LAB: Systems Manager – Parameter Store

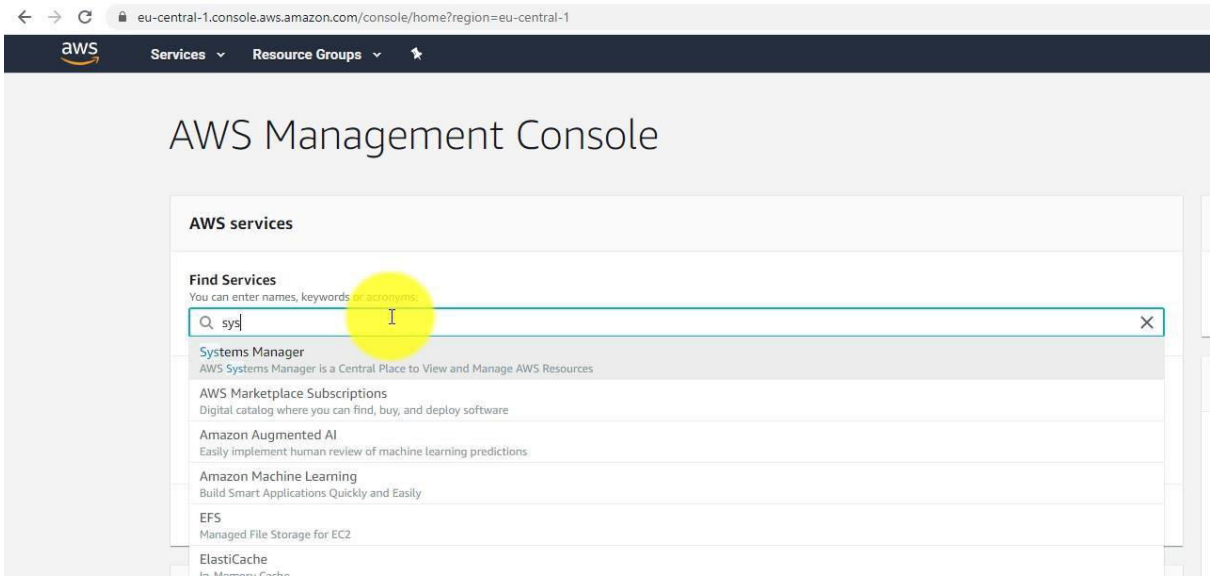
You need:

- An AWS Account

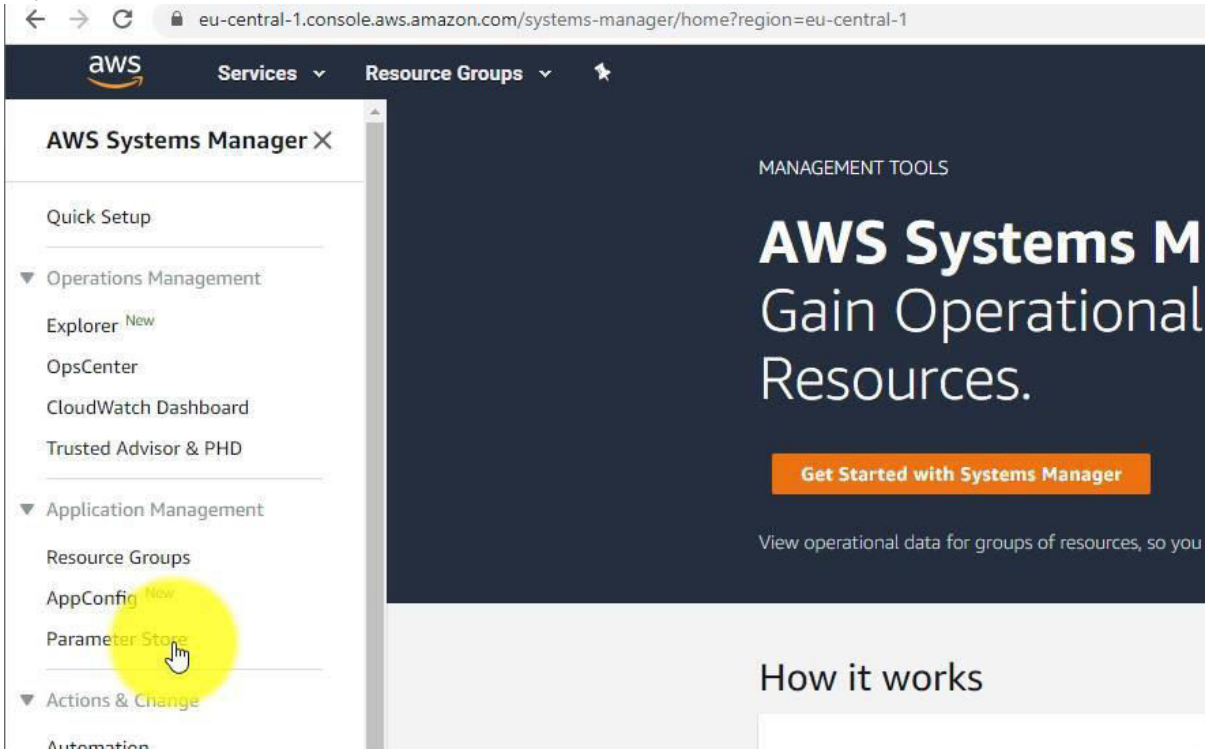
Duration of the Lab: 30 Minutes.

Difficulty: medium

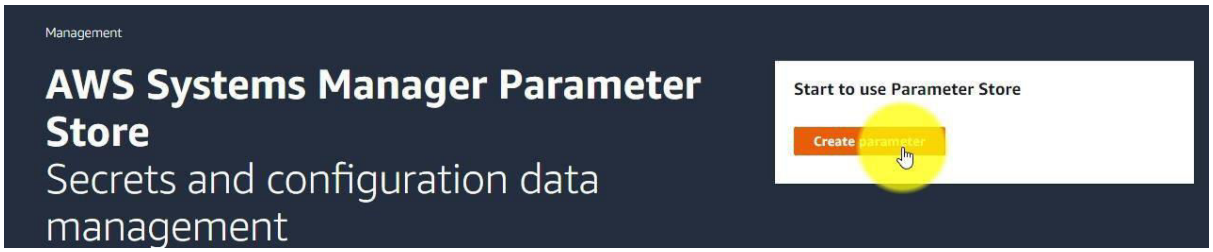
Open the Systems Manager



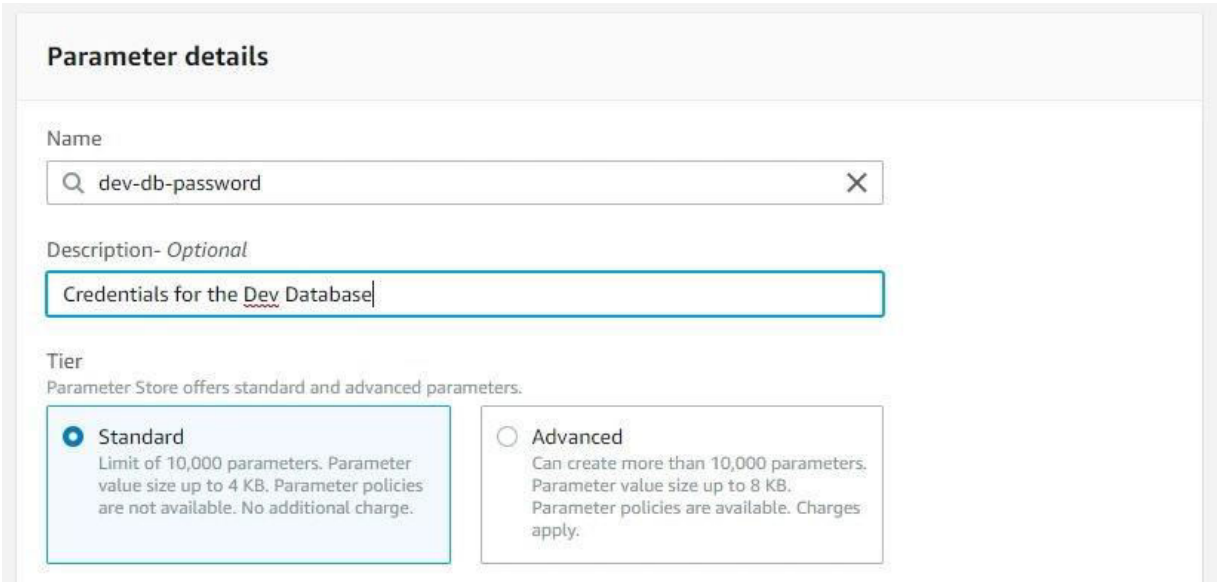
Open the Parameter Store Feature



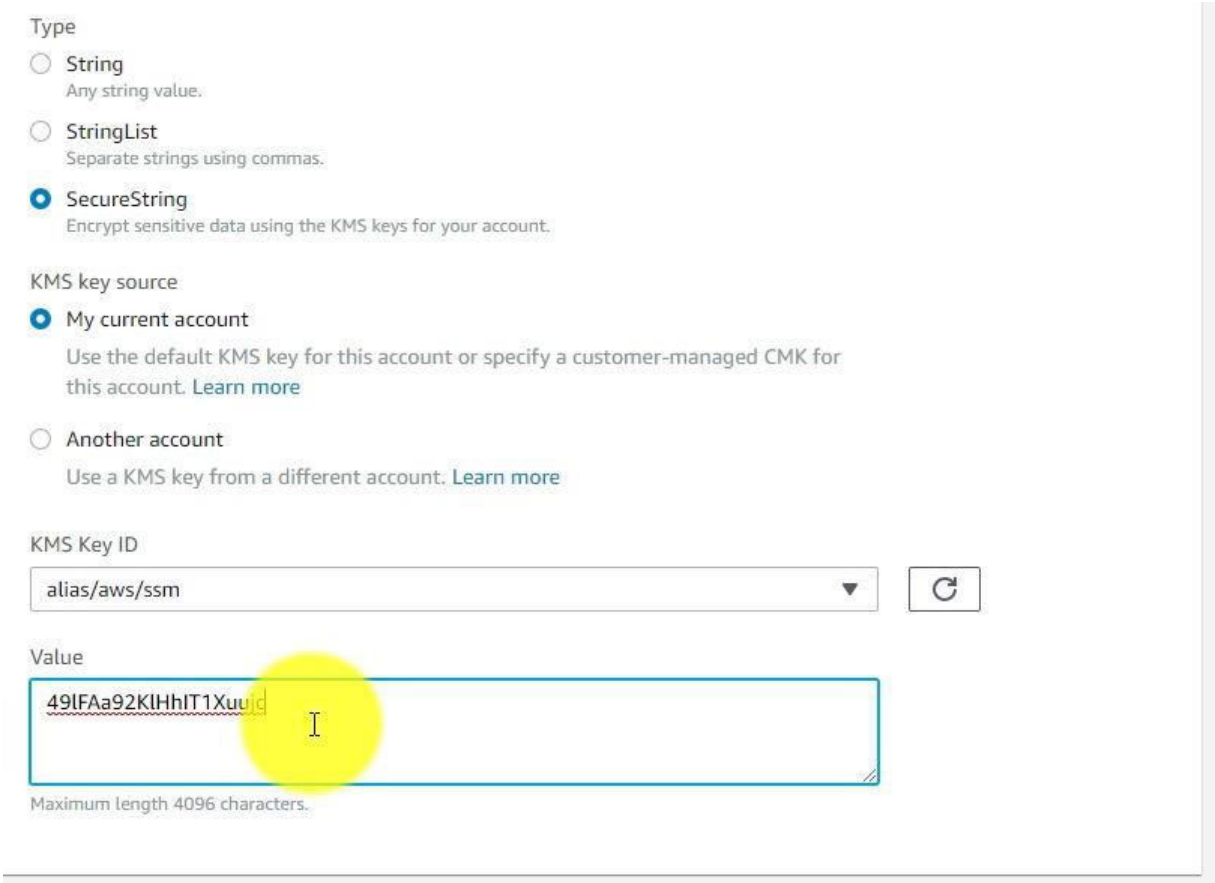
Create a Parameter



Give it a name – for example a tiered name where “dev-*” are all development parameters and “prod-“ are all production parameters. You can later on set corresponding rights in the IAM Permissions we attach to the ECS cluster to read only “dev-“ parameters in our dev-cluster:

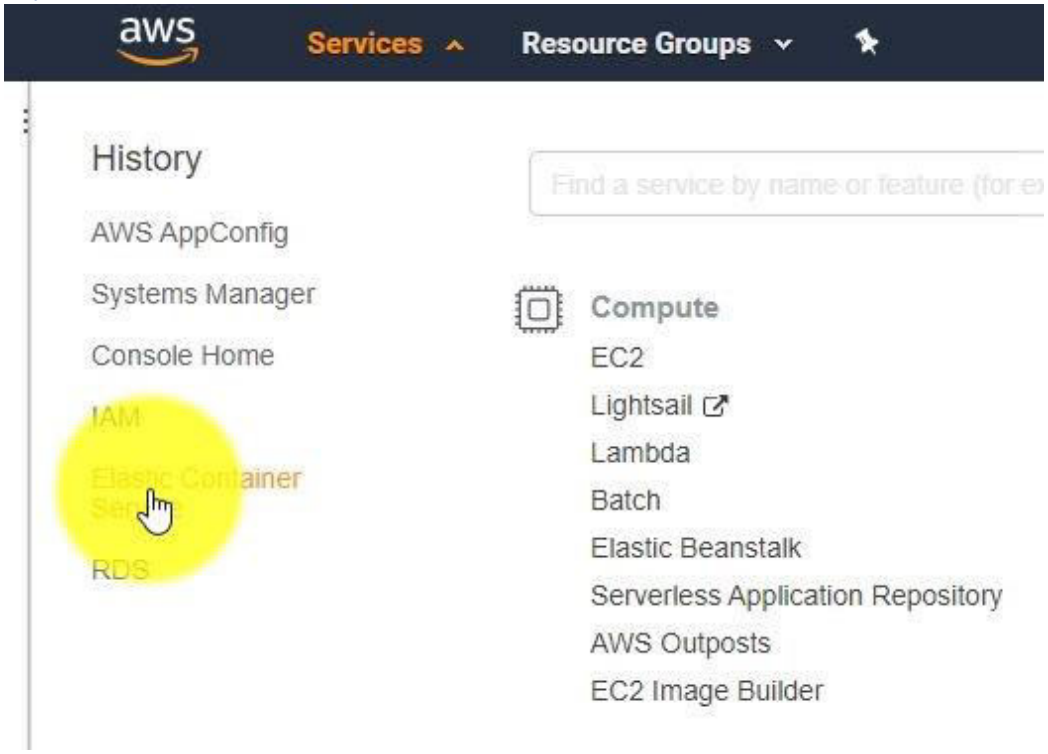


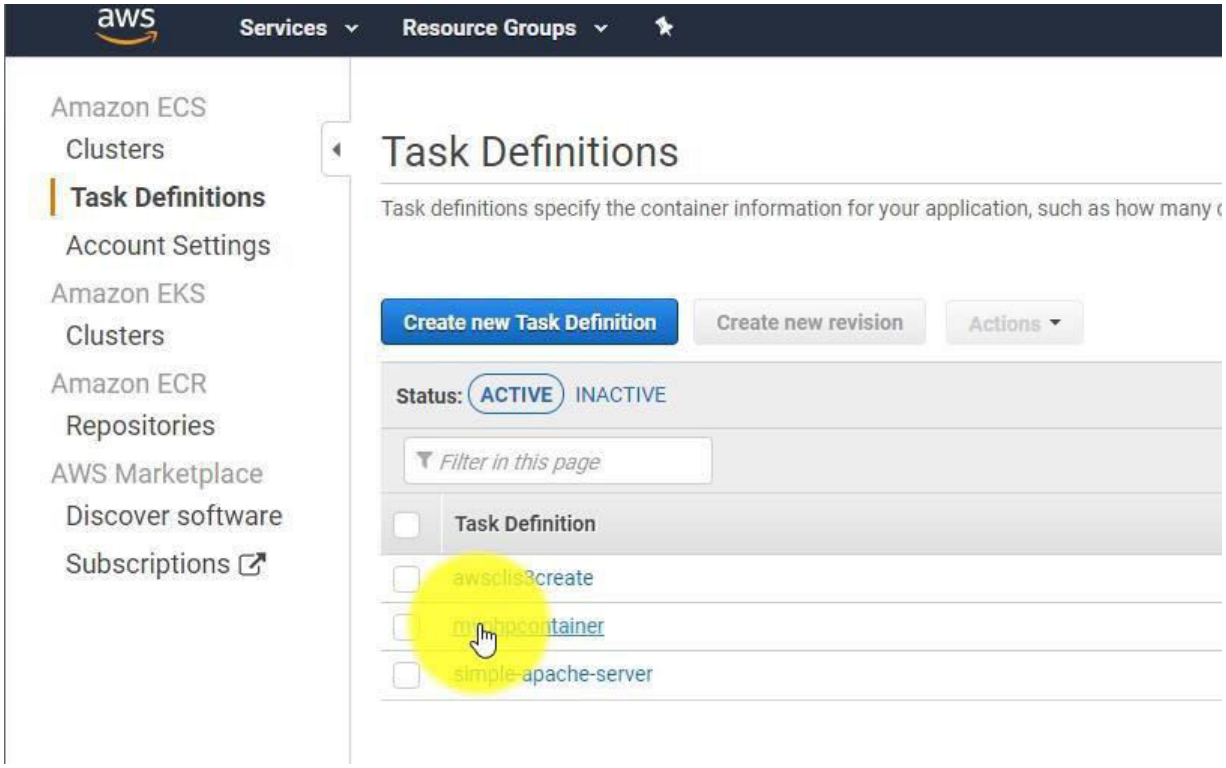
Select a secure string and enter the master password for *your* RDS Database:

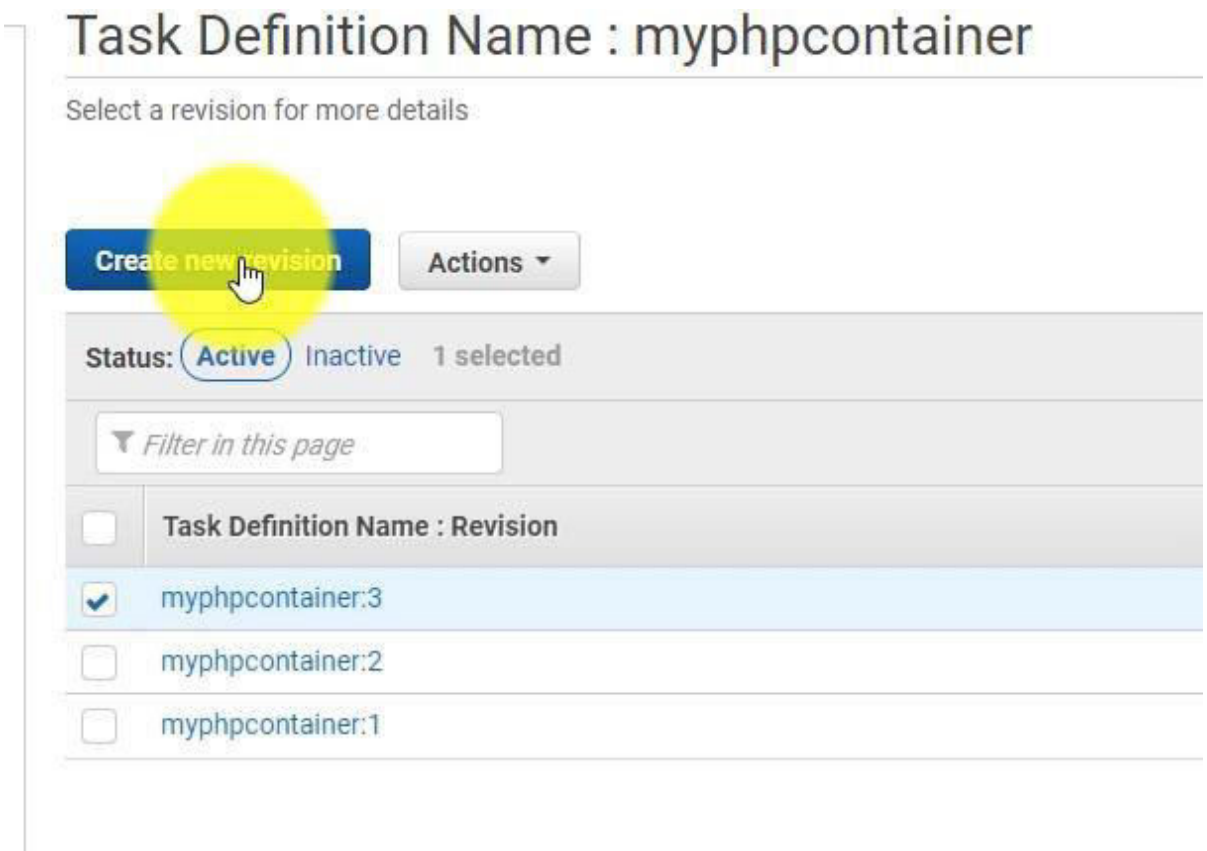


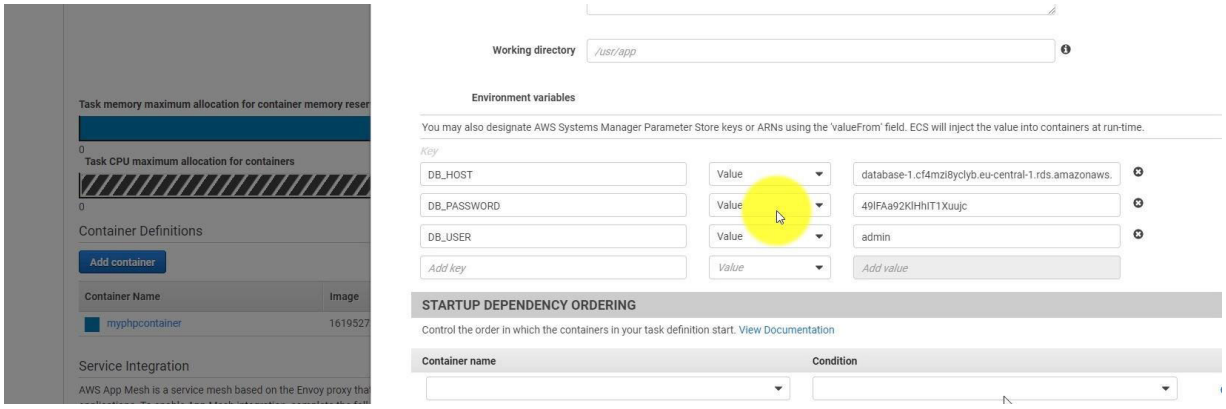
Then simply hit “create parameter”

Update the ECS Task Definition




aws
Services
Resource Groups
Amazon ECS
Clusters
Task Definitions
Account Settings
Amazon EKS
Clusters
Amazon ECR
Repositories
AWS Marketplace
Discover software
Subscriptions
Task Definitions
Task definitions specify the container information for your application, such as how many
Create new Task Definition
Create new revision
Actions
Status: ACTIVE INACTIVE
Filter in this page
Task Definition
awsclis3create
myphpcontainer
simple-apache-server

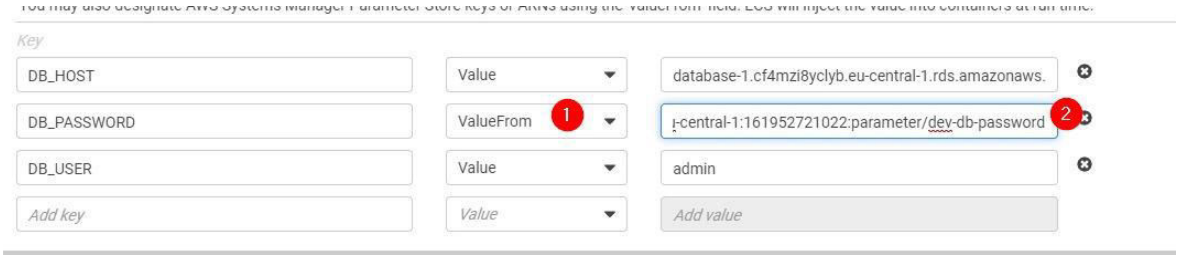

Task Definition Name : myphpcontainer
Select a revision for more details
Create new revision
Actions
Status: Active Inactive 1 selected
Filter in this page
Task Definition Name : Revision
myphpcontainer:3
myphpcontainer:2
myphpcontainer:1



In the environment variables for your container update the password field so it fetches the password from the Parameter Store instead of having it plain-text in the environment variables.

Update to “ValueFrom” from the Dropdown and enter an ARN (Amazon Resource Name) for the dev-db-password from your parameter store. This has the following format: arn:aws:ssn:REGION:USERID:parameter/dev-db-password

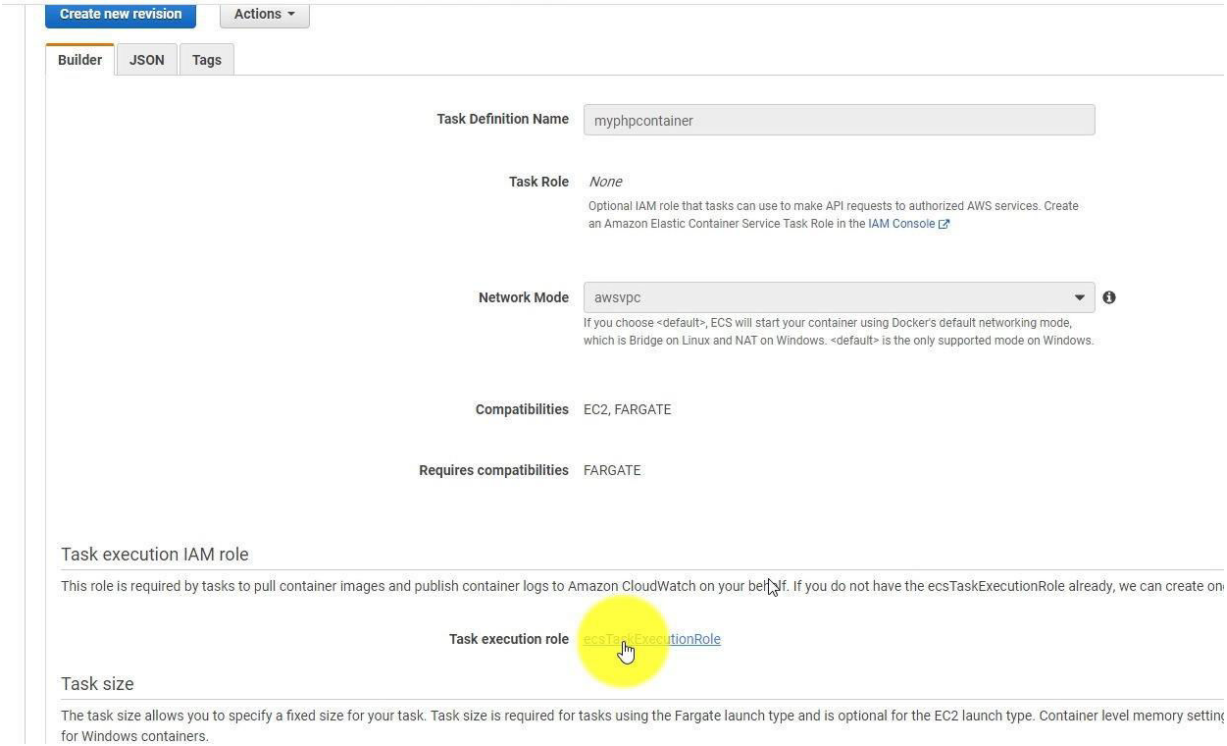
For my own region (eu-central-1) and my own User-ID it looks like this:



Then hit “Update” and create the new TaskDefinition revision.

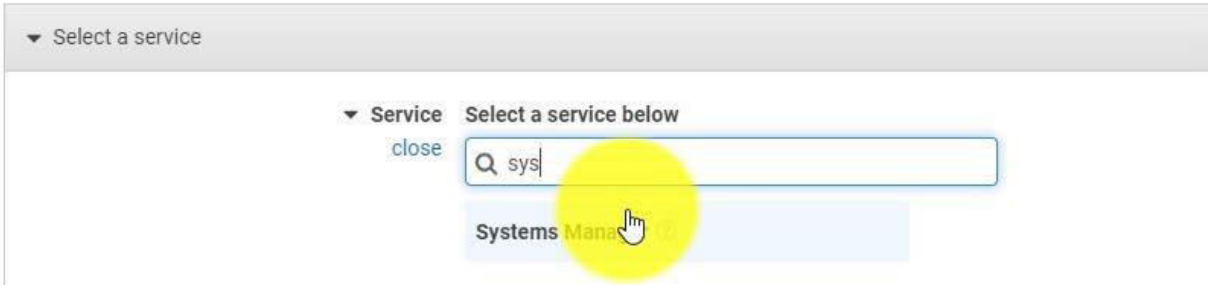
Update the IAM Role

The Task itself has an IAM Role attached for the task execution. This role must get access to the Parameter, otherwise ECS can’t access it and can’t read the parameter and inject it into the environment.

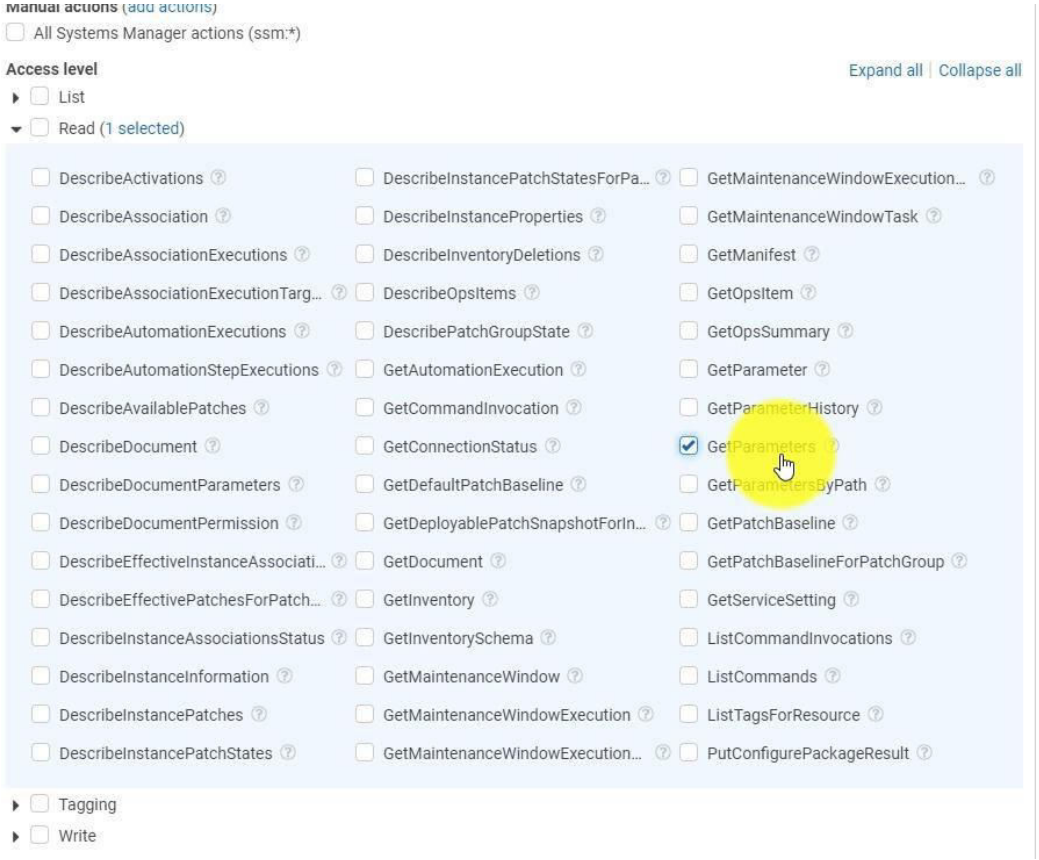


Click on the role and then attach some inline policy to get the credentials:

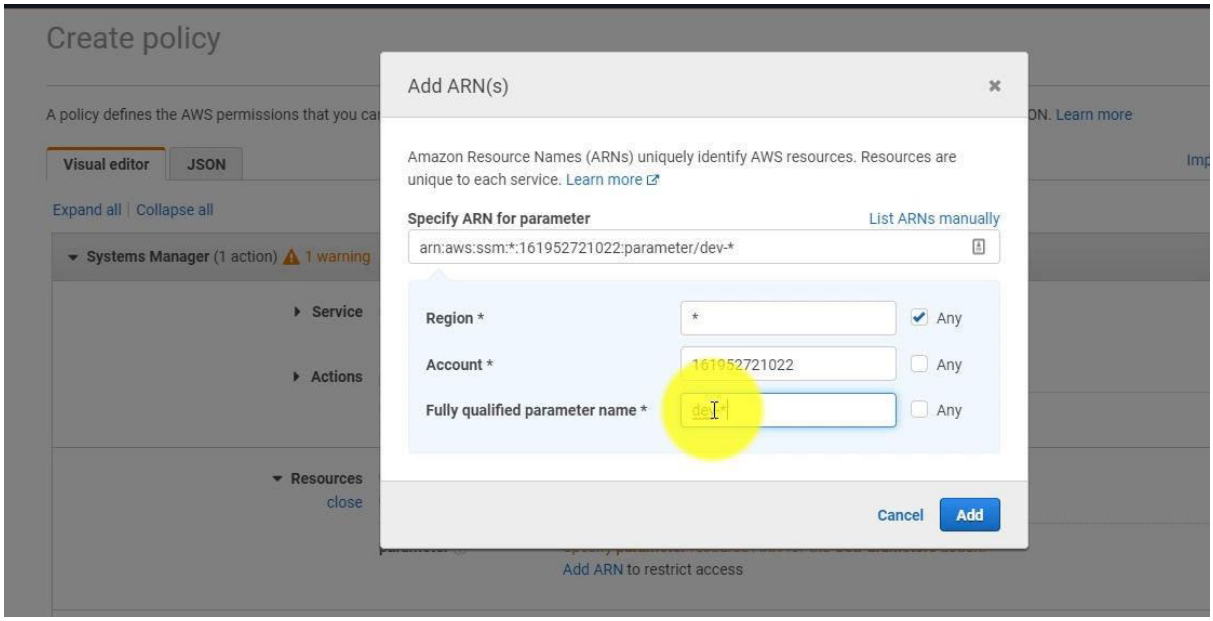
As a service choose the Systems Manager:



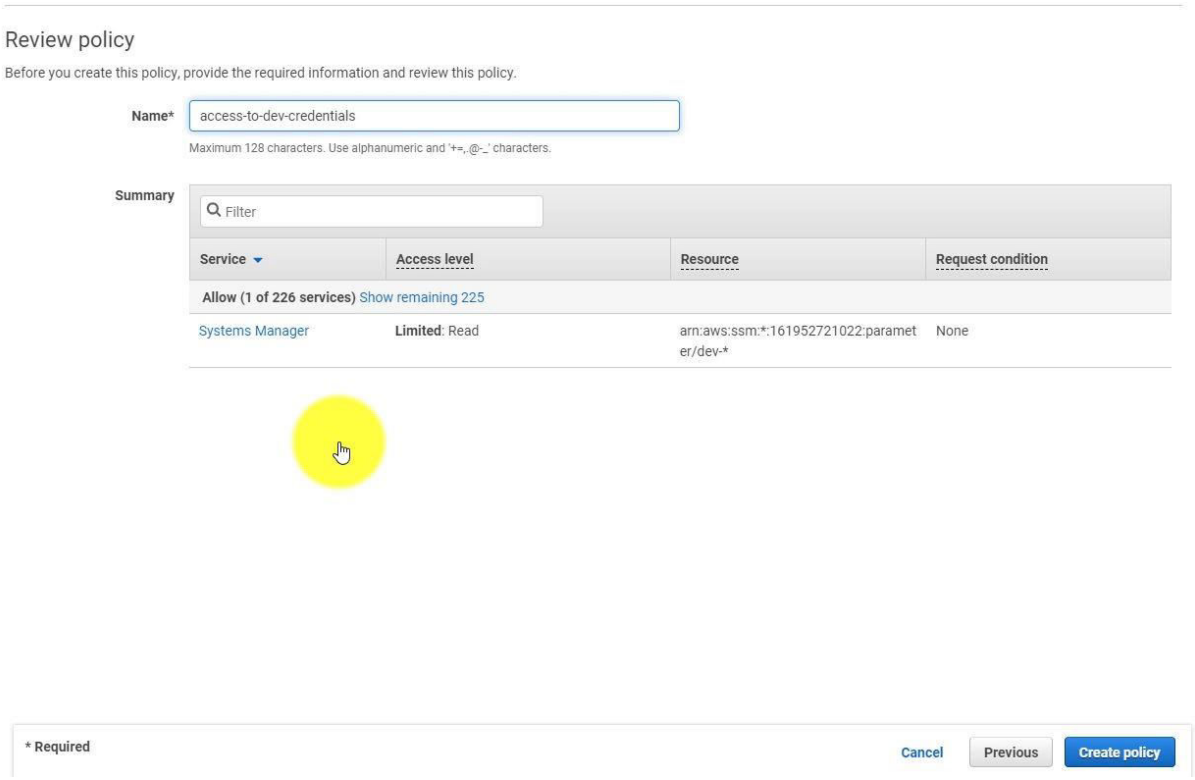
Then select action: Read, Get Parameter**s**:



As a resource select all “dev-*” parameters:



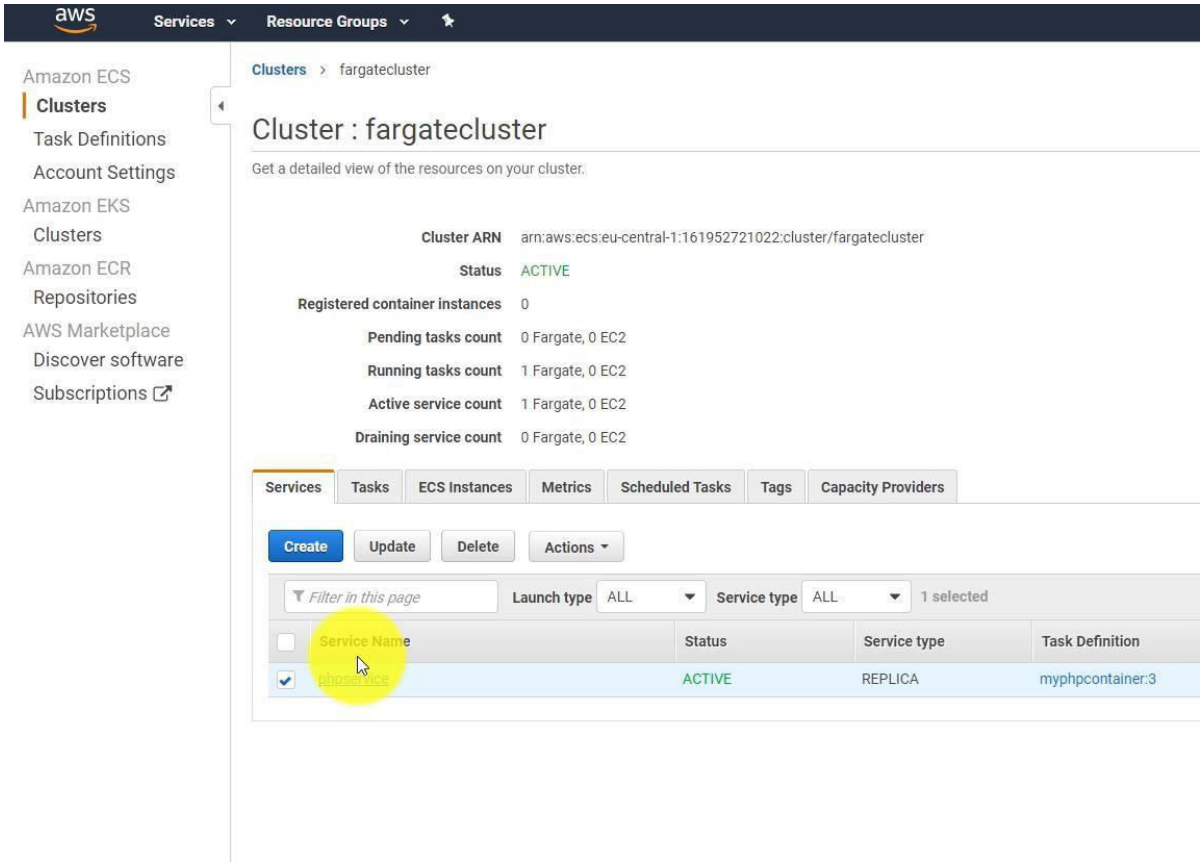
Then give the policy a name and create the policy:



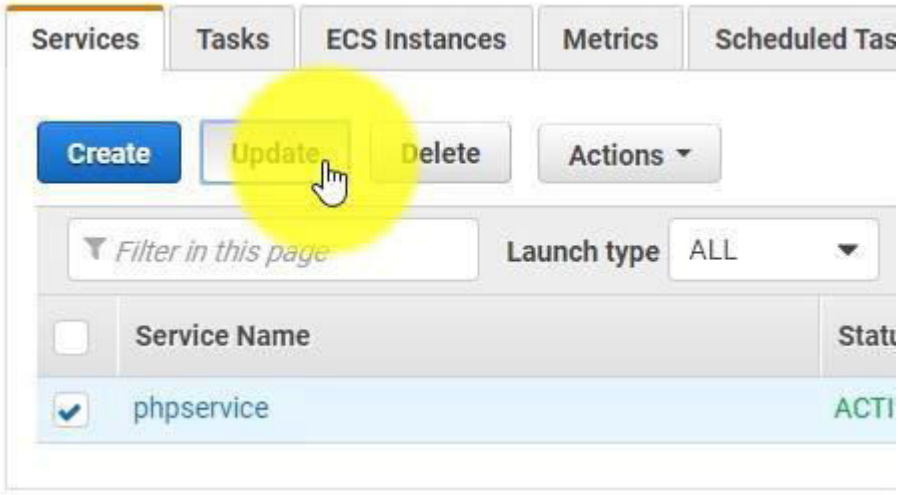
Update the Service

Now, in order to take effect, you have to update the service to your new TaskDefinition revision:

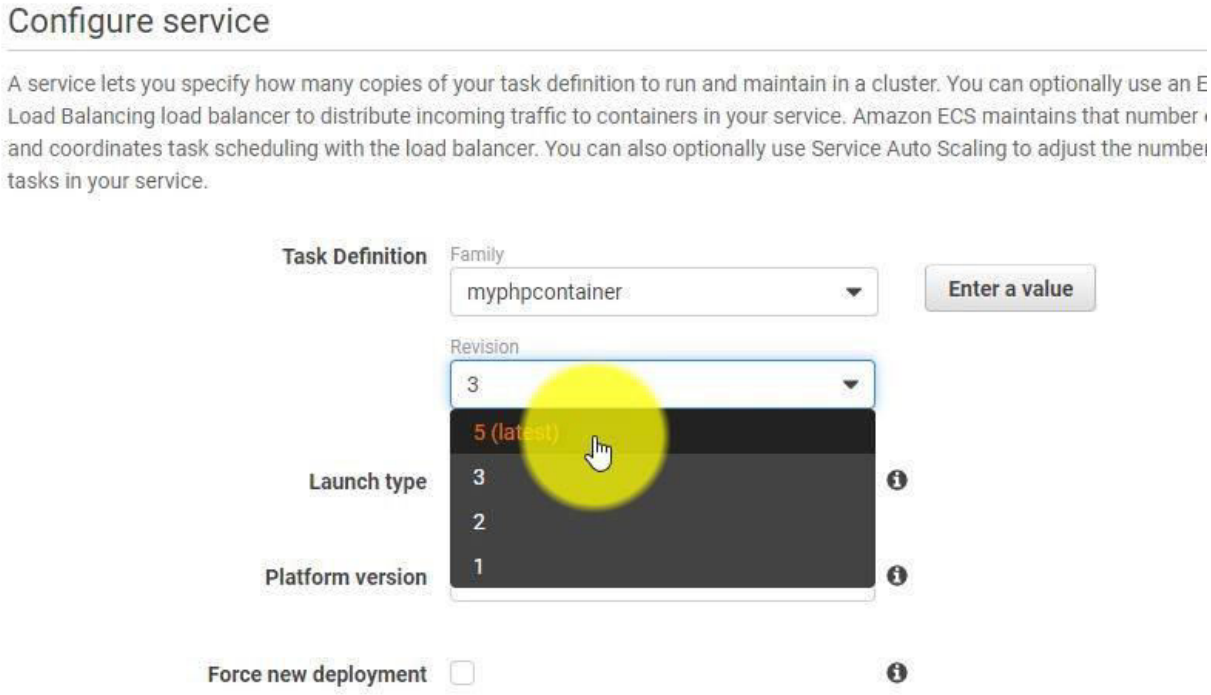
Go to your Fargate Cluster and select the php service:



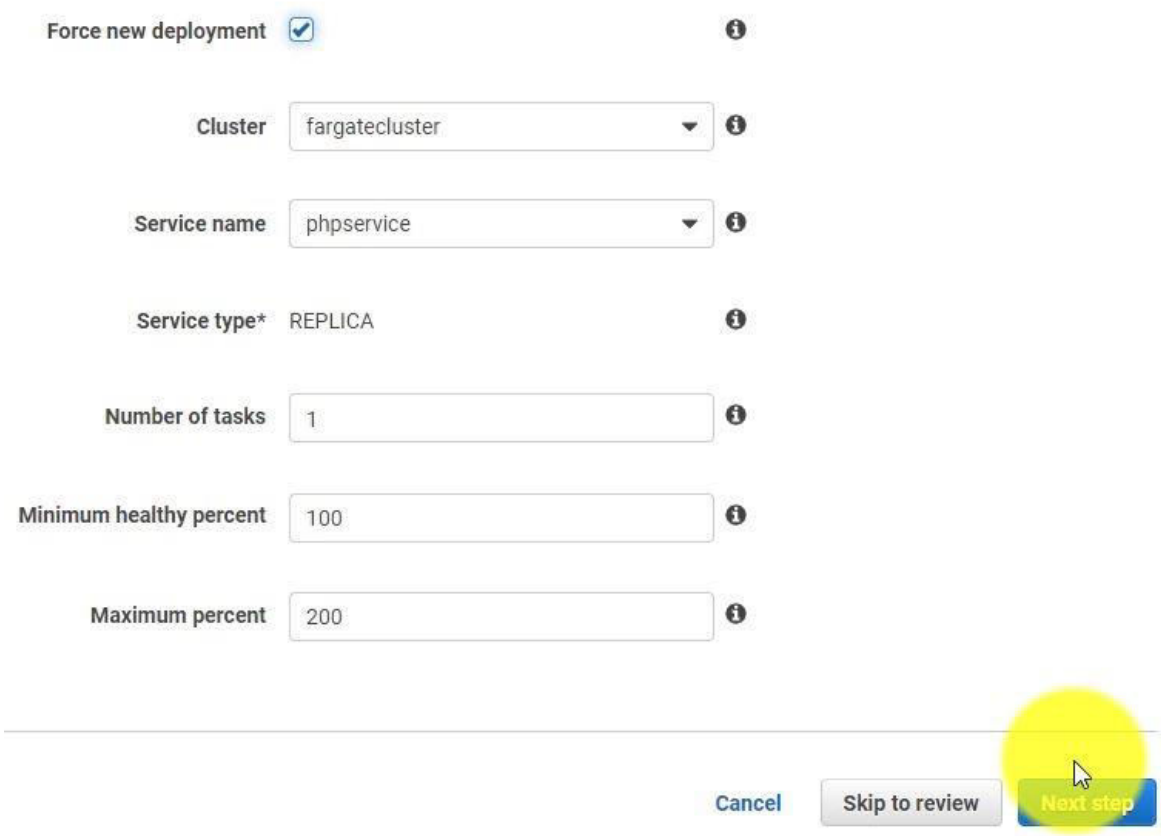
And then hit update:



And select the latest revision from the dropdown:

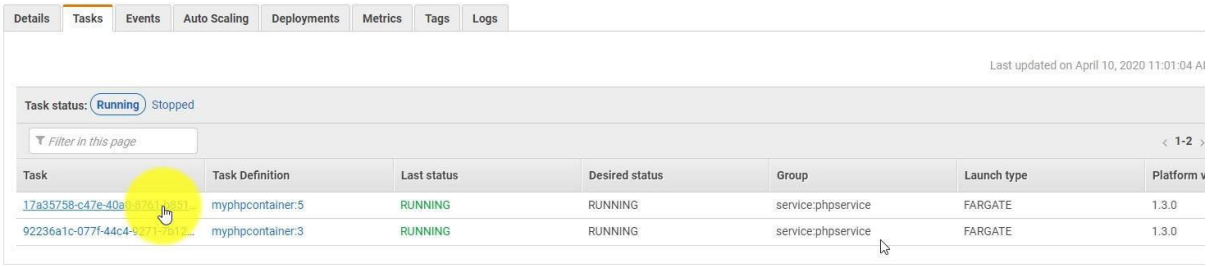


Force new deployment and run through the wizards:



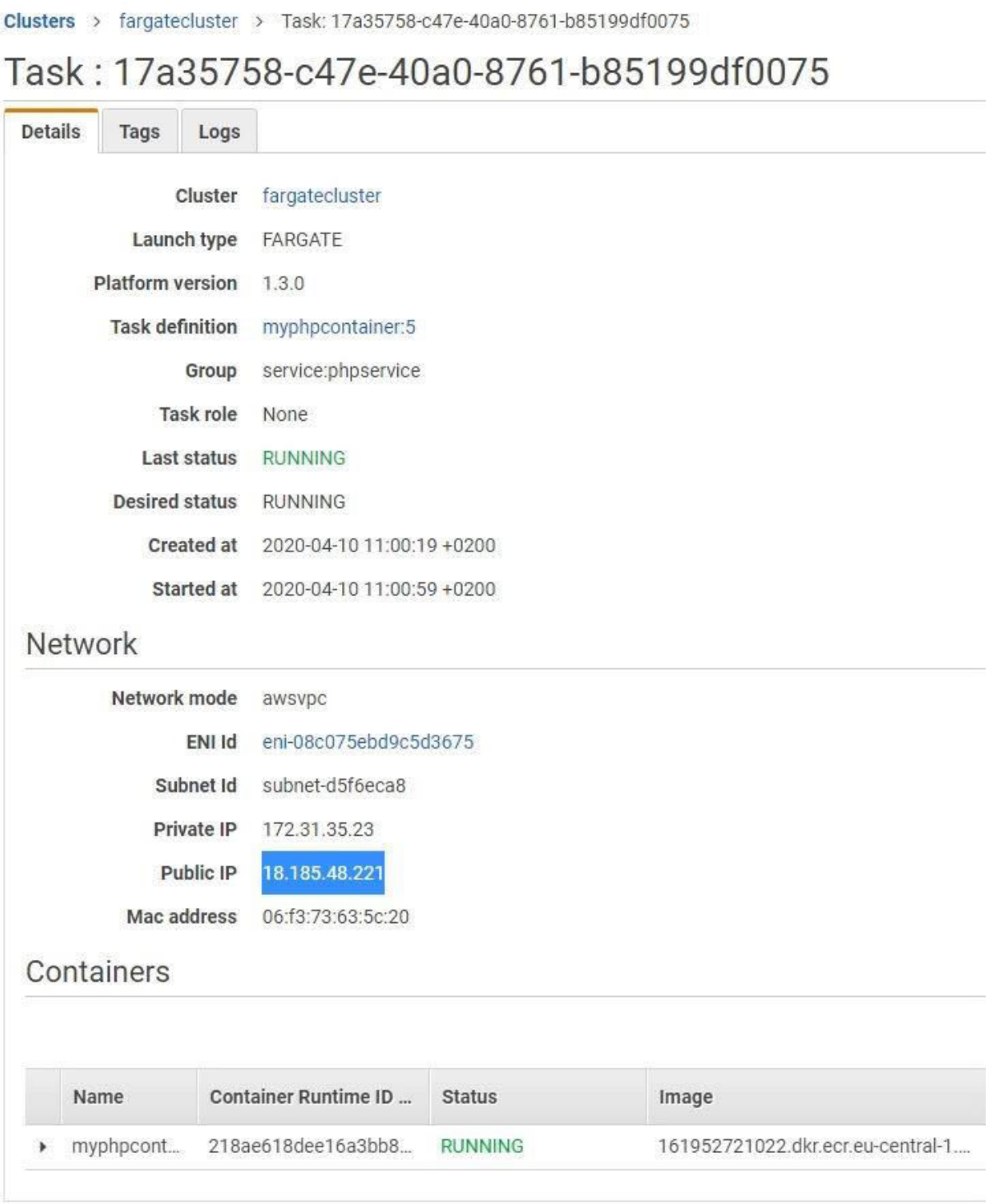
Wait until the new task comes up:

Now it's up:

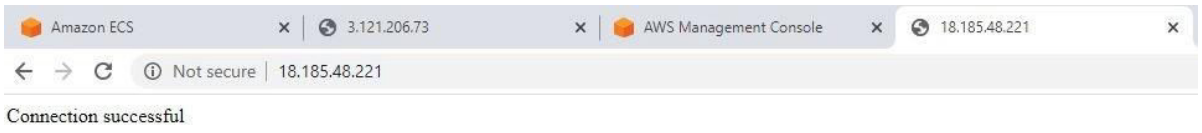


Check if the variables was injected properly:

Copy the IP address and open it in a new tab.



It should still show Connection successful:



Lab End
