

Elastic Container Service – Sample-app template:-

The screenshot displays the AWS Management Console interface for the Elastic Container Service (ECS) in the 'ap-south-1' region. The 'Container definition' section is active, showing a list of templates. The 'sample-app' template is selected, displaying its configuration: image: httpd:2.4, memory: 0.5GB (512), and cpu: 0.25 vCPU (256). Other templates shown include 'nginx', 'tomcat-webserver', and 'custom'. Below this, the 'Task definition' section is visible, explaining that a task definition is a blueprint for an application. The 'Edit container' modal is open, showing the 'ENVIRONMENT' tab with the following settings: CPU units: 256, GPUs: (empty), Essential: checked, Entry point: sh, -c, Command: /bin/sh -c "echo '<html> <head> <title>Amazon ECS Sample App</title> <style>body {margin-top: 40px; ...', and Working directory: /usr/app. The modal includes 'Cancel' and 'Update' buttons.

Container definition

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

Container Definition	Image	Memory	CPU
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 : --

Task definition

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.

Edit container

ENVIRONMENT

CPU units: 256

GPUs:

Essential: ☒

Entry point: sh, -c

Command: /bin/sh -c "echo '<html> <head> <title>Amazon ECS Sample App</title> <style>body {margin-top: 40px; ..."

Working directory: /usr/app

* Required

Cancel Update

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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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Configure your cluster

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

sampleappcs

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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Memory 512

Port 80

Protocol HTTP

Service Edit

Service name sample-app-service

Number of desired tasks 1

Cluster Edit

Cluster name sampleappcs

VPC ID Automatically create new

Subnets Automatically create new

*Required Cancel Previous Create

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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

EC2 resource creation	complete
Cluster sampleappcs	complete
Task definition first-run-task-definition:1	complete
Service sample-app-service	complete
Additional AWS service integrations	complete
Log group /ecs/first-run-task-definition	complete
CloudFormation stack EC2ContainerService-sampleappcs	complete
VPC vpc-04c7b3fa0a93373c4	complete
Subnet 1 subnet-056b8e3e8ba08c2c0	complete
Subnet 2 subnet-0c5db7acb1848c73b	complete
Security group sg-0da458a38e7a7aae9	complete

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ap-south-1.console.aws.amazon.com/ecs/home?region=ap-south-1#/clusters/sampleappcs/services/...

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clusters

Definitions

Instance Settings

on ECR

Repositories

Marketplace

over software

scripts

Clusters > sampleappcs > Service: sample-app-service

Service : sample-app-service

Update Delete

Cluster sampleappcs

Status ACTIVE

Task definition first-run-task-definition:1

Service type REPLICA

Launch type FARGATE

Service role AWSServiceRoleForECS

Created By

arn:aws:iam::192095846711:root

Desired count 1

Pending count 0

Running count 1

Details

Tasks

Events

Auto Scaling

Deployments

Metrics

Tags

Logs

Load Balancing

Load Balancer Name	Container Name	Container Port
No load balancers		

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marketplace

over software

scripts

Status ACTIVE

Pending count 0

Running count 1

Task definition first-run-task-definition:1

Service type REPLICA

Launch type FARGATE

Service role AWSServiceRoleForECS

Created By

arn:aws:iam::192095846711:root

Details

Tasks

Events

Auto Scaling

Deployments

Metrics

Tags

Logs

Last updated on December 9, 2022 11:55:10 AM (0m ago)

Task status: Running Stopped

Filter in this page

< 1-1 > Page size 50

Task	Task Definit...	Last status ...	Desired sta...	Group	Launch typ...	Platform ve...
6665b25d6f...	first-run-task...	RUNNING	RUNNING	service:sam...	FARGATE	1.4.0

Feedback

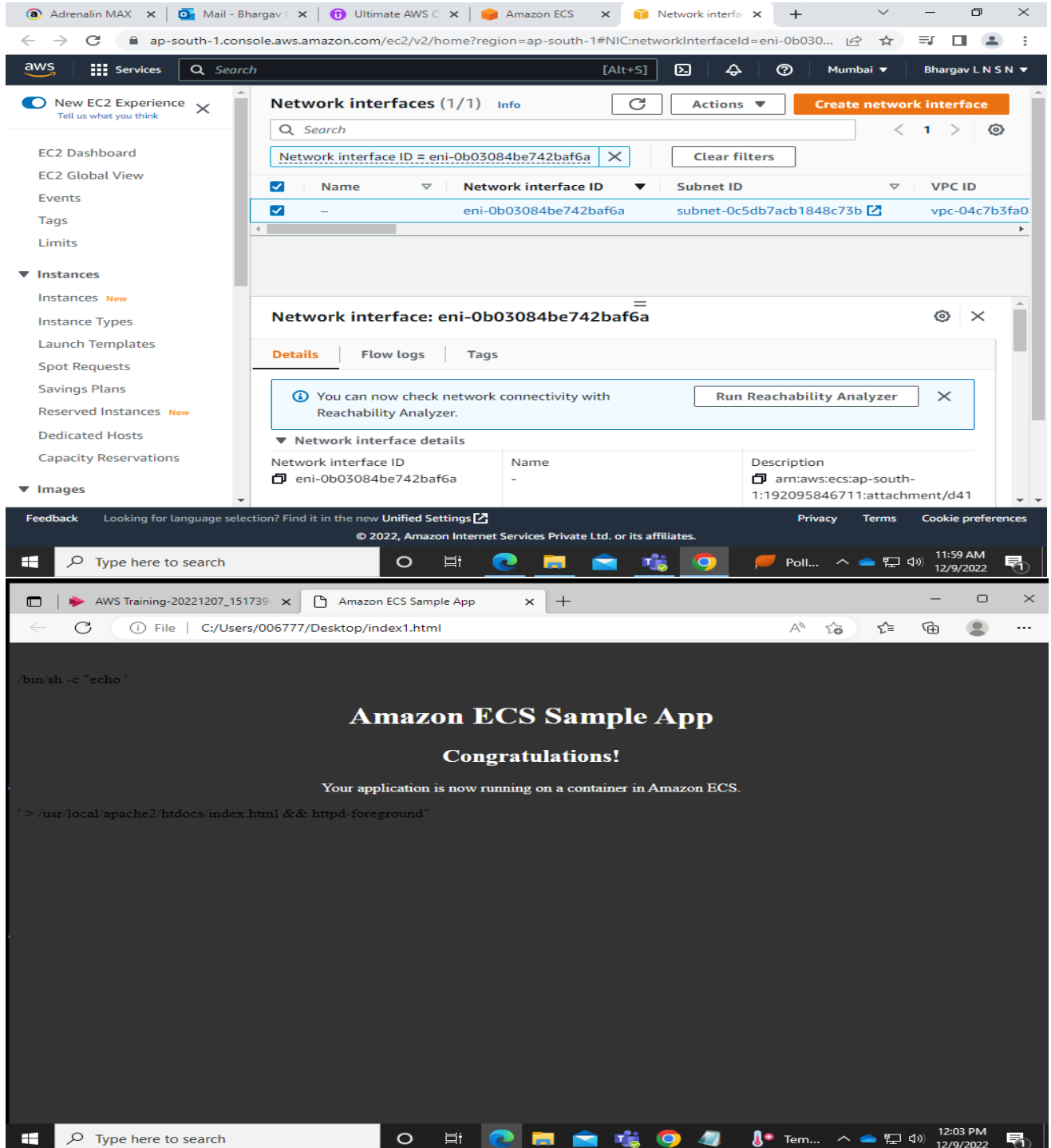
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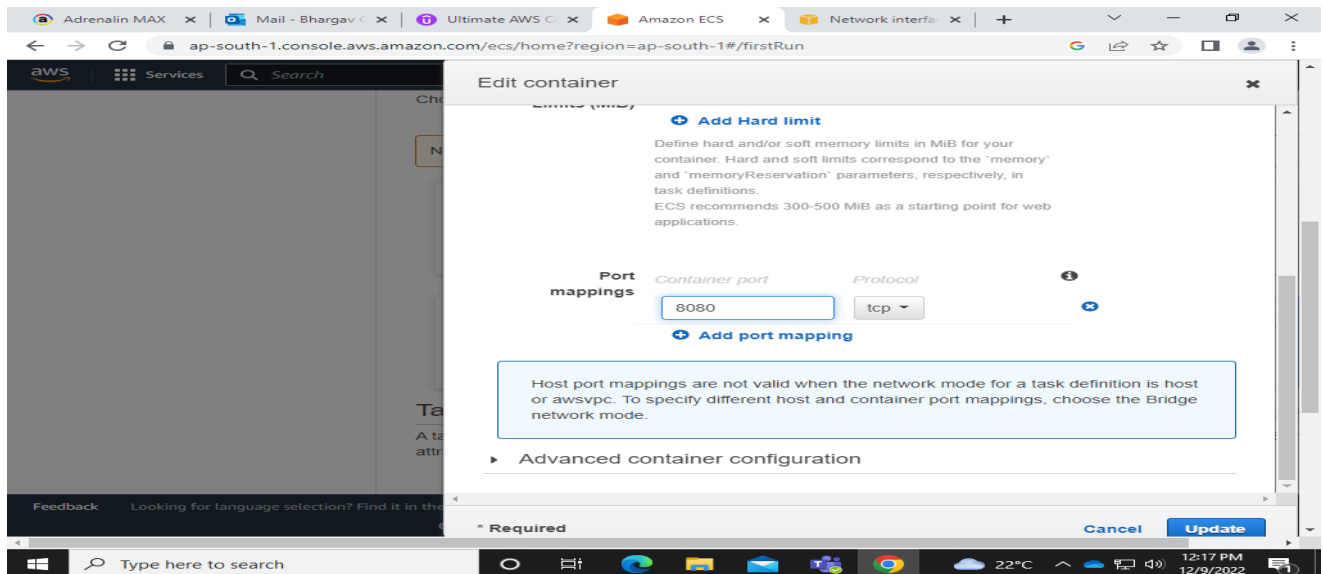
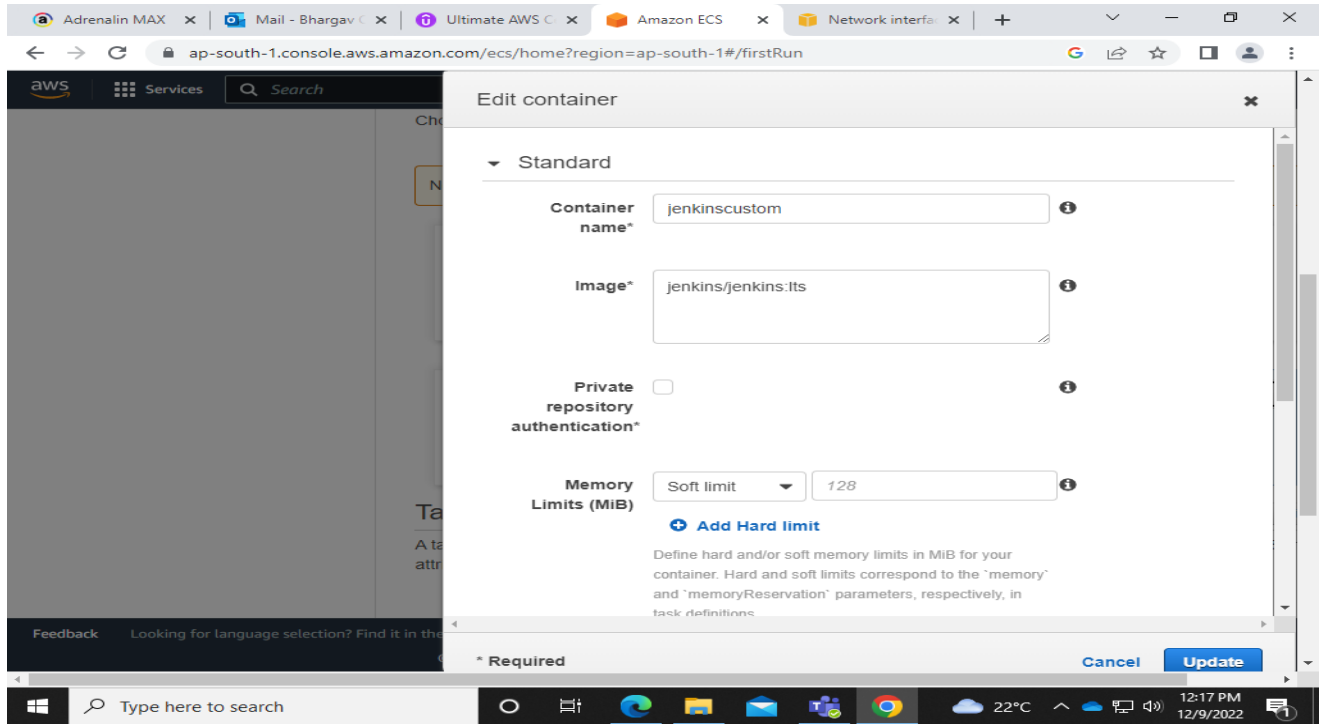
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JENKINS_CUSTOM SETUP :-



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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

Number of desired tasks

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

Task definition Edit

Task definition name

Network mode

Task execution role

Container name

Image

Memory

Port

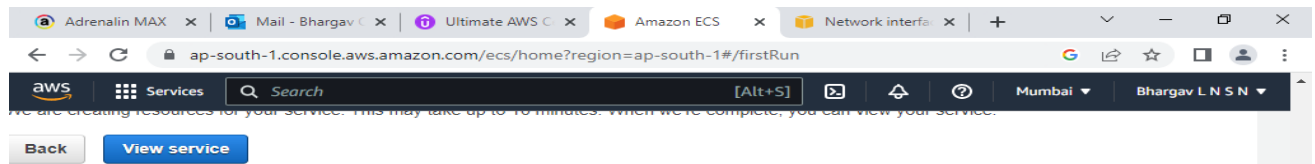
Protocol

Service Edit

Service name

Number of desired tasks

Cluster



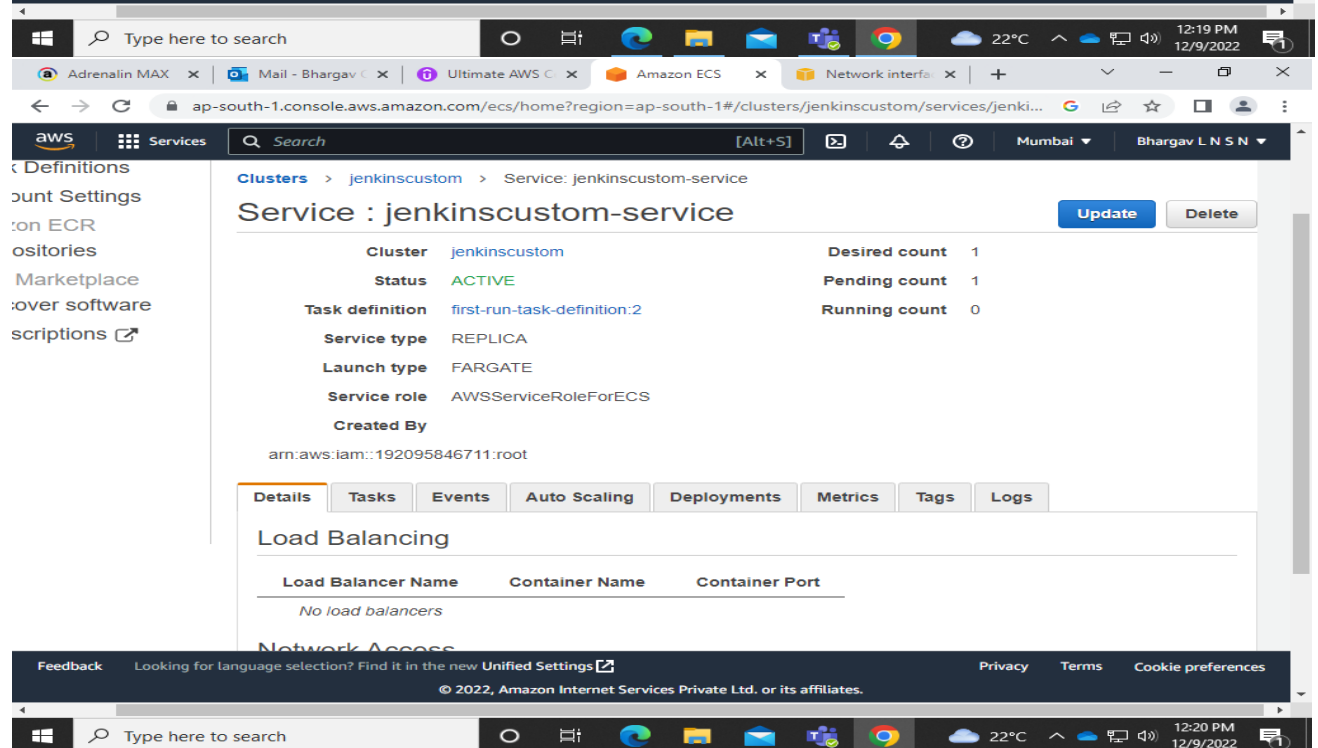
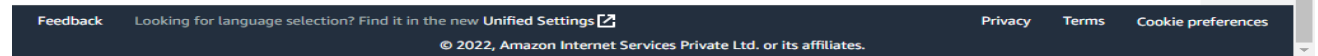
Additional features that you can add to your service after creation

Scale based on metrics

You can configure scaling rules based on CloudWatch metrics

Preparing service : 9 of 9 complete

ECS resource creation		complete	✓
Cluster	jenkinscustom	complete	✓
Task definition	first-run-task-definition:2	complete	✓
Service	jenkinscustom-service	complete	✓
Additional AWS service integrations		complete	✓
Log group	The log group [/ecs/first-run-task-definition] already exists	complete	✓
CloudFormation stack	EC2ContainerService-jenkinscustom	complete	✓
VPC	vpc-0ce48a711b905acd0	complete	✓
Subnet 1	subnet-0a43a7d0d870978b5	complete	✓
Subnet 2	subnet-01594a32542f00f47	complete	✓
Security group	sg-02b2bd12a586485e2	complete	✓



ap-south-1.console.aws.amazon.com/ecs/home?region=ap-south-1#/firstRun

Back View service

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

Additional features that you can add to your service after creation

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Preparing service : 9 of 9 complete

ECS resource creation		complete	✓
Cluster	jenkinscustom	complete	✓
Task definition	first-run-task-definition:2	complete	✓
Service	jenkinscustom-service	complete	✓
Additional AWS service integrations		complete	✓
Log group	The log group [/ecs/first-run-task-definition] already exists	complete	✓
CloudFormation stack	EC2ContainerService-jenkinscustom	complete	✓
VPC	vpc-0ce48a711b905acd0	complete	✓
Subnet 1	subnet-0a43a7d0d870978b5	complete	✓
Subnet 2	subnet-01594a32542f00f47	complete	✓
Security group	sg-02b2bd12a586485e2	complete	✓

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ap-south-1.console.aws.amazon.com/ecs/home?region=ap-south-1#/clusters/jenkinscustom/services/jenki...

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Definitions
Account Settings
Amazon ECR
Repositories
Marketplace
Overview software
Scripts

Service : jenkinscustom-service

Update Delete

Cluster	jenkinscustom	Desired count	1
Status	ACTIVE	Pending count	1
Task definition	first-run-task-definition:2	Running count	0
Service type	REPLICA		
Launch type	FARGATE		
Service role	AWSServiceRoleForECS		
Created By	arn:aws:iam::192095846711:root		

Details Tasks Events Auto Scaling Deployments Metrics Tags Logs

Load Balancing

Load Balancer Name	Container Name	Container Port
No load balancers		

Network Access

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ap-south-1.console.aws.amazon.com/ecs/home?region=ap-south-1#/clusters/jenkinscustom/tasks

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Cluster ARN: am:aws:ecs:ap-south-1:192095846711:cluster/jenkinscustom
Status: ACTIVE

Registered container instances: 0
Pending tasks count: 0 Fargate, 0 EC2, 0 External
Running tasks count: 1 Fargate, 0 EC2, 0 External
Active service count: 1 Fargate, 0 EC2, 0 External
Draining service count: 0 Fargate, 0 EC2, 0 External

Services Tasks ECS Instances Metrics Scheduled Tasks Tags Capacity Providers

Run new Task Stop Stop All Actions Last updated on December 9, 2022 12:20:17 PM (0m ago)

Desired task status: Running Stopped

Filter in this page Launch type ALL

	Task	Task d...	Contai...	Last st...	Desire...	Started...	Started...	Group ...	Launch...	Pl...
<input type="checkbox"/>	2e7311d...	first-run...	--	RUNNING	RUNNING	2022-12...	ecs-svc/...	service:j...	FARGATE	1.4

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ap-south-1.console.aws.amazon.com/ecs/home?region=ap-south-1#/clusters/jenkinscustom/tasks/2e7311d...

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Details Tags Logs

Cluster: jenkinscustom
Launch type: FARGATE
Platform version: 1.4.0
Task definition: first-run-task-definition:2
Group: service:jenkinscustom-service
Task role: None
Last status: RUNNING
Desired status: RUNNING
Created at: 2022-12-09 12:19:50 +0530
Started at: 2022-12-09 12:20:17 +0530

Network

Network mode: awsvpc
ENI Id: eni-0355ff5f7144e24d2
Subnet Id: subnet-0a43a7d0d870978b5

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ap-south-1.console.aws.amazon.com/ec2/v2/home?region=ap-south-1#NIC:v=3:sort=desc:networkInterfaceId

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Instances
Instances New
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances New
Dedicated Hosts
Capacity Reservations

Images

Network interfaces (1/1) Info

Create network interface

Name	Network interface ID	Subnet ID	VPC ID
-	eni-0355ff5f7144e24d2	subnet-0a43a7d0d870978b5	vpc-0ce48a711

Network interface: eni-0355ff5f7144e24d2

Private IPv4 address 10.0.0.200	Private IPv4 DNS ip-10-0-0-200.ap-south-1.compute.internal	Elastic Fabric Adapter False
Public IPv4 address 52.66.161.97	Public IPv4 DNS ec2-52-66-161-97.ap-south-1.compute.amazonaws.com	IPv6 addresses -
Secondary private IPv4 addresses -	Association ID -	Elastic IP address owner amazon

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ap-south-1.console.aws.amazon.com/ecs/home?region=ap-south-1#/clusters/jenkinscustom/tasks/2e7311d1c6e64db2b8c58b3207d015b8

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Tasks

Definitions
Cluster Settings
Amazon ECR
Repositories
Marketplace
Overview software
Scripts

Clusters > jenkinscustom > Task: 2e7311d1c6e64db2b8c58b3207d015b8

Task : 2e7311d1c6e64db2b8c58b3207d015b8

Run more like this Stop

Details Tags Logs

Last updated on December 9, 2022 12:26:10 PM (0m ago)

Filter logs

Timestamp (UTC+00:00)	Message
2022-12-09 12:21:09	*****
2022-12-09 12:21:09	*****
2022-12-09 12:21:09	Jenkins initial setup is required. An admin user has been created and a password...
2022-12-09 12:21:09	Please use the following password to proceed to installation:
2022-12-09 12:21:09	ace22b1e99ec4f6f9c0b25112c4258f4
2022-12-09 12:21:09	This may also be found at: /var/jenkins_home/secrets/initialAdminPassword
2022-12-09 12:21:09	*****

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