

Creation of ECS Cluster using AWS CloudFormation

Amazon ECS supports creating clusters, task definitions, services, and task sets in AWS CloudFormation. The following examples demonstrate how to create resources with these templates using the AWS CLI. You can also create these resources using the AWS CloudFormation console.

YAML File :

Resources:

Cluster:

Type: AWS::ECS::Cluster

Properties:

ClusterName: demo-cluster

ExecutionRole:

Type: AWS::IAM::Role

Properties:

RoleName: newecsInstanceRole

AssumeRolePolicyDocument:

Statement:

- Effect: Allow

Principal:

Service: ecs-tasks.amazonaws.com

Action: 'sts:AssumeRole'

ContainerSecurityGroup:

Type: AWS::EC2::SecurityGroup

Properties:

GroupName: ContainerSecurityGroup

GroupDescription: Security group for http container

SecurityGroupIngress:

- IpProtocol: tcp

FromPort: 80

ToPort: 80

CidrIp: 0.0.0.0/0

TaskDefinition:

Type: AWS::ECS::TaskDefinition

Properties:

Family: deployment-example-task

Cpu: 256

Memory: 512

ExecutionRoleArn: !Ref ExecutionRole

ContainerDefinitions:

- Name: deployment-example-container

Image: nginx:1.17.7

PortMappings:

- ContainerPort: 80

RequiresCompatibilities:

- EC2

Service:

Type: AWS::ECS::Service

Properties:

ServiceName: deployment-example-service

Cluster: !Ref Cluster

TaskDefinition: !Ref TaskDefinition

DesiredCount: 1

LaunchType: EC2

Resources Screenshots

demo

Delete

Update

Stack actions ▼

Create stack ▼

Stack info

Events

Resources

Outputs

Parameters

Template

Change sets

Resources (5)

Q Search resources

| Logical ID ▲ | Physical ID ▼ | Type ▼ | Status ▼ | Status reason ▼ | Module ▼ |
|------------------------|--|-------------------------|-------------------|-----------------|----------|
| Cluster | demo-cluster ↗ | AWS::ECS::Cluster | ✔ CREATE_COMPLETE | - | - |
| ContainerSecurityGroup | ContainerSecurityGroup ↗ | AWS::EC2::SecurityGroup | ✔ CREATE_COMPLETE | - | - |
| ExecutionRole | newecsInstanceRole ↗ | AWS::IAM::Role | ✔ CREATE_COMPLETE | - | - |
| arn:aws:ecs:us-east- | | | | | |

| Logical ID | Physical ID | Type | Status | Status reason | Module |
|----------------|--|--------------------------|-----------------|---------------|--------|
| | nt-example-service | | | | |
| TaskDefinition | arn:aws:ecs:us-east-1:986041421187:task-definition/deployment-example-task:3 | AWS::ECS::TaskDefinition | CREATE_COMPLETE | | |

aws

Services

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EC2

Clusters

Task Definitions

Account Settings

Amazon EKS

Clusters

Amazon ECR

Repositories

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Subscriptions

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

Create Cluster

Get Started

View

list

card

view all

demo-cluster >

CloudWatch monitoring

Default Monitoring

FARGATE

0

Services

0

Running tasks

0

Pending tasks

EC2

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EC2

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Get a detailed view of the resources on your cluster.

Cluster ARN

am:aws:ecs:us-east-1:986041421187:cluster/demo-cluster

Status

ACTIVE

Registered container instances

0

Pending tasks count

0 Fargate, 0 EC2, 0 External

Running tasks count

0 Fargate, 0 EC2, 0 External

Active service count

0 Fargate, 1 EC2, 0 External

Draining service count

0 Fargate, 0 EC2, 0 External

Services

Tasks

ECS Instances

Metrics

Scheduled Tasks

Tags

Capacity Providers

Create

Update

Delete

Actions

Last updated on September 1, 2022 2:52:00 PM (0m ago)

Filter in this page

Launch type

ALL

Service type

ALL

< 1-1 >

| | Service Name | Status | Service ... | Task Def... | Desired ... | Running... | Launch ... | Platform... |
|--------------------------|----------------------------|--------|-------------|-------------|-------------|------------|------------|-------------|
| <input type="checkbox"/> | deployment-example-service | ACTIVE | REPLICA | deploym... | 1 | 0 | EC2 | -- |

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>

demo-cluster

>

Service: deployment-example-service

Service : deployment-example-service

Update

Delete

| | | | |
|-----------------|--------------------------------|---------------|---|
| Cluster | demo-cluster | Desired count | 1 |
| Status | ACTIVE | Pending count | 0 |
| Task definition | deployment-example-task:3 | Running count | 0 |
| Service type | REPLICA | | |
| Launch type | EC2 | | |
| Created By | arn:aws:iam::986041421187:root | | |

Details

Tasks

Events

Auto Scaling

Deployments

Metrics

Tags

Load Balancing

| Load Balancer Name | Container Name | Container Port |
|--------------------|----------------|----------------|
| No load balancers | | |