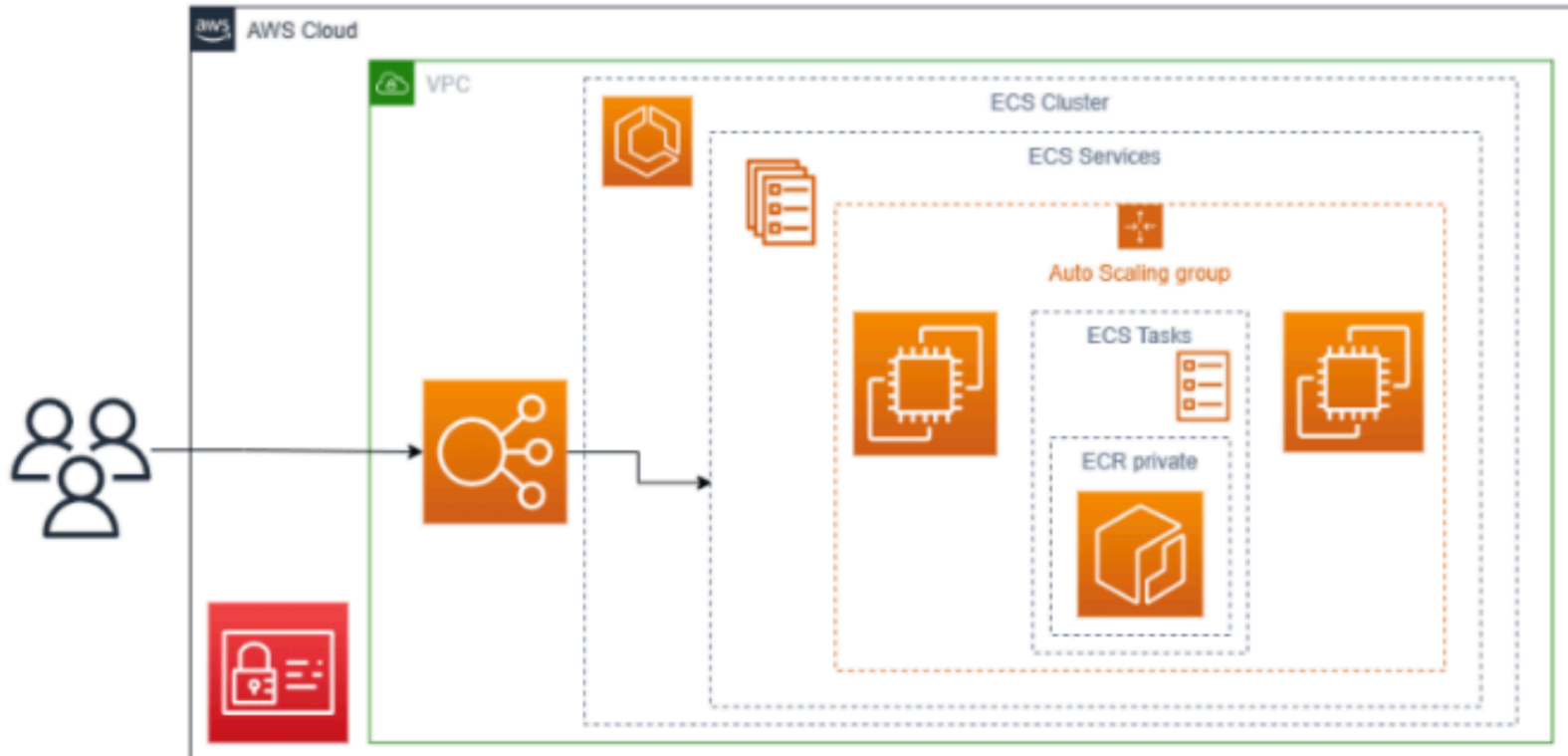


Amazon Elastic Container Service

- Amazon Elastic Container Service(ECS)는 컨테이너화된 애플리케이션이 더 효율적으로 배포하고 관리하고 규모를 조정하는 데 도움이 되는 완전관리형 컨테이너 오케스트레이션 서비스입니다.



단계1: aws ecs 접속

The screenshot shows the AWS console interface. At the top, the 'Services' search bar contains the text 'ecs', which is highlighted with a red box. A red arrow points from this search bar to the 'Elastic Container Service' result in the 'Services' list. The left sidebar shows the 'Amazon Elastic Container Registry' section with a 'Private registry' dropdown menu. The main content area displays 'Search results for 'ecs'' with a list of services. The 'Elastic Container Service' is the top result, marked with a star and described as 'Highly secure, reliable, and scalable way to run containers'. Below it is 'Batch', described as 'Fully managed batch processing at any scale'.

aws Services

Amazon Elastic Container Registry

Private registry

Repositories

Summary

Images

Permissions

Search results for 'ecs'

Services (26)

Features (66)

Resources **New**

Documentation (27,382)

Knowledge Articles (810)

Marketplace (437)

Blogs (3,125)

Services [See all 26 results ▶](#)

Elastic Container Service ★
Highly secure, reliable, and scalable way to run containers

Batch ☆
Fully managed batch processing at any scale

단계2: Create cluster

The screenshot shows the AWS Management Console interface for the Amazon Elastic Container Service (ECS). The top navigation bar includes the AWS logo, a 'Services' menu, a search bar, and a keyboard shortcut '[Option+S]'. Below this is a row of service icons: IAM, EC2, VPC, Lambda, API Gateway, S3, EMR, CloudFormation, Elastic Container Service, and CodePipeline. The left sidebar is titled 'Amazon Elastic Container Service' and contains a list of links: 'Clusters' (highlighted with a red box), 'Namespaces', 'Task definitions', and 'Account settings'. The main content area is titled 'Amazon Elastic Container Service > Clusters'. It features a 'Clusters (0) Info' header with a refresh icon and a 'Create cluster' button. Below the header is a search bar labeled 'Search clusters'. A table header is visible with columns: 'Cluster', 'Services', 'Tasks', 'Container instances', 'CloudWatch monitoring', and 'Cap'. The table body is empty, displaying 'No clusters'. A red arrow originates from the 'Clusters' link in the sidebar and points to the 'Create cluster' button.

단계3: Create cluster > Cluster configuration

Cluster configuration

Cluster name

Cluster name must be 1 to 255 characters. Valid characters are a-z, A-Z, 0-9, 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.



단계4: Create cluster > AWS Fargate

▼ Infrastructure [Info](#)

Serverless


Your cluster is automatically configured for AWS Fargate (serverless) with two capacity providers. Add Amazon EC2 instances.

☒ **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** can be registered after cluster creation is complete.

단계5: Create cluster > Create 클릭

▶ **Monitoring - optional** [Info](#)

Container Insights is turned off by default. To change the default behavior, use the CloudWatch Container Insights account setting. When you use Container Insights, there is a cost associated with it.

▶ **Encryption - new, optional**

Choose the KMS keys used by tasks running in this cluster to encrypt your storage.

▶ **Tags - optional** [Info](#)

Tags help you to identify and organize your clusters.

Cancel

Create



- 결과 확인

Amazon Elastic Container Service

Clusters

Namespaces

Task definitions

Account settings

Install AWS Copilot [↗](#)



[Amazon Elastic Container Service](#) > Clusters

Clusters (1) [Info](#)

Cluster	Services	Tasks	Container instances	CloudWatch
ecs-django-cluster	0	No tasks running	0 EC2	<input checked="" type="radio"/> Default

단계6: Create task

Amazon Elastic Container Service ✕

[Amazon Elastic Container Service](#) > Task definitions

Task definitions (0) [Info](#)

Clusters
Namespaces
Task definitions
Account settings

Filter task definitions

Filter by status

Active

Create new task definition ▲

Create new task definition

Create new task definition with JSON

Task definition ▼ | Status of last revision ▼

No task definitions

단계7: Create task > Task definition configuration

Task definition configuration

Task definition family | [Info](#)

Specify a unique task definition family name.

ecs-django-task

Up to 255 letters (uppercase and lowercase), numbers, hyphens, and underscores are allowed.

단계8: Create task > Infrastructure requirements

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 ▼

Network mode [Info](#)

awsvpc ▼

단계9: Create task > Infrastructure requirements

Task size [Info](#)

Specify the amount of CPU and memory to reserve for your task.

CPU

Memory

▼ Task roles - conditional

Task role [Info](#)

A task IAM role allows containers in the task to make API requests to AWS services. You can create a task IAM role from the [IAM console](#).

Task execution role [Info](#)

A task execution IAM role is used by the container agent to make AWS API requests on your behalf. If you don't already have a task execution IAM role created, we can create one for you.

단계10: AWS ECR > copy URI

Amazon Elastic Container Registry

▼ Private registry

Repositories

Settings

▼ Public registry

Repositories

Settings

ECR public gallery

Amazon ECR > Private registry > Repositories

Private repositories

Repositories (1)

Filter status

Repository name	URI	Created at	Tag immutability	Scan frequency	Encryption type
ecs-django-ecr	426653742146.dkr.ecr.ap-northeast-2.amazonaws.com/ecs-django-ecr	2024년 7월 28일, 19:10:55 (UTC+09)	Disabled	Manual	AES-256

단계11: Create task > Container

- Name: `buildspec.yml`에 등록된 이름
- Image URI: `aws ecr`에 생성된 uri

Amazon Elastic Container Service

Clusters

Namespaces

Task definitions

Account settings

Install AWS Copilot

Amazon ECR

Repositories

Container - 1

Essential container

Remove

Container details

Specify a name, container image, and whether the container should be marked as essential. Each task definition must have at least one essential container.

Name	Image URI	Essential container
ecs-django-container	426653742146.dkr.ecr.ap-northeast-2.amazonaws.com/ecs-django-ecr	Yes

Up to 255 letters (uppercase and lowercase), numbers, hyphens, and underscores are allowed.

Up to 255 letters (uppercase and lowercase), numbers, hyphens, underscores, colons, periods, forward slashes, and number signs are allowed.

Private registry

Store credentials in Secrets Manager, and then use the credentials to reference images in private registries.

☐ Private registry authentication

Port mappings

Add port mappings to allow the container to access ports on the host to send or receive traffic. For port name, a default will be assigned if left blank.

Container port	Protocol	Port name	App protocol	
80	TCP	container-port-protocol	HTTP	Remove

단계12: Create task > Create

▶ **Storage - optional**

▶ **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 organize your task definitions.

Cancel

Create

- 결과 확인

aws

Services

Q ecr

X

IAM

EC2

VPC

Lambda

API Gateway

S3

EMR

CloudFormation

Elastic Container Service

CodePipeline

Seoul

?

?

?

Amazon Elastic Container Service

X

Clusters

Namespaces

Task definitions

Account settings

Install AWS Copilot

Amazon Elastic Container Service > Task definitions > ecs-django-task

ecs-django-task (1) Info

Refresh

Deploy

Actions

Create

Filter task definition revisions by value

Filter status

Active

<input type="checkbox"/>	Task definition: revision	Status
<input type="checkbox"/>	ecs-django-task:1	ACTIVE

단계13: aws ecs cluster 선택

The screenshot shows the AWS Management Console interface for the Amazon Elastic Container Service (ECS). The top navigation bar includes the AWS logo, a 'Services' menu, a search bar with 'ecr' entered, and icons for various AWS services. The left sidebar displays the 'Amazon Elastic Container Service' menu with options like 'Namespaces', 'Task definitions', 'Account settings', and 'Clusters'. The 'Clusters' option is highlighted with a red box, and a red arrow points from it to the 'ecs-django-cluster' in the main content area.

The main content area shows the 'Amazon Elastic Container Service > Clusters' page. It features a 'Clusters (1) Info' section with a search bar labeled 'Search clusters'. Below this is a table listing the clusters:

Cluster	Services	Tasks	Container instances	Cloud
ecs-django-cluster	0	No tasks running	0 EC2	ⓧ Def

단계14: Create Service

ecs-django-cluster

↻

Update cluster

Delete cluster

Cluster overview

ARN

arn:aws:ecs:ap-northeast-2:426653742146:cluster/ecs-django-cluster

Status

✔ Active

CloudWatch monitoring

✔ Default

Registered container instances

-

Services

Draining

-

Active

-

Tasks

Pending

-

Running

-

Encryption

Managed storage

-

Fargate ephemeral storage

-

Services

Tasks

Infrastructure

Metrics

Scheduled tasks

Tags

Services (0) Info

↻

Manage tags

Update

Delete service

Create

Filter launch type

Filter service type

단계15: Create Service > Environment

Existing cluster

ecs-django-cluster

▼ 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 ▼

단계16: Create Service > 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

ecs-django-task ▼

Revision

1 (LATEST) ▼

- **Desired tasks** : 정의된 숫자만큼 instance(django server) 유지

Service name

Assign a unique name for this service.

ecs-django-service

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](#)

단계17: Create Service > Create

▶ Load balancing - *optional*

Configure load balancing using Amazon Elastic Load Balancing to distribute traffic evenly across the healthy tasks in your service.

▶ 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.

▶ Volume [Info](#)

Configure a data volume to provide additional storage for the containers in the task.

▶ Tags - *optional* [Info](#)

Tags help you to identify and organize your resources.

Cancel

Create



Clusters

Namespaces

Task definitions

Account settings

Install AWS Copilot

Amazon ECR

Repositories

AWS Batch

Documentation

Discover products

Subscriptions

Tell us what you think

Cluster overview

ARN

arn:aws:ecs:ap-northeast-2:426653742146:cluster/ecs-django-cluster

Status

Active

CloudWatch monitoring

Default

Registered cont

-

Services

Draining

-

Active

1

Tasks

Pending

-

Running

1

Encryption

Managed storage

-

Fargate ephemeral storage

-

Services

Tasks

Infrastructure

Metrics

Scheduled tasks

Tags

Services (1) [Info](#)



Manage tags

Update

Delete s

Filter services by value

Filter launch type

Any launch type

Filter service type

Any service type



Service name



ARN

Status



Service...



Deployments and tasks



[ecs-django-service](#)



arn:aws:ec...

Active

REPLICA



[1/1 Tasks running](#)

Django service 접속

단계1: aws ec2 > Security Groups

The screenshot shows the AWS Management Console interface for the 'Security Groups' page. The left sidebar contains a navigation menu with the following items: EC2 Dashboard, EC2 Global View, Events, Instances, Images, Elastic Block Store, Network & Security (expanded), Load Balancing, and Auto Scaling. Under 'Network & Security', the 'Security Groups' link is highlighted with a red box. The main content area displays a table of security groups. The first row is highlighted with a red box, showing a security group with ID 'sg-0b8eb5ef628718991' and name 'default'. Below the table, the details for this security group are shown, with the 'Inbound rules' tab selected and highlighted with a red box. At the bottom right, the 'Edit inbound rules' button is highlighted with a red box. Red arrows indicate the flow from the sidebar link to the table row, then to the 'Inbound rules' tab, and finally to the 'Edit inbound rules' button.

EC2 Dashboard X

EC2 Global View

Events

► Instances

► Images

► Elastic Block Store

▼ Network & Security

Security Groups

Elastic IPs

Placement Groups

Key Pairs

Network Interfaces

► Load Balancing

▼ Auto Scaling

Auto Scaling Groups

Security Groups (1/1) Info

Find resources by attribute or tag

< 1 > ⚙

<input checked="" type="checkbox"/>	Name	Security group ID	Security group name	VPC ID	Description
<input checked="" type="checkbox"/>	-	sg-0b8eb5ef628718991	default	vpc-0e092393ffbd671b9	default VPC

sg-0b8eb5ef628718991 - default

Details Inbound rules Outbound rules Tags

Inbound rules (1)

Manage tags Edit inbound rules

- EC2 Dashboard
- EC2 Global View
- Events
- ▶ Instances
- ▶ Images
- ▶ Elastic Block Store
- ▼ Network & Security

Security Groups

Elastic IPs

Placement Groups

Key Pairs

Network Interfaces
- ▶ Load Balancing
- ▼ Auto Scaling

Auto Scaling Groups
- Settings

✕

Security Groups (1) [Info](#)

↻

Actions ▼

Export security groups to CSV ▼

Create security group

🔍 Find resources by attribute or tag

< 1 > ⚙️

<input type="checkbox"/>	Name ▼	Security group ID ▼	Security group name ▼	VPC ID ▼	Description
<input type="checkbox"/>	–	sg-0b8eb5ef628718991	default	vpc-0e092393ffbd671b9 🔗	default VPC

Details

Inbound rules

Outbound rules

Tags

Inbound rules (2)

↻

Manage tags

Edit inbound rules

🔍 Search

< 1 > ⚙️

<input type="checkbox"/>	Name ▼	Security group rule... ▼	IP versi... ▼	Type ▼	Protocol ▼	Port ra... ▼	Source
<input type="checkbox"/>	–	sgr-0fdc04f38fee81bc8	IPv4	HTTP	TCP	80	0.0.0.0/0
<input type="checkbox"/>	–	sgr-0dc3c36990aa6c4ba	–	All traffic	All	All	sg-0b8eb5ef628718991 / default

단계2: aws ecs > cluster

The screenshot displays the AWS Management Console interface for the Amazon Elastic Container Service (ECS). The top navigation bar includes the AWS logo, a 'Services' dropdown, a search bar containing 'ecr', and various service icons. The left sidebar, titled 'Amazon Elastic Container Service', lists 'Clusters' as the selected option, highlighted with a red box and an arrow pointing to the cluster name in the table. The main content area shows the 'Clusters (1)' page with a search bar and a table of clusters.

Cluster	Services	Tasks	Container instances
ecs-django-cluster	1	0 Pending 1 Running	0 EC2

단계3: aws ecs > Task

Encryption


Managed storage - Fargate ephemeral storage -

Services | **Tasks** | Infrastructure | Metrics | Scheduled tasks | Tags

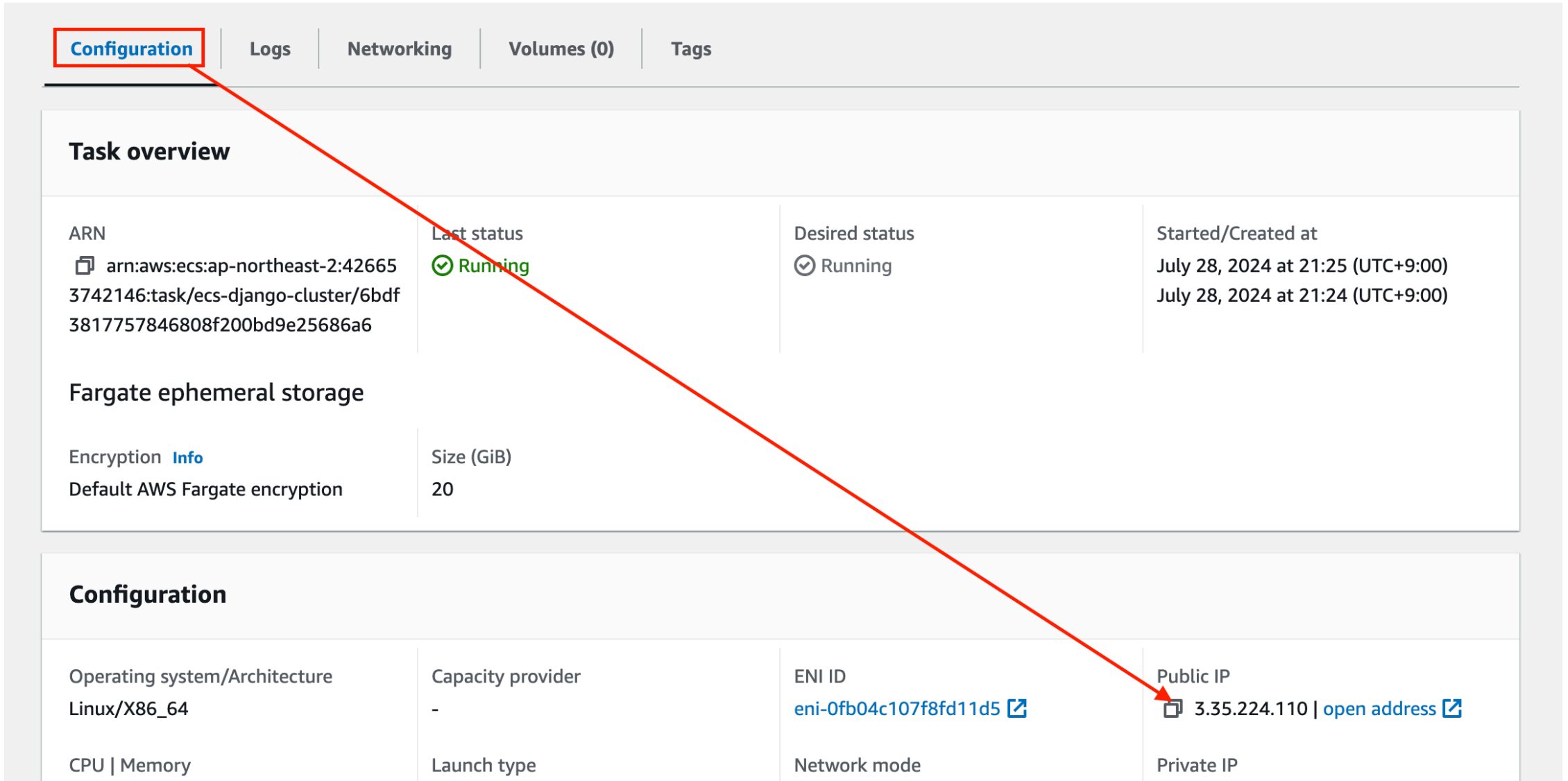
Tasks (1) 🔄 Manage tags

🔍 Filter tasks by property or value

Filter desired status: Running ▼ Filter launch type: Any launch type

<input type="checkbox"/>	Task ▼	Last status ▼	Desired status ▼	Task definition ▼
<input type="checkbox"/>	 6bdf3817757846808...	✔ Running	✔ Running	ecs-django-task:1

단계4: aws ecs > Task > Public IP



The screenshot shows the AWS ECS console interface for a specific task. At the top, there are tabs for Configuration, Logs, Networking, Volumes (0), and Tags. The Configuration tab is selected and highlighted with a red box. Below the tabs, the 'Task overview' section displays key information: ARN, Last status (Running), Desired status (Running), and Started/Created at timestamps. The 'Fargate ephemeral storage' section shows encryption settings and a size of 20 GiB. The 'Configuration' section at the bottom lists various parameters including Operating system/Architecture, Capacity provider, ENI ID, Public IP, CPU | Memory, Launch type, Network mode, and Private IP. A red arrow originates from the 'Configuration' tab and points directly to the 'Public IP' field, which displays the address 3.35.224.110 and a link to 'open address'.

Task overview			
ARN arn:aws:ecs:ap-northeast-2:426653742146:task/ecs-django-cluster/6bdf3817757846808f200bd9e25686a6	Last status Running	Desired status Running	Started/Created at July 28, 2024 at 21:25 (UTC+9:00) July 28, 2024 at 21:24 (UTC+9:00)
Fargate ephemeral storage			
Encryption Info Default AWS Fargate encryption	Size (GiB) 20		
Configuration			
Operating system/Architecture Linux/X86_64	Capacity provider -	ENI ID eni-0fb04c107f8fd11d5 ↗	Public IP 3.35.224.110 open address ↗
CPU Memory	Launch type	Network mode	Private IP

단계5: 접속 성공

todolist 초기화면입니다.

The screenshot shows a web browser window with a single tab titled 'Document'. The address bar displays a warning icon, the text '주의 요함' (Warning), and the IP address '3.35.224.110'. Below the browser window, the text 'todolist 초기화면입니다.' is visible. To the right, the Chrome DevTools Network tab is open, showing a timeline of network activity. The timeline has a green bar indicating a successful request. Below the timeline, a table lists the loaded resources:

Name	Status	Type
3.35.224.110	200	document
index.css	200	stylesheet
index.js	200	script