east-1a

healthy

☐

i-0e02696d7d4a067bb

80

us-east-1b

healthy