







◀ DevOps Lifecycle DevOps Roadmap

Docker Tutorial Kubernetes Tutorials Amazon Web Services [AWS] Tutorial AZURE Tutorials

GCP Tutorials

Content Improvement Event

Share Your Experiences

How To Setup Amazon Web Service (AWS) ECS?

Amazon Web Services (AWS) Tutorial

How To Close An (Amazon Web Service) AWS Account?

Amazon Web Services **Budget Setup**

Amazon Web Services

- Cost and Usage Report

Amazon Web Services (AWS) - Free Tier Account Set up

How To Setup Amazon Web Service (AWS) ECS?

Last Updated: 23 Apr, 2024



Amazon ECS is a popular Cloud Computing service that is used for more efficient cloud-based container management. Amazon ECS makes it easier to build apps without being limited by physical hardware resources. In this article, we will guide you through setting up and running the ECS service and show you how it takes advantage of scalability and efficiency.

Table of Content

- What Is Amazon ECS?
- How To Setup Amazon ECS?
- How Do I Step Up ECS On AWS: A Step-By-Step Guide
- AWS ECS CLI Commands
- Conclusion
- Amazon ECS FAOs

Introduction to
Amazon Web Services

What Is Amazon ECS?

Amazon Elastic Container Service (<u>Amazon ECS</u>) is a cloud-based container <u>orchestration service</u> provided by <u>Amazon Web Services (AWS)</u>. It facilitates in simplifying the deployment and management of containerized applications. It allows users to seamlessly run and scale their applications without having any complexities of traditional infrastructure.

ECS comes up with supporting <u>Docker containers</u> facilitating an efficient and flexible utilization of computing resources in the AWS cloud. This ECS service allows the users to focus completely on developing and running applications without worrying about the underlying infrastructure. It makes containerized application deployment a seamless and scalable experience.

How To Setup Amazon ECS?

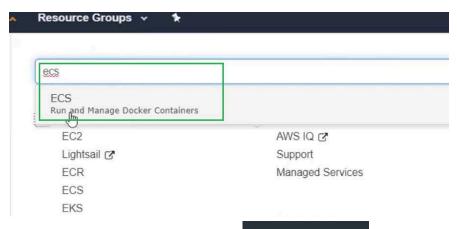
Setting up the Amazon ECS is a optimized process for improving the user's efficiency in managing the containers in the cloud. It acts as a main component in AWS facilitating the deployment of applications without having complex Skip to content structure.

AWS will manages availability of underlying infrastructure making the user's management easy. The following section guides you in setting up of Amazon ECS.

How Do I Step Up ECS On AWS : A Step-By-Step Guide

Step 1: Login In To AWS Account

- Firstly navigate to AWS console login and login into their AWS account with your credentials.
- Search for the <u>ECS</u> in the search Box from the home page.
- Then click on Amazon ECS service to redirect to that service page.



Step 2: Create A Cluster

- After landing on Amazon ECS service, You can see two options as shown in the screenshot.
- Among those buttons, Click on the Get Started Button.



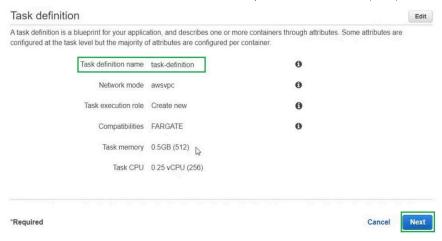
Step 3: Select Container Type

- Now you will find different types of containers presenting here.
- Click on the Sample-App container category & the next window will be processed automatically.



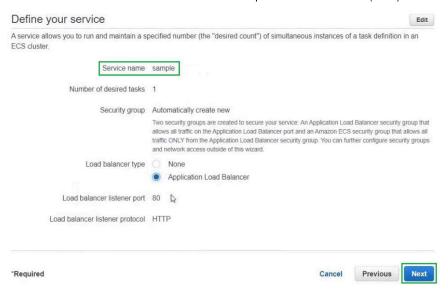
Step 4: Configuring Task Definition

- Now, the Task Definition window will open. The default name will already be provided there.
- Users can rename the default name by clicking on the Edit option in the corner. But users should only make changes to the Name field.
- All other information should be complete and present there. Otherwise, It will raise some errors while creating Amazon ECS.
- After reviewing it click on the Next button.



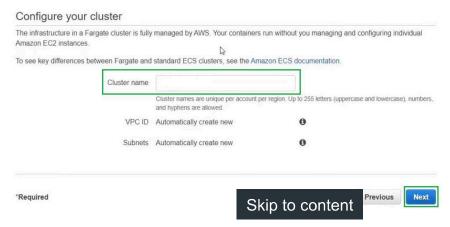
Step 5: Define Service Parameters

- In the next window, users will get the fields for defining the Service. There will be the default name of the service present.
- If needed, users can change the default name by clicking on the **Edit button**. But users should not make any changes to the other fields.
- After that, users click on the **Next button** & move ahead.



Step 6: Name Your Cluster

- At the end, users have to provide the name of the Cluster.
- After providing the name, click on the Next
 button to finish the task.



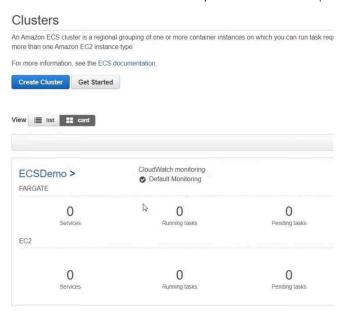
Step 7: Wait For Completion

The process of completion will take some time.
 You need to wait till the process is completed.



Step 8: Verifying Cluster Creation

- After completion of the process, it will redirect the Cluster Home page from where the journey started.
- Users will find their newly created ECS cluster is now present.



Hence, we have successfully set up the ECS cluster in Amazon Web Service.

AWS ECS CLI Commands

AWS ECS CLI facilitates in streamlining the ECS Cluster Management. It helps the users to deploy, scale and monitoring the containerized applications efficiently. The commands with arguments such as 'up' for resource provisioning and 'logs' helps in real time log retrivalling. ECS CLI simplifies the docker container orchestration on AWS ECS with integrating with Docker Compose enhances in seamless deployment of multi-container applications. AWS ECS CLI | Skip to content |

convenient development experience. The following are some of the common needed ECS CLI commands with effective explaination.

• ecs-cli configure profile:

This command is useful in creating and updating the profiles of ECS CLI. This profiles store the configuration settings such as AWS access key, secret key and default region.

Example

```
ecs-cli configure profile --profile-name
myprofile --access-key <access-key> --
secret-key <secret-key> --region <region>
```

• ecs-cli up

It useful for creating and updating the ECS Resources that are defined in the ECS CLI Project. This command provisions the ECS clusters, services and the task definitions based on the configuration specified in the ECS CLI Project.

Example

ecs-cli up --capability-iam --keypair
<keypair-name>

• ecs-cli compose up

It used in creating and updating ECS services and task definitions specially for the projects that uses the Docker Compose files.

Example

ecs-cli compose up

• ecs-cli ps

It lists the ECS container instances that are running in the specified ECS Cluster. It facilitates with providing the information like Instance ID, ARN, status and running tasks.

Example

ecs-cli ps --cluster mycluster

• ecs-cli service list

This command helps in listing the ECS services that are running in the specified ECS cluster. It facilitates with showing the details such as service name, desired count, running count and deployment status.

Example

```
ecs-cli service list --cluster mycluster
```

• ecs-cli logs

This command helps in retrieving the logs from the specified ECS cluster for a particular service. It supports in streaming the logs in real-time or fetching logs for a specific range of time.

Example

• ecs-cli compose service scale

This commands helps in scaling the number of containers (tasks) associated with a particular service that defines the Docker compose file.

Example

ecs-cli compose service scale 3

• ecs-cli compose service ps

This command helps in listing the tasks that are associated wit the defined service in the Docker compose file. It supports with show casing the details such as task ID, health status and running containers with task.

Example

ecs-cli compose service ps

• ecs-cli down

This command helps in deleting the ECS resources that are provisioned by the ECS CLI project. It removes the ECS clusters, services task definitions and other related resources.

Example

ecs-cli down --force

• ecs-cli configure logging

This command helps in configuring the logging for the ECS CLI. It faciliates in specifying the logging options such as log driver and options for logging behaviour.

Example

```
ecs-cli configure logging --log-driver
awslogs --region <region> --awslogs-group
<log-group-name>
```

People Also Ask

Introduction to AWS ECS

How to Create AWS EC2 Instance?

How To Install AWS CLI?

How To Configure Jenkins in AWS?

Conclusion

In conclusion, In this article we went on discussing the utilization of Amazon ECS it container orchestration service functionality. we guided on setting up Amazon ECS effectively detailing about step by step. ECS helps users in streamlining their application's deployment and maintenance seamlessly. Try on implementing the setup and deploying your applications in Amazon ECS for better understanding. Happy Containerizing!

Amazon ECS – FAQs

How Do I Create An ECS In AWS?

Firstly navigate to <u>AWS console</u>, login with your credentials, search for ECS and Clicking on the ECS Service you can create an ECS service.

What Is ECS Setup?

ECS is a Container container orchestrating cloud-based service from AWS Cloud. Its setup involves with configuring the Amazon ECS to facilitate the deployment and management of containerized applications.

How Do I Setup An ECS Task?

By defining the task definition and specifying the container configurations and resource requirementsyou can set up the ECS Task.

How Do I Deploy AWS ECS?

Deploying an AWS ECS involves creating a cluster, defining a tasks with requirements and launching a service to run the specified tasks. For this AWS itself takecare about underlying infrastructure for this ECS service.

What Is Amazon ECS Used For?

Amazon ECS is used for orchestration and management of <u>Docker</u> containers in the AWS cloud. It facilitates in simplifying the deployment and scalability of containerized applications. It allows users to focus on application development rather than infrastructure management.

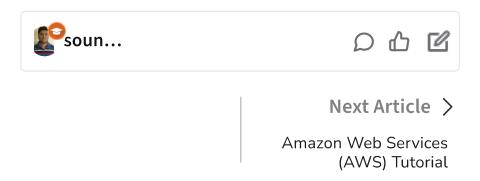
Three 90 Challenge is back on popular demand! After processing refunds worth INR 1CR+, we are back with the offer if you missed it the first time. Get 90% course fee refund in 90 days. Avail now!

Are you looking to become an AWS Expert? Enroll in our AWS Solutions Architect Certification Training

Program on GeeksforGeeks and take advantage of our Three 90 Challenge: Get a whooping 90% refund on course completion within 90 Days.

Perfect for students and working professionals, this live course covers everything from foundational

concepts to advanced AWS services, preparing you for the certification exam. With real-time training and hands-on projects, you'll gain the skills to design and deploy scalable applications on AWS.



Similar Reads

Difference Between AWS (Amazon Web Services)...

While both AWS ECS and Fargate play in the container orchestration field, their approaches diverg...

(8 min read

Deploy Java Microservices on Amazon ECS using...

In recent, Microservices architecture has gained huge popularity. It provides an effective way to develop an...

() 10 min read

Introduction to Amazon Elastic Container Service...

Amazon Elastic Container Service (ECS), also known as Amazon EC2 Container Service, is a managed...

(8 min read

How To Setup AWS Xray Tracing Setup Or Django...

AWS X-Ray provides powerful tracing capabilities, allowing you to gain insights into your application's...

(5 min read

How to Push Docker Image to AWS ECS Fargate...

ECS helps to manage containers and this service is provided by AWS, it allows users to easily manage...

(8 min read

How to Use AWS ECS to Deploy and Manage...

Containers can be deployed for applications on the AWS cloud platform. AWS has a special application...

(4 min read

AWS ECS VS EKS

Amazon Web Services (AWS) offers mainly two container orchestration services, Elastic Container...

(8 min read

What Is AWS Keyspaces? How To Setup AWS...

AWS Keyspaces is a fully managed, scalable, and highly available NoSQL database service configured ...

(5 min read

Amazon Web Services - Receive Customized...

Sometimes users need to receive an email response with a custom notification for a specific AWS service...

(2 min read

Amazon Web Service (AWS) IAM Role VS Group

Amazon IAM Service is one of the most crucial components in the AWS security architecture. Here in...

(5 min read

Article Tags:

Amazon Web Services

DevOps

aws-ecs



Ocorporate & Communications Address:- A143, 9th Floor, Sovereign Corporate Tower,
Sector- 136, Noida, Uttar Pradesh (201305)
Registered Address:- K 061, Tower K,
Gulshan Vivante Apartment, Sector 137,
Noida, Gautam Buddh Nagar, Uttar
Pradesh, 201305





Google Play









Company About Us Legal Careers In Media Contact Us Advertise with us GFG Corporate Solution Placement Training Program

- **Explore** Job-A-Thon Hiring Challenge Hack-A-Thon GfG Weekly Contest Offline Classes (Delhi/NCR) DSA in JAVA/C++ Master System Design Master CP GeeksforGeeks Videos Geeks Community
- Languages
 Python
 Java
 C++
 PHP
 GoLang
 SQL
 R Language
 Android Tutorial
- DSA
 Data Structures
 Algorithms
 DSA for
 Beginners
 Basic DSA
 Problems
 DSA Roadmap
 DSA Interview
 Questions
 Competitive
 Programming
- **Data Science** & ML Data Science With Python Data Science For Beginner Machine Learning Tutorial ML Maths Data Visualisation **Tutorial** Pandas Tutorial NumPy Tutorial **NLP Tutorial** Deep Learning Tutorial

Web **Technologies** HTML CSS JavaScript TypeScript ReactJS NextJS NodeJs Bootstrap Tailwind CSS

Python Tutorial

Computer
Science
GATE CS Notes
Skip to content

DevOps
Git
AWS
Docker

System

Design

High Level

Design

School Subjects Mathematics

Physics

Accountancy
Business Studies
Economics

How To Setup Amazon Web Service (AWS) ECS? - GeeksforGeeks

How To	o Setup Amazon Web Se	ervice (AWS) ECS? - Gee	eksforGeeks		
Python	Operating	Kubernetes	Low Level	Chemistry	Management
Programming	Systems	Azure	Design	Biology	HR Management
Examples	Computer	GCP	UML Diagrams	Social Science	Finance
Django Tutorial	Network	DevOps	Interview Guide	English	Income Tax
Python Projects	Database	Roadmap	Design Patterns	Grammar	
Python Tkinter	Management		OOAD		
Web Scraping	System		System Design		
OpenCV Tutorial	Software		Bootcamp		
Python	Engineering		Interview		
Interview	Digital Logic		Questions		
Question	Design				
	Engineering				
	Maths				
Databases	Preparation	Competitive	More	Free Online	Write & Earn
SQL	Corner	Exams	Tutorials	Tools	Write an Article
MYSQL	Company-Wise	JEE Advanced	Software	Typing Test	Improve an
PostgreSQL	Recruitment	UGC NET	Development	Image Editor	Article
PL/SOL	Duo oo oo	LIDCC	Coftware Testing	Cada Farmanthara	Pick Topics to

& Earn Article an Pick Topics to PL/SQL Code Formatters UPSC Software Testing Process MongoDB Write SSC CGL Product Code Converters Resume Share your Templates Management SBI PO Currency Experiences Aptitude SBI Clerk Project Converter Internships Preparation IBPS PO Random Management Puzzles IBPS Clerk Linux Number Generator Company-Wise Excel Preparation All Cheat Sheets Random Companies Recent Articles Password Colleges Generator

@GeeksforGeeks, Sanchhaya Education Private Limited, All rights reserved