

# AWS ASSIGNMENT 15&16

## WORKING WITH LAMBDA

-PRUTHVI RAJ.M

The screenshot shows the AWS S3 Management Console interface. On the left, there's a sidebar with options like Buckets, Access Points, Object Lambda Access Points, Batch Operations, and Access analyzer for S3. The main area is titled "Buckets (2)" and lists two buckets:

| Name                    | AWS Region               | Access                        | Creation date                        |
|-------------------------|--------------------------|-------------------------------|--------------------------------------|
| mydestinationbucket3869 | US East (Ohio) us-east-2 | Bucket and objects not public | March 20, 2021, 14:09:57 (UTC+05:30) |
| mysourcebucket3868      | US East (Ohio) us-east-2 | Bucket and objects not public | March 20, 2021, 14:08:20 (UTC+05:30) |

The screenshot shows the IAM Management Console interface. It's titled "Create policy" and displays a JSON editor with the following policy code:

```
1 * {
2     "Version": "2012-10-17",
3     "Statement": [
4         {
5             "Effect": "Allow",
6             "Action": [
7                 "s3:GetObject"
8             ],
9             "Resource": [
10                 "arn:aws:s3:::mysourcebucket3868/*"
11             ]
12         },
13         {
14             "Effect": "Allow",
15             "Action": [
16                 "s3:PutObject"
17             ],
18             "Resource": [
19                 "arn:aws:s3:::mydestinationbucket3869/*"
20             ]
21         }
22     ]
23 }
```

At the bottom, there are buttons for "Cancel" and "Next Step".

aws management console - Bing X IAM Management Console screenrec

https://console.aws.amazon.com/iam/home?region=us-east-2#/policies\$new?step=review

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Create policy

Review policy

Name\* mypolicy

Description

Summary

| Service | Access level         | Resource | Request condition |
|---------|----------------------|----------|-------------------|
| S3      | Limited: Read, Write | Multiple | None              |

Allow (1 of 275 services) Show remaining 274

Tags

| Key                                   | Value |
|---------------------------------------|-------|
| No tags associated with the resource. |       |

\* Required

Cancel Previous Create policy

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Type here to search

aws management console - Bing X IAM Management Console screenrec

https://console.aws.amazon.com/iam/home?region=us-east-2#/policies

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Identity and Access Management (IAM)

Dashboard

Access management

Groups

Users

Roles

Policies

Identity providers

Account settings

Access reports

Access analyzer

Archive rules

Analyzers

Settings

Credential report

Organization activity

Service control policies (SCPs)

Search IAM

AWS account ID: 961424948557

Filter policies

| Policy name | Type             | Used as | Description |
|-------------|------------------|---------|-------------|
| mypolicy    | Customer managed | None    |             |

Showing 1 result

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Type here to search

Screenshot of the AWS IAM Management Console showing the "Create role" wizard, Step 2: Select type of trusted entity.

The "Common use cases" section is expanded, showing the following options:

- EC2**: Allows EC2 instances to call AWS services on your behalf.
- Lambda**: Allows Lambda functions to call AWS services on your behalf. This option is selected.

Below the use cases, there is a table of AWS services and their associated common use cases:

| Service                       | Common Use Cases           |
|-------------------------------|----------------------------|
| API Gateway                   | CloudWatch Events          |
| AWS Backup                    | CodeBuild                  |
| AWS Chatbot                   | CodeDeploy                 |
| AWS Marketplace               | CodeGuru                   |
| AWS Support                   | CodeStar Notifications     |
| Amplify                       | Comprehend                 |
| AppStream 2.0                 | Config                     |
| AppSync                       | Connect                    |
| Application Auto Scaling      | DMS                        |
| Application Discovery Service | Data Lifecycle Manager     |
| Batch                         | Data Pipeline              |
|                               | DataRew                    |
| EKS                           | Elastic Beanstalk          |
| EMR                           | ElastiCache                |
| KMS                           | Elastic Container Registry |
| Kinesis                       | Elastic Container Service  |
| Lake Formation                | Elastic Transcoder         |
| Lambda                        | Forecast                   |
| Lex                           | GameLift                   |
| MQ                            | Global Accelerator         |
| License Manager               | Glue                       |
| Redshift                      | MediaConvert               |
| Rekognition                   | MediaTailor                |
| RoboMaker                     | Machine Learning           |
| SWF                           | Macie                      |
| Security Hub                  | Managed Blockchain         |
| Service Catalog               | MediaConvert               |
| Step Functions                | Storage Gateway            |

\* Required

Cancel Next: Permissions

Screenshot of the AWS IAM Management Console showing the "Create role" wizard, Step 3: Attach permissions policies.

The "Attach permissions policies" section is expanded, showing the following options:

- Create policy**: A button to create a new policy.
- Filter policies**: A dropdown menu with a search bar containing "mypo".
- Showing 1 result**: A table showing one policy named "mypo".

| Policy name | Used as |
|-------------|---------|
| mypo        | None    |

Set permissions boundary

Screenshot of the AWS IAM Management Console showing the "Create role" wizard, Step 4: Set permissions boundary.

The "Set permissions boundary" section is expanded, showing the following options:

- Create policy**: A button to create a new policy.
- Filter policies**: A dropdown menu with a search bar containing "mypo".
- Showing 1 result**: A table showing one policy named "mypo".

| Policy name | Used as |
|-------------|---------|
| mypo        | None    |

\* Required

Cancel Previous Next: Tags

Create role

Add tags (optional)

IAM tags are key-value pairs you can add to your role. Tags can include user information, such as an email address, or can be descriptive, such as a job title. You can use the tags to organize, track, or control access for this role. [Learn more](#)

| Key         | Value (optional) | Remove |
|-------------|------------------|--------|
| name        | myrole           | x      |
| Add new key |                  |        |

You can add 49 more tags.

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Type here to search

Cancel Previous Next Review

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Create role

Review

Provide the required information below and review this role before you create it.

Role name\* myrole

Use alphanumeric and '+-, @,\_' characters. Maximum 64 characters.

Role description Allows Lambda functions to call AIWS services on your behalf.

Maximum 1000 characters. Use alphanumeric and '+-, @,\_' characters.

Trusted entities AWS service: lambda.amazonaws.com

Policies mypolicy [Edit](#)

Permissions boundary Permissions boundary is not set

The new role will receive the following tag

| Key  | Value  |
|------|--------|
| name | myrole |

\* Required

Cancel Previous Create role

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Identity and Access Management (IAM)

Summary

Role ARN: arn:aws:iam:961424948557:role/myrole

Role description: Allows Lambda functions to call AWS services on your behalf. | Edit

Instance Profile ARNs:

Path: /

Creation time: 2021-03-20 16:15 UTC+0530

Last activity: Not accessed in the tracking period

Maximum session duration: 1 hour | Edit

Permissions | Trust relationships | Tags (1) | Access Advisor | Revoke sessions

Permissions policies (1 policy applied)

Attach policies | Add inline policy

| Policy name | Policy type    |
|-------------|----------------|
| mypolicy    | Managed policy |

Permissions boundary (not set)

AWS account ID: 961424948557

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Services ▾

Lambda

Create FUNCTION Info

Choose one of the following options to create your function.

Author from scratch Start with a simple Hello World example.

Use a blueprint Build a Lambda application from sample code and configuration presets for common use cases.

Container image Select a container image to deploy for your function.

Browse serverless app repository Deploy a sample Lambda application from the AWS Serverless Application Repository.

Basic information

Function name Enter a name that describes the purpose of your function.  
mylambdafunction

Runtime Node.js 14.x

Permissions By default, Lambda will create an execution role with permissions to upload logs to Amazon CloudWatch Logs. You can customize this default role later when adding triggers.

Change default execution role

Execution role Choose a role that defines the permissions of your function. To create a custom role, go to the [IAM console](#).

Create a new role with basic Lambda permissions

Use an existing role

Create a new role from AWS policy templates

Existing role Choose an existing role that you've created to be used with this Lambda function. The role must have permission to upload logs to Amazon CloudWatch Logs.

myrole

View the myrole role on the IAM console.

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aws management console - Bing X mylambdafunction - Lambda + screenrec

https://us-east-2.console.aws.amazon.com/lambda/home?region=us-east-2#/functions/mylambdafunction?tab=code

aws Services ▾

Code source Info

File Edit Find View Go Tools Window Test Deploy Changes not deployed

index.js

```
1 var AWS = require("aws-sdk");
2
3 exports.handler = (event, context, callback) => {
4
5     var s3 = new AWS.S3();
6
7     var sourceBucket = "mysourcebucket3868";
8
9     var destinationBucket = "mydestinationbucket3869";
10
11     var objectKey = event.Records[0].s3.object.key;
12
13     var copySource = encodeURI(sourceBucket + "/" + objectKey);
14
15     var copyParams = { Bucket: destinationBucket, CopySource: copySource, Key: objectKey };
16
17     s3.getObject(copyParams, function(err, data) {
18
19         if (err) {
20             console.log(err, err.stack);
21
22         } else {
23             console.log("S3 object copy successful.");
24
25         }
26
27     });
28
29 });
30
31 };
```

9:53 JavaScript Spaces: 4

Runtime settings Info

Runtime Node.js 14.x Handler Info index.handler

Layers Info

Add a layer

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aws management console - Bing X Lambda + screenrec

https://us-east-2.console.aws.amazon.com/lambda/home?region=us-east-2#/add/trigger?focus=lambda&target=arn%3Aaws%3Alambda%3Aus-east-2%3A961424948557%3Afunction%3Amylambdafunction&...

aws Services ▾

Add trigger

Trigger configuration

S3 aws storage

Bucket Please select the S3 bucket that serves as the event source. The bucket must be in the same region as the function.

mysourcebucket3868

Event type Select the events that you want to have trigger the Lambda function. You can optionally set up a prefix or suffix for an event. However, for each bucket, individual events cannot have multiple configurations with overlapping prefixes or suffixes that could match the same object key.

All object create events

Prefix - optional Enter a single optional prefix to limit the notifications to objects with keys that start with matching characters.  
e.g. images/

Suffix - optional Enter a single optional suffix to limit the notifications to objects with keys that end with matching characters.  
e.g. .jpg

Lambda will add the necessary permissions for Amazon S3 to invoke your Lambda function from this trigger. Learn more about the Lambda permissions model.

Recursive invocation If your function writes objects to an S3 bucket, ensure that you are using different S3 buckets for input and output. Writing to the same bucket increases the risk of creating a recursive invocation, which can result in increased Lambda usage and increased costs. Learn more

I acknowledge that using the same S3 bucket for both input and output is not recommended and that this configuration can cause recursive invocations, increased Lambda usage, and increased costs.

Cancel Add

Feedback English (US) ▾

Type here to search

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The screenshot shows the AWS Lambda console interface. At the top, there's a search bar and a navigation bar with options like 'Actions' and 'Create function'. Below the search bar, a table lists one function:

| Function name    | Description | Package type | Runtime      | Code size | Last modified |
|------------------|-------------|--------------|--------------|-----------|---------------|
| mylambdafunction |             | Zip          | Node.js 14.x | 453 bytes | in 2 minutes  |

The screenshot shows the AWS S3 Management Console. A green banner at the top indicates 'Upload succeeded'. Below it, the 'Upload: status' section provides a summary of the upload results:

| Destination             | Succeeded                 | Failed            |
|-------------------------|---------------------------|-------------------|
| s3://mysourcebucket3868 | 1 file, 53.4 KB (100.00%) | 0 files, 0 B (0%) |

Below the summary, there are tabs for 'Files and folders' and 'Configuration'. The 'Files and folders' tab shows a list of uploaded files:

| Name                        | Folder | Type       | Size    | Status    | Error |
|-----------------------------|--------|------------|---------|-----------|-------|
| 210303-dji-fpv-1280x720.jpg | -      | image/jpeg | 53.4 KB | Succeeded | -     |

aws management console - Bing X S3 Management Console + Screen rec

https://s3.console.aws.amazon.com/s3/buckets/mysourcebucket3868?region=us-east-2&tab=objects

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Amazon S3 > mysourcebucket3868

Objects (1)

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)

List versions C Delete Actions Create folder Upload

Find objects by prefix

| Name                        | Type | Last modified                        | Size    | Storage class |
|-----------------------------|------|--------------------------------------|---------|---------------|
| 210305-dji-fpv-1280x720.jpg | jpg  | March 20, 2021, 16:36:40 (UTC+05:30) | 53.4 KB | Standard      |



aws management console - Bing X S3 Management Console + Screen rec

https://s3.console.aws.amazon.com/s3/buckets/mydestinationbucket3869?region=us-east-2&tab=objects

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Amazon S3 > mydestinationbucket3869

mydestinationbucket3869

Objects (1)

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)

C Delete Actions Create folder Upload

Find objects by prefix

| Name                        | Type | Last modified                        | Size    | Storage class |
|-----------------------------|------|--------------------------------------|---------|---------------|
| 210305-dji-fpv-1280x720.jpg | jpg  | March 20, 2021, 16:37:19 (UTC+05:30) | 53.4 KB | Standard      |



# WORKING WITH ELASTIC CONTAINER SERVICE USING FARGATE

The screenshot shows the AWS EC2 Network Interfaces page. The left sidebar includes options like New EC2 Experience, EC2 Dashboard, Events, Tags, Limits, Instances, Images, Elastic Block Store, and Network & Security. The main content displays a table for Network interfaces (1/1). The table has columns for Name, Network interface ID, Subnet ID, VPC ID, Availability Zone, Security groups, Description, and Instance ID. One row is selected, showing details for eni-042eaff59e41bce71. The interface is associated with subnet-03825d2ea631b48d0, vpc-09b366386b926e329, and us-east-2a. It belongs to the security group sg-072cd048d7ddd647b (EC2ContainerService-mycluster-EcsSecurityGroup-1XR70EEF6IV4K) and has a requester-managed status. IP addresses include a private IPv4 DNS (ip-10-0-0-5.us-east-2.compute.internal) and a public IPv4 DNS (ec2-18-191-147-18.us-east-2.compute.amazonaws.com). The interface is connected to an instance with ID 961424948557.

This screenshot shows the same Network interfaces page, but the Details tab is selected for the interface eni-042eaff59e41bce71. The interface details are identical to the previous screenshot, including its association with the specified VPC, subnet, and security group.

Amazon ECS    VPC Management Console

Clusters mycluster Task : 8f3b48db91ba4346bcde585fa6d6942

Details Tags Logs

Cluster mycluster  
Launch type FARGATE  
Platform version 1.4.0  
Task definition first-run-task-definition.1  
Group service.sample-app-service  
Task role None  
Last status RUNNING  
Desired status RUNNING  
Created at 2021-03-20 13:48:35 +0530  
Started at 2021-03-20 13:49:04 +0530

Network

Network mode awsvpc  
ENI ID eni-042eaff59e41bce71  
Subnet ID subnet-03825d2ea631b48d0  
Private IP 10.0.0.5  
Public IP 18.191.147.18  
Mac address 02:0c:e3:85:b2:e8

Containers

| Name       | Container Runtime ID  | Status  | Image     | Image Digest | CPU Units | Hard/Soft memory limit | Essential | Resource ID           |
|------------|-----------------------|---------|-----------|--------------|-----------|------------------------|-----------|-----------------------|
| sample-app | 8f3b48db91ba4346bc... | RUNNING | httpd:2.4 |              | 256       | -/512                  | true      | f9a5dd13-718e-412e... |

Last updated on March 20, 2021 1:48:34 PM (0m ago)

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Amazon ECS    VPC Management Console

Clusters mycluster Service : sample-app-service

Update Delete

Cluster mycluster  
Status ACTIVE  
Task definition first-run-task-definition.1  
Service type REPLICA  
Launch type FARGATE  
Service role AWSServiceRoleForECS  
Created By arn:aws:iam::961424948557:root

Details Tasks Events Auto Scaling Deployments Metrics Tags Logs

Last updated on March 20, 2021 1:48:12 PM (0m ago)

Task status: Running Stopped

Filter in this page Page size 50

| Task                         | Task Definition             | Last status | Desired status | Group                      | Launch type | Platform version |
|------------------------------|-----------------------------|-------------|----------------|----------------------------|-------------|------------------|
| 8f3b48db91ba4346bcde585fa... | first-run-task-definition.1 | RUNNING     | RUNNING        | service.sample-app-service | FARGATE     | 1.4.0            |

Feedback English (US) ▾ Type here to search

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Amazon ECS

VPC Management Console

https://us-east-2.console.aws.amazon.com/vpc/home?region=us-east-2#securityGroups

aws Services

New VPC Experience

Tell us what you think

VPC Dashboard

Filter by VPC:

Select a VPC

VIRTUAL PRIVATE CLOUD

Your VPCs

Subnets

Route Tables

Internet Gateways

Egress Only Internet Gateways

DHCP Options Sets

Static IPs

Managed Prefix Lists

Endpoints

Endpoint Services

NAT Gateways

Peering Connections

SECURITY

Network ACLs

Security Groups

REACHABILITY

Reachability Analyzer

AWS NETWORK FIREWALL

Firewalls

Firewall policies

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Type here to search

Search for services, features, marketplace products, and docs [Alt+S]

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Security Groups (1/1) Info

Filter security groups search: sg-072cd048d7ddd647b Clear filters

Name Security group ID Security group name VPC ID Description Owner Inbound rules count Outbound rules count

EC2 Container Service - mycluster sg-072cd048d7ddd647b EC2ContainerService-... vpc-09b366386b926e329 ECS Allowed Ports 961424948557 1 Permission entry 1 Permission entry

sg-072cd048d7ddd647b - EC2 Container Service - mycluster - EcsSecurityGroup-1XR70EEF6IV4K

Details Inbound rules Outbound rules Tags

Details

Security group name EC2 Container Service - mycluster - EcsSecurityGroup-1XR70EEF6IV4K Security group ID sg-072cd048d7ddd647b Description ECS Allowed Ports VPC ID vpc-09b366386b926e329

Owner 961424948557 Inbound rules count 1 Permission entry Outbound rules count 1 Permission entry

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Search for services, features, marketplace products, and docs [Alt+S]

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Amazon ECS

Clusters mycluster Service: sample-app-service

https://us-east-2.console.aws.amazon.com/ecs/home?region=us-east-2#/clusters/mycluster/services/sample-app-service/details

aws Services

New ECS Experience

Tell us what you think

Amazon ECS

Clusters

Task Definitions

Account Settings

Amazon EKS

Clusters

Amazon ECR

Repositories

AWS Marketplace

Discover software

Subscriptions

Clusters

Service : sample-app-service

Update Delete

Cluster mycluster Status ACTIVE Task definition first-run-task-definition:1 Service type REPLICAS Launch type FARGATE Service role AWSRoleForECS Created By am:aws:iam:961424948557:root

Details Tasks Events Auto Scaling Deployments Metrics Tags Logs

Load Balancing

Load Balancer Name Container Name Container Port

No load balancers

Network Access

Allowed VPC vpc-09b366386b926e329 Allowed subnets subnet-03825d2ea631b48d0, subnet-0d896ddab7a7cefb Security groups sg-072cd048d7ddd647b Auto-assign public IP ENABLED

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Search for services, features, marketplace products, and docs [Alt+S]

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Amazon ECS

https://us-east-2.console.aws.amazon.com/ecs/home?region=us-east-2#/firstRun

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## Getting Started with Amazon Elastic Container Service (Amazon ECS) using Fargate

### Launch Status

We are creating resources for your service. This may take up to 10 minutes. When we're complete, you can view your service.

Back View service

### Additional features that you can add to your service after creation

#### Scale based on metrics

You can configure scaling rules based on CloudWatch metrics

Preparing service : 9 of 9 complete

#### ECS resource creation .....

Cluster mycluster  
Task definition first-run-task-definition1  
Service sample-app-service

complete ✓  
complete ✓  
complete ✓  
complete ✓  
complete ✓

#### Additional AWS service integrations .....

Log group /ecs/first-run-task-definition  
CloudFormation stack EC2ContainerService-mycluster  
VPC vpc-09b366386b926e329  
Subnet 1 subnet-03825d2ea6a31148d0  
Subnet 2 subnet-0d896ddab7a7cefeb  
Security group sg-072cd048d7dd647b

complete ✓  
complete ✓

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10:46 20-03-2021

Amazon ECS

https://us-east-2.console.aws.amazon.com/ecs/home?region=us-east-2#/firstRun

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## Getting Started with Amazon Elastic Container Service (Amazon ECS) using Fargate

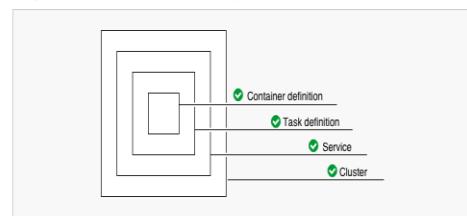
### Step 1: Container and Task

### Step 2: Service

### Step 3: Cluster

### Step 4: Review

#### Diagram of ECS objects and how they relate



#### Review

Review the configuration you've set up before creating your task definition, service, and cluster.

#### Task definition

Edit

Task definition name first-run-task-definition

Network mode awsvpc

Task execution role Create new

Container name sample-app

Image httpd:2.4

Memory 512

Port 80

Protocol HTTP

#### Service

Edit

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10:45 20-03-2021

Amazon ECS

https://us-east-2.console.aws.amazon.com/ecs/home?region=us-east-2#/firstRun

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## Getting Started with Amazon Elastic Container Service (Amazon ECS) using Fargate

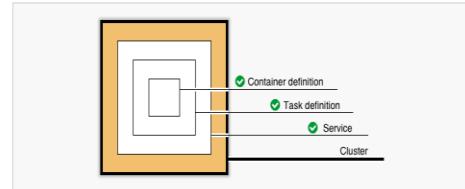
Step 1: Container and Task

Step 2: Service

**Step 3: Cluster**

Step 4: Review

### Diagram of ECS objects and how they relate



### Configure your cluster

The infrastructure in a Fargate cluster is fully managed by AWS. Your containers run without you managing and configuring individual Amazon EC2 instances.

To see key differences between Fargate and standard ECS clusters, see the [Amazon ECS documentation](#).

Cluster name: mycluster

Cluster names are unique per account per region. Up to 255 letters (uppercase and lowercase), numbers, and hyphens are allowed.

VPC ID: Automatically create new

Subnets: Automatically create new

\*Required

Cancel

Previous

Next

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## Getting Started with Amazon Elastic Container Service (Amazon ECS) using Fargate

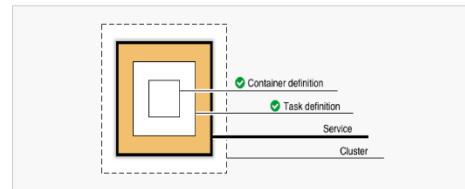
Step 1: Container and Task

Step 2: Service

Step 3: Cluster

Step 4: Review

### Diagram of ECS objects and how they relate



### Define your service

Edit

A service allows you to run and maintain a specified number (the "desired count") of simultaneous instances of a task definition in an ECS cluster.

Service name: sample-app-service

Number of desired tasks: 1

Security group: Automatically create new

A security group is created to allow all public traffic to your service only on the container port specified.

You can further configure security groups and network access outside of this wizard.

Load balancer type:

- None
- Application Load Balancer

\*Required

Cancel

Previous

Next

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Getting Started with Amazon Elastic Container Service (Amazon ECS) using Fargate

Step 1: Container and Task

Step 2: Service

Step 3: Cluster

Step 4: Review

Diagram of ECS objects and how they relate

Container definition

Choose an image for your container below to get started quickly or define the container image to use.

|  |   |
|--|---|
| <b>sample-app</b>  | <b>nginx</b>  |
| image : http2.4<br>memory : 0.5GB (512)<br>cpu : 0.25 vCPU (256) | image : nginx:latest<br>memory : 0.5GB (512)<br>cpu : 0.25 vCPU (256) |

|  |               |
|--|---------------|
| <b>tomcat-webserver</b>                                      | <b>custom</b> |
| image : tomcat<br>memory : 2GB (2048)<br>cpu : 1 vCPU (1024) | Configure     |
| image : --<br>memory : --<br>cpu : --                        |               |

Task definition

A task definition is a blueprint for your application, and describes one or more containers through attributes. Some attributes are

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Amazon ECS Sample App

Congratulations!

Your application is now running on a container in Amazon ECS.

Not secure | 18.191.147.18

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