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Laboratorio # 5

```
Windows PowerShell
PS C:\Users\alexg\Desktop\Laboratorio5> docker build -t laboratorio5:latest
```

```
Windows PowerShell
=> transferring context: 4098 0.0s
=> [1/2] FROM docker.io/library/nginx:alpine@sha256:a74534e76ee1121d418fa7394ca930eb67 3.2s
=> resolve docker.io/library/nginx:alpine@sha256:a74534e76ee1121d418fa7394ca930eb67 0.0s
=> sha256:e00351ea626cd356c69e58d33181233b47a904d3b6ee508948d6cc221d7b9 603B / 603B 0.3s
=> sha256:529db430e042ecef071f2e88267cee6da18f8ab44d66a0c44348886fd 1.57kB / 1.57kB 0.0s
=> sha256:df9b9388f04ad6279a7410b85cedfdb2208c0a003da7ab5613af7107 2.81MB / 2.81MB 0.6s
=> sha256:a285f0f83eed13cf71ccb560c31dd31b5eb7be0cadb4f43319d6de59a 7.34MB / 7.34MB 1.8s
=> sha256:a74534e76ee1121d418fa7394ca930eb67440deda413848bc67c68138 1.65kB / 1.65kB 0.0s
=> sha256:b1c3acb28882519cf6d3a4d7fe2b21d0ae20bde9cfd2c08a7de057f8c 8.75kB / 8.75kB 0.0s
=> sha256:06f5cb628050fa03f0928769c767bba57656e84312961cc39fbff63ae48c2 893B / 893B 0.5s
=> sha256:32261d4e220f3a41084ad35886169f9d753ffca4f8824ad934a43b1cddb8 664B / 664B 0.6s
=> extracting sha256:df9b9388f04ad6279a7410b85cedfdb2208c0a003da7ab5613af710791481 0.4s
=> sha256:9da77f8e409edbb2c42db3d6a70f31754ac6e35c9ae981555b9f42ea4 1.39kB / 1.39kB 0.7s
=> extracting sha256:a285f0f83eed13cf71ccb560c31dd31b5eb7be0cadb4f43319d6de59aa4e3c 0.6s
=> extracting sha256:e00351ea626cd356c69e58d33181233b47a904d3b6ee508948d6cc221d7b9c 0.0s
=> extracting sha256:06f5cb628050fa03f0928769c767bba57656e84312961cc39fbff63ae48c2f 0.0s
=> extracting sha256:32261d4e220f3a41084ad35886169f9d753ffca4f8824ad934a43b1cddb8 0.0s
=> extracting sha256:9da77f8e409edbb2c42db3d6a70f31754ac6e35c9ae981555b9f42ea42008a 0.0s
=> [2/2] COPY . /usr/share/nginx/html 0.1s
=> exporting to image 0.0s
=> exporting layers 0.0s
=> writing image sha256:1fe478e2c68af0fd353c944e0734da09377812ff76329d03ac9adc3bb6d 0.0s
=> naming to docker.io/library/laboratorio5:latest 0.0s

Use 'docker scan' to run Snyk tests against images to find vulnerabilities and learn how to fix them
PS C:\Users\alexg\Desktop\Laboratorio5>
PS C:\Users\alexg\Desktop\Laboratorio5> docker image ls
REPOSITORY TAG IMAGE ID CREATED SIZE
laboratorio5 latest 1fe478e2c68a About a minute ago 23.4MB
PS C:\Users\alexg\Desktop\Laboratorio5>
```

Attach internet gateway | VPC Management Console | PORTAL ESTUDIANTES URL | VIRTUALIZACION (Práctica) Sec

https://us-east-2.console.aws.amazon.com/vpc/home?region=us-east-2#AttachInternetGateway:internetGatewayId=igw-0e4db66a620dbadc2

Services Search for services, features, blogs, docs, and more [Alt+S]

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Attach to VPC (igw-0e4db66a620dbadc2) info

VPC
Attach an internet gateway to a VPC to enable the VPC to communicate with the internet. Specify the VPC to attach below.

Available VPCs
Attach the internet gateway to this VPC.

Q vpc-03760501bc76571ee X

► AWS Command Line Interface command

Cancel Attach Internet gateway

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VPC Management Console | PORTAL ESTUDIANTES URL | VIRTUALIZACION (Práctica) Sec

https://us-east-2.console.aws.amazon.com/vpc/home?region=us-east-2#EditRoutes:RouteTableId=rtb-026c46912b4c01ff3

Services Search for services, features, blogs, docs, and more [Alt+S]

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Edit routes

Destination	Target	Status	Propagated
172.31.0.0/16	Q local X	Active	No
Q 0.0.0.0/0 X	Q igw-0e4db66a620dbadc2 X	-	No

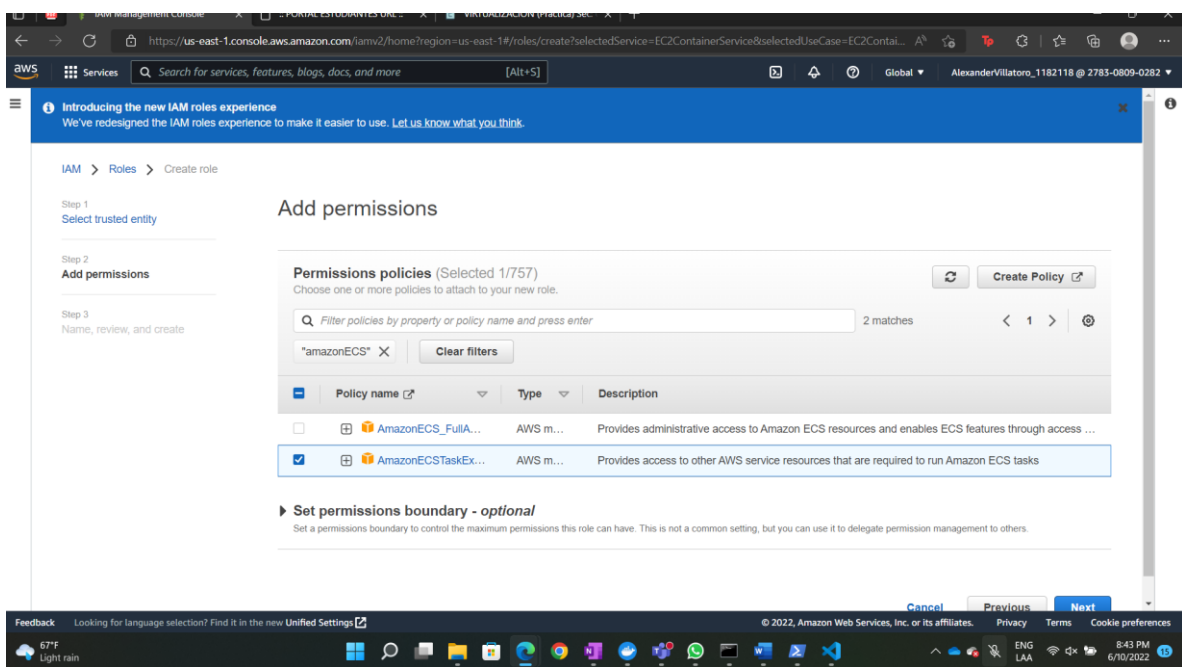
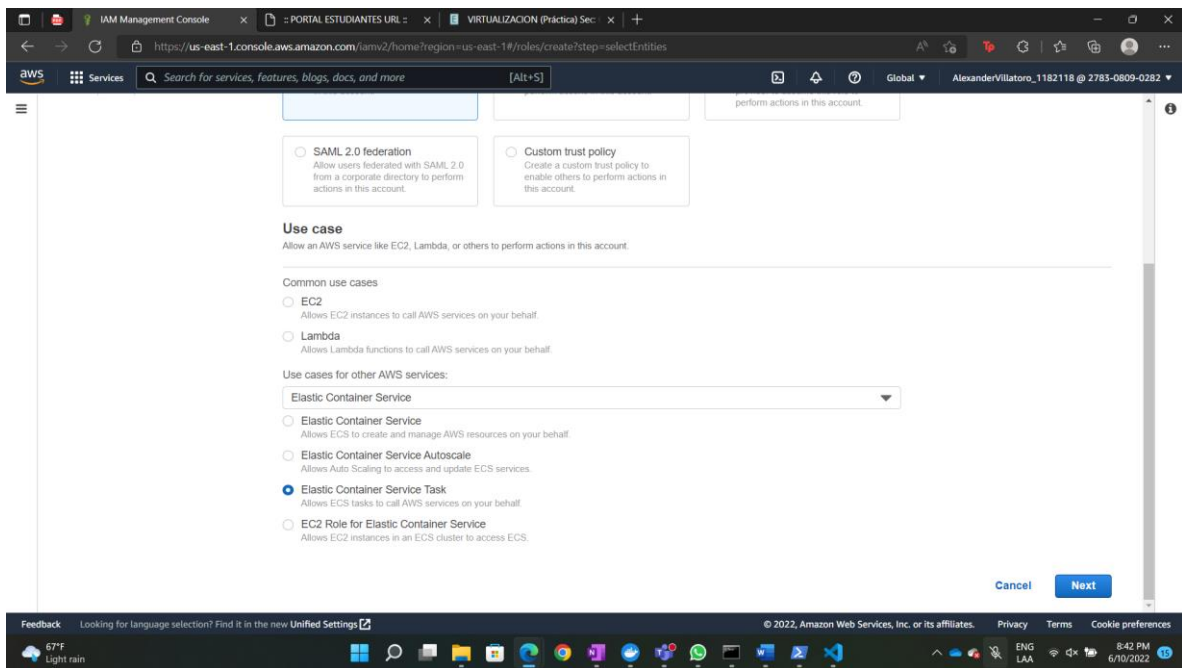
Add route

Cancel Preview Save changes

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Identity and Access Management (IAM)

Search IAM

Dashboard

Access management

- User groups
- Users
- Roles**
- Policies
- Identity providers
- Account settings

Access reports

- Access analyzer
- Archive rules
- Analizers
- Settings
- Credential report
- Organization activity
- Service control policies (SCPs)

Introducing the new IAM roles experience

Role Laboratorio5 created

View role

Roles (5)

An IAM role is an identity you can create that has specific permissions with credentials that are valid for short durations. Roles can be assumed by entities that you trust.

Search

Role name	Trusted entities	Last activity
<input type="checkbox"/> AWSServiceRoleForAPIGateway	AWS Service: ops.apigateway (Service-Linked Role)	-
<input type="checkbox"/> AWSServiceRoleForSupport	AWS Service: support (Service-Linked Role)	-
<input type="checkbox"/> AWSServiceRoleForTrustedAdvisor	AWS Service: trustedadvisor (Service-Linked Role)	-
<input type="checkbox"/> FunctionArquile-slab08fd	AWS Service: lambda	401 days ago
<input type="checkbox"/> Laboratorio5	AWS Service: ecs-tasks	-

Visibility settings

Choose the visibility setting for the repository.

☐ Private

Access is managed by IAM and repository policy permissions.

☒ Public

Publicly visible and accessible for image pulls.

Once a repository is created, the visibility setting of the repository can't be changed.

Detail

Repository name

A namespace can be included with your repository name (e.g. namespace/repo-name).

public.ecr.aws/registry-alias/ laboratorio5

12 out of 205 characters maximum (2 minimum). The name must start with a letter and can only contain lowercase letters, numbers, hyphens, underscores, periods and forward slashes.

A default alias is associated with your public registry once your first public repository is created. The registry alias is displayed as a prefix to the repository name in the repository URI. A custom alias can be requested on the Registry settings page.

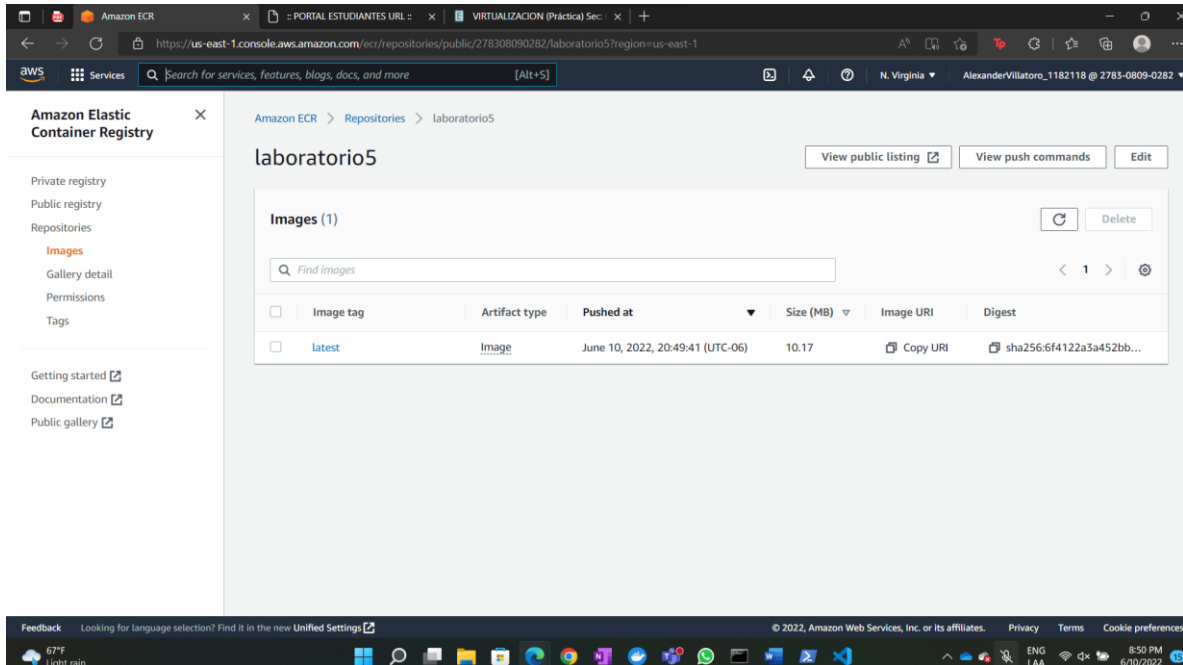
Repository logo - optional

Choose a local image file to use as the repository logo.

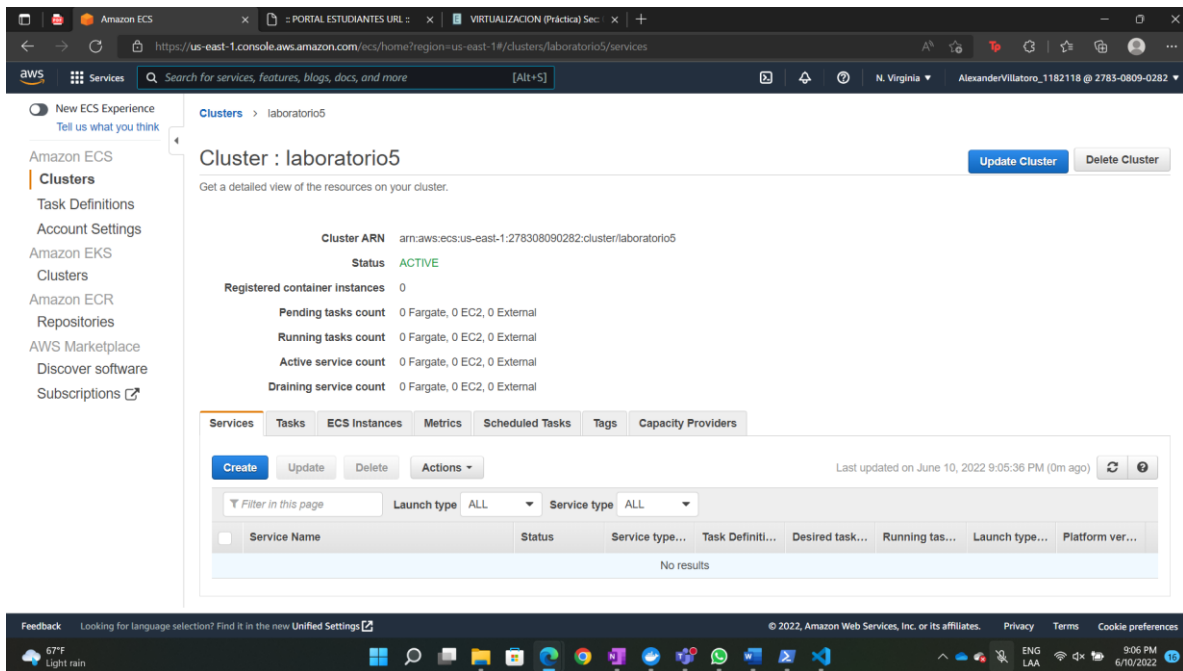
Upload file Reset

The supported file format is PNG. The supported image dimensions for both height and width should be a minimum of 60 pixels and a maximum of 2048 pixels. The maximum file size is 500 KB.

Imagen Docker cargada en ECR.



Cluster creado.



Amazon ECS

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VIRTUALIZACION (Práctica) Sec

https://us-east-1.console.aws.amazon.com/ecs/home?region=us-east-1#/taskDefinitions/create

Task size

The task size allows you to specify a fixed size for your task. Task size is required for tasks using the Fargate launch type and is optional for the EC2 or External launch type. Container level memory settings are optional when task size is set. Task size is not supported for Windows containers.

Task memory (GB) 0.5GB

The valid memory range for 0.25 vCPU is: 0.5GB - 2GB.

Task CPU (vCPU) 0.25 vCPU

The valid CPU for 0.5 GB memory is: 0.25 vCPU

Task memory maximum allocation for container memory reservation

Task CPU maximum allocation for containers

Container definitions

Add container

Container ...	Image	Hard/Soft ...	CPU Unit...	GPU	Inference A...	Essential ...
No results						

Service integration

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Amazon ECS

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Amazon ECR

https://us-east-1.console.aws.amazon.com/ecs/home?region=us-east-1#/taskDefinitions/create

Add container

Standard

Container name* laboratorio5

Image* public.ecr.aws/5o9k2k1/laboratorio5

Private repository authentication* ☐

Memory Limits (MiB) Soft limit 128

Add Hard limit

Define hard and/or soft memory limits in MiB for your container. Hard and soft limits correspond to the 'memory' and 'memoryReservation' parameters, respectively, in task definitions. ECS recommends 300-500 MiB as a starting point for web applications.

Port mappings

Container port	Protocol
	tcp

* Required

Cancel Add

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Amazon ECS

PORTAL ESTUDIANTES URL : VIRTUALIZACION (Práctica) Sec Amazon ECR

https://us-east-1.console.aws.amazon.com/ecs/home?region=us-east-1#/taskDefinitions/create

Task CPU maximum allocation for containers

0 512 shared of 512 MiB

0 256 shared of 256 CPU units

Container definitions

Add container

Container ...	Image	Hard/Soft ...	CPU Unit...	GPU	Inference A...	Essential ...
laborat...	public.ecr.a...	--/--				true

Service integration

AWS App Mesh is a service mesh based on the Envoy proxy that makes it easy to monitor and control microservices. App Mesh standardizes how your microservices communicate, giving you end-to-end visibility and helping to ensure high-availability for your applications. To enable App Mesh integration, complete the following fields and then choose **Apply** which will auto-configure the proxy configuration. [Learn more](#)

Enable App Mesh integration ☐

Proxy configuration

The configuration details for App Mesh proxy. These fields are auto-configured for you after applying the App Mesh integration options above, otherwise must be configured manually. [Learn More](#)

Enable proxy configuration ☐

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Launch Status

Task definition status - 2 of 2 completed

Create Task Definition: laboratorio5

laboratorio5 succeeded

Create CloudWatch Log Group

CloudWatch Log Group created
CloudWatch Log Group /ecs/laboratorio5

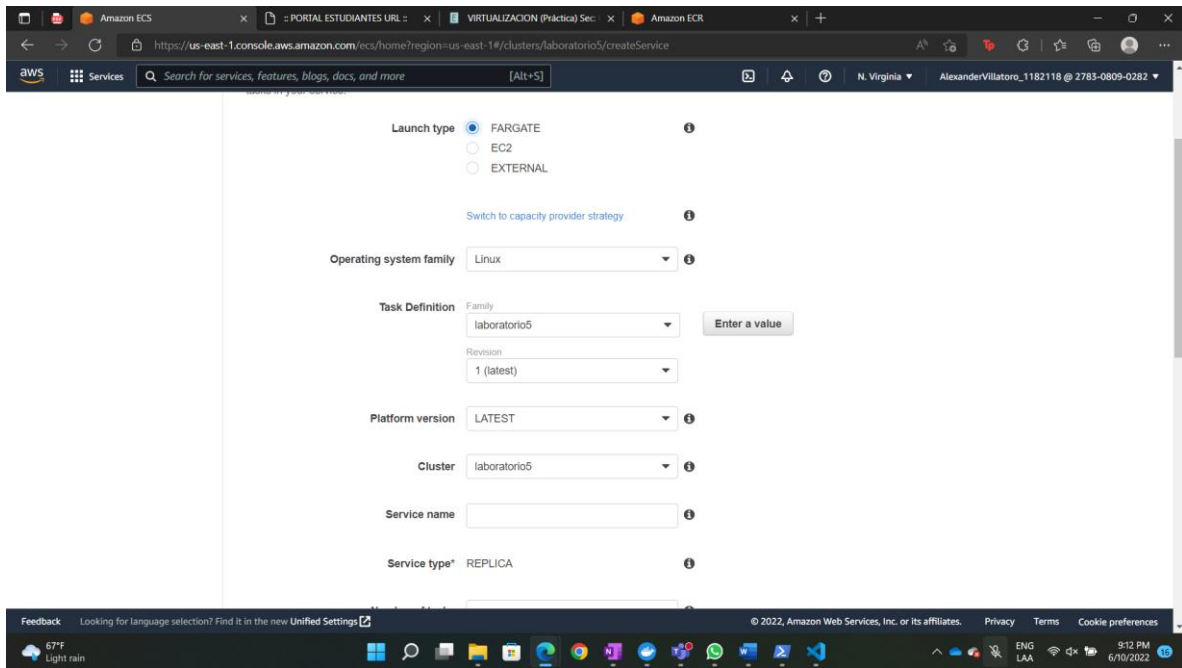
Back View task definition

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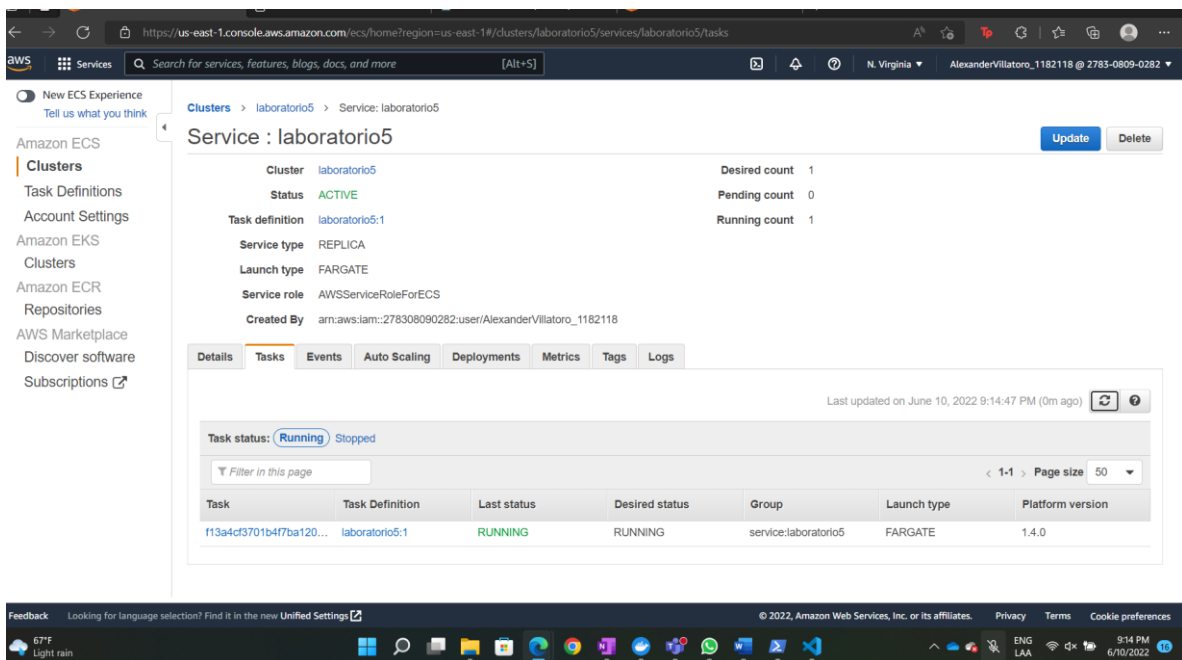
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Task en Cluster corriendo.



Amazon ECS console showing Service: laboratorio5. The service is ACTIVE with 1 Desired count, 1 Pending count, and 0 Running count. The task definition is laboratorio5:1, service type is REPLIC, launch type is FARGATE, and service role is AWSServiceRoleForECS. The task status is Running. The task definition table shows the task is in PROVISIONING status, with a desired status of RUNNING, group service:laboratorio5, launch type FARGATE, and platform version 1.4.0.

Task	Task Definition	Last status	Desired status	Group	Launch type	Platform version
f13a4cf3701b4f7ba120...	laboratorio5:1	PROVISIONING	RUNNING	service:laboratorio5	FARGATE	1.4.0

Validación de IP corriendo y mostrando webapp

Browser window showing the web application running on IP 18.207.135.106. The page displays "Hola Mundo".

Windows taskbar showing the system clock at 9:18 PM on 6/10/2022, with weather information (67°F, Light rain) and various application icons.