Flask Calculator

Create a calculator application

Build & Deploy

Start minikube and enable ingress:

minikube start

minikube addons enable ingress

Build image inside Minikube

use minikube docker daemon

eval $(minikube docker-env)

docker build -t calc-app:latest .

```
ubuntu@ip-172-31-15-140:~/Container-Orchestration-Practice-Tasks/Flask Calculator$ minikube addons enable ingress
💡  ingress is an addon maintained by Kubernetes. For any concerns contact minikube on GitHub.
You can view the list of minikube maintainers at: https://github.com/kubernetes/minikube/blob/master/OWNERS
    ▪ Using image registry.k8s.io/ingress-nginx/controller:v1.13.2
    ▪ Using image registry.k8s.io/ingress-nginx/kube-webhook-certgen:v1.6.2
    ▪ Using image registry.k8s.io/ingress-nginx/kube-webhook-certgen:v1.6.2
🔎  Verifying ingress addon...
🌟  The 'ingress' addon is enabled
ubuntu@ip-172-31-15-140:~/Container-Orchestration-Practice-Tasks/Flask Calculator$ eval $(minikube docker-env)
ubuntu@ip-172-31-15-140:~/Container-Orchestration-Practice-Tasks/Flask Calculator$ docker build -t calc-app:latest .
DEPRECATED: The legacy builder is deprecated and will be removed in a future release.
            Install the buildx component to build images with BuildKit:
            https://docs.docker.com/go/buildx/

Sending build context to Docker daemon  16.38kB
Step 1/10 : FROM python:3.11-slim
3.11-slim: Pulling from library/python
0e4bc2bd6656: Pulling fs layer
22b63e76fde1: Pulling fs layer
b3dd773c3296: Pulling fs layer
1771569cc129: Pulling fs layer
1771569cc129: Waiting
22b63e76fde1: Verifying Checksum
22b63e76fde1: Download complete
b3dd773c3296: Verifying Checksum
```

Apply k8s manifests (from the `k8s/` folder)

kubectl apply -f k8s/calc-configmap.yaml

kubectl apply -f k8s/calc-pvc.yaml

kubectl apply -f k8s/calc-deployment.yaml

kubectl apply -f k8s/calc-service.yaml

kubectl apply -f k8s/calc-ingress.yaml

```
ubuntu@ip-172-31-15-140:~/Container-Orchestration-Practice-Tasks/Flask Calculator$ ls
Dockerfile  app.py  calc-configmap.yaml  calc-deployment.yaml  calc-ingress.yaml  calc-pvc.yaml  calc-service.yaml  requirements.txt
ubuntu@ip-172-31-15-140:~/Container-Orchestration-Practice-Tasks/Flask Calculator$ kubectl apply -f calc-configmap.yaml
configmap/calc-config created
ubuntu@ip-172-31-15-140:~/Container-Orchestration-Practice-Tasks/Flask Calculator$ kubectl apply -f calc-pvc.yaml
persistentvolumeclaim/calc-data-pvc created
ubuntu@ip-172-31-15-140:~/Container-Orchestration-Practice-Tasks/Flask Calculator$ kubectl apply -f calc-deployment.yaml
deployment.apps/calc-app created
ubuntu@ip-172-31-15-140:~/Container-Orchestration-Practice-Tasks/Flask Calculator$ kubectl apply -f calc-service.yaml
service/calc-service created
ubuntu@ip-172-31-15-140:~/Container-Orchestration-Practice-Tasks/Flask Calculator$ kubectl apply -f calc-ingress.yaml
ingress.networking.k8s.io/calc-ingress created
ubuntu@ip-172-31-15-140:~/Container-Orchestration-Practice-Tasks/Flask Calculator$
```

Check resources

kubectl get pods
kubectl get svc
kubectl get pvc
kubectl get ingress

```
ubuntu@ip-172-31-15-140:~/Container-Orchestration-Practice-Tasks/Flask Calculator$ kubectl get pods
NAME                                READY   STATUS             RESTARTS      AGE
calc-app-56655bfd88-l7d58           1/1     Running            0             42s
calc-app-56655bfd88-tq452           1/1     Running            0             27s
cart-service-5888d8c78-l8rwz        1/1     Running            2 (25h ago)   40h
```

```
ubuntu@ip-172-31-15-140:~/Container-Orchestration-Practice-Tasks/Flask Calculator$ kubectl get svc
NAME                TYPE        CLUSTER-IP       EXTERNAL-IP   PORT(S)     AGE
calc-service        ClusterIP   10.98.99.76      <none>        80/TCP      2d14h
cart-service        ClusterIP   10.99.82.126     <none>        3003/TCP    41h
```

```
ubuntu@ip-172-31-15-140:~/Container-Orchestration-Practice-Tasks/Flask Calculator$ kubectl get pvc
NAME           STATUS   VOLUME                                     CAPACITY   ACCESS MODES   STORAGECLASS   VOLUMEATTRIBUTESCLASS   AGE
calc-data-pvc  Bound    pvc-a8958e00-8502-4c7b-ad69-e978b5d0385c   500Mi      RWO            standard       <unset>                 2d14h
mongo-pvc      Bound    pvc-82adb282-55a2-441c-b083-cface1c0e3bb   1Gi        RWO            standard       <unset>                 2d19h
ubuntu@ip-172-31-15-140:~/Container-Orchestration-Practice-Tasks/Flask Calculator$ kubectl get ingress
NAME                  CLASS   HOSTS                                                  ADDRESS        PORTS   AGE
calc-ingress          nginx   calc.local.com                                         192.168.49.2   80      2d14h
ecommerce-alb-ingress alb     *                                                                     80      40h
microservices-ingress nginx   service1.local.com,service2.local.com,service3.local.com   192.168.49.2   80      2d23h
travel-ingress        nginx   memories.local.com                                     192.168.49.2   80      2d19h
ubuntu@ip-172-31-15-140:~/Container-Orchestration-Practice-Tasks/Flask Calculator$
```

# Get Minikube IP
MINIKUBE_IP=$(minikube ip)

Add to /etc/hosts
echo "$MINIKUBE_IP calc.local.com" | sudo tee -a /etc/hosts

```
ubuntu@ip-172-31-15-140:~/Container-Orchestration-Practice-Tasks/Flask Calculator$ MINIKUBE_IP=$(minikube ip)
ubuntu@ip-172-31-15-140:~/Container-Orchestration-Practice-Tasks/Flask Calculator$ echo "$MINIKUBE_IP calc.local.com" | sudo tee -a /etc/hosts
192.168.49.2 calc.local.com
```

Testing

curl -X POST http://calc.local.com/calculate \
  -H "Content-Type: application/json" \
  -d '{"a":12,"b":4,"op":"/"}'

- Get history:

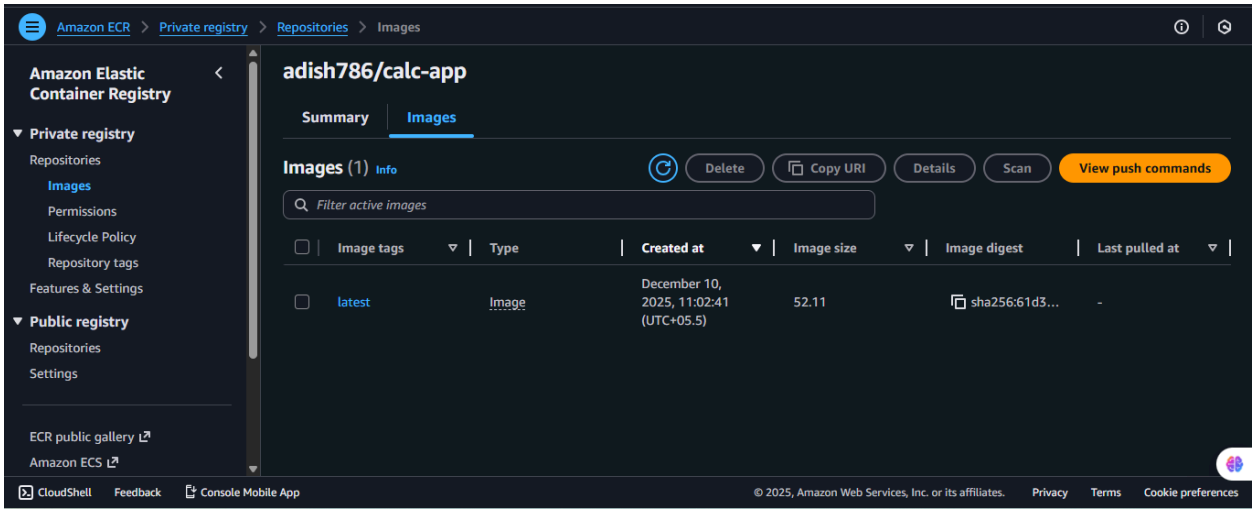
```
curl http://calc.local.com/history
```

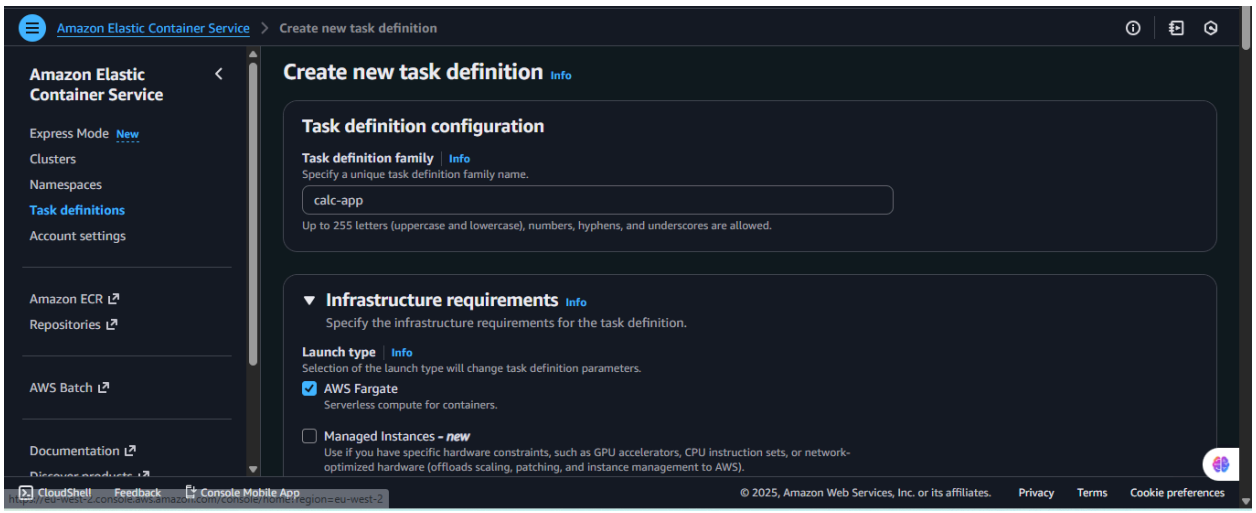
- Clear history:

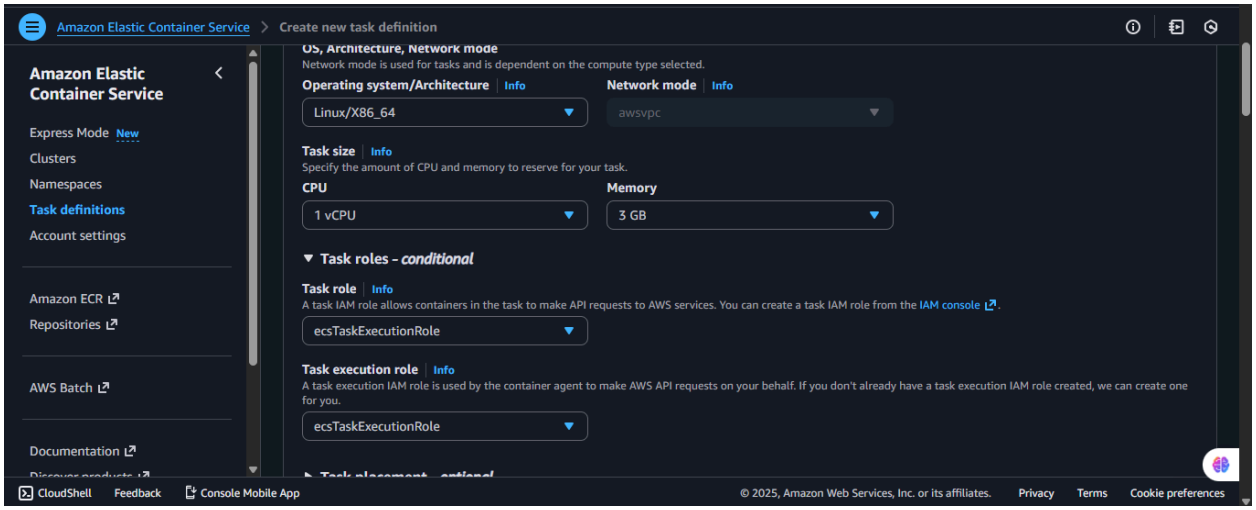
```
curl -X DELETE http://calc.local.com/history
```

```
ubuntu@ip-172-31-15-140:~/Container-Orchestration-Practice-Tasks/Flask Calculator$ curl -X POST http://calc.local.com/calculate \
  -H "Content-Type: application/json" \
  -d '{"a":12,"b":4,"op":"/"}'
{"a":12.0,"b":4.0,"id":"be49ad99-3b13-4efa-a0f2-f0b923cf5f33","op":"/","result":3.0}
ubuntu@ip-172-31-15-140:~/Container-Orchestration-Practice-Tasks/Flask Calculator$ curl http://calc.local.com/history
[]
ubuntu@ip-172-31-15-140:~/Container-Orchestration-Practice-Tasks/Flask Calculator$ curl -X DELETE http://calc.local.com/history
{"message":"history cleared"}
ubuntu@ip-172-31-15-140:~/Container-Orchestration-Practice-Tasks/Flask Calculator$
```

AWS Deployment






Amazon Elastic Container Service
Create new task definition
Amazon Elastic Container Service
Express Mode New
Clusters
Namespaces
Task definitions
Account settings
Amazon ECR
Repositories
AWS Batch
Documentation
OS, Architecture, Network mode
Network mode is used for tasks and is dependent on the compute type selected.
Operating system/Architecture Info
Linux/X86_64
Network mode Info
awsvpc
Task size Info
Specify the amount of CPU and memory to reserve for your task.
CPU
1 vCPU
Memory
3 GB
Task roles - conditional
Task role Info
A task IAM role allows containers in the task to make API requests to AWS services. You can create a task IAM role from the IAM console.
ecsTaskExecutionRole
Task execution role Info
A task execution IAM role is used by the container agent to make AWS API requests on your behalf. If you don't already have a task execution IAM role created, we can create one for you.
ecsTaskExecutionRole
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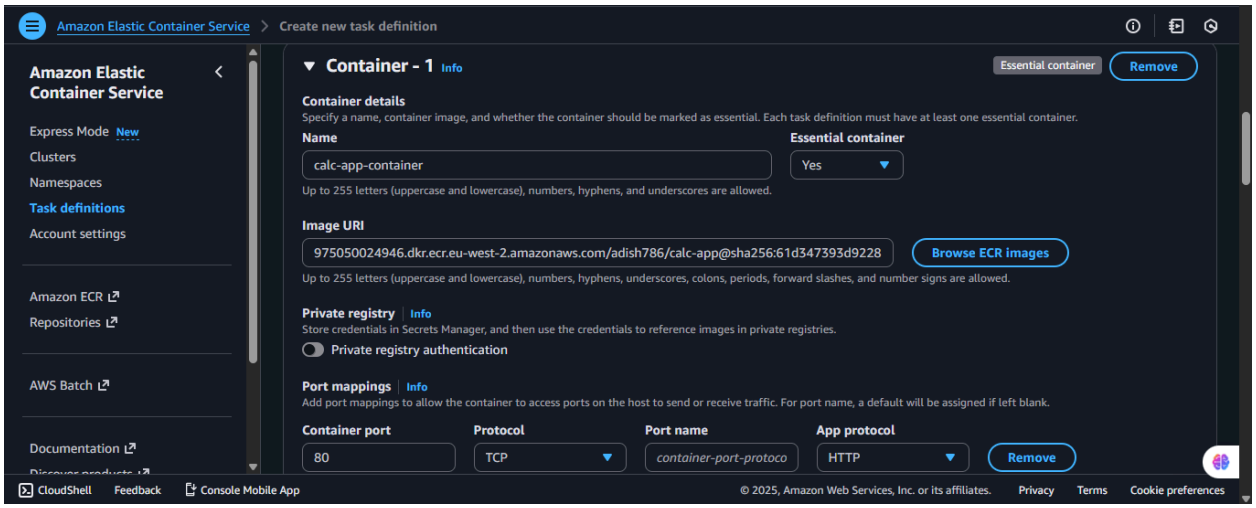
Amazon Elastic Container Service
Create new task definition
Amazon Elastic Container Service
Express Mode New
Clusters
Namespaces
Task definitions
Account settings
Amazon ECR
Repositories
AWS Batch
Documentation
Container - 1 Info
Essential container
Remove
Container details
Specify a name, container image, and whether the container should be marked as essential. Each task definition must have at least one essential container.
Name
calc-app-container
Up to 255 letters (uppercase and lowercase), numbers, hyphens, and underscores are allowed.
Essential container
Yes
Image URI
975050024946.dkr.ecr.eu-west-2.amazonaws.com/adish786/calc-app@sha256:61d347393d9228
Browse ECR images
Up to 255 letters (uppercase and lowercase), numbers, hyphens, underscores, colons, periods, forward slashes, and number signs are allowed.
Private registry Info
Store credentials in Secrets Manager, and then use the credentials to reference images in private registries.
Private registry authentication
Port mappings Info
Add port mappings to allow the container to access ports on the host to send or receive traffic. For port name, a default will be assigned if left blank.
Container port
80
Protocol
TCP
Port name
container-port-protoco
App protocol
HTTP
Remove
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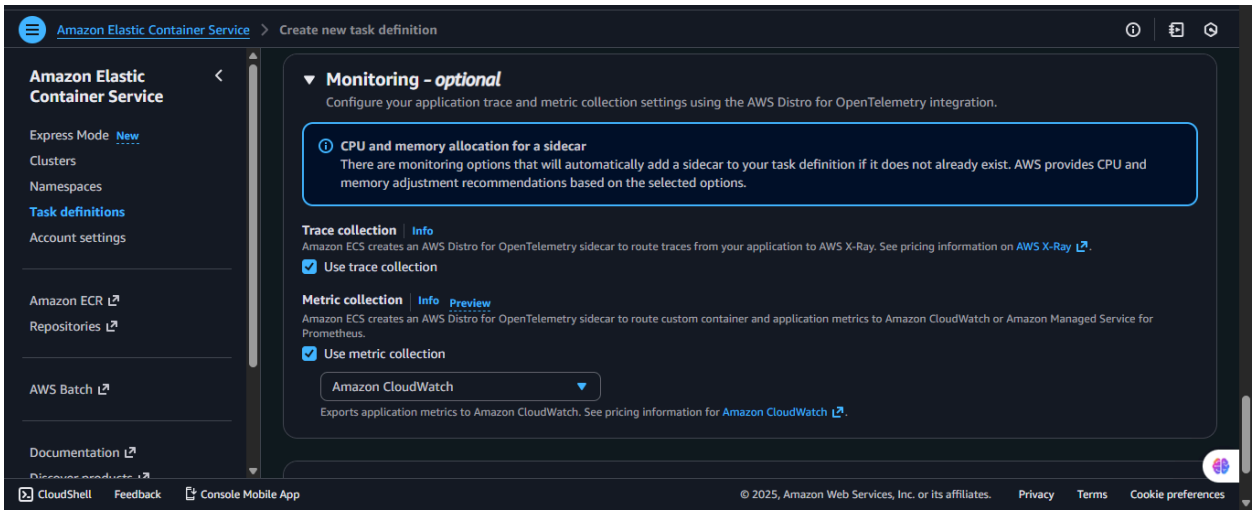
Amazon Elastic Container Service
Create new task definition
Amazon Elastic Container Service
Express Mode New
Clusters
Namespaces
Task definitions
Account settings
Amazon ECR
Repositories
AWS Batch
Documentation
Monitoring - optional
Configure your application trace and metric collection settings using the AWS Distro for OpenTelemetry integration.
CPU and memory allocation for a sidecar
There are monitoring options that will automatically add a sidecar to your task definition if it does not already exist. AWS provides CPU and memory adjustment recommendations based on the selected options.
Trace collection Info
Amazon ECS creates an AWS Distro for OpenTelemetry sidecar to route traces from your application to AWS X-Ray. See pricing information on AWS X-Ray.
Use trace collection
Metric collection Info Preview
Amazon ECS creates an AWS Distro for OpenTelemetry sidecar to route custom container and application metrics to Amazon CloudWatch or Amazon Managed Service for Prometheus.
Use metric collection
Amazon CloudWatch
Exports application metrics to Amazon CloudWatch. See pricing information for Amazon CloudWatch.
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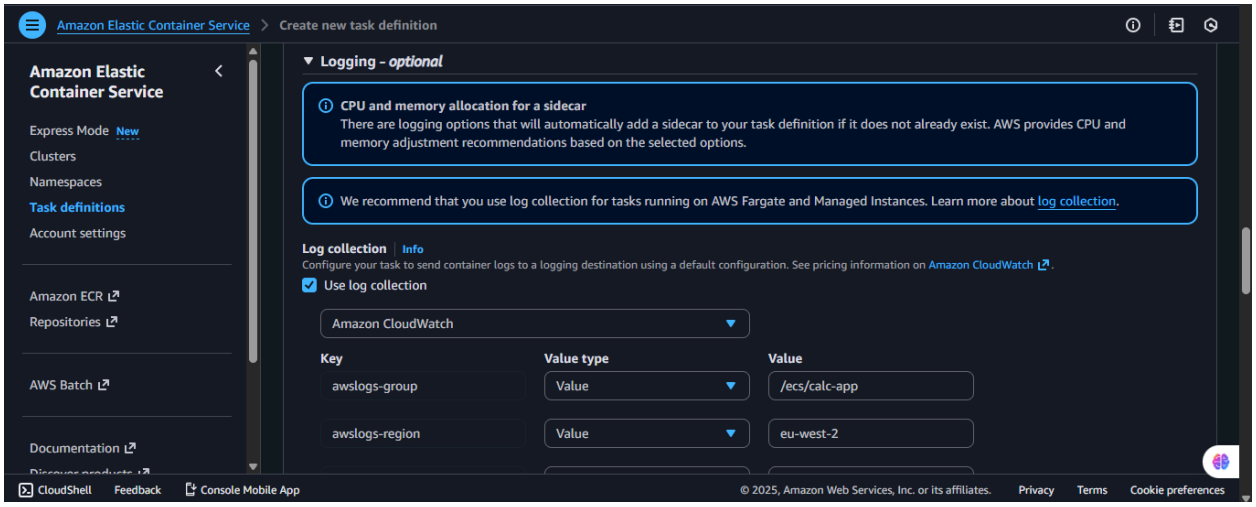
Amazon Elastic Container Service > Create new task definition
Amazon Elastic Container Service
Express Mode New
Clusters
Namespaces
Task definitions
Account settings
Amazon ECR
Repositories
AWS Batch
Documentation
Logging - optional
CPU and memory allocation for a sidecar
There are logging options that will automatically add a sidecar to your task definition if it does not already exist. AWS provides CPU and memory adjustment recommendations based on the selected options.
We recommend that you use log collection for tasks running on AWS Fargate and Managed Instances. Learn more about log collection.
Log collection Info
Configure your task to send container logs to a logging destination using a default configuration. See pricing information on Amazon CloudWatch.
Use log collection
Amazon CloudWatch
Key
Value type
Value
awslogs-group
Value
/ecs/calc-app
awslogs-region
Value
eu-west-2
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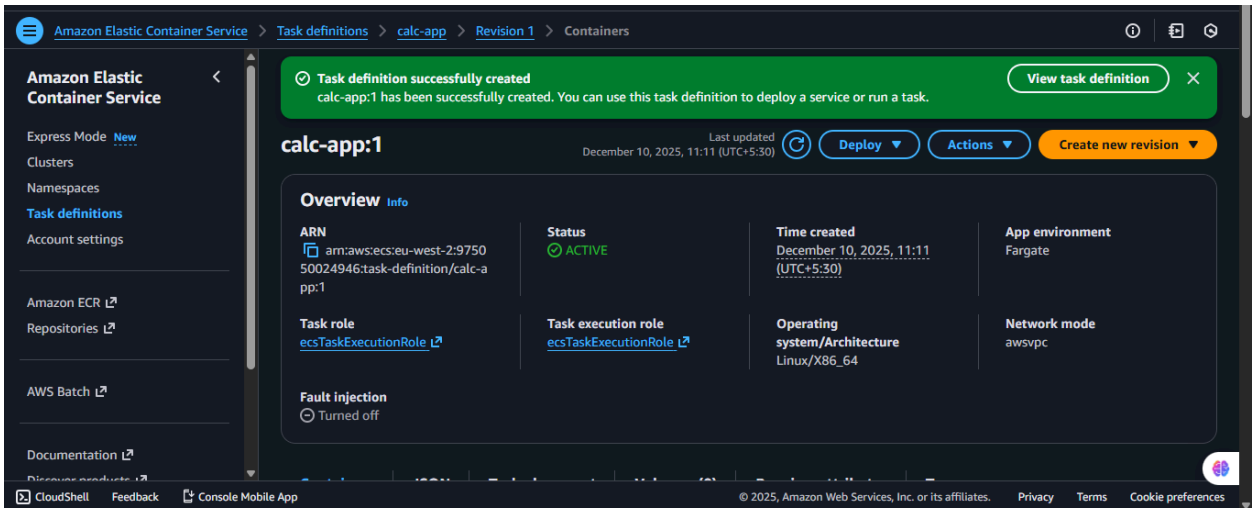
Amazon Elastic Container Service > Task definitions > calc-app > Revision 1 > Containers
Amazon Elastic Container Service
Express Mode New
Clusters
Namespaces
Task definitions
Account settings
Amazon ECR
Repositories
AWS Batch
Documentation
Task definition successfully created
calc-app:1 has been successfully created. You can use this task definition to deploy a service or run a task.
View task definition
calc-app:1
Last updated
December 10, 2025, 11:11 (UTC+5:30)
Deploy
Actions
Create new revision
Overview Info
ARN
arn:aws:ecs:eu-west-2:975050024946:task-definition/calc-app:1
Status
ACTIVE
Time created
December 10, 2025, 11:11 (UTC+5:30)
App environment
Fargate
Task role
ecsTaskExecutionRole
Task execution role
ecsTaskExecutionRole
Operating system/Architecture
Linux/X86_64
Network mode
awsvpc
Fault injection
Turned off
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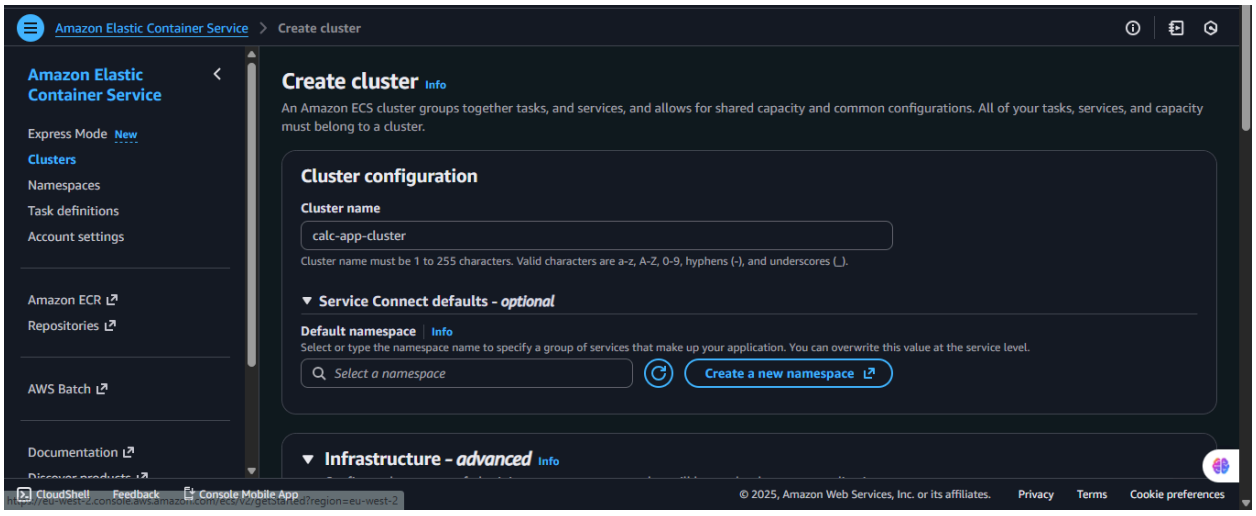
Amazon Elastic Container Service > Create cluster
Amazon Elastic Container Service
Express Mode New
Clusters
Namespaces
Task definitions
Account settings
Amazon ECR
Repositories
AWS Batch
Documentation
Create cluster Info
An Amazon ECS cluster groups together tasks, and services, and allows for shared capacity and common configurations. All of your tasks, services, and capacity must belong to a cluster.
Cluster configuration
Cluster name
calc-app-cluster
Cluster name must be 1 to 255 characters. Valid characters are a-z, A-Z, 0-9, hyphens (-), and underscores (_).
Service Connect defaults - optional
Default namespace Info
Select or type the namespace name to specify a group of services that make up your application. You can overwrite this value at the service level.
Select a namespace
Create a new namespace
Infrastructure - advanced Info
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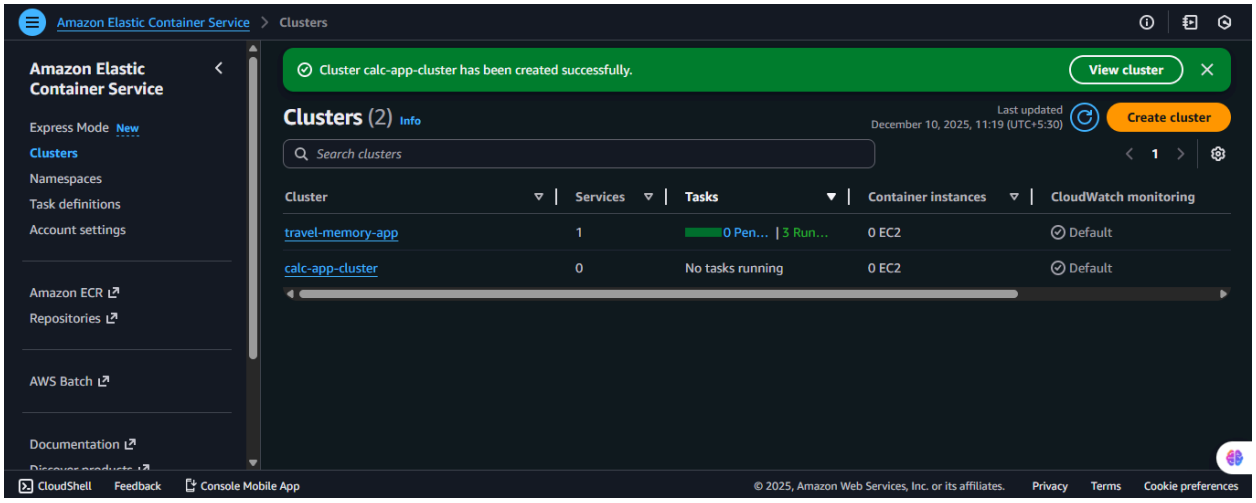
Amazon Elastic Container Service > Clusters
Amazon Elastic Container Service
Express Mode New
Clusters
Namespaces
Task definitions
Account settings
Amazon ECR
Repositories
AWS Batch
Documentation
Cluster calc-app-cluster has been created successfully.
View cluster
Clusters (2) Info
Last updated December 10, 2025, 11:19 (UTC+5:30)
Create cluster
Search clusters
Cluster
Services
Tasks
Container instances
CloudWatch monitoring
travel-memory-app
1
0 Pen... | 3 Run...
0 EC2
Default
calc-app-cluster
0
No tasks running
0 EC2
Default
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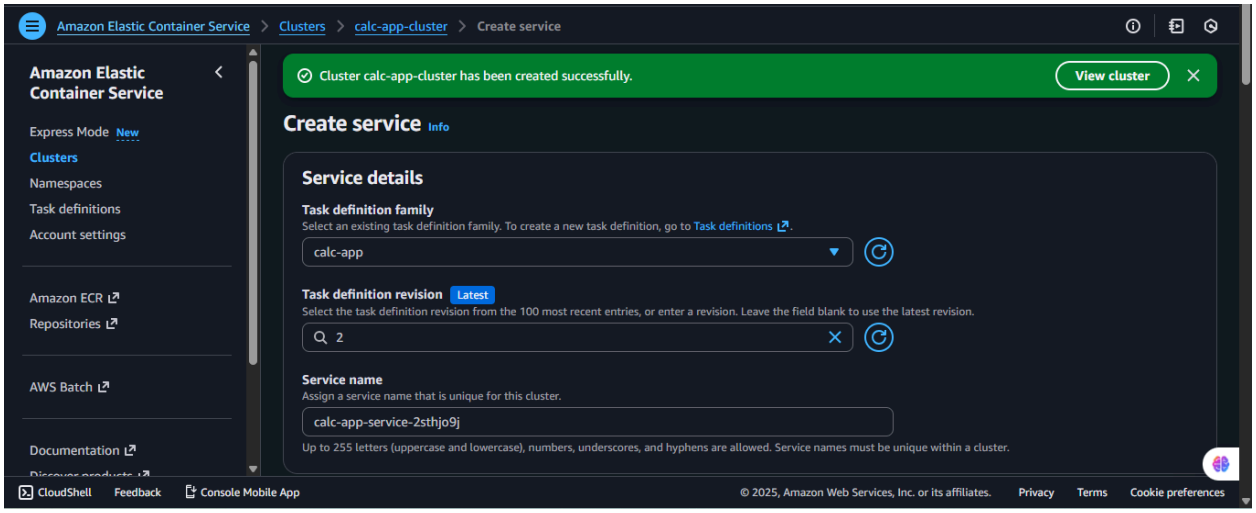
Amazon Elastic Container Service > Clusters > calc-app-cluster > Create service
Amazon Elastic Container Service
Express Mode New
Clusters
Namespaces
Task definitions
Account settings
Amazon ECR
Repositories
AWS Batch
Documentation
Cluster calc-app-cluster has been created successfully.
View cluster
Create service Info
Service details
Task definition family
Select an existing task definition family. To create a new task definition, go to Task definitions.
calc-app
Task definition revision Latest
Select the task definition revision from the 100 most recent entries, or enter a revision. Leave the field blank to use the latest revision.
2
Service name
Assign a service name that is unique for this cluster.
calc-app-service-2sthjo9j
Up to 255 letters (uppercase and lowercase), numbers, underscores, and hyphens are allowed. Service names must be unique within a cluster.
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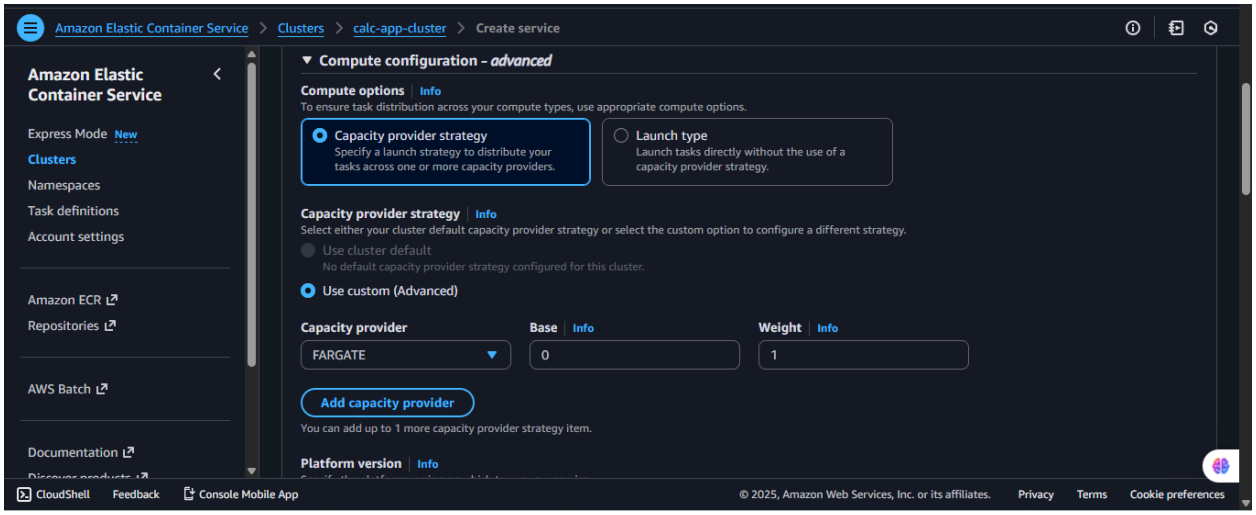
Amazon Elastic Container Service > Clusters > calc-app-cluster > Create service
Amazon Elastic Container Service
Express Mode New
Clusters
Namespaces
Task definitions
Account settings
Amazon ECR
Repositories
AWS Batch
Documentation
Compute configuration - advanced
Compute options Info
To ensure task distribution across your compute types, use appropriate compute options.
Capacity provider strategy
Specify a launch strategy to distribute your tasks across one or more capacity providers.
Launch type
Launch tasks directly without the use of a capacity provider strategy.
Capacity provider strategy Info
Select either your cluster default capacity provider strategy or select the custom option to configure a different strategy.
Use cluster default
No default capacity provider strategy configured for this cluster.
Use custom (Advanced)
Capacity provider
Base Info
Weight Info
FARGATE
0
1
Add capacity provider
You can add up to 1 more capacity provider strategy item.
Platform version Info
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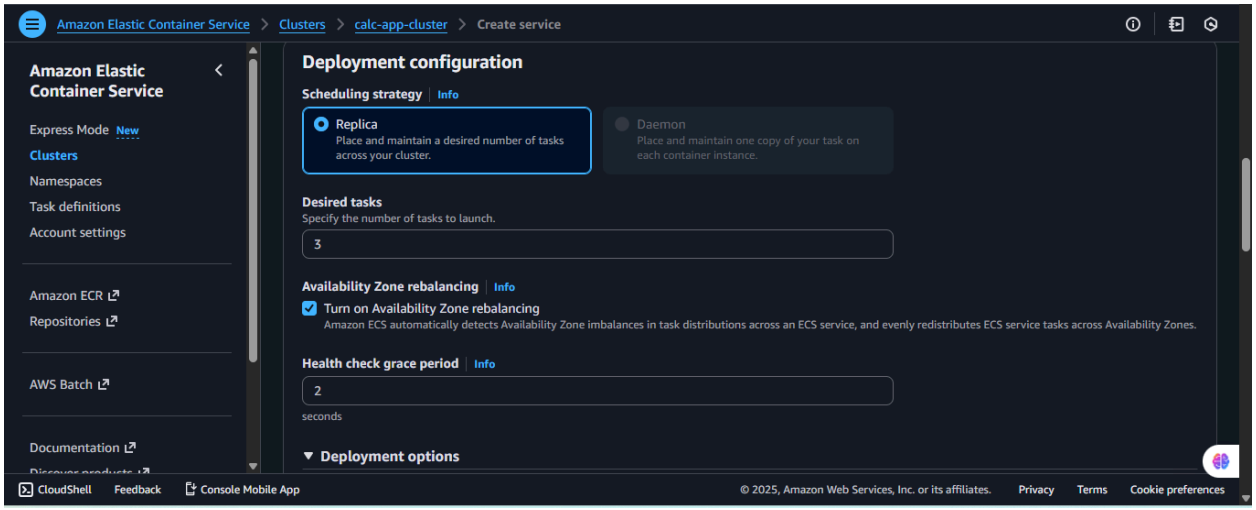
Amazon Elastic Container Service > Clusters > calc-app-cluster > Create service
Amazon Elastic Container Service
Express Mode New
Clusters
Namespaces
Task definitions
Account settings
Amazon ECR
Repositories
AWS Batch
Documentation
Deployment configuration
Scheduling strategy | Info
Replica
Place and maintain a desired number of tasks across your cluster.
Daemon
Place and maintain one copy of your task on each container instance.
Desired tasks
Specify the number of tasks to launch.
3
Availability Zone rebalancing | Info
Turn on Availability Zone rebalancing
Amazon ECS automatically detects Availability Zone imbalances in task distributions across an ECS service, and evenly redistributes ECS service tasks across Availability Zones.
Health check grace period | Info
2
seconds
Deployment options
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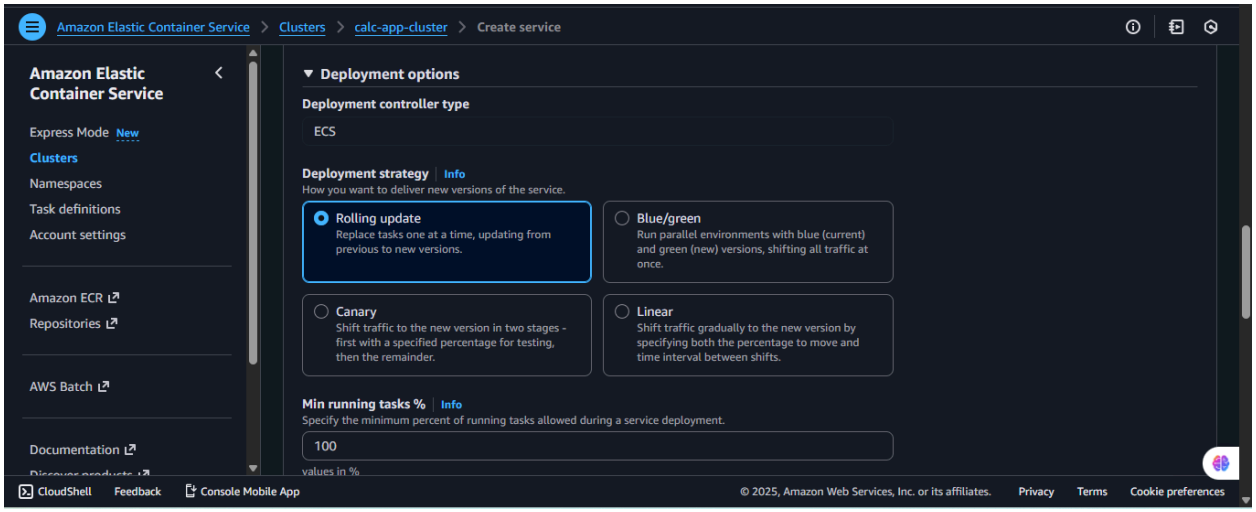
Amazon Elastic Container Service > Clusters > calc-app-cluster > Create service
Amazon Elastic Container Service
Express Mode New
Clusters
Namespaces
Task definitions
Account settings
Amazon ECR
Repositories
AWS Batch
Documentation
Deployment options
Deployment controller type
ECS
Deployment strategy | Info
How you want to deliver new versions of the service.
Rolling update
Replace tasks one at a time, updating from previous to new versions.
Blue/green
Run parallel environments with blue (current) and green (new) versions, shifting all traffic at once.
Canary
Shift traffic to the new version in two stages - first with a specified percentage for testing, then the remainder.
Linear
Shift traffic gradually to the new version by specifying both the percentage to move and time interval between shifts.
Min running tasks % | Info
Specify the minimum percent of running tasks allowed during a service deployment.
100
values in %
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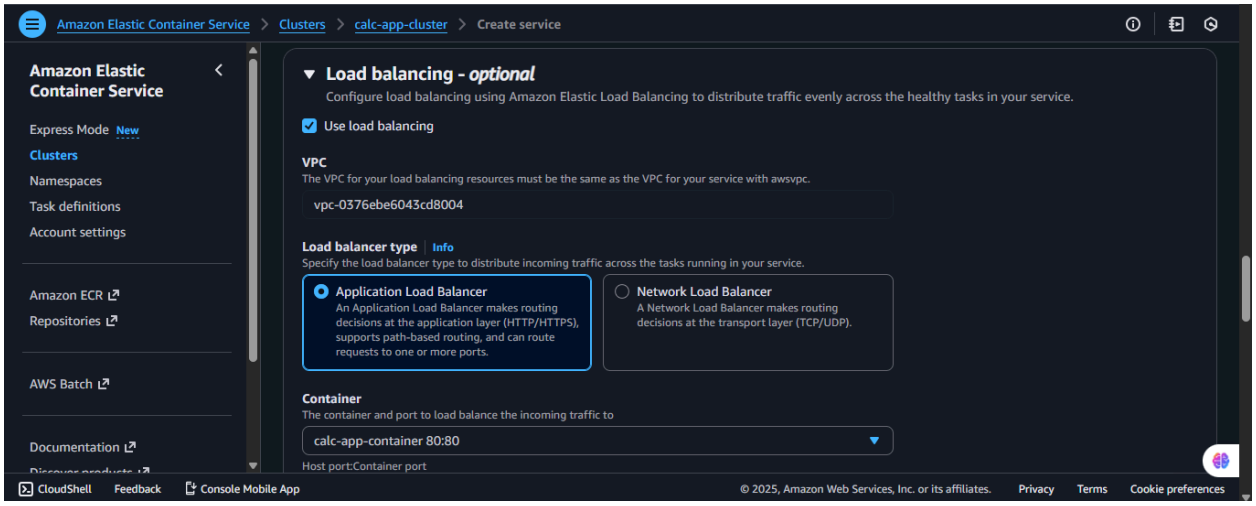
Amazon Elastic Container Service > Clusters > calc-app-cluster > Create service
Amazon Elastic Container Service
Express Mode New
Clusters
Namespaces
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Account settings
Amazon ECR
Repositories
AWS Batch
Documentation
Load balancing - optional
Configure load balancing using Amazon Elastic Load Balancing to distribute traffic evenly across the healthy tasks in your service.
Use load balancing
VPC
The VPC for your load balancing resources must be the same as the VPC for your service with awsvpc.
vpc-0376ebe6043cd8004
Load balancer type | Info
Specify the load balancer type to distribute incoming traffic across the tasks running in your service.
Application Load Balancer
An Application Load Balancer makes routing decisions at the application layer (HTTP/HTTPS), supports path-based routing, and can route requests to one or more ports.
Network Load Balancer
A Network Load Balancer makes routing decisions at the transport layer (TCP/UDP).
Container
The container and port to load balance the incoming traffic to
calc-app-container 80:80
Host port:Container port
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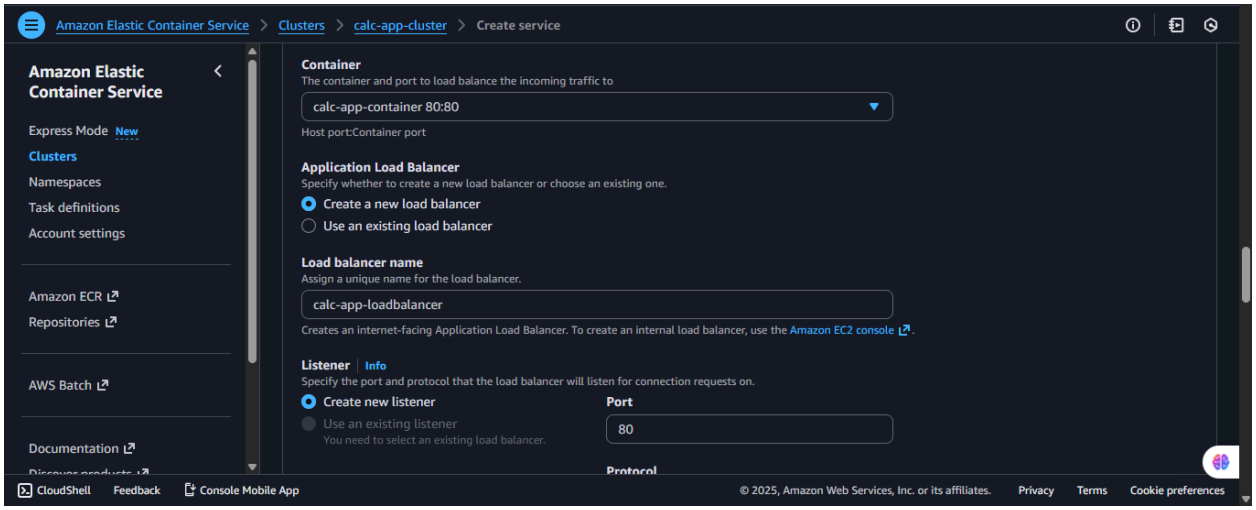
Amazon Elastic Container Service > Clusters > calc-app-cluster > Create service
Amazon Elastic Container Service
Express Mode New
Clusters
Namespaces
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AWS Batch
Documentation
Container
The container and port to load balance the incoming traffic to
calc-app-container 80:80
Host port:Container port
Application Load Balancer
Specify whether to create a new load balancer or choose an existing one.
Create a new load balancer
Use an existing load balancer
Load balancer name
Assign a unique name for the load balancer.
calc-app-loadbalancer
Creates an internet-facing Application Load Balancer. To create an internal load balancer, use the Amazon EC2 console.
Listener Info
Specify the port and protocol that the load balancer will listen for connection requests on.
Create new listener
Use an existing listener
You need to select an existing load balancer.
Port
80
Protocol
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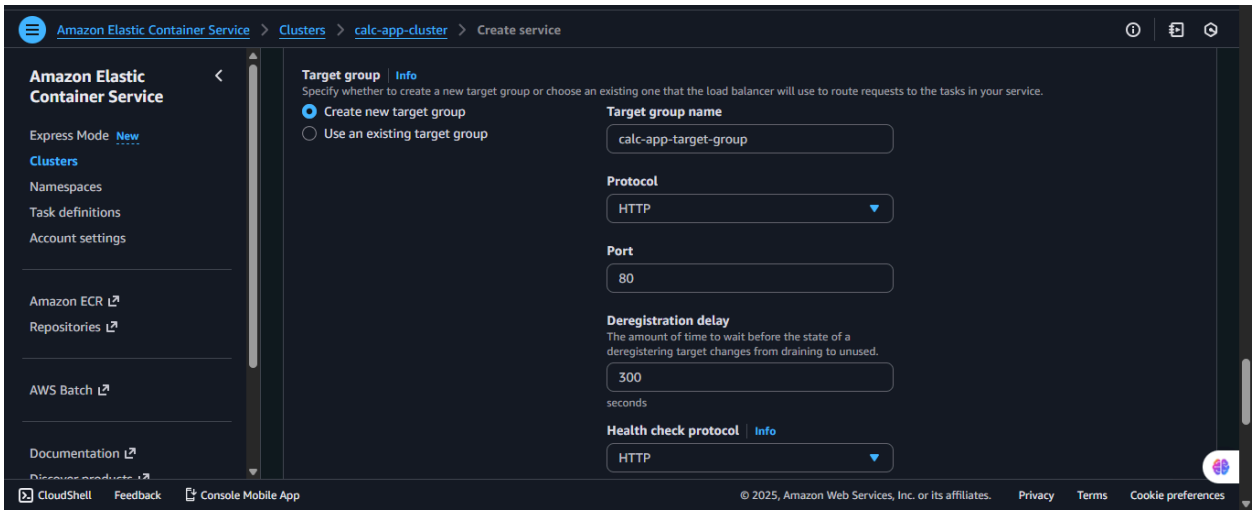
Amazon Elastic Container Service > Clusters > calc-app-cluster > Create service
Amazon Elastic Container Service
Express Mode New
Clusters
Namespaces
Task definitions
Account settings
Amazon ECR
Repositories
AWS Batch
Documentation
Target group Info
Specify whether to create a new target group or choose an existing one that the load balancer will use to route requests to the tasks in your service.
Create new target group
Use an existing target group
Target group name
calc-app-target-group
Protocol
HTTP
Port
80
Deregistration delay
The amount of time to wait before the state of a deregistering target changes from draining to unused.
300
seconds
Health check protocol Info
HTTP
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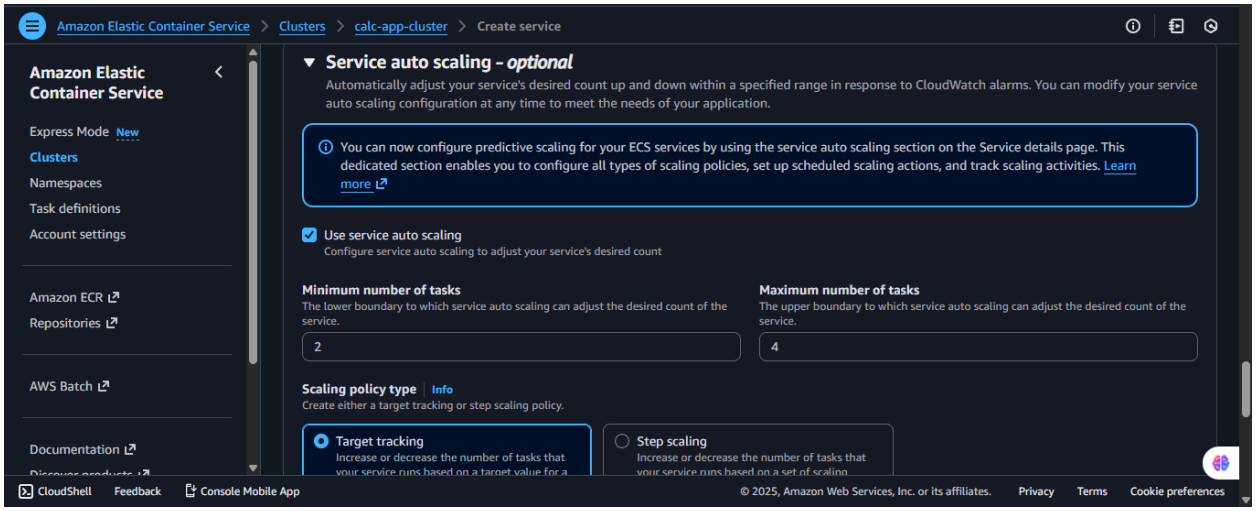
Amazon Elastic Container Service > Clusters > calc-app-cluster > Create service
Amazon Elastic Container Service
Express Mode New
Clusters
Namespaces
Task definitions
Account settings
Amazon ECR
Repositories
AWS Batch
Documentation
Service auto scaling - optional
Automatically adjust your service's desired count up and down within a specified range in response to CloudWatch alarms. You can modify your service auto scaling configuration at any time to meet the needs of your application.
You can now configure predictive scaling for your ECS services by using the service auto scaling section on the Service details page. This dedicated section enables you to configure all types of scaling policies, set up scheduled scaling actions, and track scaling activities. Learn more
Use service auto scaling
Configure service auto scaling to adjust your service's desired count
Minimum number of tasks
The lower boundary to which service auto scaling can adjust the desired count of the service.
2
Maximum number of tasks
The upper boundary to which service auto scaling can adjust the desired count of the service.
4
Scaling policy type Info
Create either a target tracking or step scaling policy.
Target tracking
Increase or decrease the number of tasks that
Step scaling
Increase or decrease the number of tasks that
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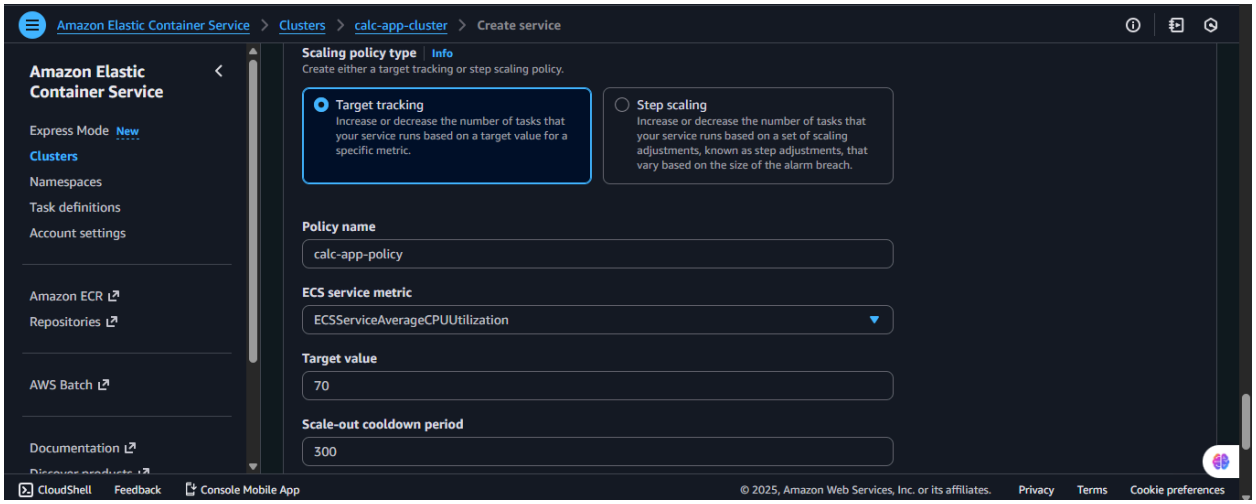
Amazon Elastic Container Service > Clusters > calc-app-cluster > Create service
Amazon Elastic Container Service
Express Mode New
Clusters
Namespaces
Task definitions
Account settings
Amazon ECR
Repositories
AWS Batch
Documentation
Scaling policy type Info
Create either a target tracking or step scaling policy.
Target tracking
Increase or decrease the number of tasks that your service runs based on a target value for a specific metric.
Step scaling
Increase or decrease the number of tasks that your service runs based on a set of scaling adjustments, known as step adjustments, that vary based on the size of the alarm breach.
Policy name
calc-app-policy
ECS service metric
ECSServiceAverageCPUUtilization
Target value
70
Scale-out cooldown period
300
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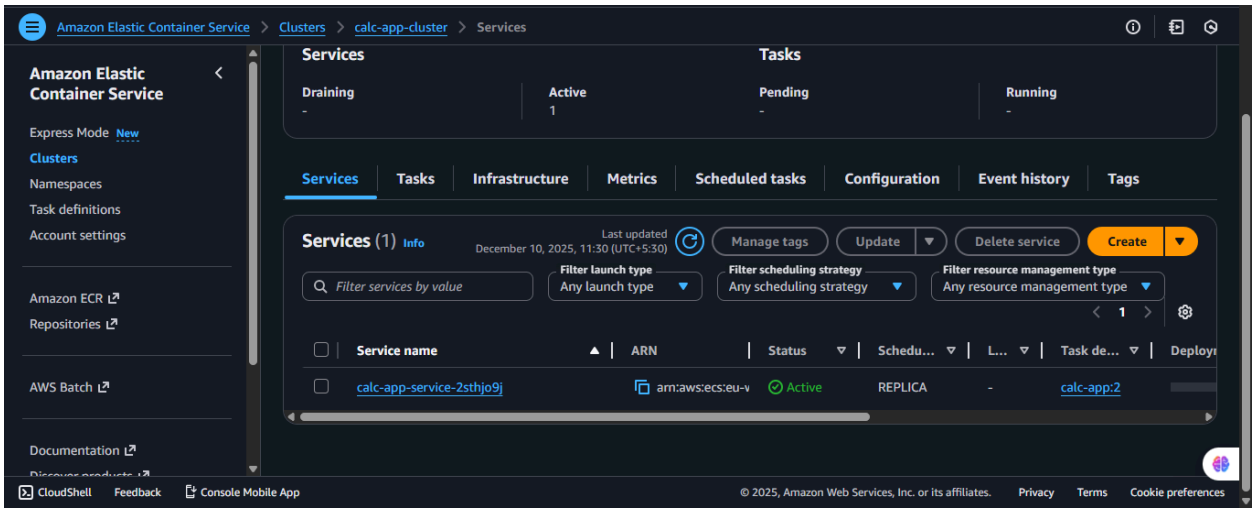
Amazon Elastic Container Service > Clusters > calc-app-cluster > Services
Amazon Elastic Container Service
Express Mode New
Clusters
Namespaces
Task definitions
Account settings
Amazon ECR
Repositories
AWS Batch
Documentation
Services
Draining
-
Active
1
Tasks
Pending
-
Running
-
Services
Tasks
Infrastructure
Metrics
Scheduled tasks
Configuration
Event history
Tags
Services (1) Info
Last updated
December 10, 2025, 11:30 (UTC+5:30)
Manage tags
Update
Delete service
Create
Filter services by value
Filter launch type
Any launch type
Filter scheduling strategy
Any scheduling strategy
Filter resource management type
Any resource management type
Service name
ARN
Status
Schedu...
L...
Task de...
calc-app-service-2sthjo9j
arn:aws:ecs:eu-v
Active
REPLICA
-
calc-app:2
CloudShell
Feedback
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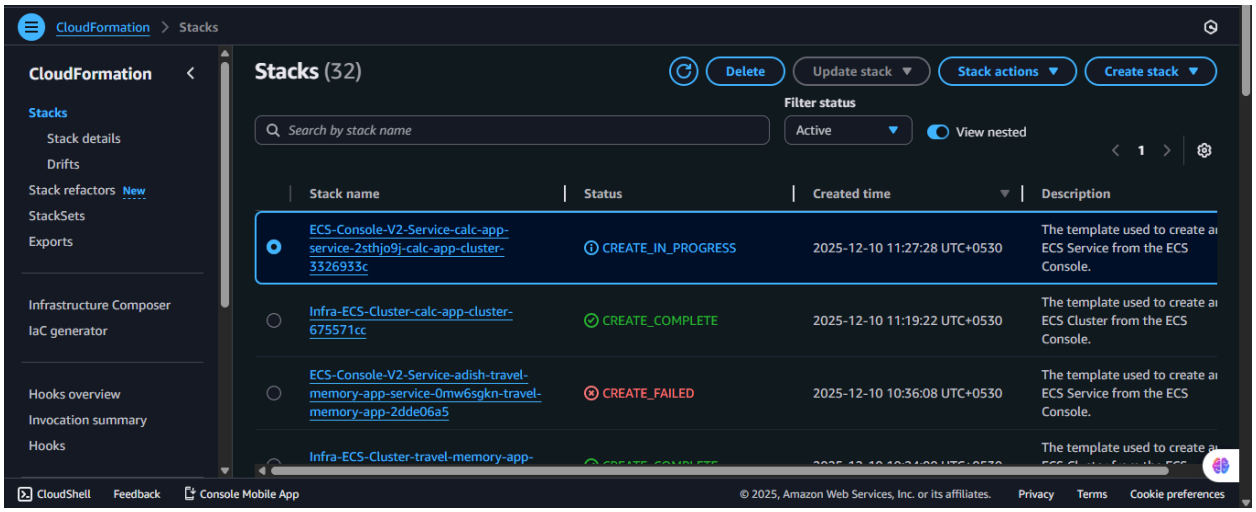
CloudFormation > Stacks
CloudFormation
Stacks
Stack details
Drifts
Stack refactors New
StackSets
Exports
Infrastructure Composer
IaC generator
Hooks overview
Invocation summary
Hooks
Stacks (32)
Delete
Update stack
Stack actions
Create stack
Search by stack name
Filter status
Active
View nested
Stack name
Status
Created time
Description
ECS-Console-V2-Service-calc-app-service-2sthjo9j-calc-app-cluster-3326933c
CREATE_IN_PROGRESS
2025-12-10 11:27:28 UTC+0530
The template used to create a ECS Service from the ECS Console.
Infra-ECS-Cluster-calc-app-cluster-675571cc
CREATE_COMPLETE
2025-12-10 11:19:22 UTC+0530
The template used to create a ECS Cluster from the ECS Console.
ECS-Console-V2-Service-adish-travel-memory-app-service-0mw6sgkn-travel-memory-app-2dde06a5
CREATE_FAILED
2025-12-10 10:36:08 UTC+0530
The template used to create a ECS Service from the ECS Console.
Infra-ECS-Cluster-travel-memory-app-
The template used to create a
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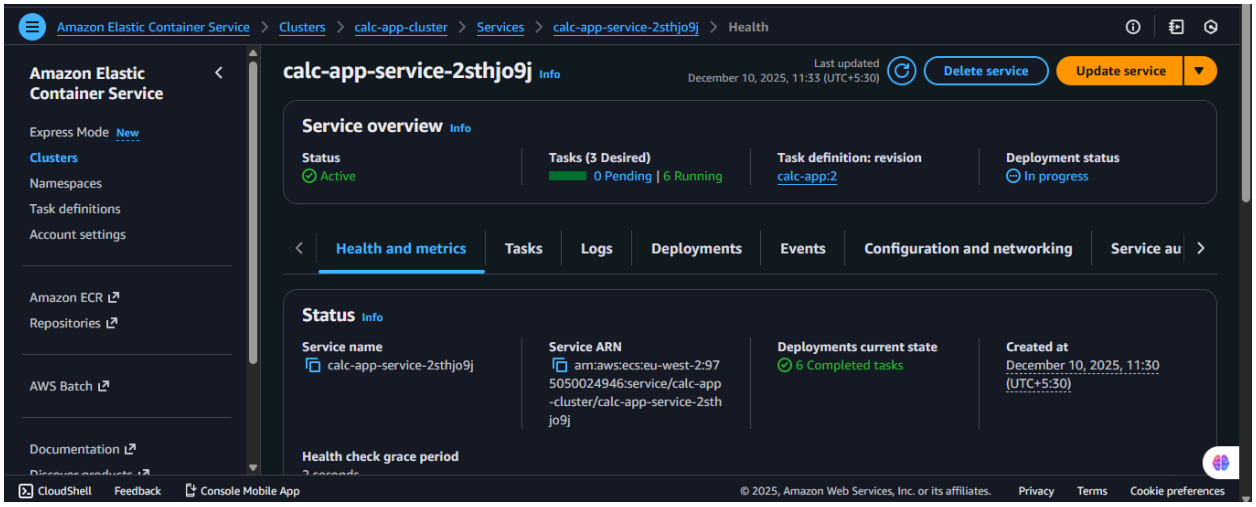
Amazon Elastic Container Service > Clusters > calc-app-cluster > Services > calc-app-service-2sthjo9j > Health
Amazon Elastic Container Service
Express Mode New
Clusters
Namespaces
Task definitions
Account settings
Amazon ECR
Repositories
AWS Batch
Documentation
calc-app-service-2sthjo9j Info
Last updated December 10, 2025, 11:33 (UTC+5:30)
Delete service
Update service
Service overview Info
Status
Active
Tasks (3 Desired)
0 Pending | 6 Running
Task definition: revision
calc-app:2
Deployment status
In progress
Health and metrics
Tasks
Logs
Deployments
Events
Configuration and networking
Service au
Status Info
Service name
calc-app-service-2sthjo9j
Service ARN
arn:aws:ecs:eu-west-2:975050024946:service/calc-app-cluster/calc-app-service-2sthjo9j
Deployments current state
6 Completed tasks
Created at
December 10, 2025, 11:30 (UTC+5:30)
Health check grace period
CloudShell
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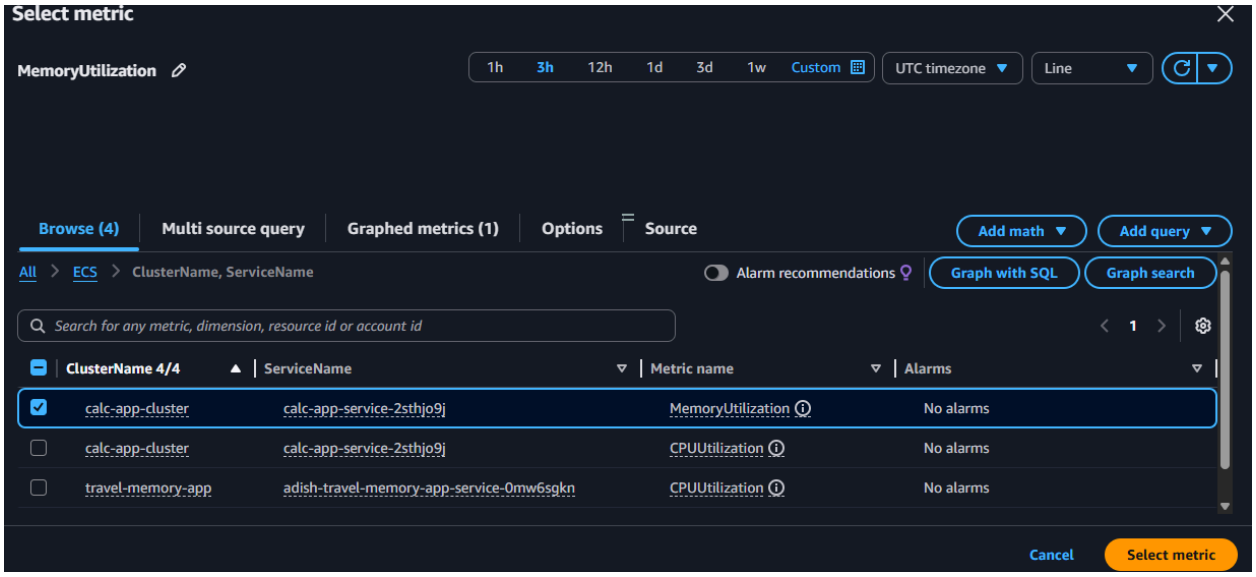
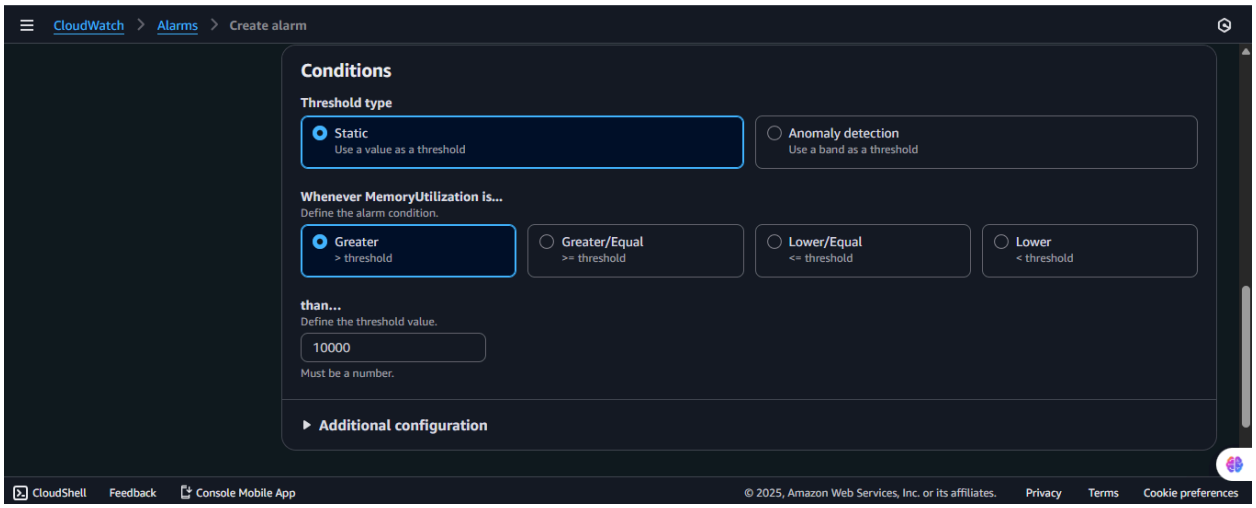

Select metric
MemoryUtilization
1h
3h
12h
1d
3d
1w
Custom
UTC timezone
Line
Browse (4)
Multi source query
Graphed metrics (1)
Options
Source
Add math
Add query
All > ECS > ClusterName, ServiceName
Alarm recommendations
Graph with SQL
Graph search
Search for any metric, dimension, resource id or account id
ClusterName 4/4
ServiceName
Metric name
Alarms
calc-app-cluster
calc-app-service-2sthjo9j
MemoryUtilization
No alarms
calc-app-cluster
calc-app-service-2sthjo9j
CPUUtilization
No alarms
travel-memory-app
adish-travel-memory-app-service-0mw6sgkn
CPUUtilization
No alarms
Cancel
Select metric


CloudWatch > Alarms > Create alarm
Conditions
Threshold type
Static
Use a value as a threshold
Anomaly detection
Use a band as a threshold
Whenever MemoryUtilization is...
Define the alarm condition.
Greater
> threshold
Greater/Equal
>= threshold
Lower/Equal
<= threshold
Lower
< threshold
than...
Define the threshold value.
10000
Must be a number.
Additional configuration
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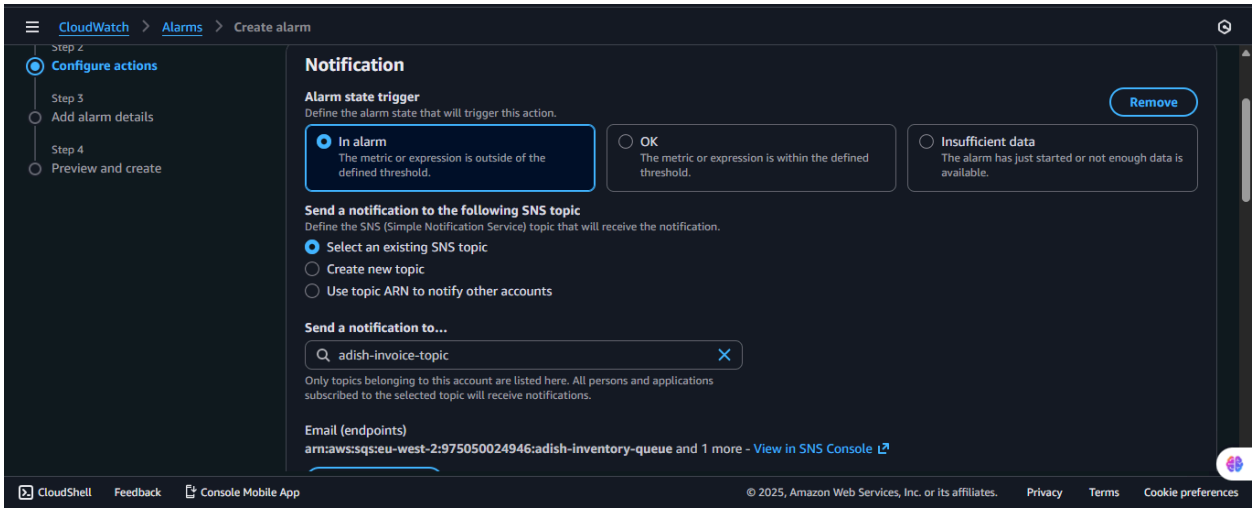
CloudWatch > Alarms > Create alarm
Step 2
Configure actions
Step 3
Add alarm details
Step 4
Preview and create
Notification
Alarm state trigger
Define the alarm state that will trigger this action.
Remove
In alarm
The metric or expression is outside of the defined threshold.
OK
The metric or expression is within the defined threshold.
Insufficient data
The alarm has just started or not enough data is available.
Send a notification to the following SNS topic
Define the SNS (Simple Notification Service) topic that will receive the notification.
Select an existing SNS topic
Create new topic
Use topic ARN to notify other accounts
Send a notification to...
adish-invoice-topic
Only topics belonging to this account are listed here. All persons and applications subscribed to the selected topic will receive notifications.
Email (endpoints)
arn:aws:sqs:eu-west-2:975050024946:adish-inventory-queue and 1 more - View in SNS Console
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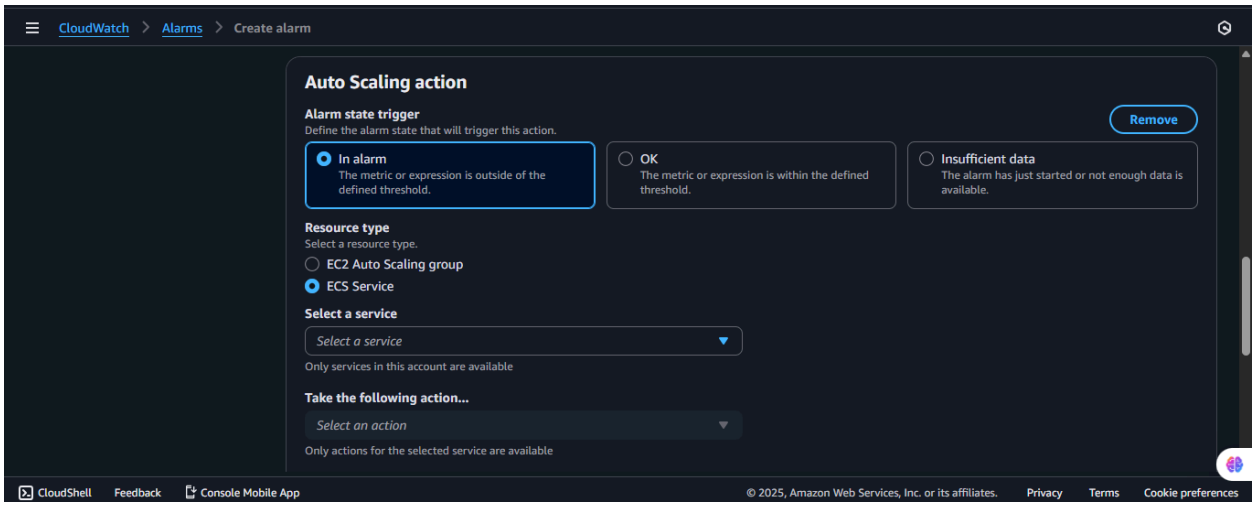
CloudWatch > Alarms > Create alarm
Auto Scaling action
Alarm state trigger
Define the alarm state that will trigger this action.
Remove
In alarm
The metric or expression is outside of the defined threshold.
OK
The metric or expression is within the defined threshold.
Insufficient data
The alarm has just started or not enough data is available.
Resource type
Select a resource type.
EC2 Auto Scaling group
ECS Service
Select a service
Select a service
Only services in this account are available
Take the following action...
Select an action
Only actions for the selected service are available
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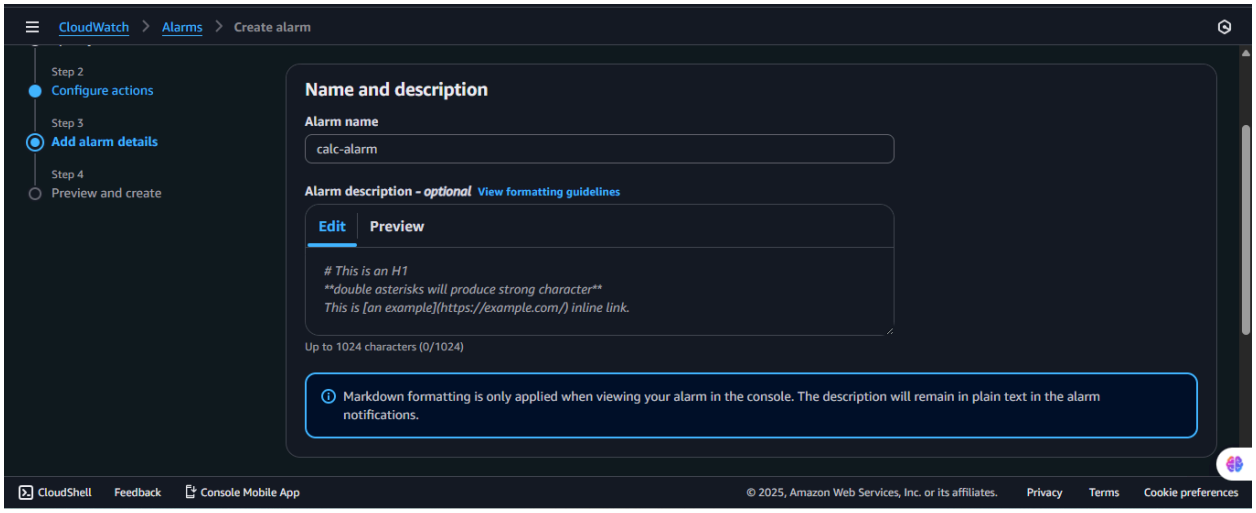
CloudWatch > Alarms > Create alarm
Step 2
Configure actions
Step 3
Add alarm details
Step 4
Preview and create
Name and description
Alarm name
calc-alarm
Alarm description - optional View formatting guidelines
Edit
Preview
This is an H1
double asterisks will produce strong character
This is [an example](https://example.com/) inline link.
Up to 1024 characters (0/1024)
Markdown formatting is only applied when viewing your alarm in the console. The description will remain in plain text in the alarm notifications.
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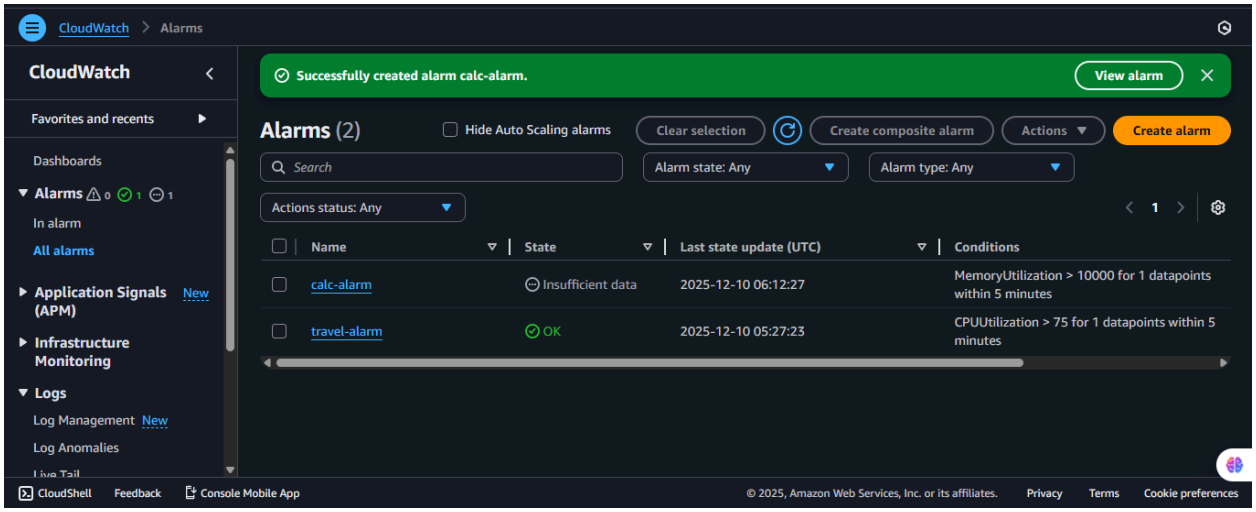
CloudWatch
Alarms
CloudWatch
Favorites and recents
Dashboards
Alarms 0 1 1
In alarm
All alarms
Application Signals (APM) New
Infrastructure Monitoring
Logs
Log Management New
Log Anomalies
Live Tail
Successfully created alarm calc-alarm.
View alarm
Alarms (2)
Hide Auto Scaling alarms
Clear selection
Create composite alarm
Actions
Create alarm
Search
Alarm state: Any
Alarm type: Any
Actions status: Any
1
Name
State
Last state update (UTC)
Conditions
calc-alarm
Insufficient data
2025-12-10 06:12:27
MemoryUtilization > 10000 for 1 datapoints within 5 minutes
travel-alarm
OK
2025-12-10 05:27:23
CPUUtilization > 75 for 1 datapoints within 5 minutes
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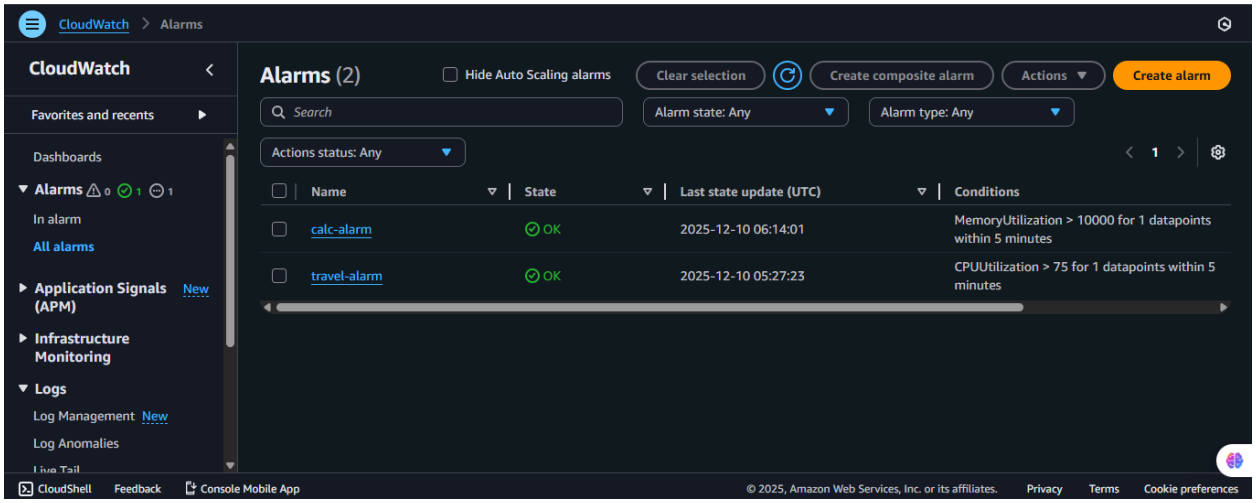
CloudWatch
Alarms
CloudWatch
Favorites and recents
Dashboards
Alarms 0 1 1
In alarm
All alarms
Application Signals (APM) New
Infrastructure Monitoring
Logs
Log Management New
Log Anomalies
Live Tail
Alarms (2)
Hide Auto Scaling alarms
Clear selection
Create composite alarm
Actions
Create alarm
Search
Alarm state: Any
Alarm type: Any
Actions status: Any
1
Name
State
Last state update (UTC)
Conditions
calc-alarm
OK
2025-12-10 06:14:01
MemoryUtilization > 10000 for 1 datapoints within 5 minutes
travel-alarm
OK
2025-12-10 05:27:23
CPUUtilization > 75 for 1 datapoints within 5 minutes
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