

AWS Assignment Day 15 and 16

Manoj k

Question 1: Working with Lambda

Services

Amazon S3

Buckets

Access points

Batch Operations

Access analyzer for S3

Account settings for Block Public Access

Storage Lens

Dashboards

AWS Organizations settings

Feature spotlight

AWS Marketplace for S3

Amazon S3

Buckets (3)

Buckets are containers for data stored in S3. Learn more

Find buckets by name

Create bucket

Delete

Empty

Copy ARN

< 1 >

Name	Region	Access	Creation date
<input type="radio"/> elasticbeanstalk-us-east-2-245024669952	US East (Ohio) us-east-2	Objects can be public	November 10, 2020, 18:43:31 (UTC+05:30)
<input type="radio"/> mydestinationbucket3868	US East (Ohio) us-east-2	Bucket and objects not public	December 25, 2020, 08:50:51 (UTC+05:30)
<input type="radio"/> mysourcebucket3868	US East (Ohio) us-east-2	Bucket and objects not public	December 25, 2020, 08:50:20 (UTC+05:30)

Feedback

English (US)

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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
 - Analizers
 - Settings
- Credential report
- Organization activity
- Service control policies (SCPs)

Search IAM

AWS account ID:
245024665952

Policies > mypolicy

Summary

Delete policy

Policy ARN

arn:aws:iam::245024665952:policy/mypolicy

Description

Permissions

Policy usage

Policy versions

Access Advisor

Policy summary

{ } JSON

Edit policy

```
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:::mydestinationbucket3868/*"
20      ]
21    }
22  ]
23 }
```

Identity and Access Management (IAM)

Dashboard

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Identity providers

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Search IAM

AWS account ID:
245024665952

Create policy

Policy actions

Filter policies

Q my

 Showing 1 result

	Policy name	Type	Used as	Description
<input type="radio"/>	mypolicy	Customer managed	Permissions policy (1)	

aws

Services

Q

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Global

Support

Identity and Access Management (IAM)

Roles > myrole

Summary

Delete role

Dashboard

Access management

- Groups
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- Roles
- Policies
- Identity providers
- Account settings

Access reports

- Access analyzer
- Archive rules
- Analizers
- Settings

Credential report

Organization activity

Service control policies (SCPs)

Q

Search IAM

AWS account ID:

245024665952

Role ARN

am.aws.iam::245024665952:role/myrole

Role description

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

Instance Profile ARNs

Path

/

Creation time

2020-12-25 09:05 UTC+0530

Last activity

2020-12-25 10:22 UTC+0530 (Today)

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)

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Ohio

Support

AWS Lambda

Updated console (preview)

Learn more

Dashboard

Applications

Functions

Additional resources

- Code signing configurations
- Layers

Related AWS resources

- Step Functions state machines

Lambda > Functions

Functions (1)

Last fetched now

Actions

Create function

Q

Filter by tags and attributes or search by keyword

Function name	Description	Package type	Runtime	Code size	Last modified
mylamdafunction		Zip	Node.js 12.x	431 bytes	2 hours ago

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Support

mylamdafunction

function code info

ThrottleQualifiersActionsSelect a test eventTest

ActionsDeploy

FileEditFindViewGoToolsWindowTestDeploy

Environmentmylamdafunction - .index.jsindex.js

```
1 var AWS = require("aws-sdk");
2
3 exports.handler = (event, context, callback) => {
4
5   var s3 = new AWS.S3();
6   var sourceBucket = "mysourcebucket3868";
7   var destinationBucket = "mydestinationbucket3868";
8   var objectKey = event.Records[0].s3.object.key;
9   var copySource = encodeURI(sourceBucket + "/" + objectKey);
10   var copyParams = { Bucket: destinationBucket, CopySource: copySource, Key: objectKey };
11   s3.copyObject(copyParams, function(err, data) {
12     if (err) {
13       console.log(err, err.stack);
14     } else {
15       console.log("S3 object copy successful.");
16     }
17   });
18 };
```

1:1 JavaScript Spaces: 4

Runtime settings info

Edit

RuntimeNode.js 12.x

Handler infoindex.handler

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Support

mylamdafunction

ThrottleQualifiersActionsSelect a test eventTest

mylamdafunction

Layers(0)

S3

+ Add trigger

+ Add destination

S3 (1)

EnableDisableFix errorsDelete

The Lambda console no longer supports disabling S3 and CloudWatch Logs triggers. Delete these triggers to stop further actions.

Find triggers

1

Trigger

S3: mysourcebucket3868 (Enabled)

arn:aws:s3:::mysourcebucket3868

Details

Event type: ObjectCreated

Notification name: 98e0b929-ca61-468a-ae6b-aa25768a31de

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Successfully deleted objects

View details below.

Amazon S3

mysourcebucket3868

mysourcebucket3868

Objects

Properties

Permissions

Metrics

Management

Access points

Objects (1)

Objects are the fundamental entities stored in Amazon S3. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)

Find objects by prefix

Name

Type

Last modified

Size

Storage class

LIBRARY DATABASE.txt

txt

December 25, 2020, 10:22:37 (UTC+05:30)

4.9 KB

Standard

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Properties

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Objects are the fundamental entities stored in Amazon S3. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)

Find objects by prefix

Name

Type

Last modified

Size

Storage class

LIBRARY+DATABASE.txt

txt

December 25, 2020, 10:22:40 (UTC+05:30)

4.9 KB

Standard

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Question 2: Working with Elastic container service using fargate

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Support

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

sample-app

image : httpd:2.4

memory : 0.5GB (512)

cpu : 0.25 vCPU (256)

nginx

image : nginx:latest

memory : 0.5GB (512)

cpu : 0.25 vCPU (256)

tomcat-webserver

image : tomcat

memory : 2GB (2048)

cpu : 1 vCPU (1024)

custom

image : --

memory : --

cpu : --

Configure

Task definition

Edit

A task definition is a blueprint for your application, and describes one or more containers through attributes. Some attributes are configured at the task level but the majority of attributes are configured per container.

Task definition name

first-run-task-definition

Network mode

awsvpc

Task execution role

Create new

Compatibilities

FARGATE

Task memory

0.5GB (512)

Task CPU

0.25 vCPU (256)

*Required

Cancel

Next

Feedback

English (US)

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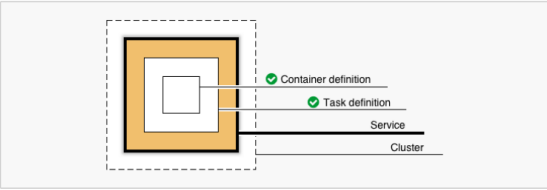
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Getting Started with Amazon Elastic Container Service (Amazon ECS) using Fargate

- 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

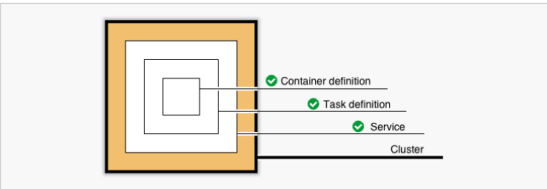
Previous

Next

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

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- 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

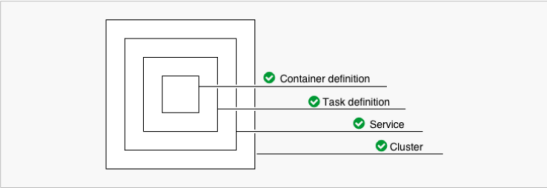
Previous

Next

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

- Step 1: Container and Task
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- 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

Task definition name

first-run-task-definition

Edit

Network mode

awsvpc

Task execution role

Create new

Container name

sample-app

Image

htpd:2.4

Memory

512

Port

80

Protocol

HTTP

- Amazon ECS
- Clusters
- Task Definitions
- Account Settings
- Amazon EKS
- Clusters
- Amazon ECR
- Repositories
- AWS Marketplace
- Discover software
- Subscriptions

Clusters

An Amazon ECS cluster is a regional grouping of one or more container instances on which you can run task requests. Each account receives a default cluster the first time you use the Amazon ECS service. Clusters may contain more than one Amazon EC2 instance type.

For more information, see the [ECS documentation](#).

Create Cluster

Get Started

View

list

card

view all

mycluster >

CloudWatch monitoring

Default Monitoring

FARGATE

1

Services

1

Running tasks

0

Pending tasks

EC2

0

Services

0

Running tasks

0

Pending tasks

No data

CPUUtilization

No data

MemoryUtilization

0

Container instances

aws

Services

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Support

Amazon ECS

Clusters

Task Definitions

Account Settings

Amazon EKS

Clusters

Amazon ECR

Repositories

AWS Marketplace

Discover software

Subscriptions

Clusters

mycluster

Cluster : mycluster

Update Cluster

Delete Cluster

Get a detailed view of the resources on your cluster.

Cluster ARN

am:aws:ecs:us-east-2:245024665952:cluster/mycluster

Status

ACTIVE

Registered container instances

0

Pending tasks count

0 Fargate, 0 EC2

Running tasks count

1 Fargate, 0 EC2

Active service count

1 Fargate, 0 EC2

Draining service count

0 Fargate, 0 EC2

Services

Tasks

ECS Instances

Metrics

Scheduled Tasks

Tags

Capacity Providers

Create

Update

Delete

Actions

Last updated on December 25, 2020 2:54:57 PM (0m ago)

Filter in this page

Launch type

ALL

Service type

ALL

< 1-1 >

Service Name

Status

Service type

Task Definition

Desired tasks

Running tasks

Launch type

Platform version

sample-app-service

ACTIVE

REPLICA

first-run-task-definitio...

1

1

FARGATE

LATEST(1.3.0)

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Support

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Task Definitions

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Amazon EKS

Clusters

Amazon ECR

Repositories

AWS Marketplace

Discover software

Subscriptions

Task : 6a894eee2beb4e8ba602d125300a30da

Run more like this

Stop

Details

Tags

Logs

Cluster

mycluster

Launch type

FARGATE

Platform version

1.3.0

Task definition

first-run-task-definition:1

Group

service:sample-app-service

Task role

None

Last status

RUNNING

Desired status

RUNNING

Created at

2020-12-25 13:34:28 +0530

Started at

2020-12-25 13:34:54 +0530

Network

Network mode

awsipc

ENI Id

eni-0d99e5069ec0d551e

Subnet Id

subnet-09d0f8eazb6256afb

Private IP

10.0.0.87

Public IP

3.140.186.115

Mac address

02:7a:4e:20:ee:ac

Containers

Last updated on December 25, 2020 2:56:16 PM (0m ago)

Name

Container Runtime I...

Status

Image

Image Digest

CPU Units

Hard/Soft memor...

Essential

Resource ID

sample-app

9f37473ce4557730cc...

RUNNING

httpd 2.4

256

~/512

true

f37a3dd3-037e-4f...

Feedback

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New EC2 Experience

Tell us what you think

EC2 Dashboard

Events

Tags

Limits

Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Capacity Reservations

Images

AMIs

Elastic Block Store

Volumes

Snapshots

Lifecycle Manager

Network & Security

Security Groups

Elastic IPs

Placement Groups

Key Pairs

Network Interfaces

eni-0d99e5069ec0d551e

Network interface ID

Network interface status

In-use

VPC ID

vpc-06eb6ac03560069e8

Owner

245024665952

Source/dest. check

True

IP addresses

Private IPv4 address

10.0.0.87

Public IPv4 address

3.140.186.115

Secondary private IPv4 addresses

-

MAC address

02:7a:4e:20:ee:ac

Instance details

Instance ID

-

Allocation ID

-

Network interface attachment

Attachment status

Attached

Interface type

interface

Subnet ID

subnet-09d0f8ea2b6256afb

Requester ID

975259786086

Private IPv4 DNS

ip-10-0-0-87.us-east-2.compute.internal

Public IPv4 DNS

ec2-3-140-186-115.us-east-2.compute.amazonaws.com

Association ID

-

Instance owner

743676366676

Attachment ID

eni-attach-086f201f73a108206

Description

arn:aws:ecs:us-east-2:245024665952:attachment/84d92287-2dcc-4a8d-80ce-7c57b96b25d1

Security groups

EC2ContainerService-mycluster-EcsSecurityGroup-1SDCZUJ0UDQ05

Availability Zone

us-east-2a

Requester-managed

True

Elastic Fabric Adapter

False

IPv6 addresses

-

Elastic IP address owner

amazon

Device index

1

Attachment time

Fri Dec 25 2020 13:34:32 GMT+0530 (India Standard Time)

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Amazon ECS Sample App

Congratulations!

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