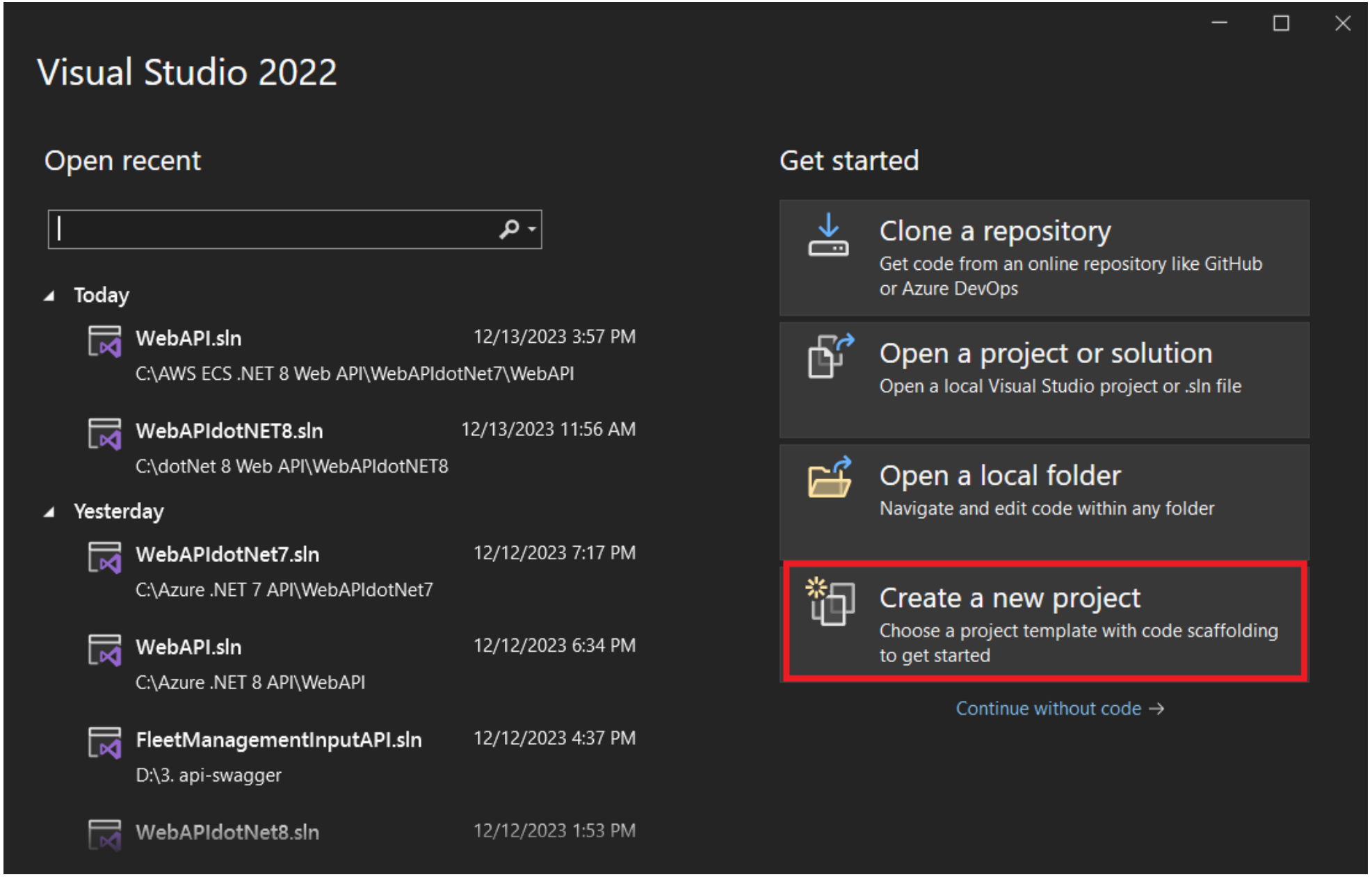
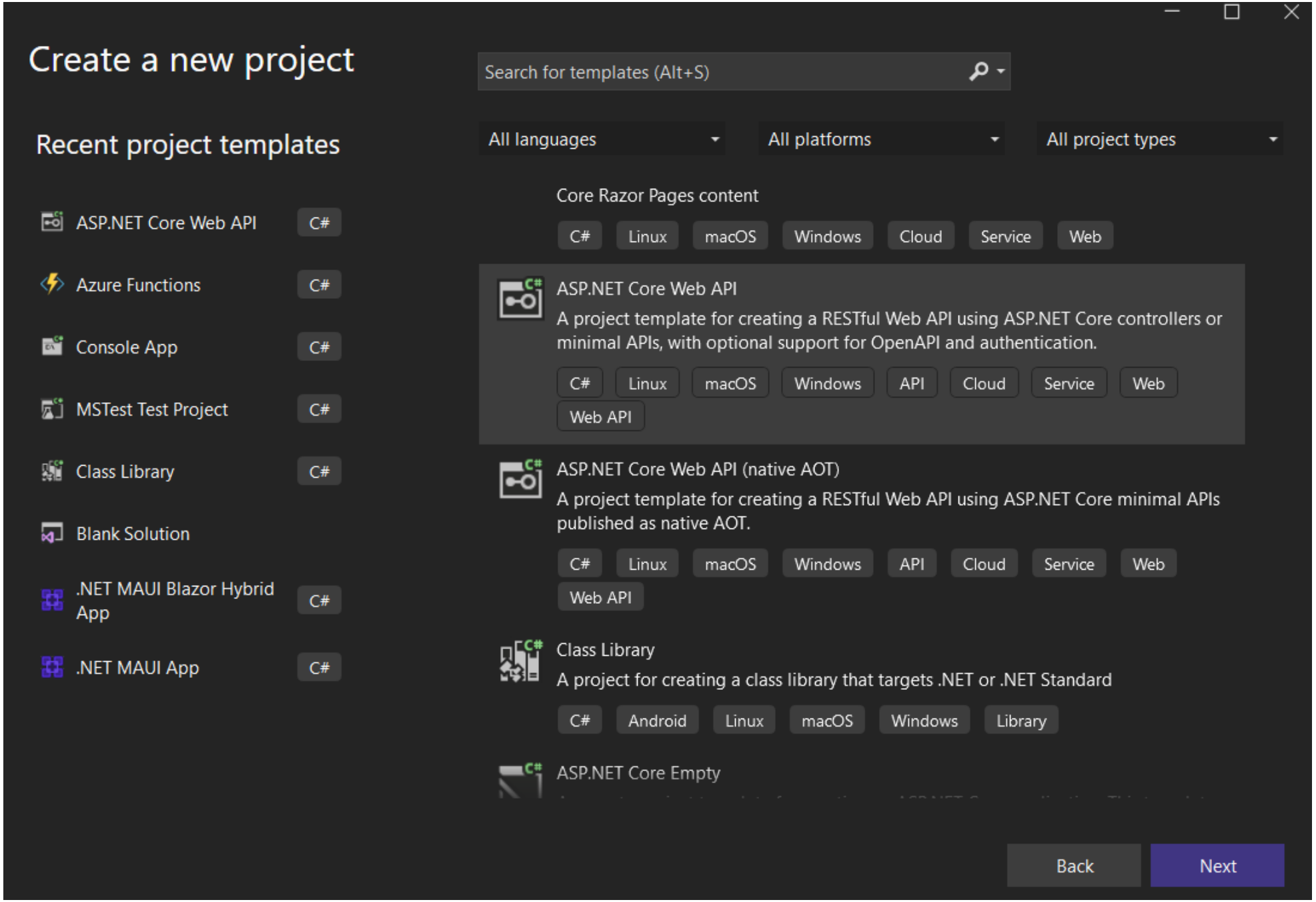
AWS ECS: How to deploy .NET 7 Web API

1. Create a Web API .NET 7 in Visual Studio 2022 Community Edition

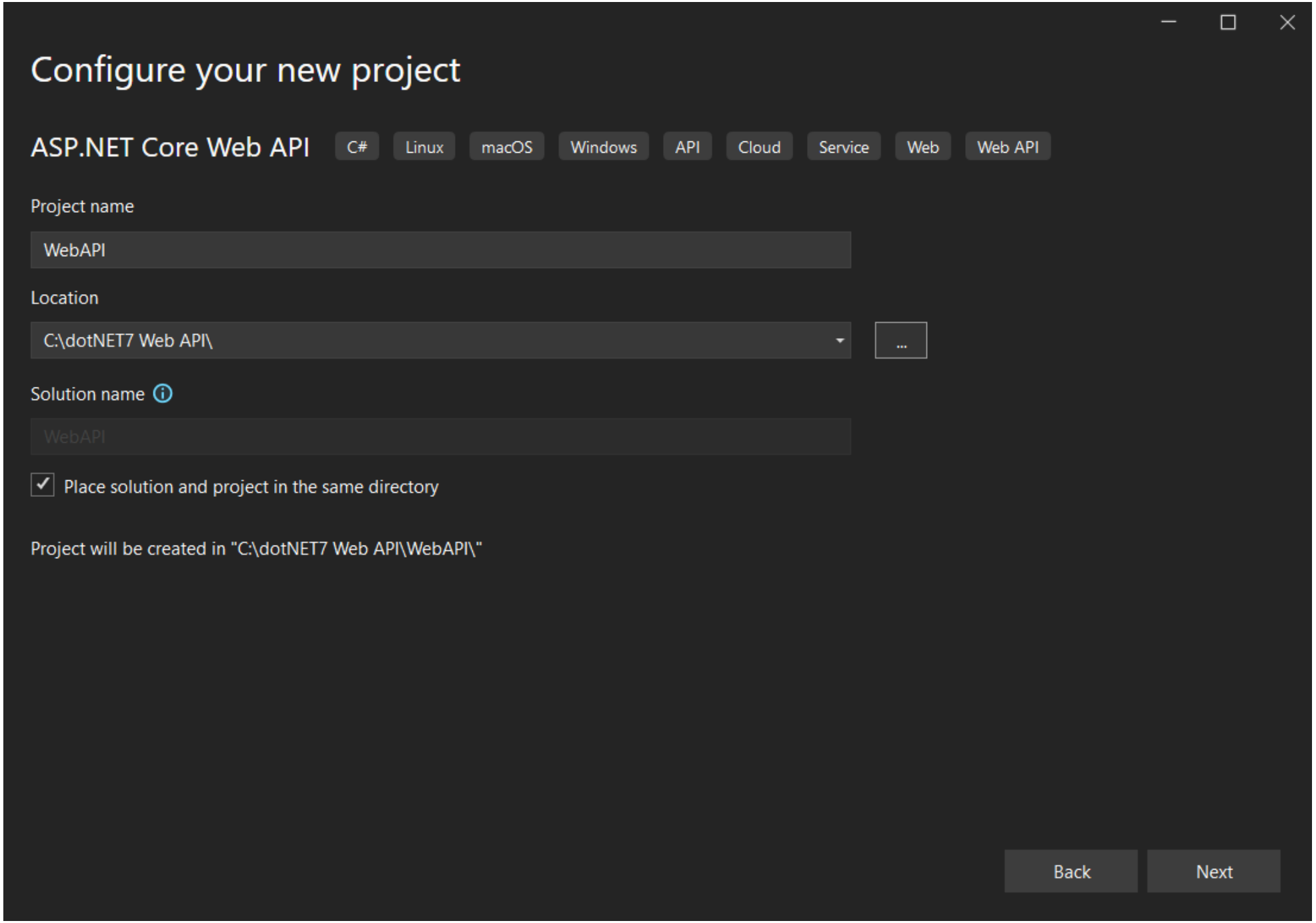
Run Visual Studio 2022 and create a new Web API



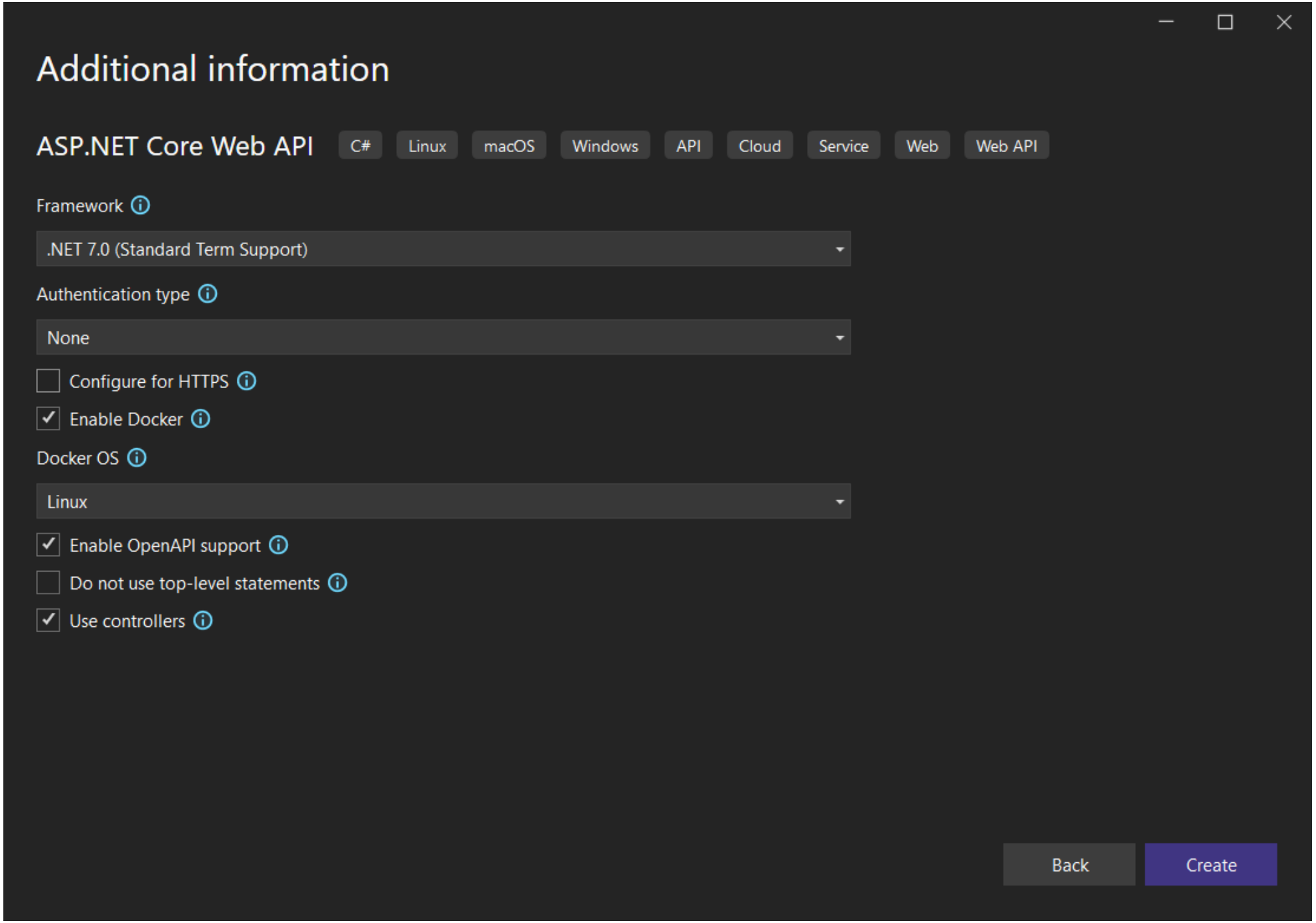
Select the Web API .NET Core template



We set the solution name and the location

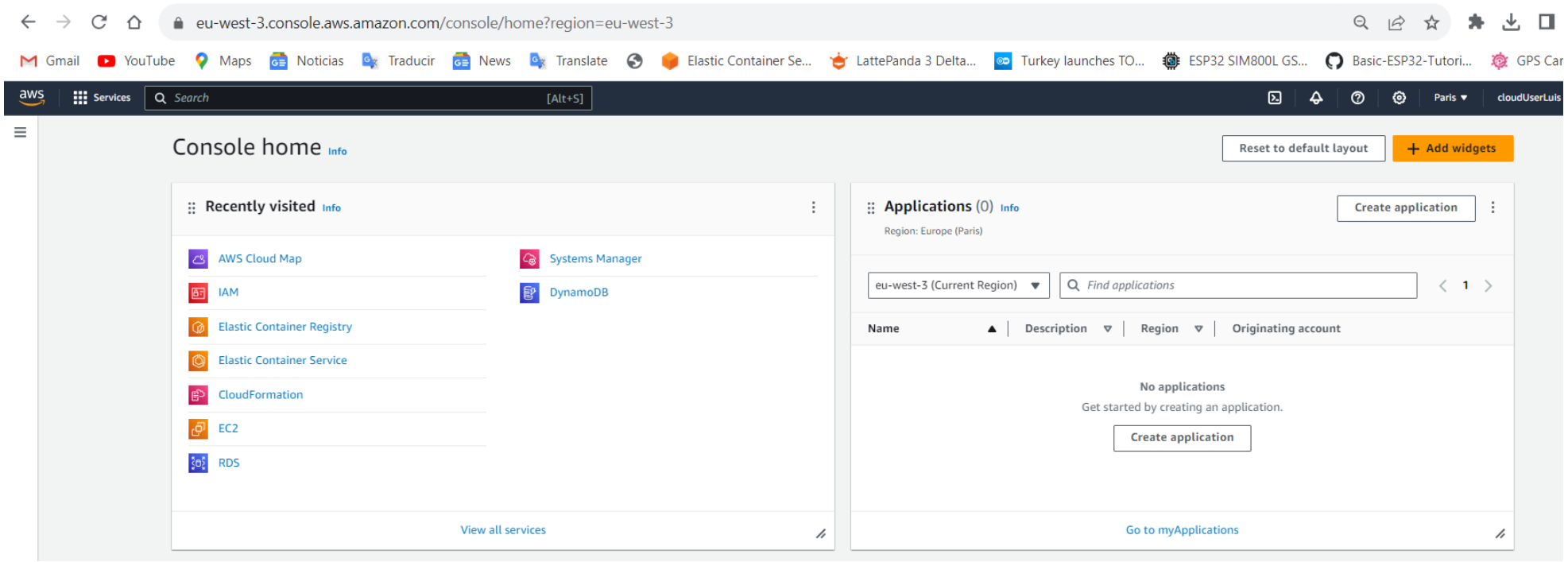


We select the framework .NET 7, we Enable Docker(for automatically create the dockerfile), we Enable OpenAPI and Use controllers

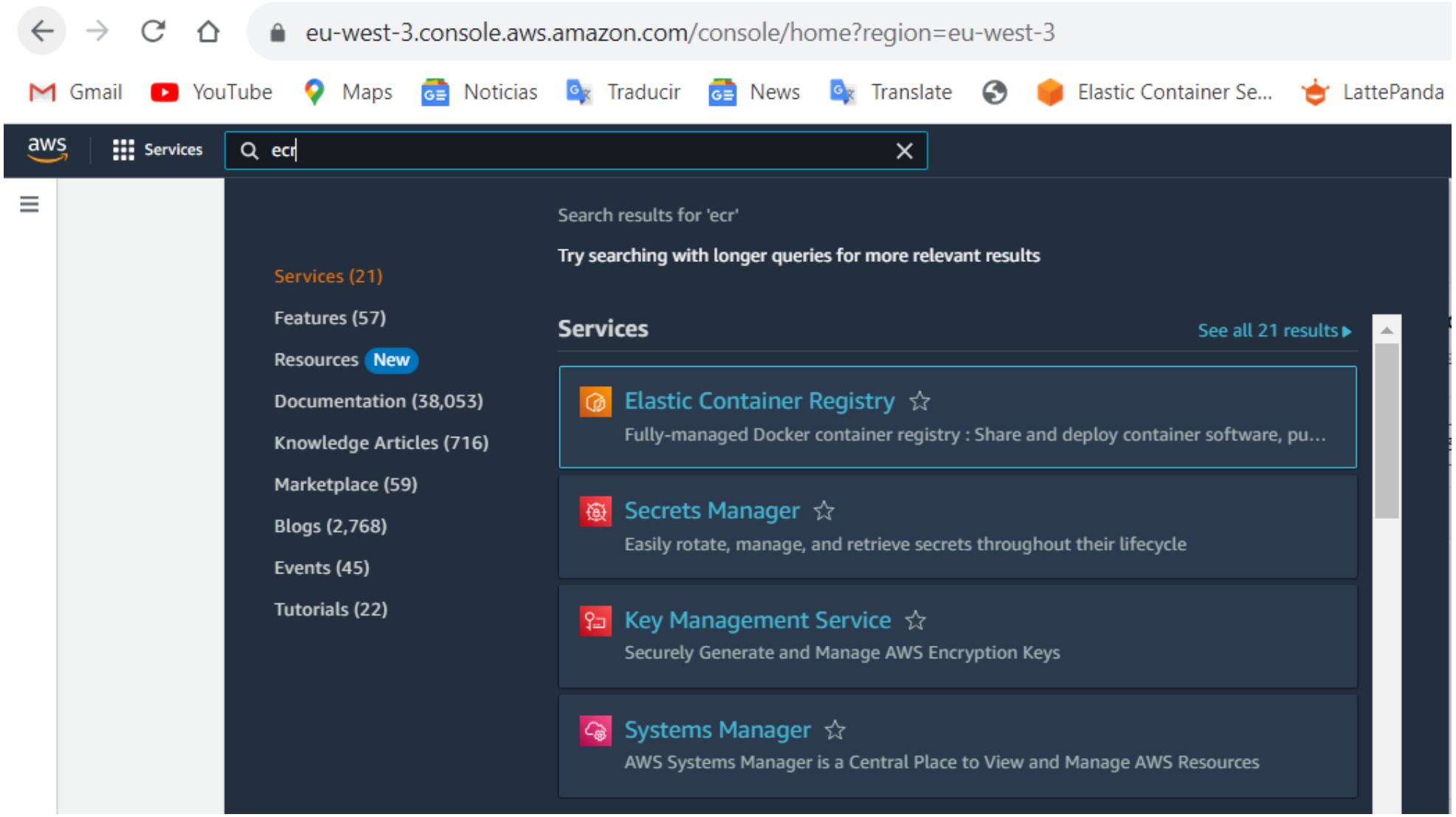

Additional information
ASP.NET Core Web API
C#
Linux
macOS
Windows
API
Cloud
Service
Web
Web API
Framework
.NET 7.0 (Standard Term Support)
Authentication type
None
Configure for HTTPS
Enable Docker
Docker OS
Linux
Enable OpenAPI support
Do not use top-level statements
Use controllers
Back
Create

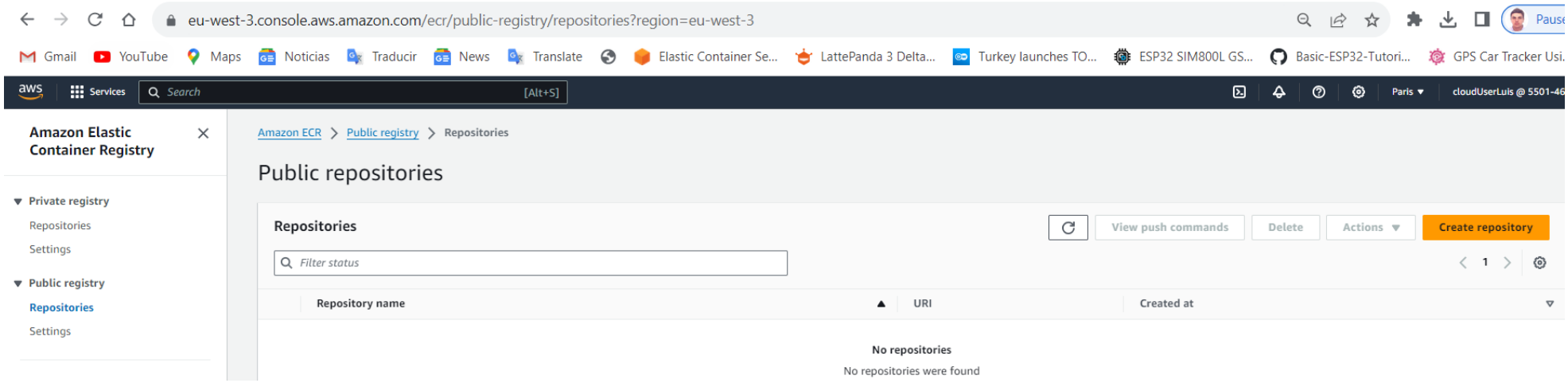
2. Create the docker image and upload it to AWS ECR

We log in to AWS

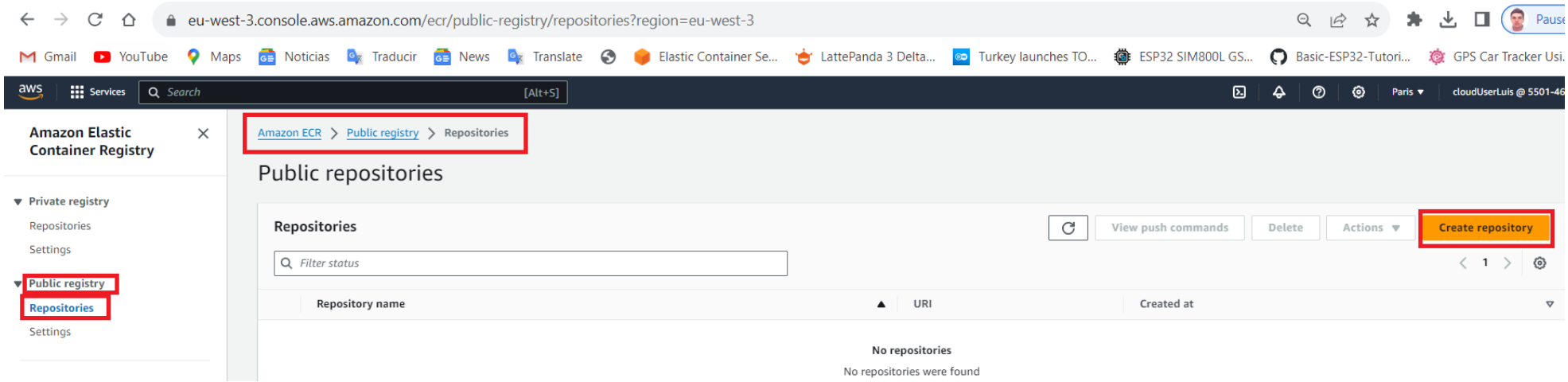


We navigate to the AWS ECR service

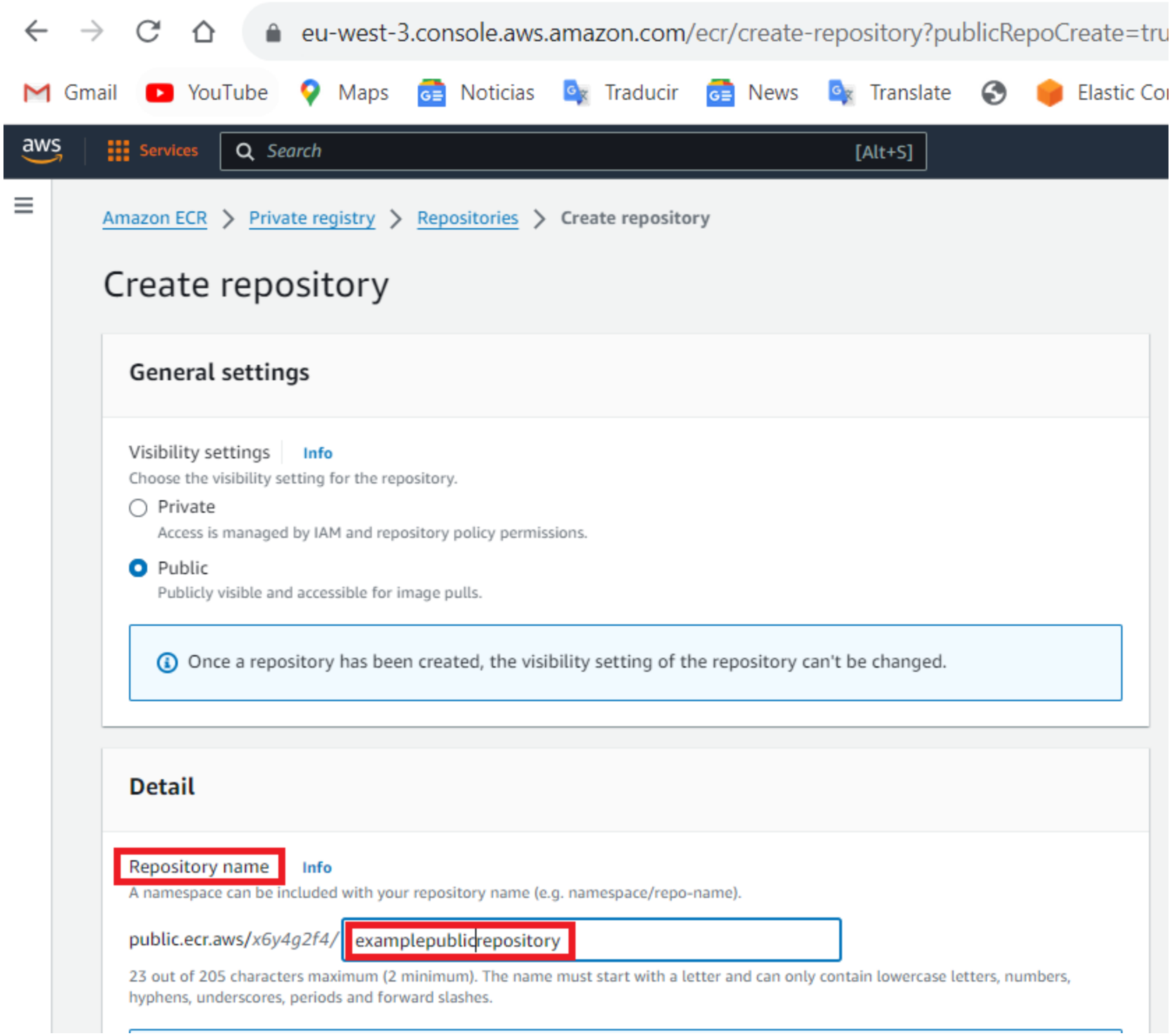

eu-west-3.console.aws.amazon.com/console/home?region=eu-west-3
Gmail
YouTube
Maps
Noticias
Traducir
News
Translate
Elastic Container Se...
LattePanda
aws
Services
ecr
Search results for 'ecr'
Try searching with longer queries for more relevant results
Services (21)
Features (57)
Resources New
Documentation (38,053)
Knowledge Articles (716)
Marketplace (59)
Blogs (2,768)
Events (45)
Tutorials (22)
Services
See all 21 results
Elastic Container Registry
Fully-managed Docker container registry : Share and deploy container software, pu...
Secrets Manager
Easily rotate, manage, and retrieve secrets throughout their lifecycle
Key Management Service
Securely Generate and Manage AWS Encryption Keys
Systems Manager
AWS Systems Manager is a Central Place to View and Manage AWS Resources



We create a new Public Repository

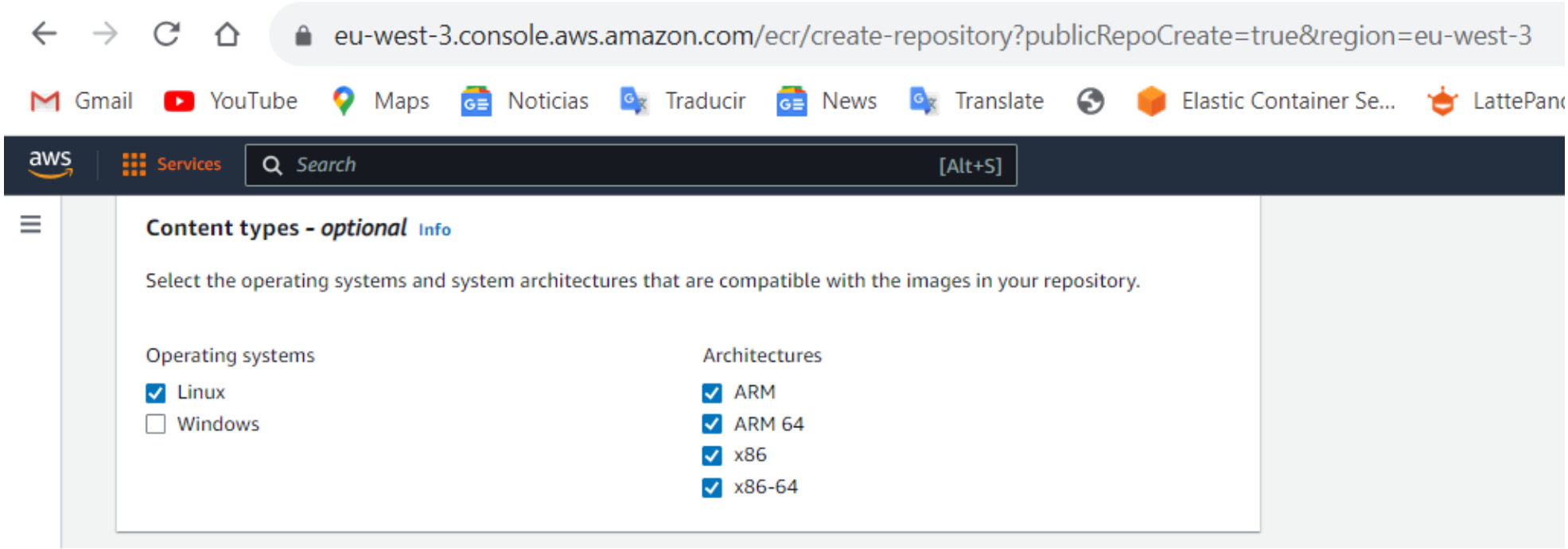


Set the Public repo name


eu-west-3.console.aws.amazon.com/ecr/create-repository?publicRepoCreate=tru
Gmail
YouTube
Maps
Noticias
Traducir
News
Translate
Elastic Co
aws
Services
Search
[Alt+S]
Amazon ECR > Private registry > Repositories > Create repository
Create repository
General settings
Visibility settings
Info
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 has been created, the visibility setting of the repository can't be changed.
Detail
Repository name
Info
A namespace can be included with your repository name (e.g. namespace/repo-name).
public.ecr.aws/x6y4g2f4/
examplepublicrepository
23 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 has been created. The registry alias is displayed as a prefix to the repository name in the repository URI. A customised alias can be requested on the Registry settings page.

We select the operating systems and system architectures that are compatible with the images in your repository



About - *optional* Info View example

Provide a detailed description of the repository. Identify what is included in the repository, any licensing details or other relevant information.

Describe this repository

0 out of 10,240 characters maximum. Use the GitHub Flavoured Markdown format for the text. Find out more

Preview

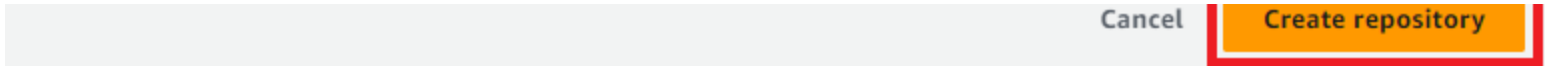
Usage - *optional* Info View example

Provide detailed information about how to use the images in the repository. This provides context, support information and additional usage details for users of the repository.

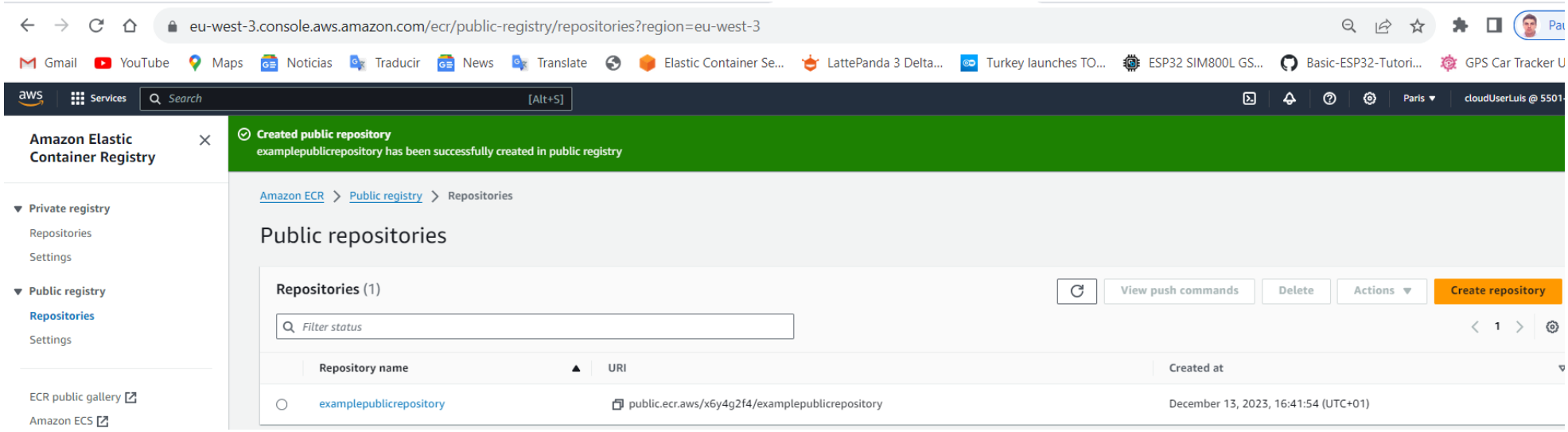
Usage information

0 out of 10,240 characters maximum. Use the GitHub Flavoured Markdown format for the text. Find out more

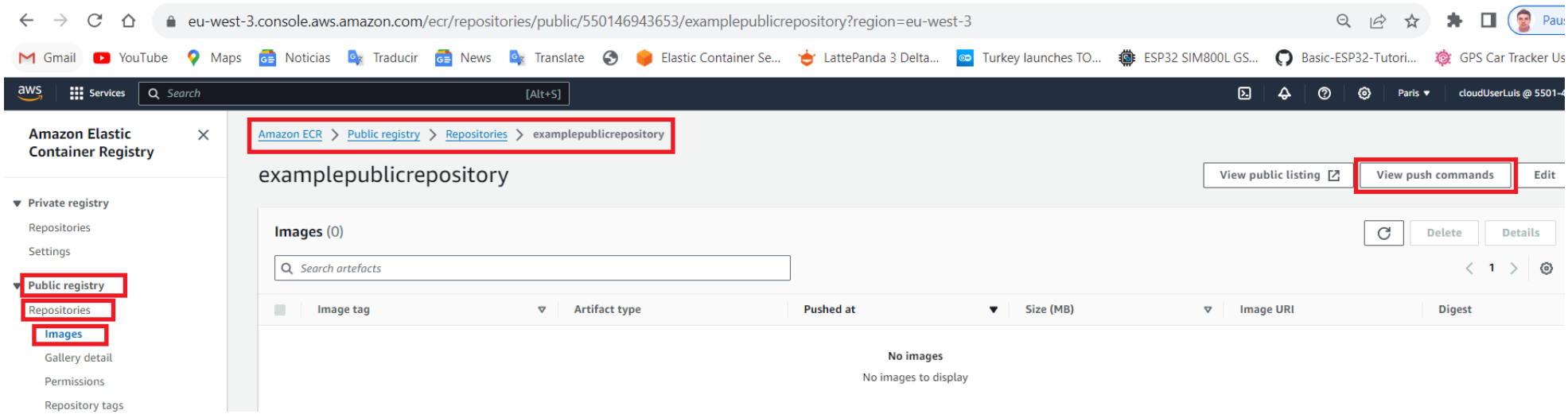
Preview



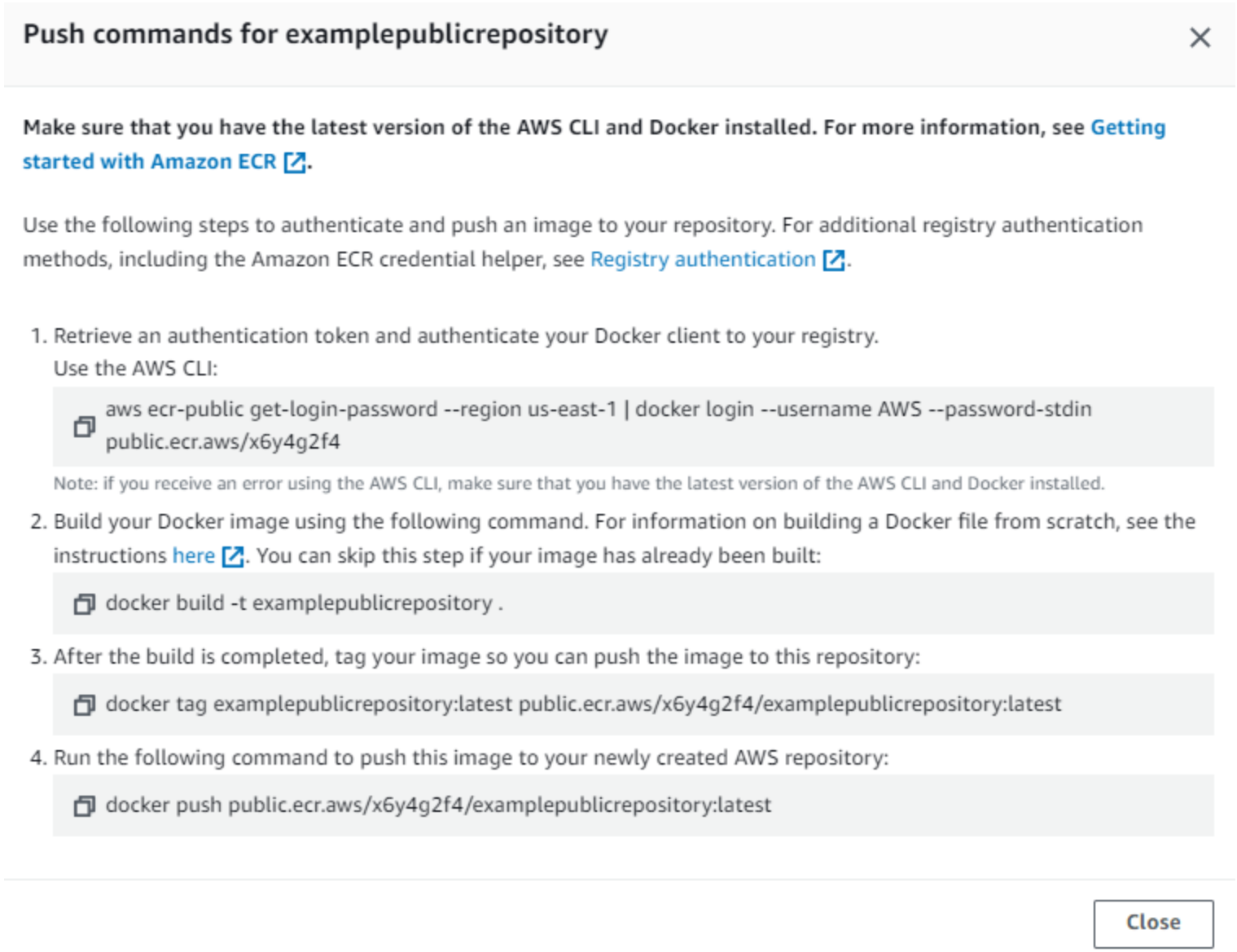
We can see the new repo



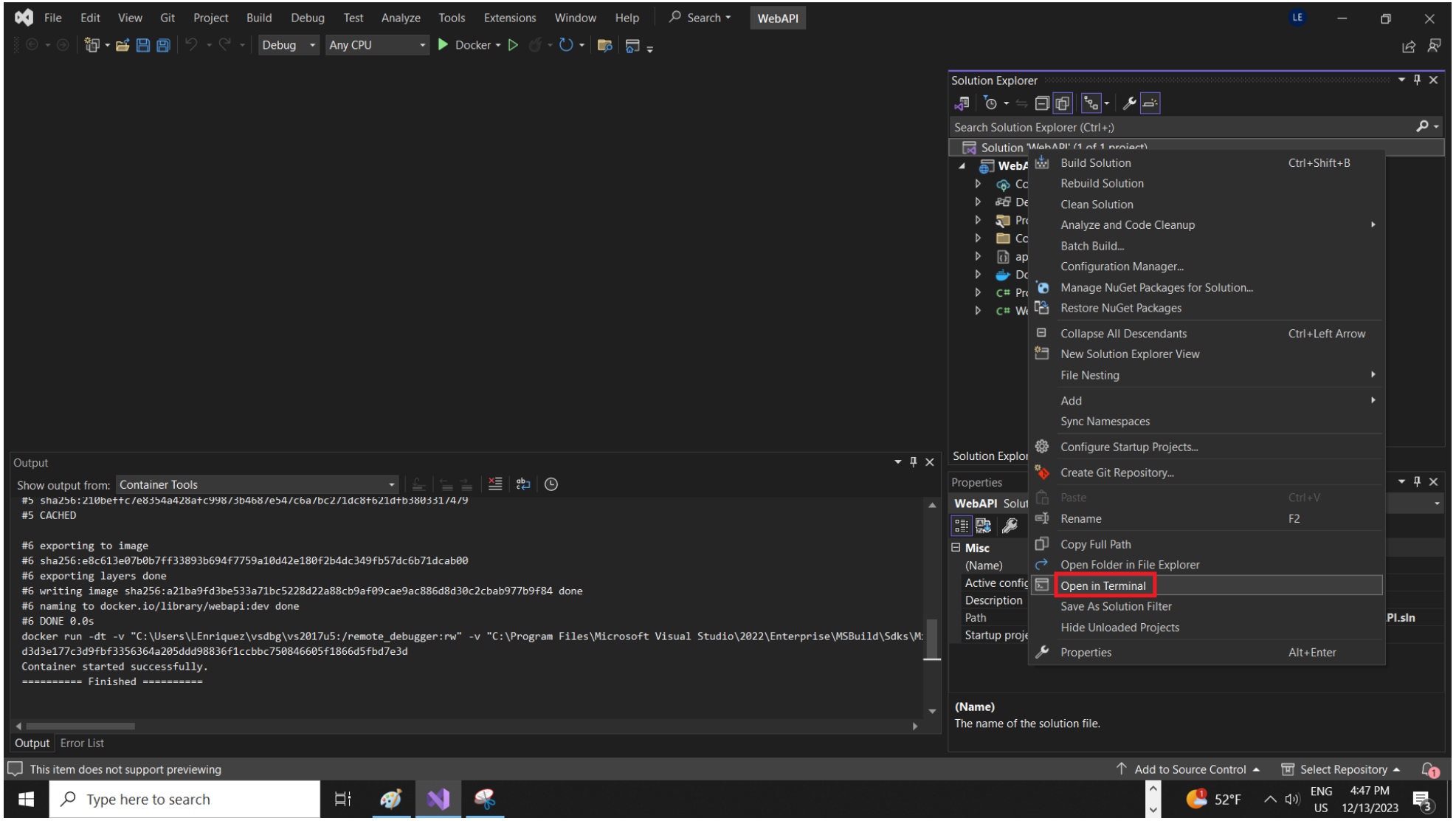
We have to upload the Web API docker image to the AWS ECR repo. We press in the "**View push commands**" button:



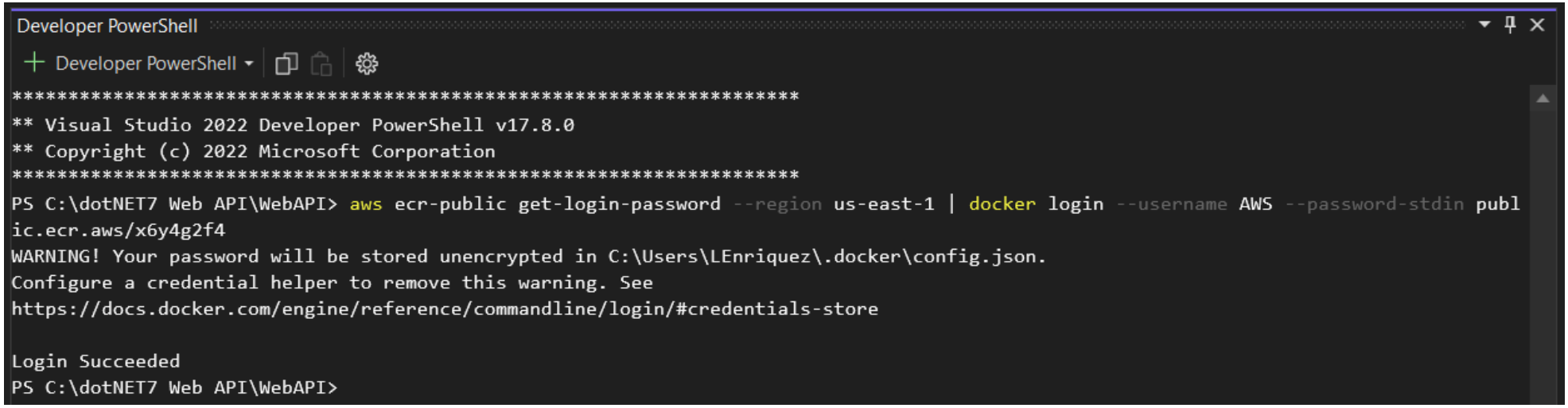
These are the commands we have to execute in the Visual Studio Terminal Window



We right click on the project and select the option "**Open in Terminal**"




```
aws ecr-public get-login-password --region us-east-1 | docker login --username AWS --password-stdin public.ecr.aws/x6y4g2f4
```



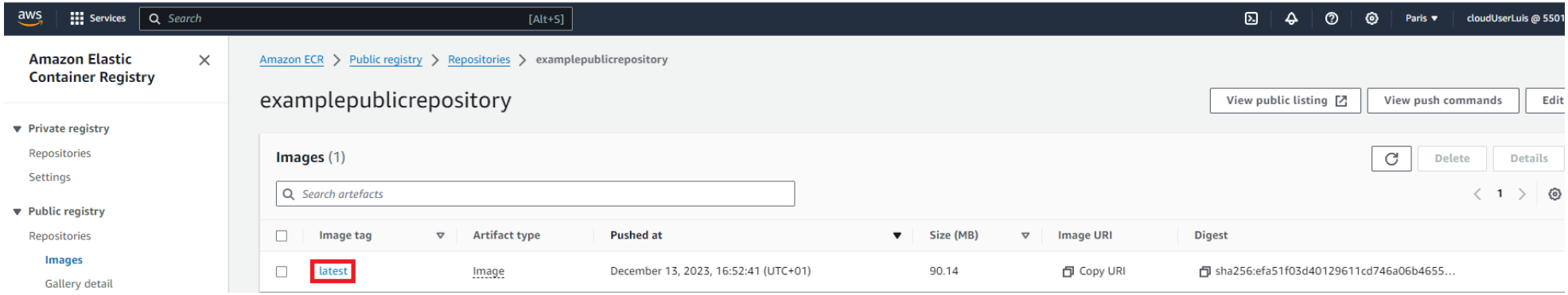

```
docker build -t examplepublicrepository .
```

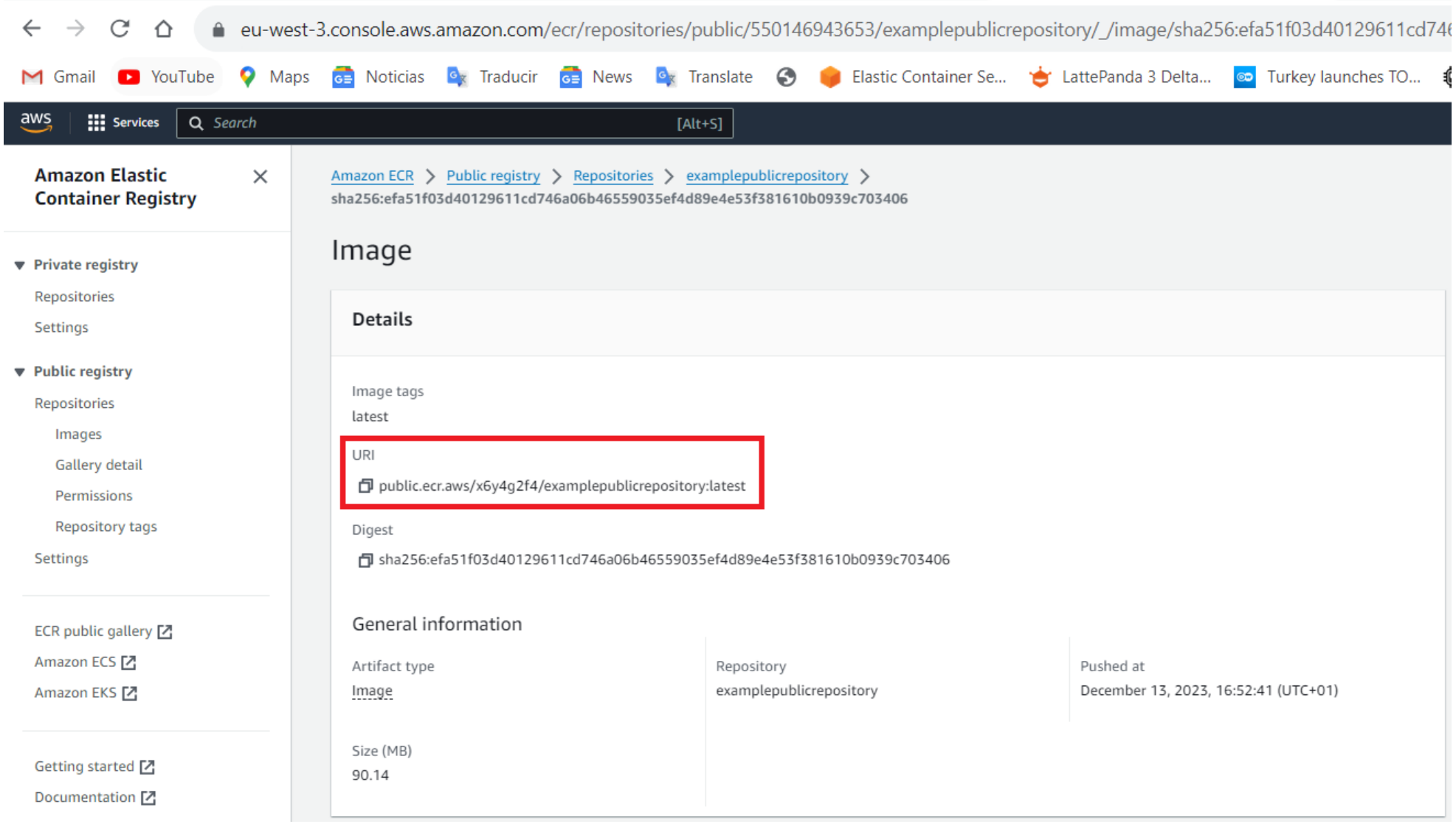
```
docker tag examplepublicrepository:latest public.ecr.aws/x6y4g2f4/examplepublicrepository:latest
```

```
docker push public.ecr.aws/x6y4g2f4/examplepublicrepository:latest
```

```
Developer PowerShell
Developer PowerShell
PS C:\dotNET7 Web API\WebAPI> docker push public.ecr.aws/x6y4g2f4/examplepublicrepository:latest
The push refers to repository [public.ecr.aws/x6y4g2f4/examplepublicrepository]
875f0813f594: Pushed
5f70bf18a086: Pushed
cd3f24ea0311: Pushed
ee7107da446b: Pushed
9165c11d69c3: Pushed
db3084a64bb8: Pushed
d3a323cd3227: Pushed
1b6fd3ad4ce6: Pushed                                                    : 1996
PS C:\dotNET7 Web API\WebAPI> 3d40129611cd746a06b46559035ef4d89e4e53f381610b0939c703406 size:
```

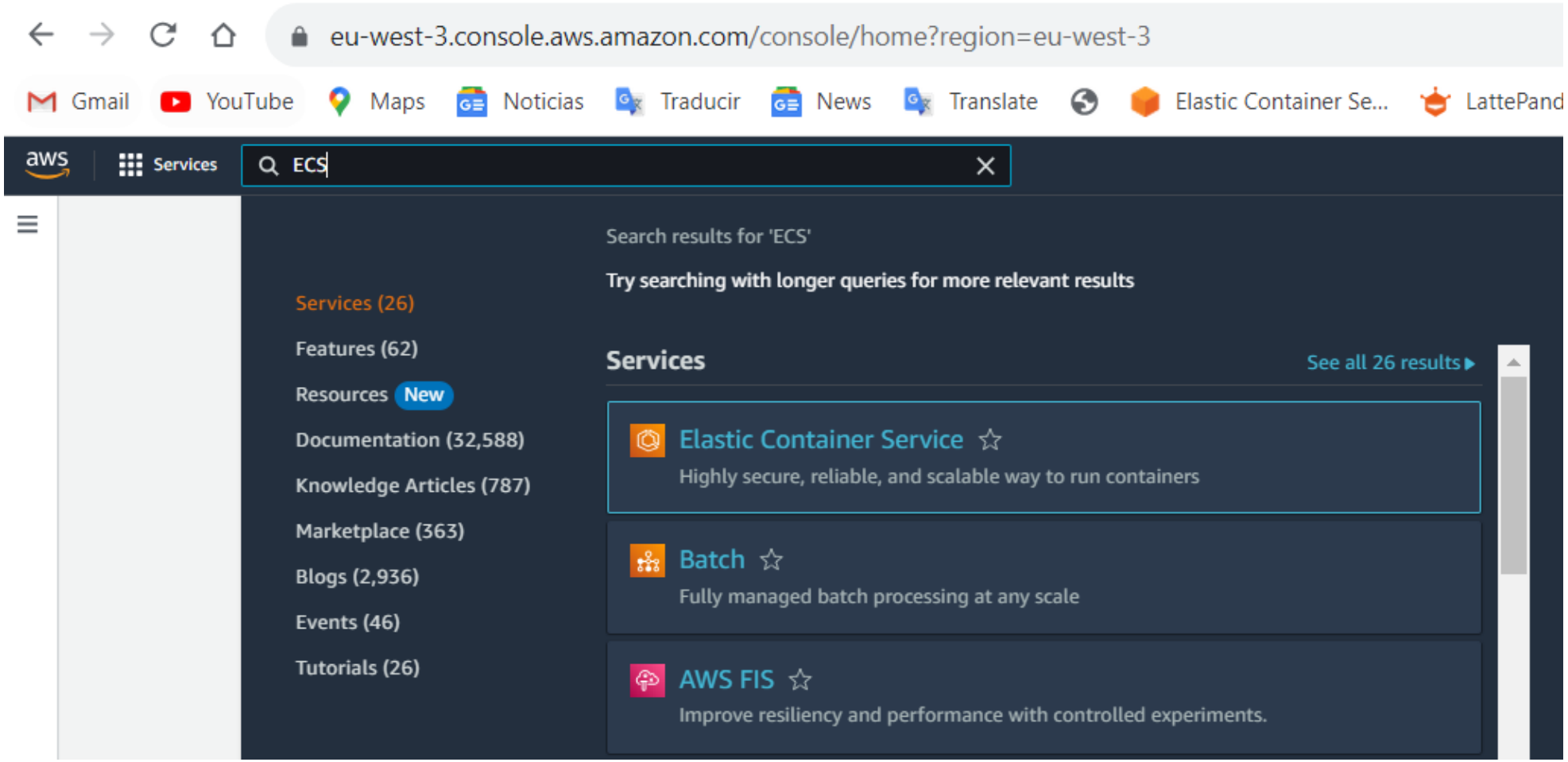
We verify in AWS ECR repo the uploaded docker image



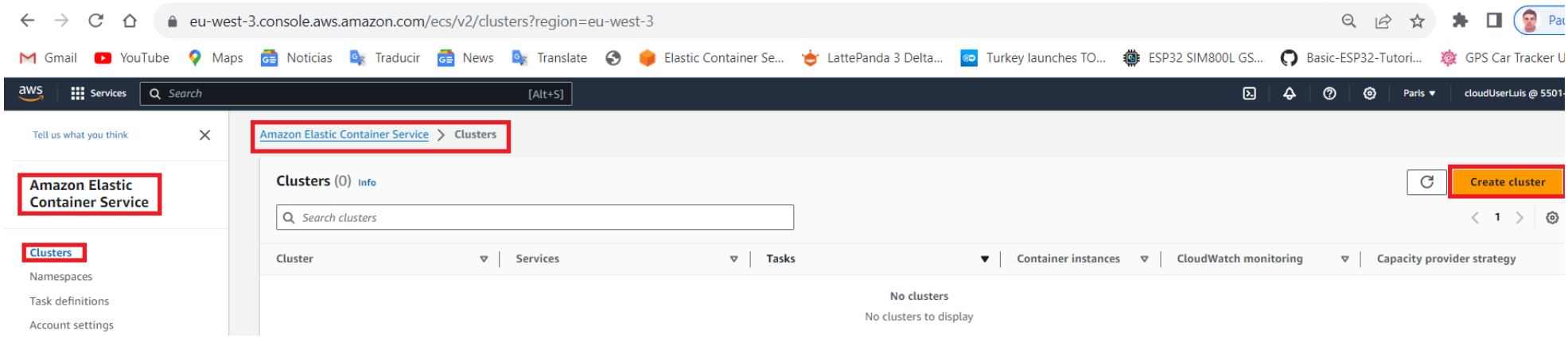


3. Create a new Cluster in AWS ECS

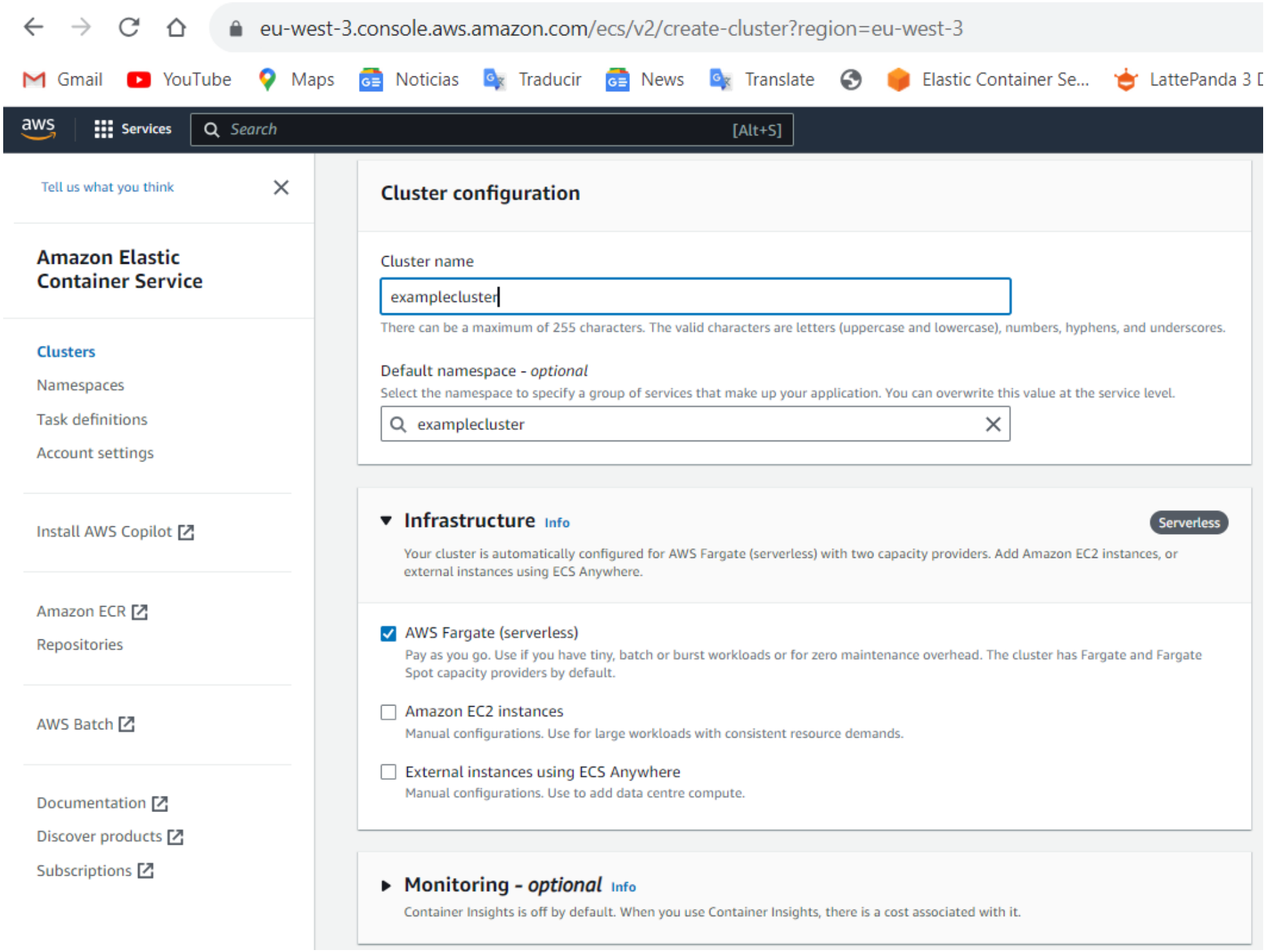
We navigate to the AWS ECS service

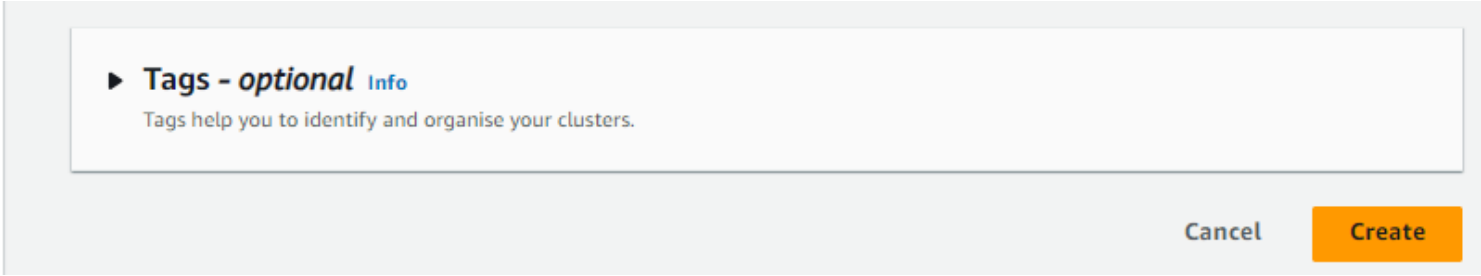


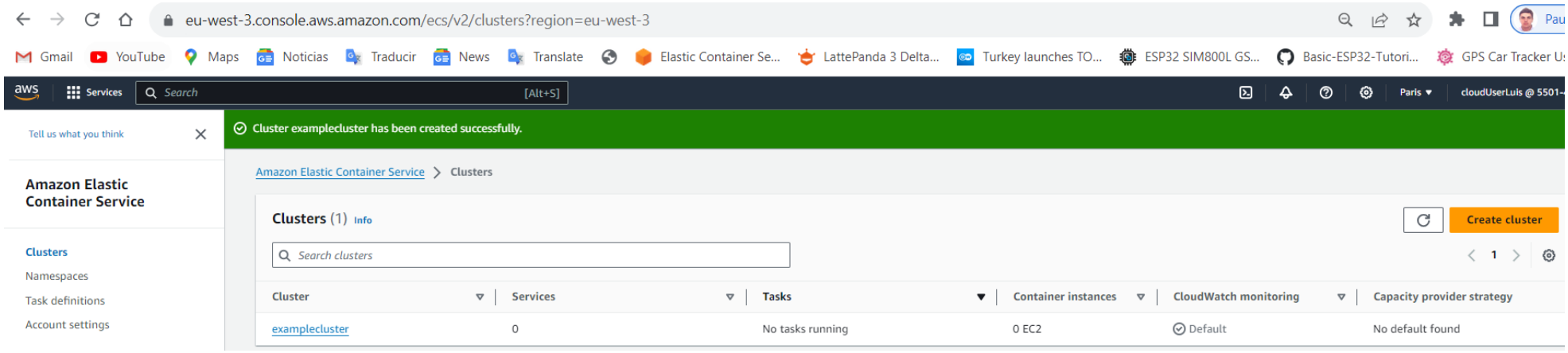
We press the **Create cluster** button



We set the cluster name and we press the **Create** button. Pay attention we selected the option **AWS Fargate (serverless)**

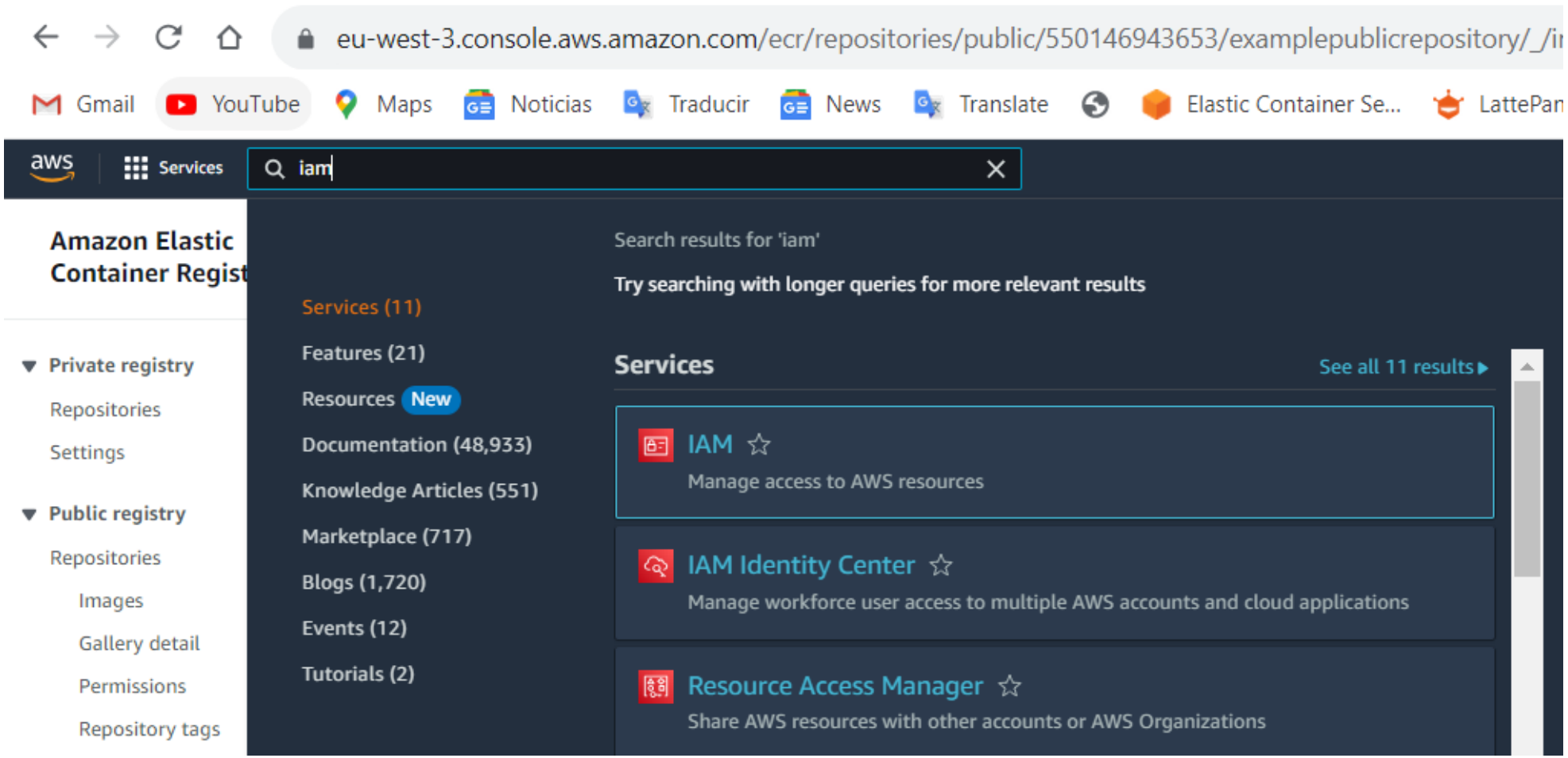

eu-west-3.console.aws.amazon.com/ecs/v2/create-cluster?region=eu-west-3
Gmail
YouTube
Maps
Noticias
Traducir
News
Translate
Elastic Container Se...
aws
Services
Search
[Alt+S]
Tell us what you think
Amazon Elastic Container Service
Clusters
Namespaces
Task definitions
Account settings
Install AWS Copilot
Amazon ECR
Repositories
AWS Batch
Documentation
Discover products
Subscriptions
Cluster configuration
Cluster name
examplecluster
There can be a maximum of 255 characters. The valid characters are letters (uppercase and lowercase), numbers, hyphens, and underscores.
Default namespace - optional
Select the namespace to specify a group of services that make up your application. You can overwrite this value at the service level.
examplecluster
Infrastructure Info
Serverless
Your cluster is automatically configured for AWS Fargate (serverless) with two capacity providers. Add Amazon EC2 instances, or external instances using ECS Anywhere.
AWS Fargate (serverless)
Pay as you go. Use if you have tiny, batch or burst workloads or for zero maintenance overhead. The cluster has Fargate and Fargate Spot capacity providers by default.
Amazon EC2 instances
Manual configurations. Use for large workloads with consistent resource demands.
External instances using ECS Anywhere
Manual configurations. Use to add data centre compute.
Monitoring - optional Info
Container Insights is off by default. When you use Container Insights, there is a cost associated with it.



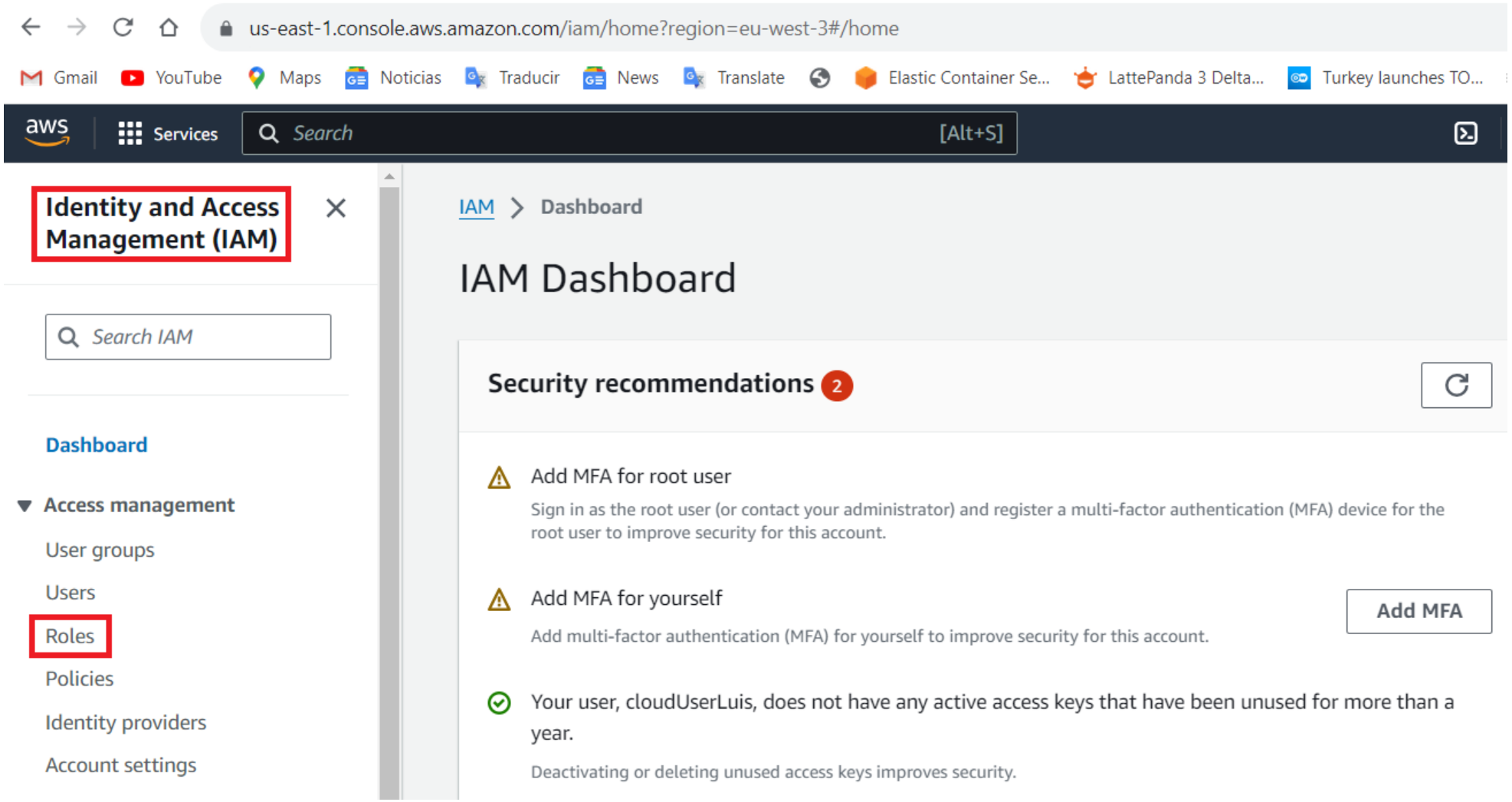


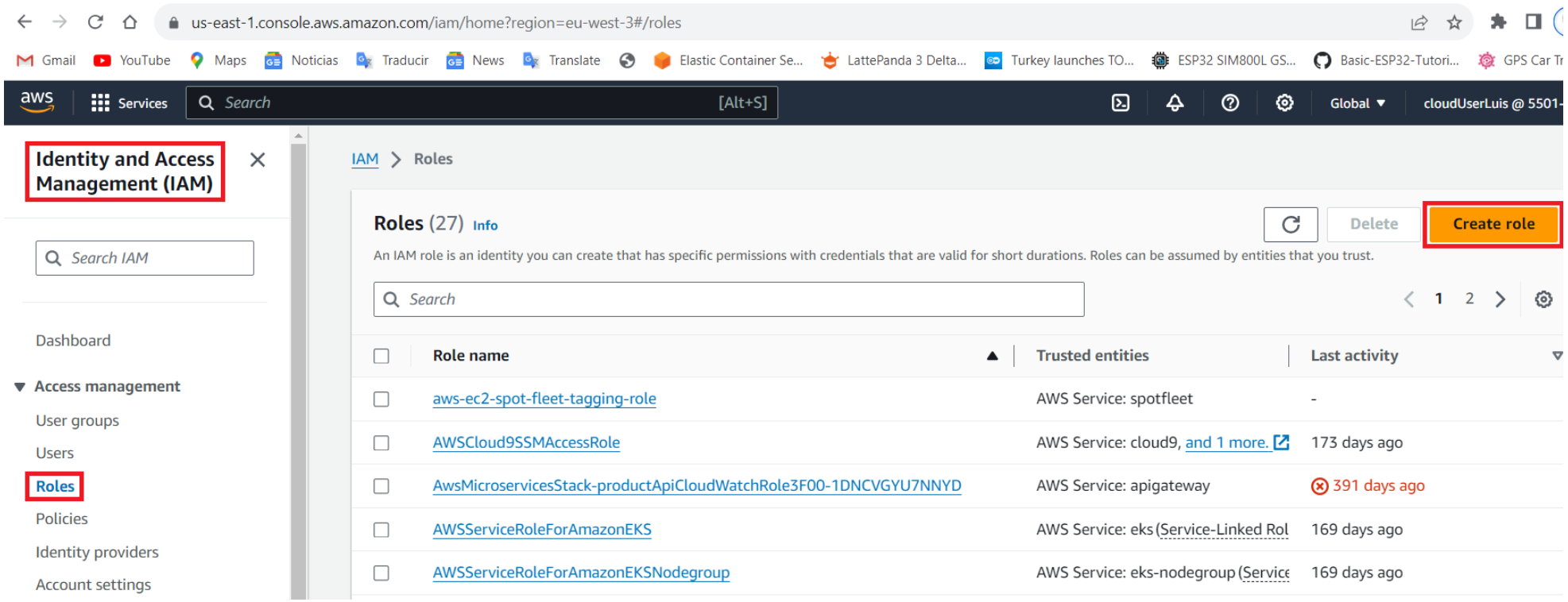
4. Create a new role in the IAM service

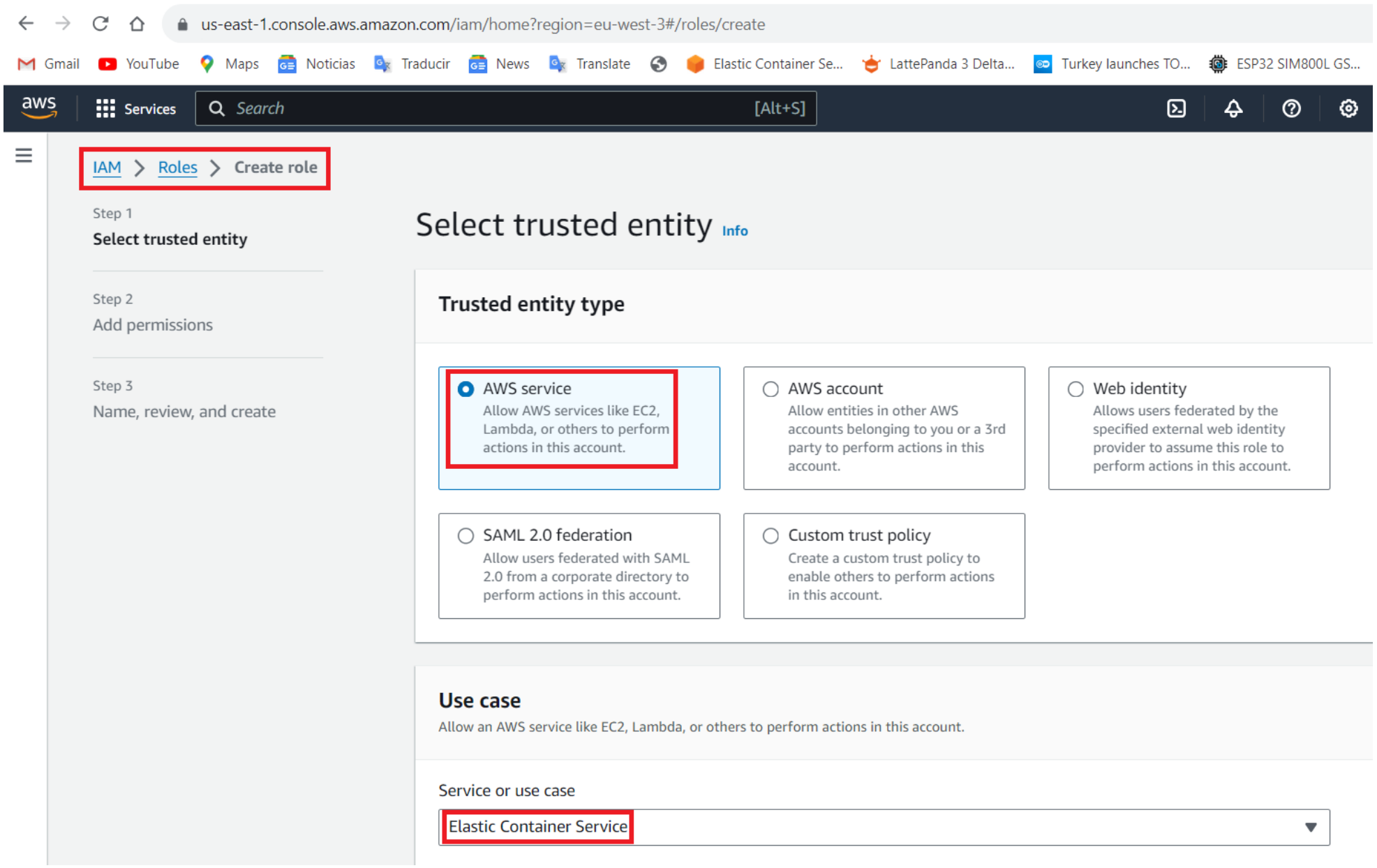
We navigate to the IAM service

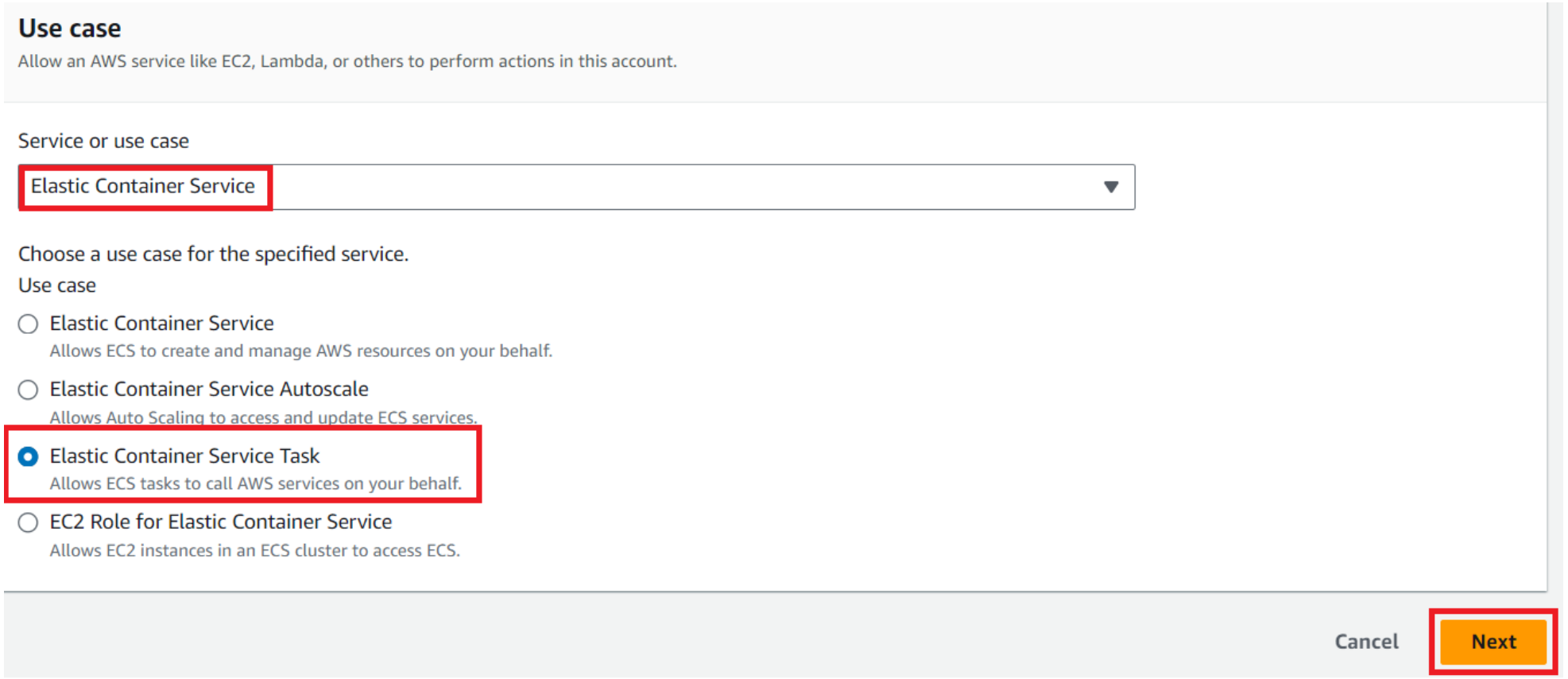


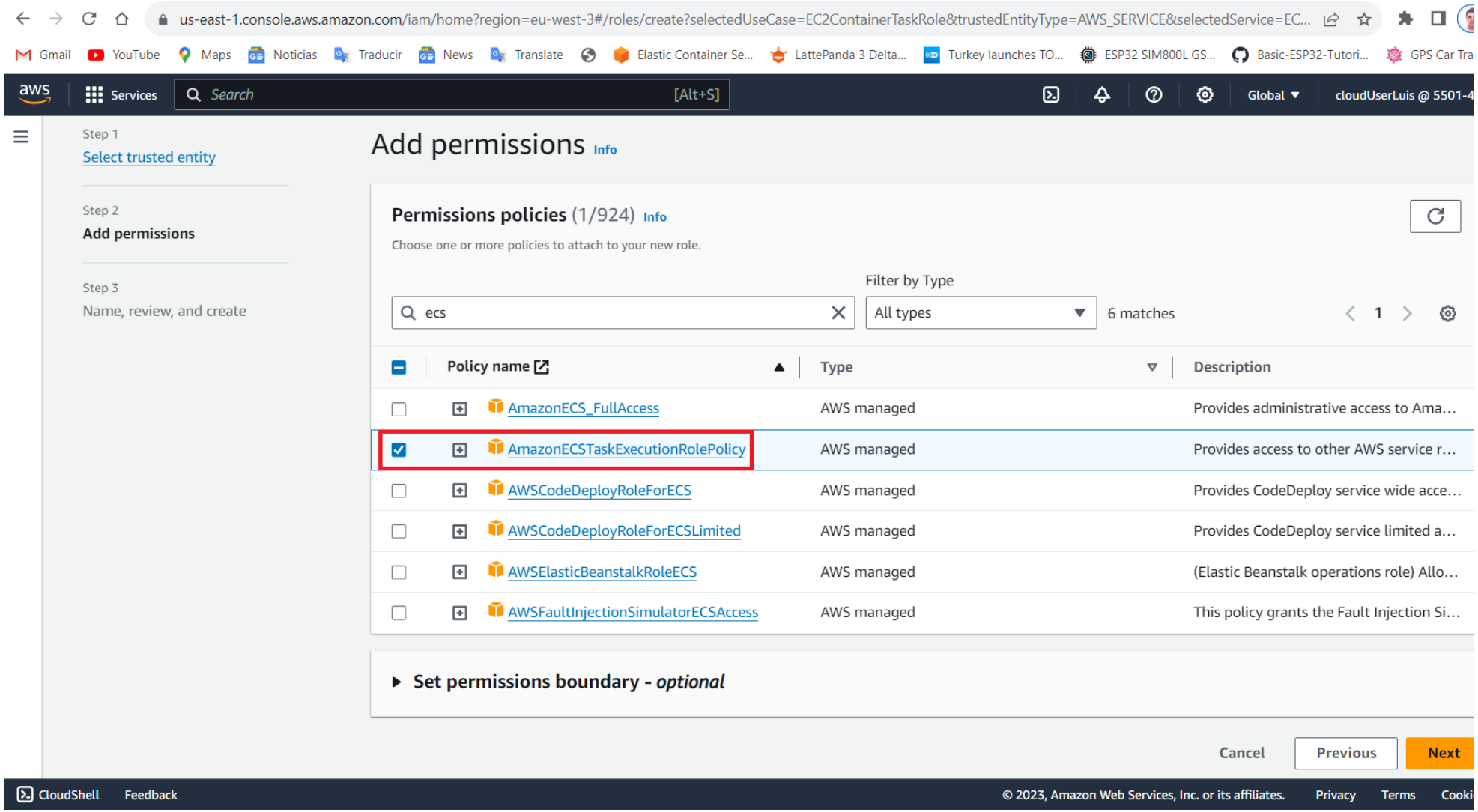
We create a new role

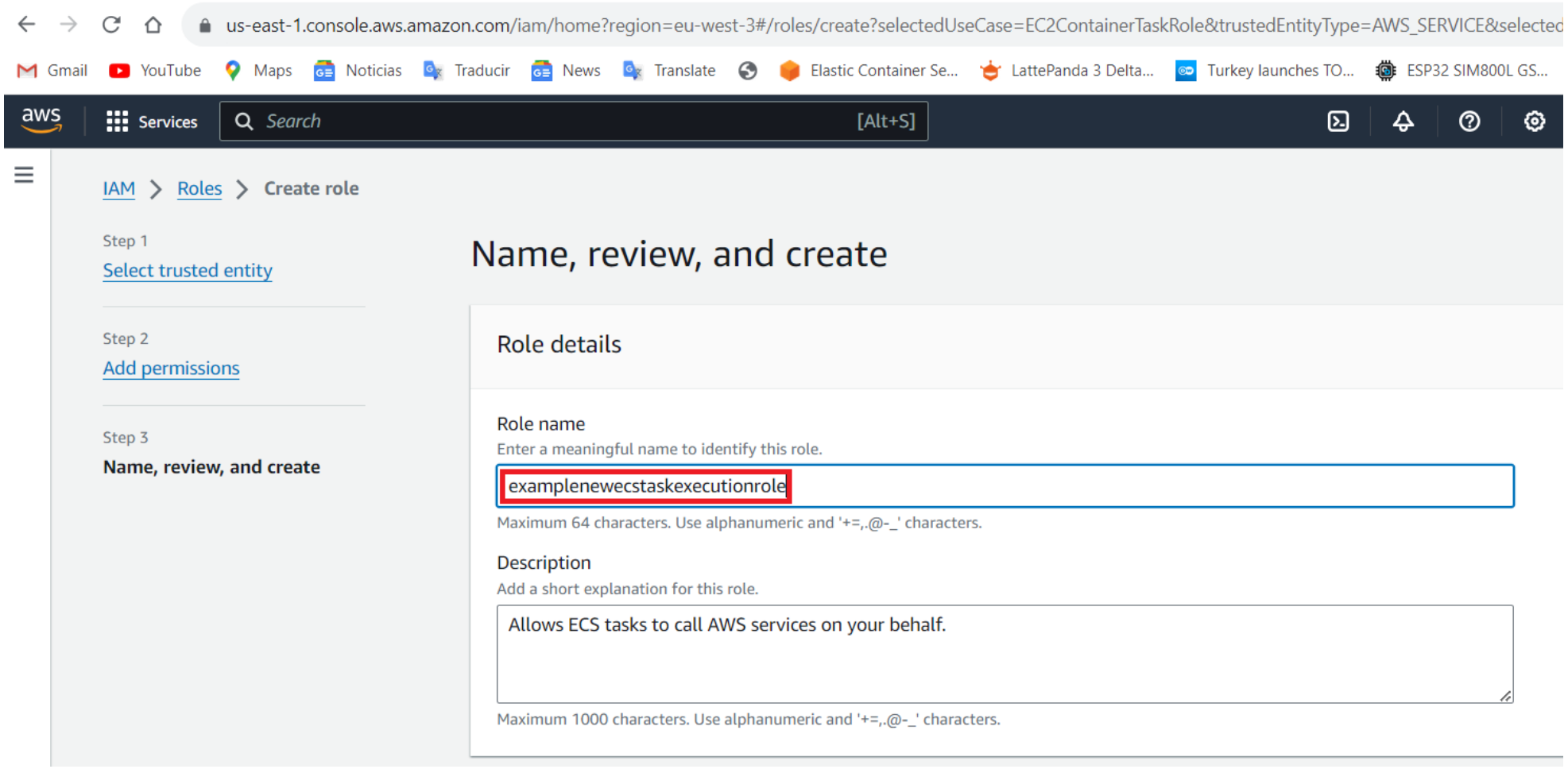

us-east-1.console.aws.amazon.com/iam/home?region=eu-west-3#/home
Gmail
YouTube
Maps
Noticias
Traducir
News
Translate
Elastic Container Se...
LattePanda 3 Delta...
Turkey launches TO...
aws
Services
Search
[Alt+S]
Identity and Access Management (IAM)
Search IAM
Dashboard
Access management
User groups
Users
Roles
Policies
Identity providers
Account settings
IAM > Dashboard
IAM Dashboard
Security recommendations 2
Add MFA for root user
Sign in as the root user (or contact your administrator) and register a multi-factor authentication (MFA) device for the root user to improve security for this account.
Add MFA for yourself
Add multi-factor authentication (MFA) for yourself to improve security for this account.
Add MFA
Your user, cloudUserLuis, does not have any active access keys that have been unused for more than a year.
Deactivating or deleting unused access keys improves security.

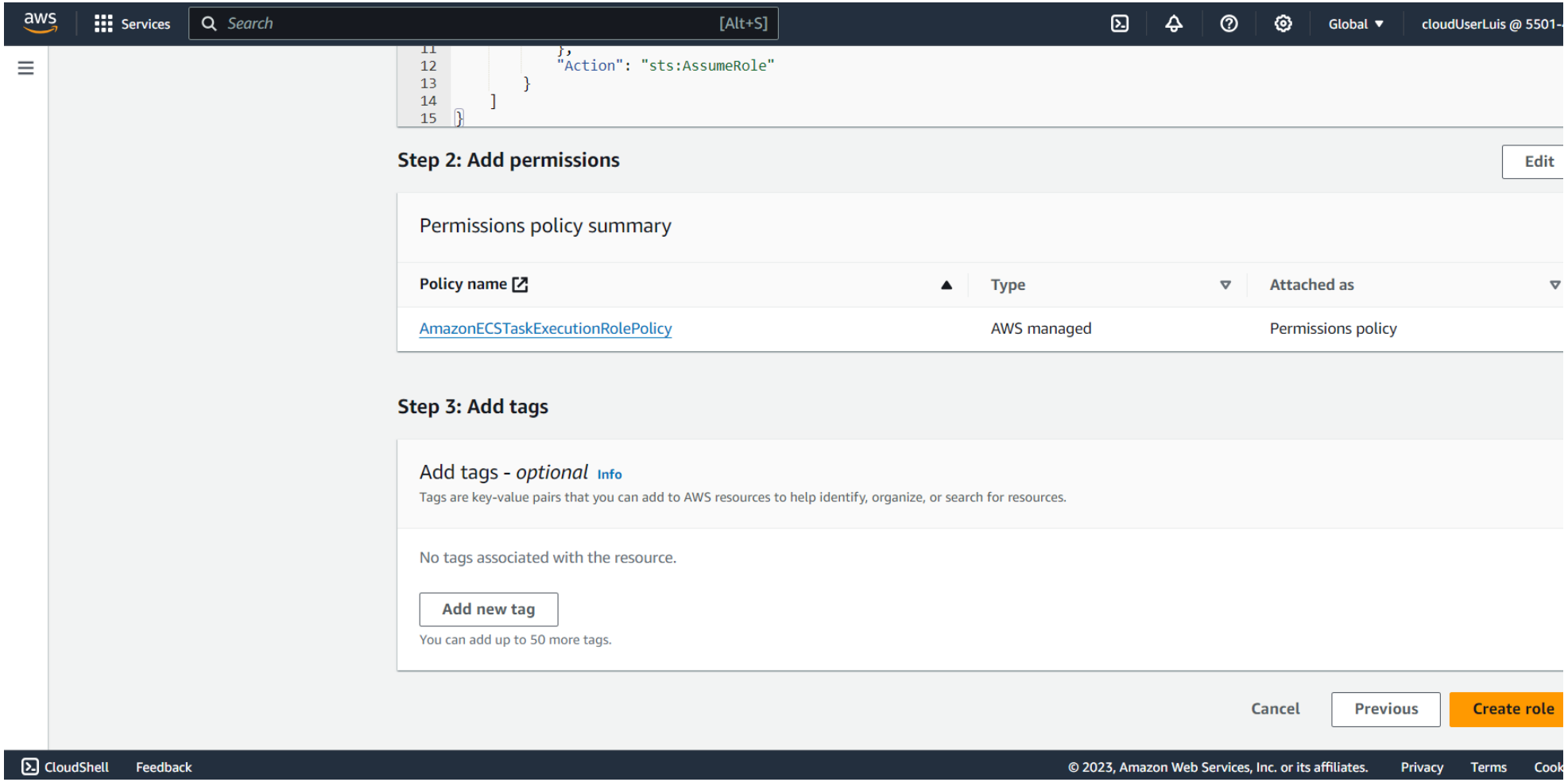

us-east-1.console.aws.amazon.com/iam/home?region=eu-west-3#/roles
Gmail YouTube Maps Noticias Traducir News Translate Elastic Container Se... LattePanda 3 Delta... Turkey launches TO... ESP32 SIM800L GS... Basic-ESP32-Tutori... GPS Car Tr
aws Services Search [Alt+S] Global cloudUserLuis @ 5501-
Identity and Access Management (IAM)
Search IAM
Dashboard
Access management
User groups
Users
Roles
Policies
Identity providers
Account settings
IAM > Roles
Roles (27) Info
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.
Delete
Create role
Search
1 2
Role name
Trusted entities
Last activity
aws-ec2-spot-fleet-tagging-role
AWS Service: spotfleet
-
AWSCloud9SSMAccessRole
AWS Service: cloud9, and 1 more.
173 days ago
AwsMicroservicesStack-productApiCloudWatchRole3F00-1DNCVGYU7NNYD
AWS Service: apigateway
391 days ago
AWSServiceRoleForAmazonEKS
AWS Service: eks (Service-Linked Rol
169 days ago
AWSServiceRoleForAmazonEKSNodegroup
AWS Service: eks-nodegroup (Service
169 days ago


us-east-1.console.aws.amazon.com/iam/home?region=eu-west-3#/roles/create
Gmail
YouTube
Maps
Noticias
Traducir
News
Translate
Elastic Container Se...
LattePanda 3 Delta...
Turkey launches TO...
ESP32 SIM800L GS...
aws
Services
Search
[Alt+S]
IAM > Roles > Create role
Step 1
Select trusted entity
Step 2
Add permissions
Step 3
Name, review, and create
Select trusted entity Info
Trusted entity type
AWS service
Allow AWS services like EC2, Lambda, or others to perform actions in this account.
AWS account
Allow entities in other AWS accounts belonging to you or a 3rd party to perform actions in this account.
Web identity
Allows users federated by the specified external web identity provider to assume this role to perform actions in this account.
SAML 2.0 federation
Allow users federated with SAML 2.0 from a corporate directory to perform actions in this account.
Custom trust policy
Create a custom trust policy to enable others to perform actions in this account.
Use case
Allow an AWS service like EC2, Lambda, or others to perform actions in this account.
Service or use case
Elastic Container Service


Use case
Allow an AWS service like EC2, Lambda, or others to perform actions in this account.
Service or use case
Elastic Container Service
Choose a use case for the specified service.
Use case
Elastic Container Service
Allows ECS to create and manage AWS resources on your behalf.
Elastic Container Service Autoscale
Allows Auto Scaling to access and update ECS services.
Elastic Container Service Task
Allows ECS tasks to call AWS services on your behalf.
EC2 Role for Elastic Container Service
Allows EC2 instances in an ECS cluster to access ECS.
Cancel
Next

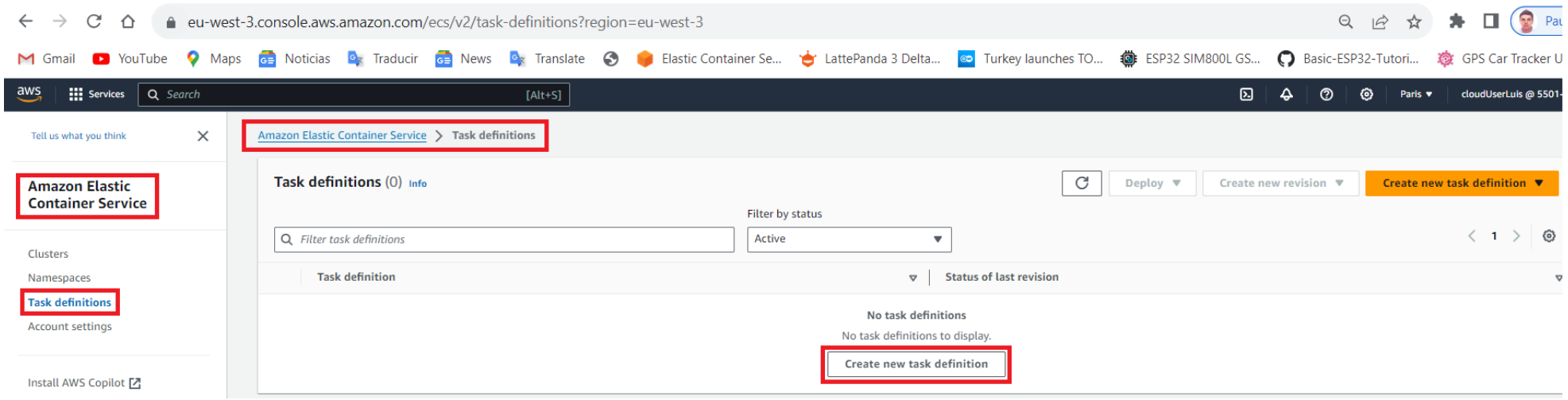

us-east-1.console.aws.amazon.com/iam/home?region=eu-west-3#/roles/create?selectedUseCase=EC2ContainerTaskRole&trustedEntityType=AWS_SERVICE&selectedService=EC...
Gmail YouTube Maps Noticias Traducir News Translate Elastic Container Se... LattePanda 3 Delta... Turkey launches TO... ESP32 SIM800L GS... Basic-ESP32-Tutori... GPS Car Tra
aws Services Search [Alt+S] Global cloudUserLuis @ 5501-4
Step 1
Select trusted entity
Step 2
Add permissions
Step 3
Name, review, and create
Add permissions Info
Permissions policies (1/924) Info
Choose one or more policies to attach to your new role.
Filter by Type
ecs
All types
6 matches
1
Policy name
Type
Description
AmazonECS_FullAccess AWS managed Provides administrative access to Ama...
AmazonECSTaskExecutionRolePolicy AWS managed Provides access to other AWS service r...
AWSCodeDeployRoleForECS AWS managed Provides CodeDeploy service wide acce...
AWSCodeDeployRoleForECSLimited AWS managed Provides CodeDeploy service limited a...
AWSElasticBeanstalkRoleECS AWS managed (Elastic Beanstalk operations role) Allo...
AWSFaultInjectionSimulatorECSAccess AWS managed This policy grants the Fault Injection Si...
Set permissions boundary - optional
Cancel
Previous
Next
CloudShell
Feedback
© 2023, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cooki

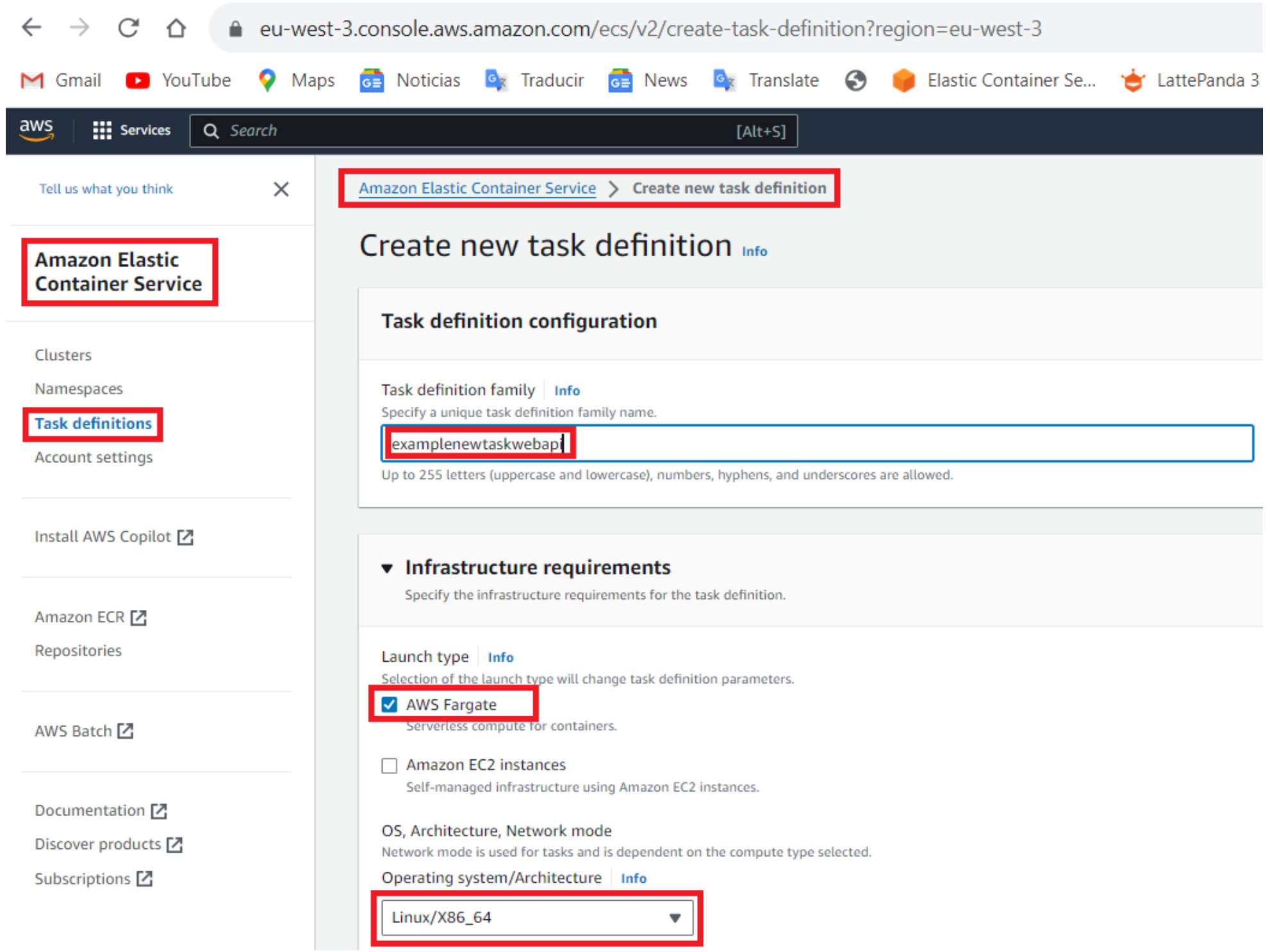

us-east-1.console.aws.amazon.com/iam/home?region=eu-west-3#/roles/create?selectedUseCase=EC2ContainerTaskRole&trustedEntityType=AWS_SERVICE&selected
Gmail
YouTube
Maps
Noticias
Traducir
News
Translate
Elastic Container Se...
LattePanda 3 Delta...
Turkey launches TO...
ESP32 SIM800L GS...
aws
Services
Search
[Alt+S]
IAM > Roles > Create role
Step 1
Select trusted entity
Step 2
Add permissions
Step 3
Name, review, and create
Name, review, and create
Role details
Role name
Enter a meaningful name to identify this role.
examplenewecstaskexecutionrole
Maximum 64 characters. Use alphanumeric and '+=,.@-_' characters.
Description
Add a short explanation for this role.
Allows ECS tasks to call AWS services on your behalf.
Maximum 1000 characters. Use alphanumeric and '+=,.@-_' characters.



5. Create a new Task definition in AWS ECS

We create a new task definition


eu-west-3.console.aws.amazon.com/ecs/v2/task-definitions?region=eu-west-3
Gmail
YouTube
Maps
Noticias
Traducir
News
Translate
Elastic Container Se...
LattePanda 3 Delta...
Turkey launches TO...
ESP32 SIM800L GS...
Basic-ESP32-Tutori...
GPS Car Tracker U
aws
Services
Search
[Alt+S]
Paris
cloudUserLuis @ 5501-
Tell us what you think
Amazon Elastic Container Service
Clusters
Namespaces
Task definitions
Account settings
Install AWS Copilot
Amazon Elastic Container Service
Task definitions
Task definitions (0) Info
Deploy
Create new revision
Create new task definition
Filter by status
Filter task definitions
Active
1
Task definition
Status of last revision
No task definitions
No task definitions to display.
Create new task definition


eu-west-3.console.aws.amazon.com/ecs/v2/create-task-definition?region=eu-west-3
Gmail
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Elastic Container Se...
LattePanda 3
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Documentation
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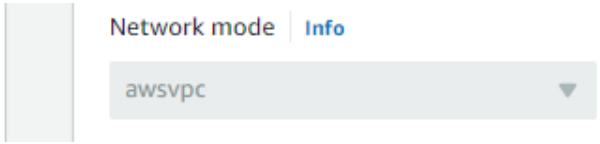
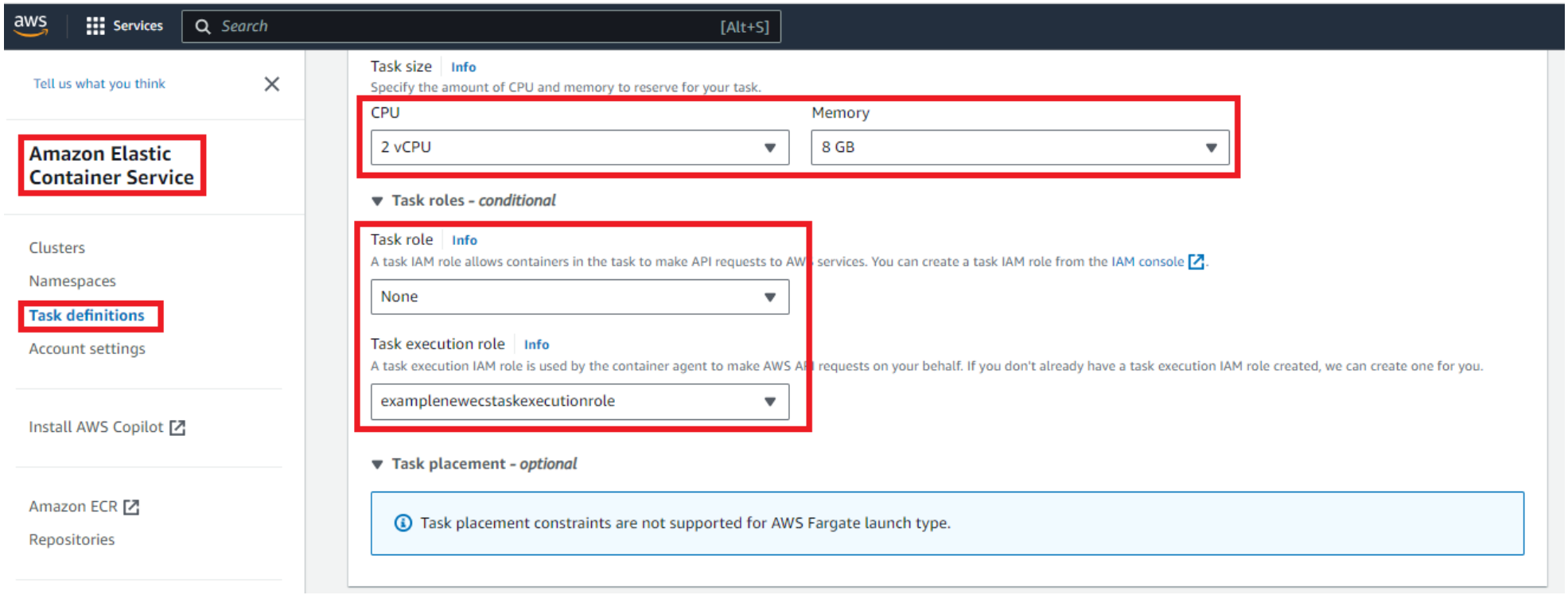
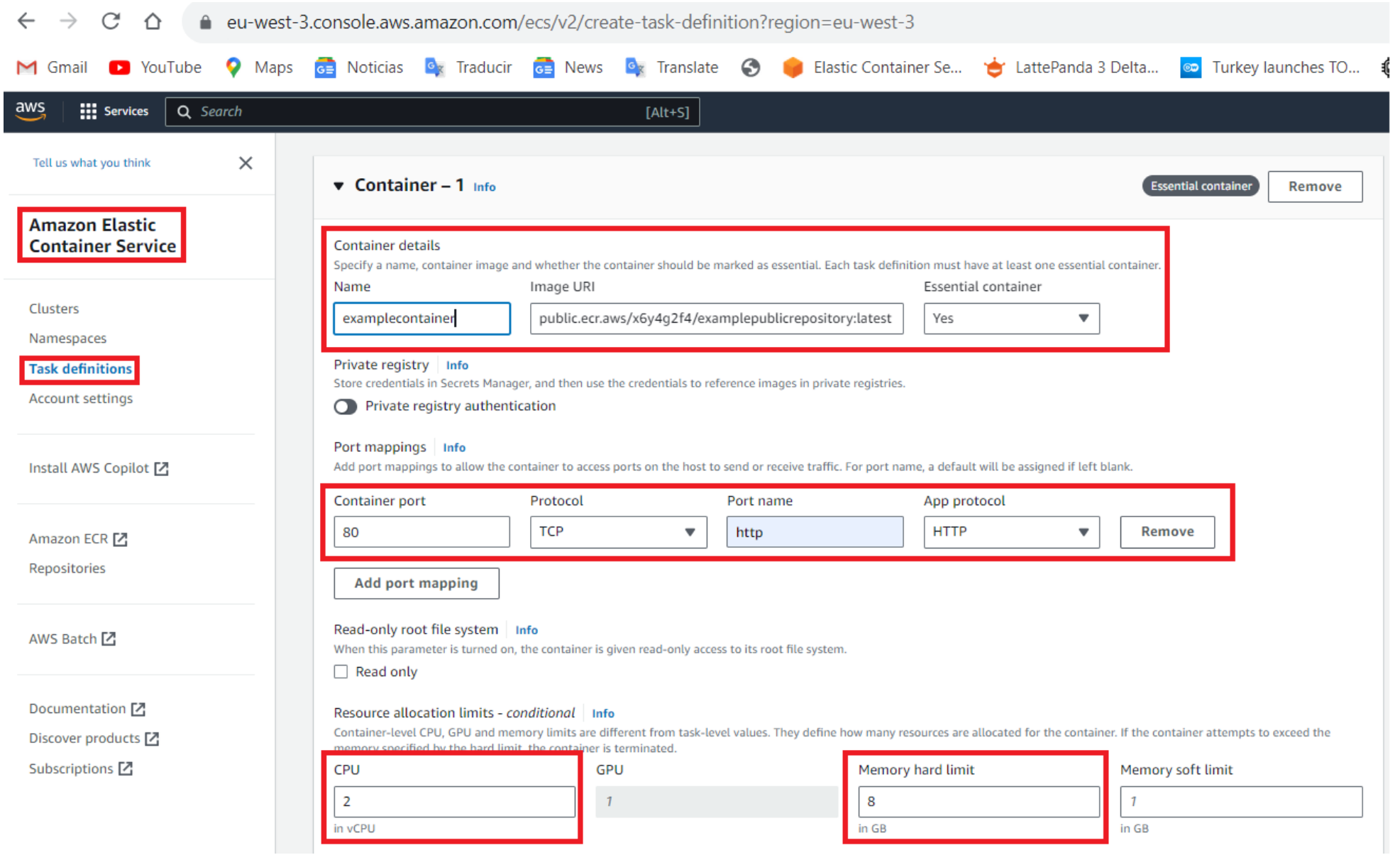
Amazon Elastic Container Service > Create new task definition
Create new task definition Info
Task definition configuration
Task definition family Info
Specify a unique task definition family name.
examplenewtaskwebapi
Up to 255 letters (uppercase and lowercase), numbers, hyphens, and underscores are allowed.
Infrastructure requirements
Specify the infrastructure requirements for the task definition.
Launch type Info
Selection of the launch type will change task definition parameters.
AWS Fargate
Serverless compute for containers.
Amazon EC2 instances
Self-managed infrastructure using Amazon EC2 instances.
OS, Architecture, Network mode
Network mode is used for tasks and is dependent on the compute type selected.
Operating system/Architecture Info
Linux/X86_64

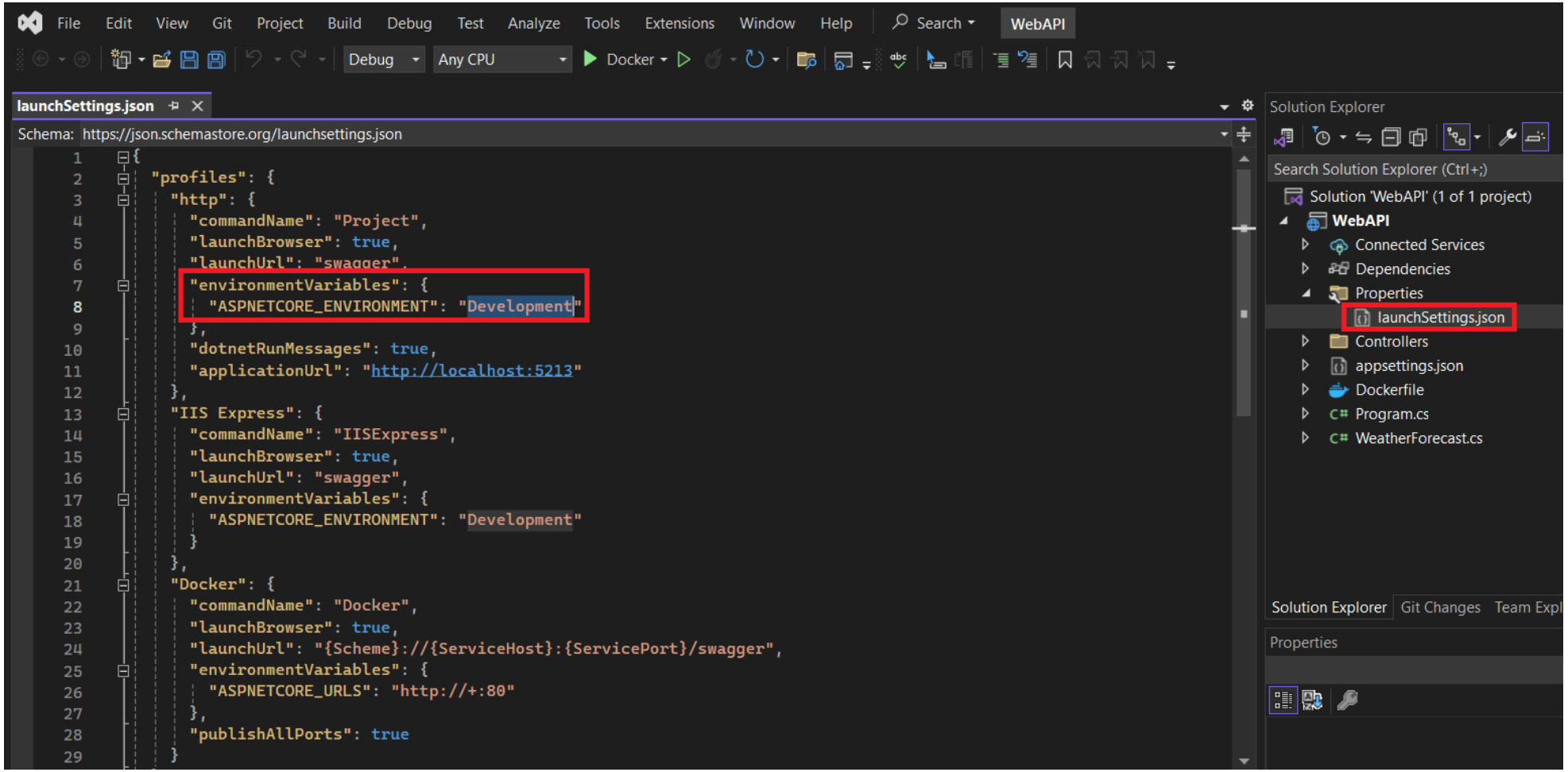


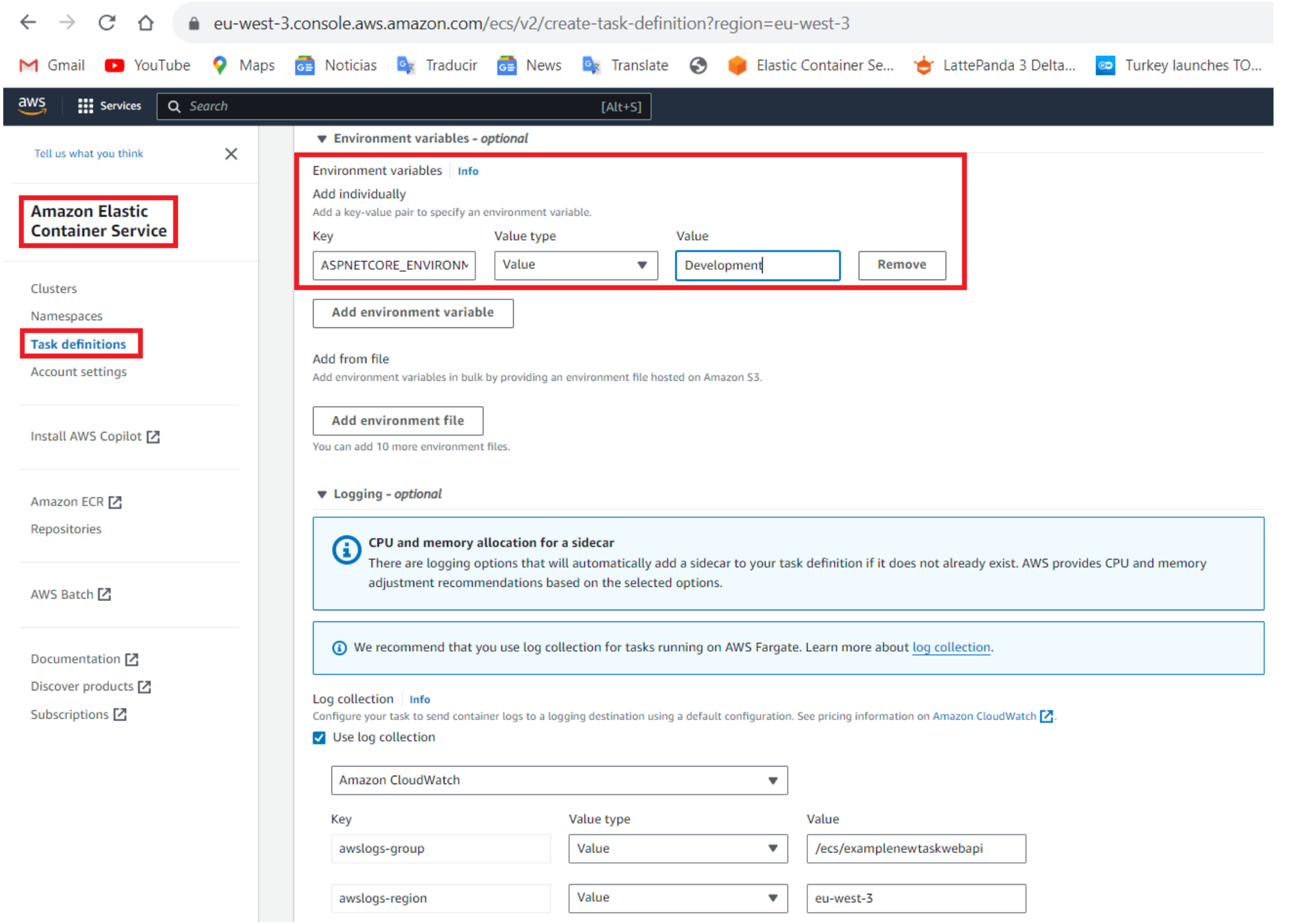
We set the CPU (2 Uds) and the Memory (8 GB). The "Task role" we set to "None" and in "Task execution role" we set to "ecsTaskExecutionRole"





Copy the environmental variables values in the launchSettings.json file


File Edit View Git Project Build Debug Test Analyze Tools Extensions Window Help Search WebAPI
Debug Any CPU Docker
launchSettings.json
Schema: https://json.schemastore.org/launchsettings.json
{
"profiles": {
"http": {
"commandName": "Project",
"launchBrowser": true,
"launchUrl": "swagger",
"environmentVariables": {
"ASPNETCORE_ENVIRONMENT": "Development"
},
"dotnetRunMessages": true,
"applicationUrl": "http://localhost:5213"
},
"IIS Express": {
"commandName": "IISExpress",
"launchBrowser": true,
"launchUrl": "swagger",
"environmentVariables": {
"ASPNETCORE_ENVIRONMENT": "Development"
}
},
"Docker": {
"commandName": "Docker",
"launchBrowser": true,
"launchUrl": "{Scheme}://{ServiceHost}:{ServicePort}/swagger",
"environmentVariables": {
"ASPNETCORE_URLS": "http://+:80"
},
"publishAllPorts": true
}
Solution Explorer
Search Solution Explorer (Ctrl+;)
Solution 'WebAPI' (1 of 1 project)
WebAPI
Connected Services
Dependencies
Properties
launchSettings.json
Controllers
appsettings.json
Dockerfile
Program.cs
WeatherForecast.cs
Solution Explorer Git Changes Team Expl
Properties


eu-west-3.console.aws.amazon.com/ecs/v2/create-task-definition?region=eu-west-3
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YouTube
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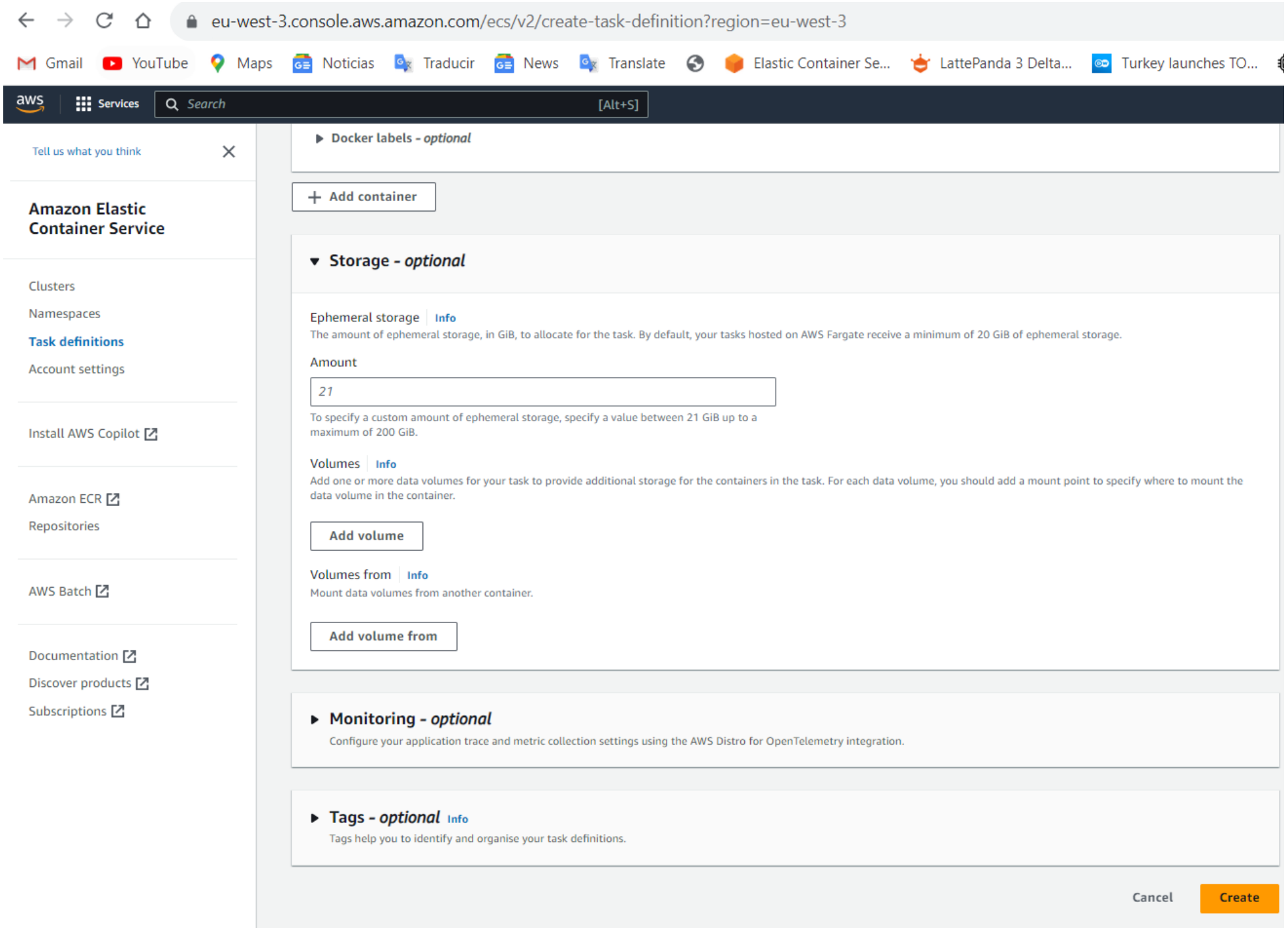
Environment variables - optional
Environment variables Info
Add individually
Add a key-value pair to specify an environment variable.
Key
Value type
Value
ASPNETCORE_ENVIRONM
Value
Development
Remove
Add environment variable
Add from file
Add environment variables in bulk by providing an environment file hosted on Amazon S3.
Add environment file
You can add 10 more environment files.
Logging - optional
CPU and memory allocation for a sidecar
There are logging options that will automatically add a sidecar to your task definition if it does not already exist. AWS provides CPU and memory adjustment recommendations based on the selected options.
We recommend that you use log collection for tasks running on AWS Fargate. Learn more about log collection.
Log collection Info
Configure your task to send container logs to a logging destination using a default configuration. See pricing information on Amazon CloudWatch.
Use log collection
Amazon CloudWatch
Key
Value type
Value
awslogs-group
Value
/ecs/examplenewtaskwebapi
awslogs-region
Value
eu-west-3

Press the **Create** button


eu-west-3.console.aws.amazon.com/ecs/v2/create-task-definition?region=eu-west-3
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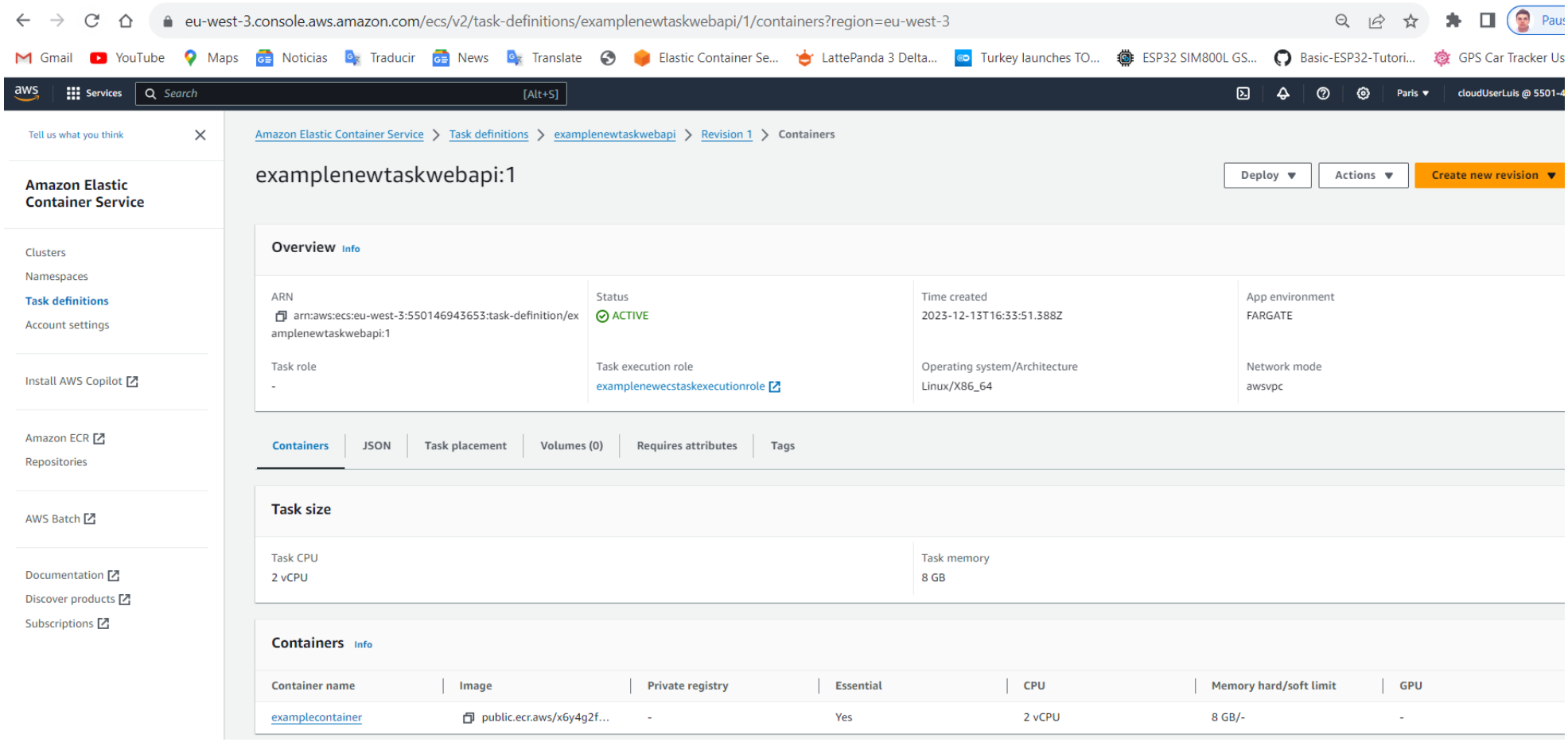
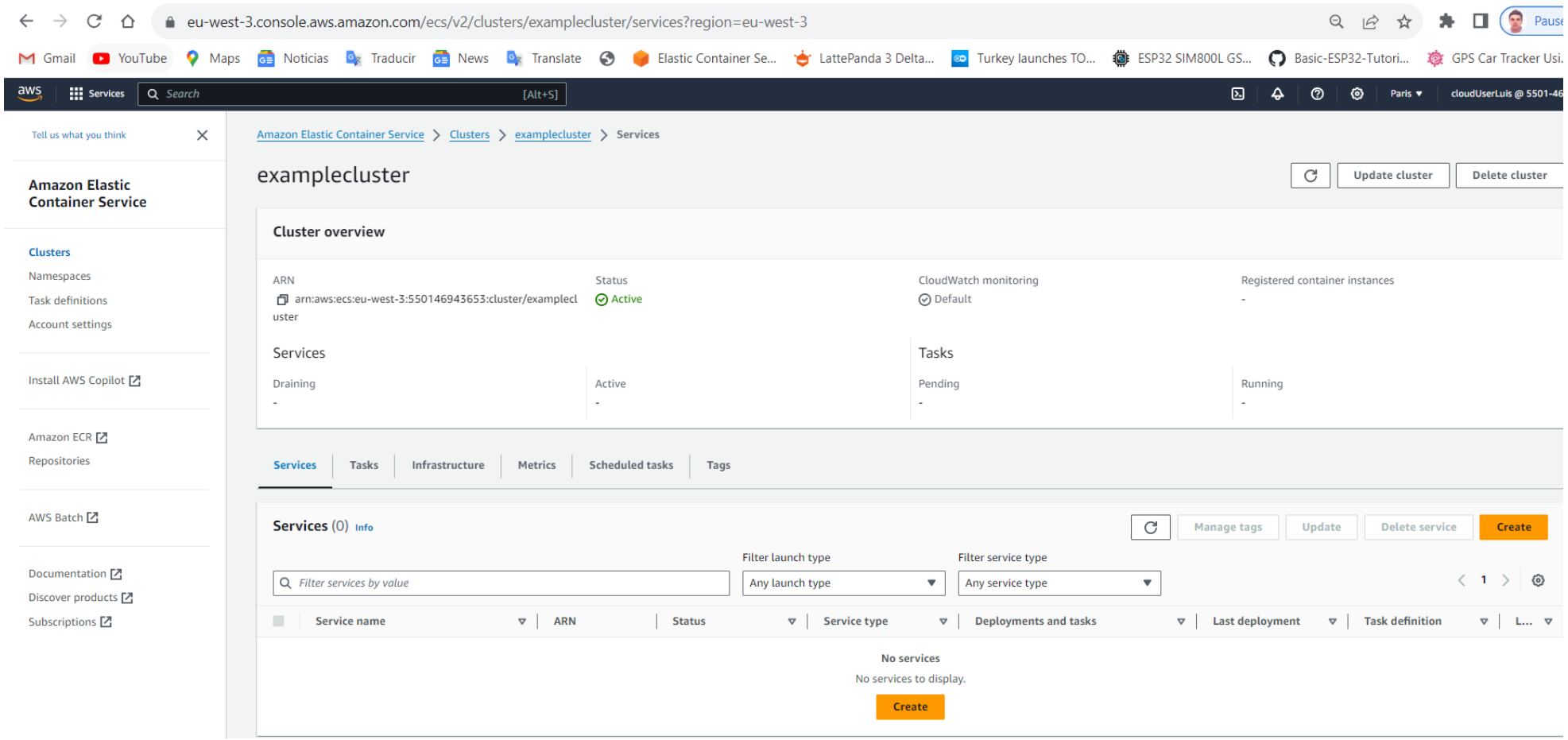
Docker labels - optional
Add container
Storage - optional
Ephemeral storage Info
The amount of ephemeral storage, in GiB, to allocate for the task. By default, your tasks hosted on AWS Fargate receive a minimum of 20 GiB of ephemeral storage.
Amount
21
To specify a custom amount of ephemeral storage, specify a value between 21 GiB up to a maximum of 200 GiB.
Volumes Info
Add one or more data volumes for your task to provide additional storage for the containers in the task. For each data volume, you should add a mount point to specify where to mount the data volume in the container.
Add volume
Volumes from Info
Mount data volumes from another container.
Add volume from
Monitoring - optional
Configure your application trace and metric collection settings using the AWS Distro for OpenTelemetry integration.
Tags - optional Info
Tags help you to identify and organise your task definitions.
Cancel
Create



6. Create a new Service in AWS ECS

We input in the new Cluster and we create a new service


eu-west-3.console.aws.amazon.com/ecs/v2/clusters/examplecluster/services?region=eu-west-3
Gmail YouTube Maps Noticias Traducir News Translate Elastic Container Se... LattePanda 3 Delta... Turkey launches TO... ESP32 SIM800L GS... Basic-ESP32-Tutori... GPS Car Tracker Usi.
aws Services Search [Alt+S] Paris cloudUserLuis @ 5501-46
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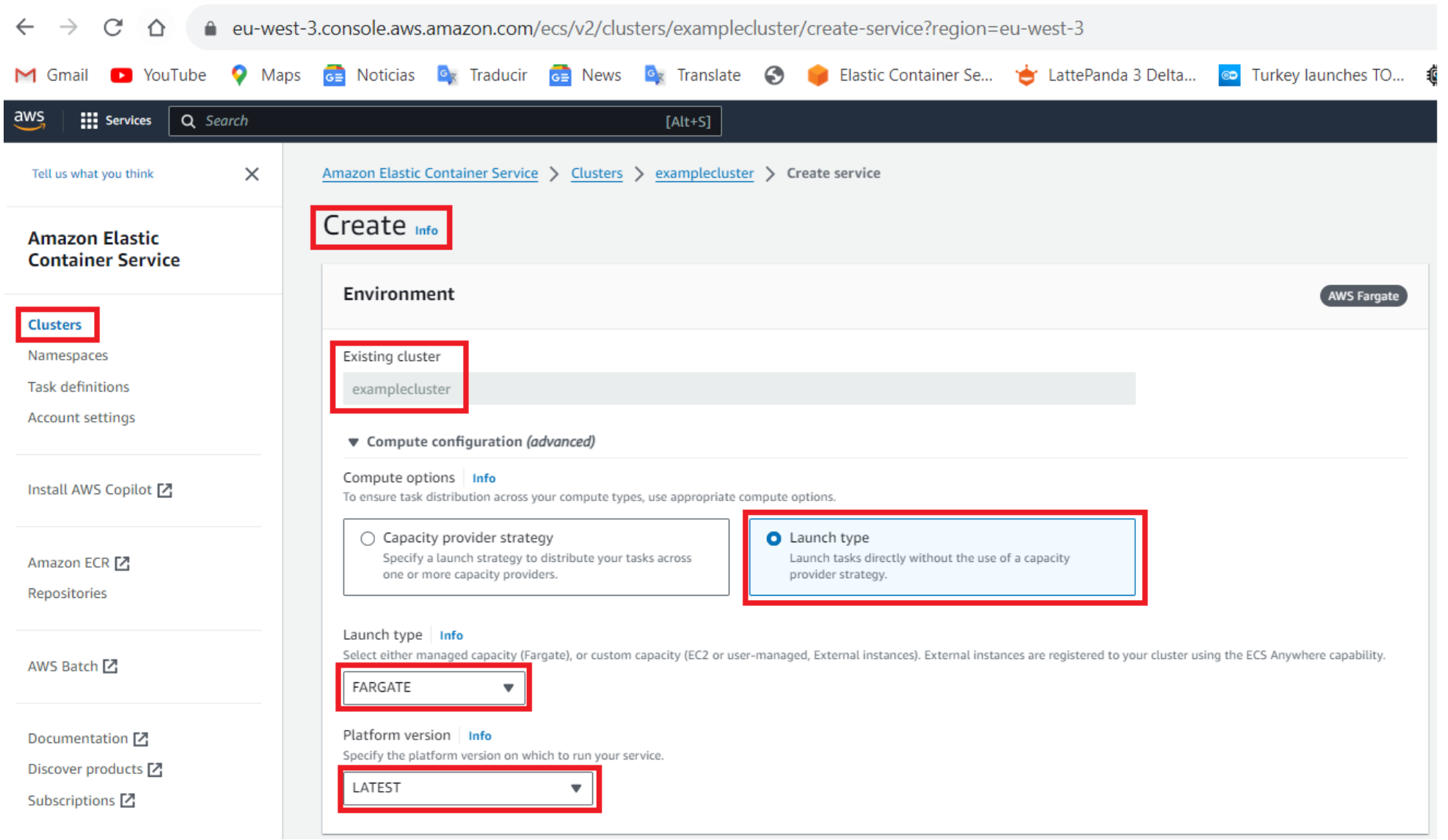
Amazon Elastic Container Service > Clusters > examplecluster > Services
examplecluster
Update cluster
Delete cluster
Cluster overview
ARN
arn:aws:ecs:eu-west-3:550146943653:cluster/examplecluster
Status
Active
CloudWatch monitoring
Default
Registered container instances
-
Services
Draining
-
Active
-
Tasks
Pending
-
Running
-
Services Tasks Infrastructure Metrics Scheduled tasks Tags
Services (0) Info
Manage tags
Update
Delete service
Create
Filter services by value
Filter launch type
Any launch type
Filter service type
Any service type
1
Service name
ARN
Status
Service type
Deployments and tasks
Last deployment
Task definition
No services
No services to display.
Create


eu-west-3.console.aws.amazon.com/ecs/v2/clusters/examplecluster/create-service?region=eu-west-3
Gmail
YouTube
Maps
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LattePanda 3 Delta...
Turkey launches TO...
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Discover products
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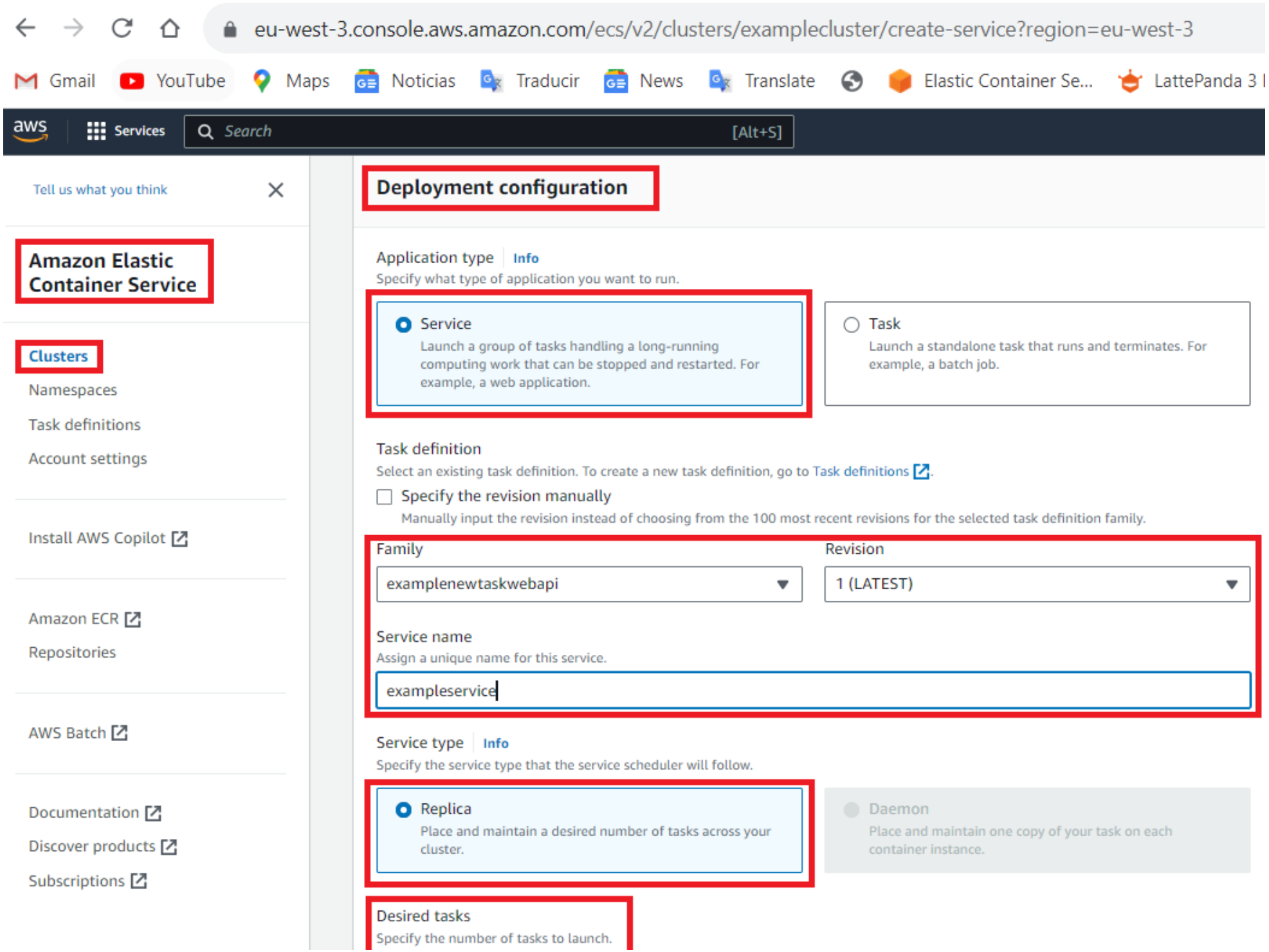
Amazon Elastic Container Service > Clusters > examplecluster > Create service
Create Info
Environment
AWS Fargate
Existing cluster
examplecluster
Compute configuration (advanced)
Compute options Info
To ensure task distribution across your compute types, use appropriate compute options.
Capacity provider strategy
Specify a launch strategy to distribute your tasks across one or more capacity providers.
Launch type
Launch tasks directly without the use of a capacity provider strategy.
Launch type Info
Select either managed capacity (Fargate), or custom capacity (EC2 or user-managed, External instances). External instances are registered to your cluster using the ECS Anywhere capability.
FARGATE
Platform version Info
Specify the platform version on which to run your service.
LATEST


eu-west-3.console.aws.amazon.com/ecs/v2/clusters/examplecluster/create-service?region=eu-west-3
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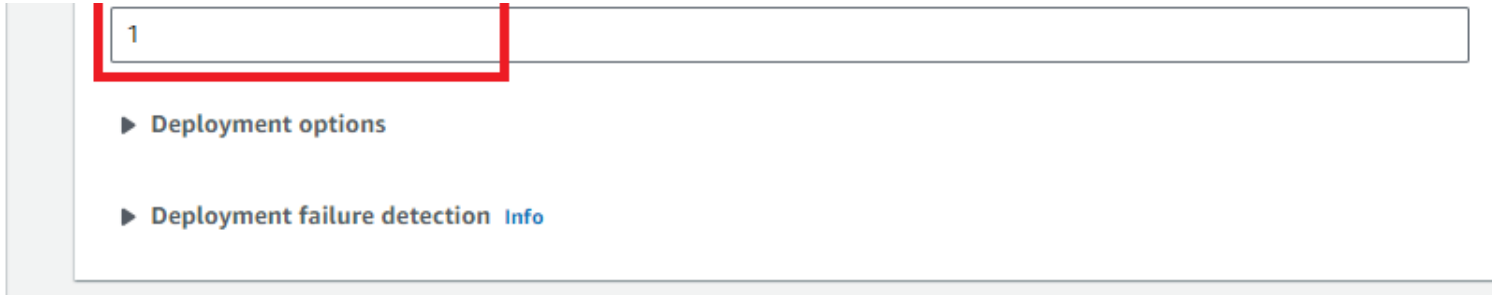
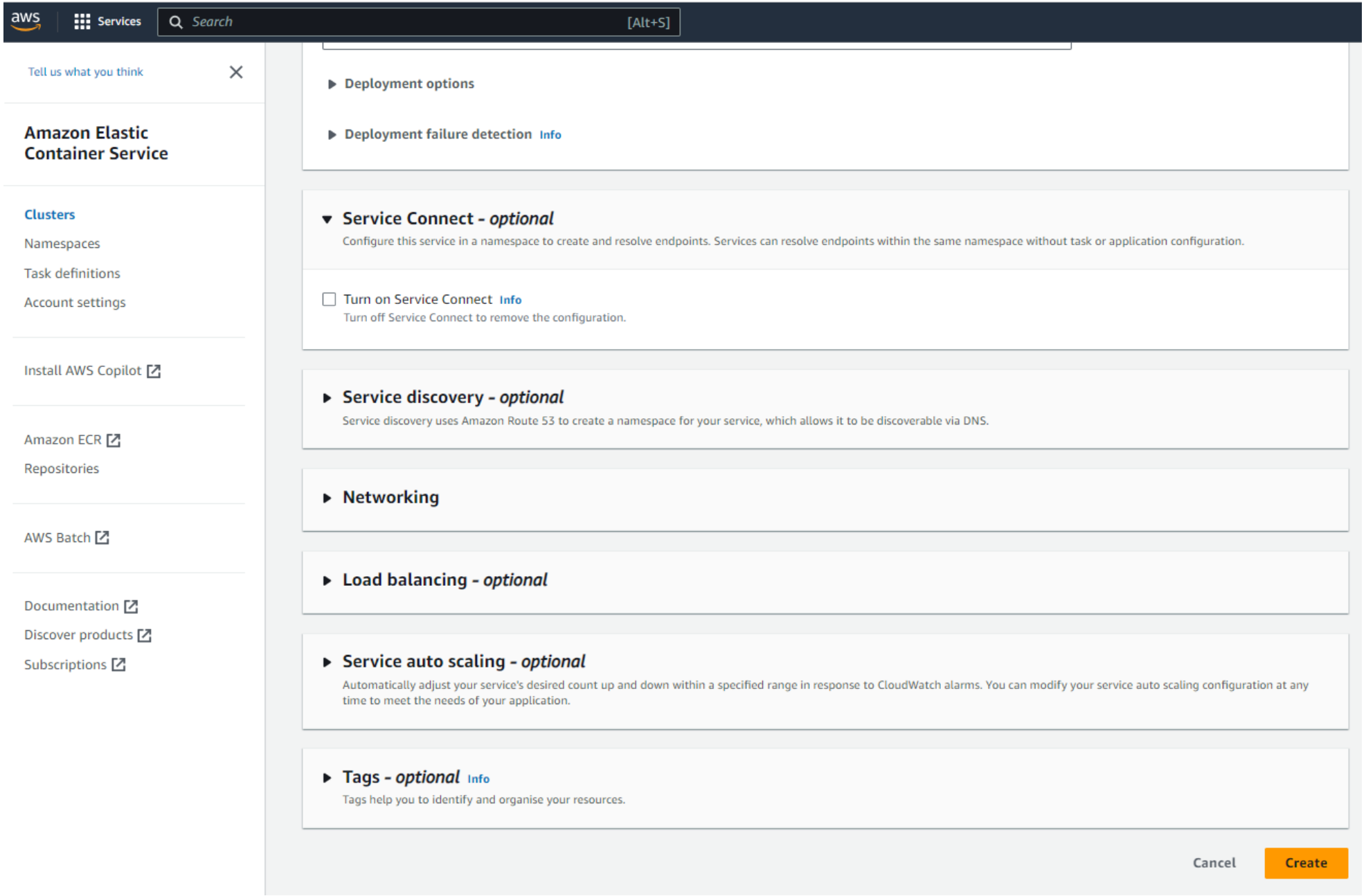
Deployment configuration
Application type Info
Specify what type of application you want to run.
Service
Launch a group of tasks handling a long-running computing work that can be stopped and restarted. For example, a web application.
Task
Launch a standalone task that runs and terminates. For example, a batch job.
Task definition
Select an existing task definition. To create a new task definition, go to Task definitions.
Specify the revision manually
Manually input the revision instead of choosing from the 100 most recent revisions for the selected task definition family.
Family
examplenewtaskwebapi
Revision
1 (LATEST)
Service name
Assign a unique name for this service.
exampleservice
Service type Info
Specify the service type that the service scheduler will follow.
Replica
Place and maintain a desired number of tasks across your cluster.
Daemon
Place and maintain one copy of your task on each container instance.
Desired tasks
Specify the number of tasks to launch.


1
Deployment options
Deployment failure detection Info


aws
Services
Search
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Amazon ECR
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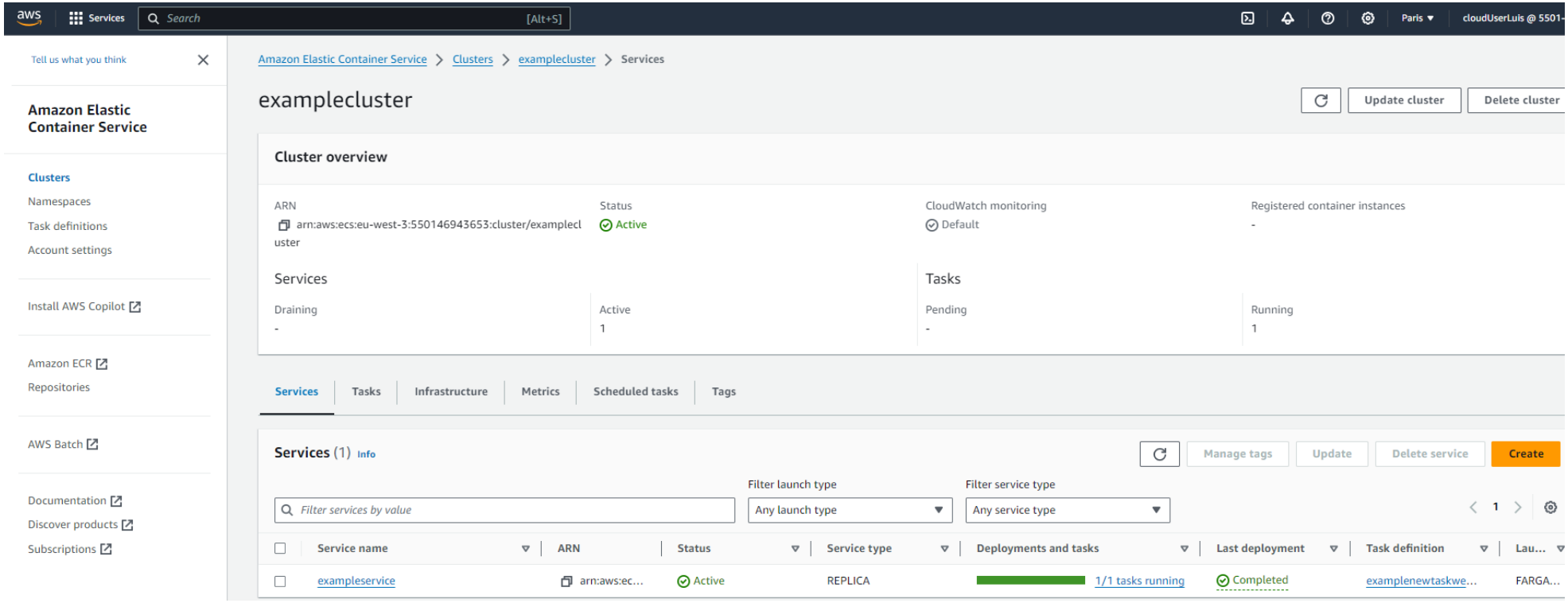
Deployment options
Deployment failure detection Info
Service Connect - optional
Configure this service in a namespace to create and resolve endpoints. Services can resolve endpoints within the same namespace without task or application configuration.
Turn on Service Connect Info
Turn off Service Connect to remove the configuration.
Service discovery - optional
Service discovery uses Amazon Route 53 to create a namespace for your service, which allows it to be discoverable via DNS.
Networking
Load balancing - optional
Service auto scaling - optional
Automatically adjust your service's desired count up and down within a specified range in response to CloudWatch alarms. You can modify your service auto scaling configuration at any time to meet the needs of your application.
Tags - optional Info
Tags help you to identify and organise your resources.
Cancel
Create


aws
Services
Search
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Paris
cloudUserLuis @ 5501-
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Install AWS Copilot
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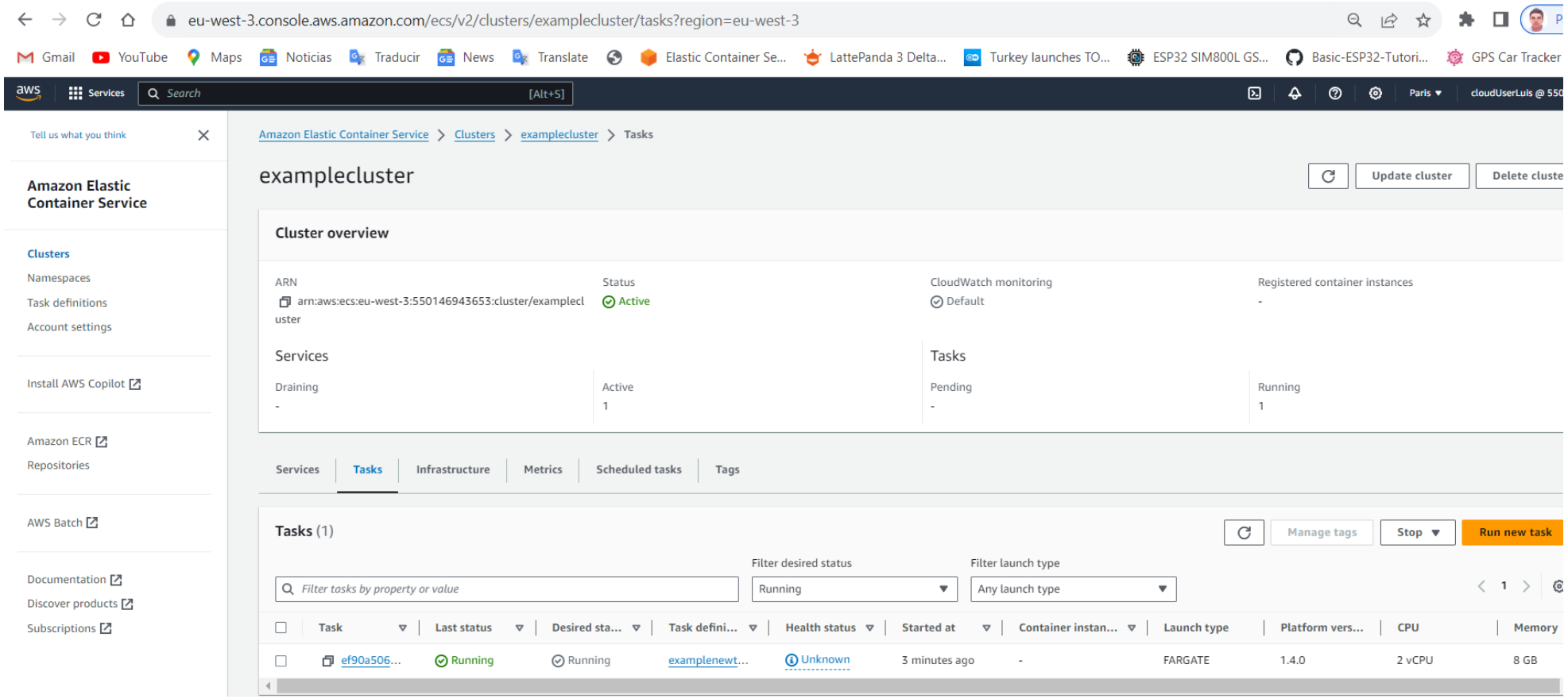
Amazon Elastic Container Service > Clusters > examplecluster > Services
examplecluster
Update cluster
Delete cluster
Cluster overview
ARN
arn:aws:ecs:eu-west-3:550146943653:cluster/examplecluster
Status
Active
CloudWatch monitoring
Default
Registered container instances
-
Services
Draining
-
Active
1
Tasks
Pending
-
Running
1
Services
Tasks
Infrastructure
Metrics
Scheduled tasks
Tags
Services (1) Info
Manage tags
Update
Delete service
Create
Filter launch type
Any launch type
Filter service type
Any service type
Filter services by value
1
Service name
ARN
Status
Service type
Deployments and tasks
Last deployment
Task definition
Lau...
exampleservice
arn:aws:ec...
Active
REPLICA
1/1 tasks running
Completed
examplenewtaskwe...
FARGA...


eu-west-3.console.aws.amazon.com/ecs/v2/clusters/examplecluster/tasks?region=eu-west-3
Amazon Elastic Container Service
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Task definitions
Account settings
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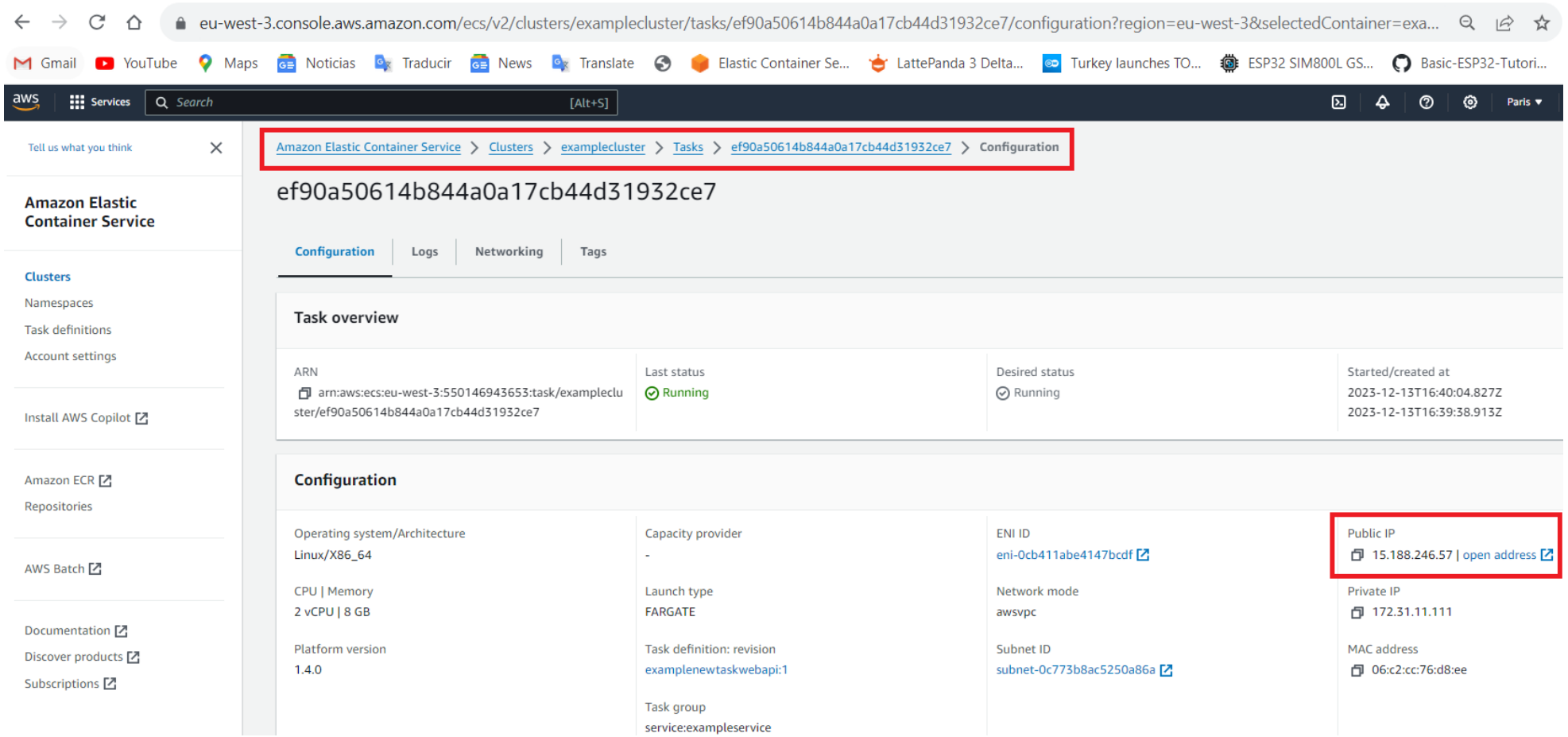
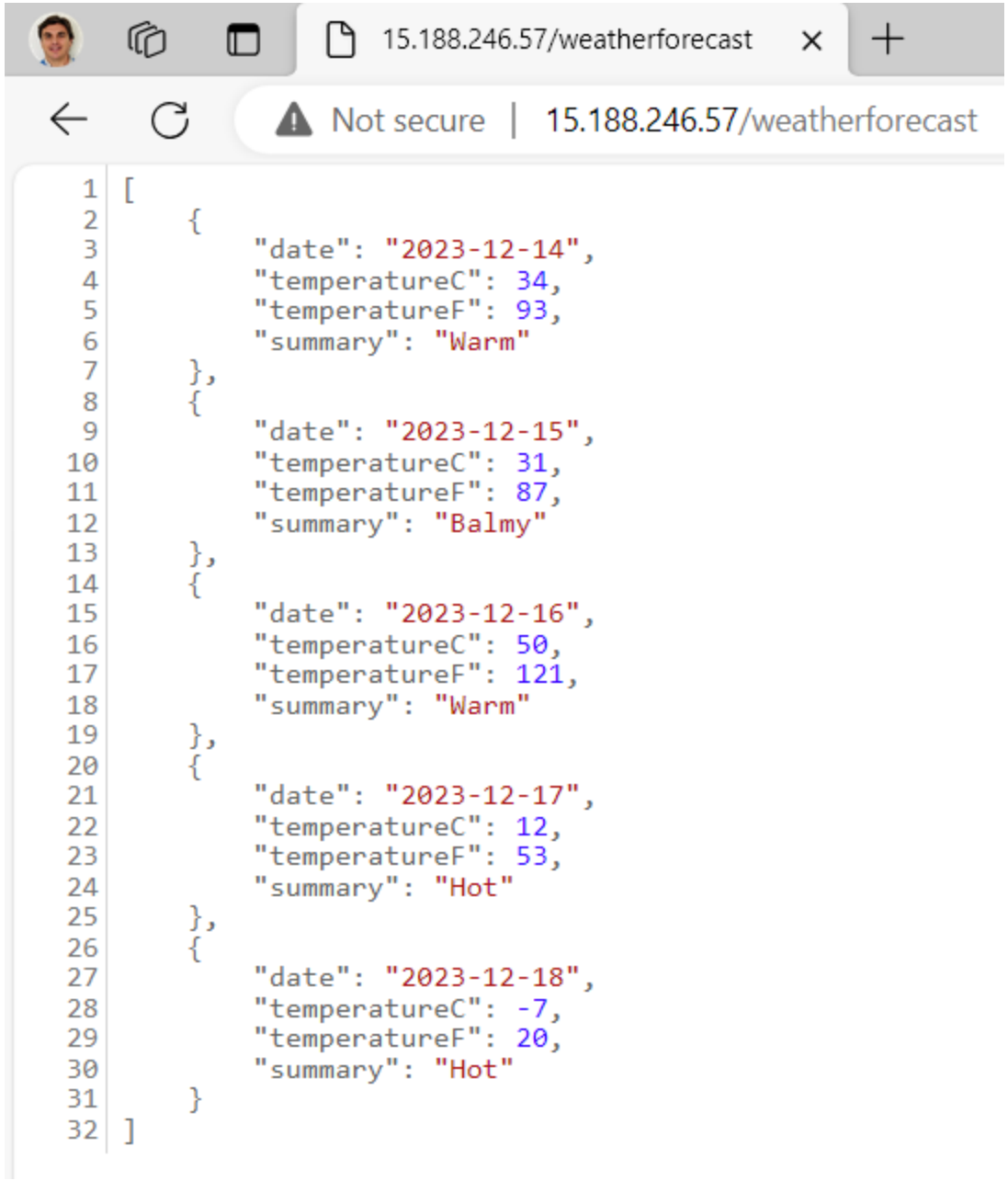
Amazon Elastic Container Service > Clusters > examplecluster > Tasks
examplecluster
Update cluster
Cluster overview
ARN
arn:aws:ecs:eu-west-3:550146943653:cluster/examplecluster
Status
Active
CloudWatch monitoring
Default
Registered container instances
-
Services
Draining
-
Active
1
Tasks
Pending
-
Running
1
Services
Tasks
Infrastructure
Metrics
Scheduled tasks
Tags
Tasks (1)
Manage tags
Stop
Run new task
Filter tasks by property or value
Filter desired status
Running
Filter launch type
Any launch type
Task
Last status
Desired sta...
Task defini...
Health status
Started at
Container instan...
Launch type
Platform vers...
CPU
Memory
ef90a506...
Running
Running
examplenewt...
Unknown
3 minutes ago
-
FARGATE
1.4.0
2 vCPU
8 GB



7. Access to the Web API application enpoint

http://15.188.246.57/weatherforecast




```
[
    {
        "date": "2023-12-14",
        "temperatureC": 34,
        "temperatureF": 93,
        "summary": "Warm"
    },
    {
        "date": "2023-12-15",
        "temperatureC": 31,
        "temperatureF": 87,
        "summary": "Balmy"
    },
    {
        "date": "2023-12-16",
        "temperatureC": 50,
        "temperatureF": 121,
        "summary": "Warm"
    },
    {
        "date": "2023-12-17",
        "temperatureC": 12,
        "temperatureF": 53,
        "summary": "Hot"
    },
    {
        "date": "2023-12-18",
        "temperatureC": -7,
        "temperatureF": 20,
        "summary": "Hot"
    }
]
```