**Lesson 10 Demo 5**

**Run Task on a Fargate Cluster**

**Objective:** To run a task on a Fargate Cluster

**Tools required:** An AWS account

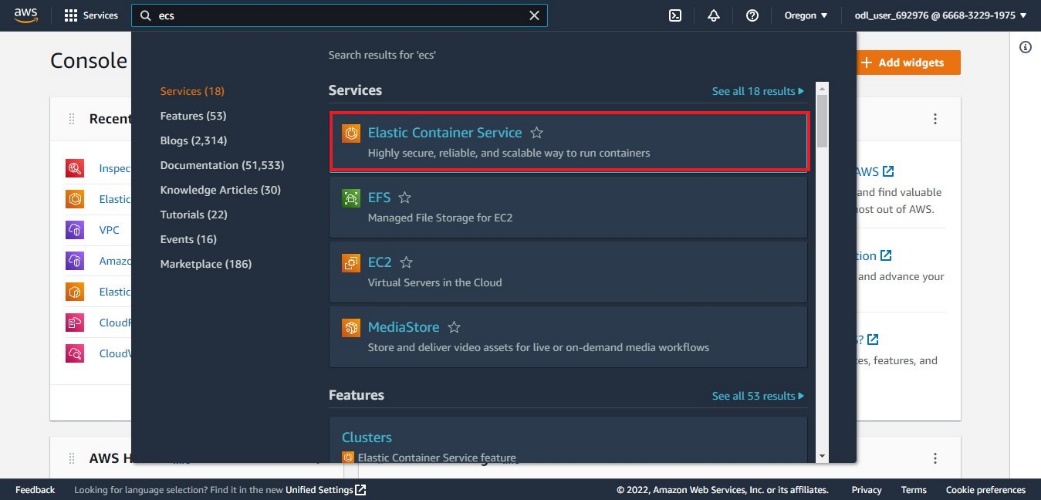
**Prerequisites: N/A**

Steps to be followed:

1. Create a Fargate Cluster
2. Create Task Definition
3. Run its Service

**Step 1: Create a Fargate Cluster**

* 1. In the AWS Management Console, search for ECS and select Elastic Container Service



* 1. On the left panel of the ECS console click on **Clusters** then click on **Create Cluster**

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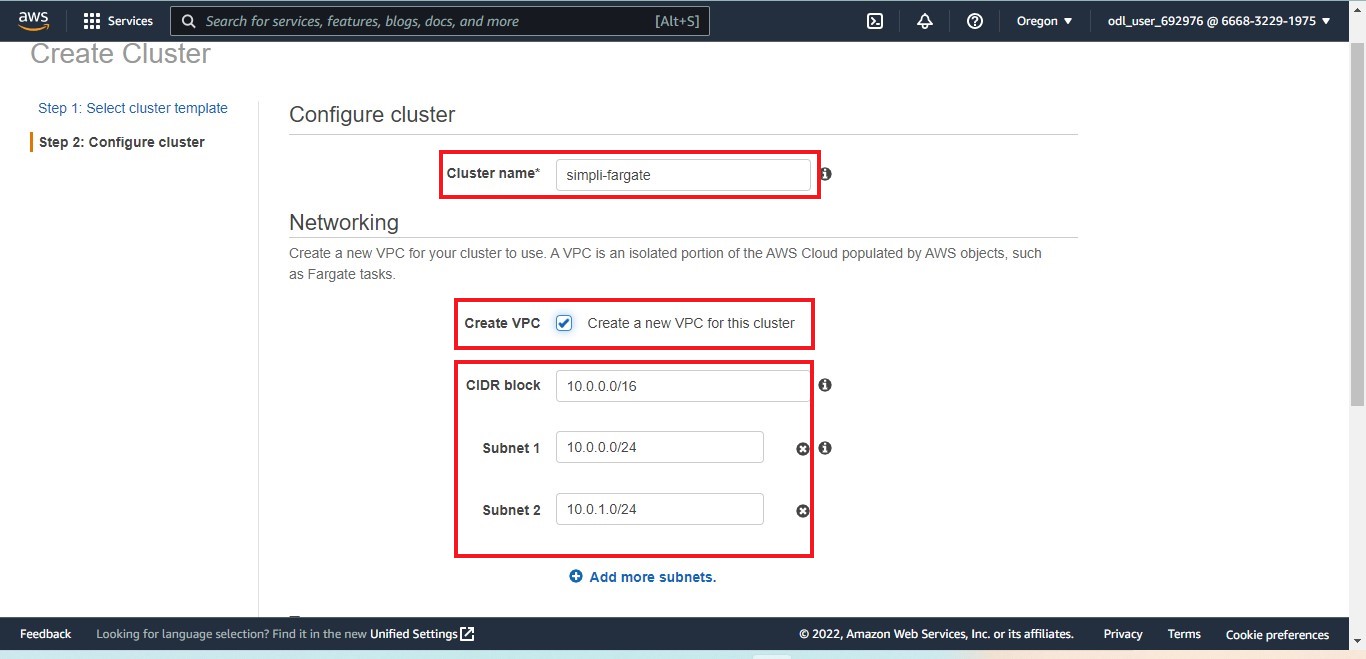
* 1. Choose **Networking Only**

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Click on Next Step

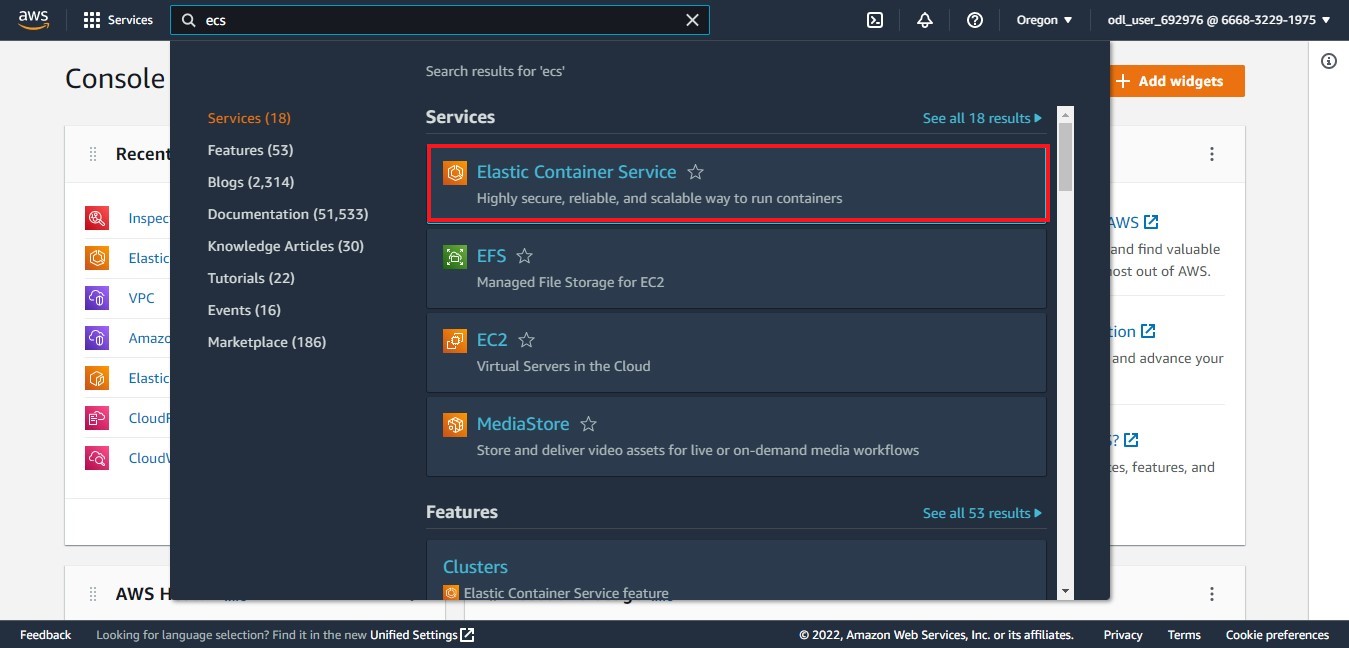
* 1. In the Cluster Configure window do the following:
* Enter an arbitrary name for Cluster under **Cluster Name**
* Check the box under **Create VPC**
* Let the other settings stay at default settings, then click on Create



Do not close this tab. It will be necessary for reference. ECS Cluster will be created.

**Step 2: Create Task Definition**

1. In the AWS Management Console search for **ECS** and select **Elastic Container Service**



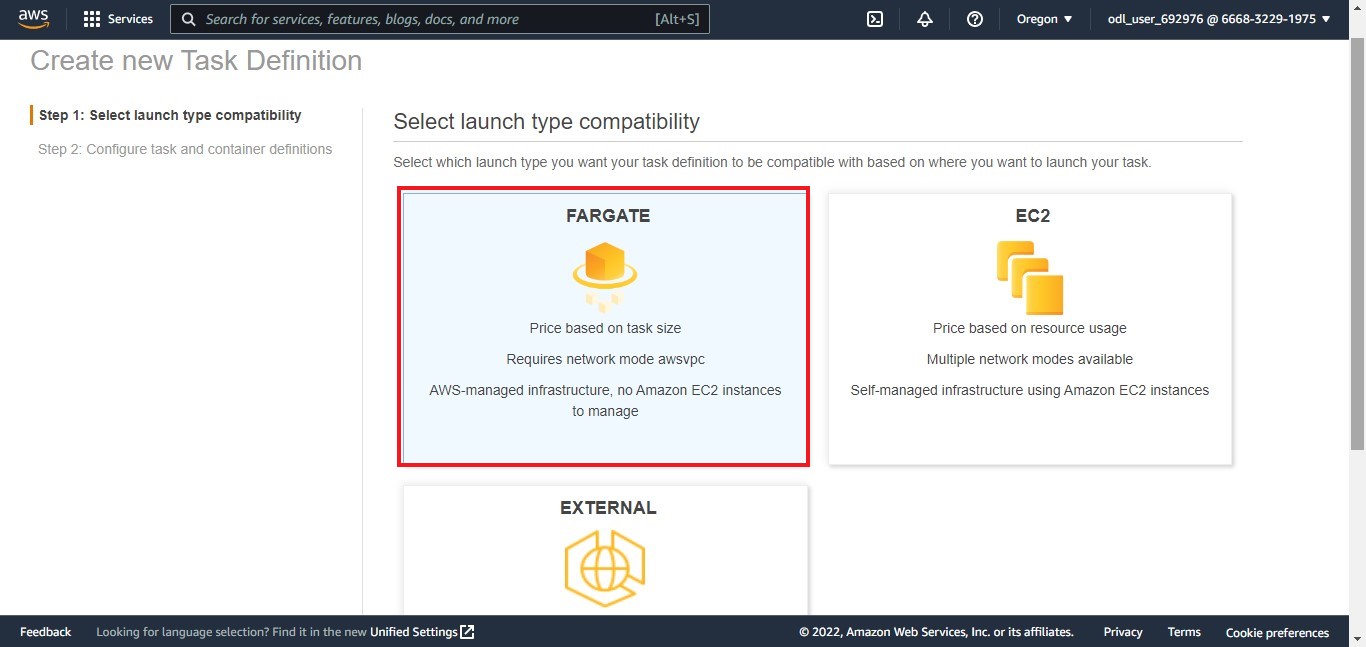
2.2 On the left panel of ECS console click on **Task Definitions** then click on **Create new Task**

**Definition**

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* 1. Choose **FARGATE** and click on **Next Step**

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* 1. Enter a name for the **Task Definition NameGraphical user interface, text, application

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  2. Scroll Down to **Task Size**. Under **Task memory** choose **0.5 GB** from the drop box and for

**Task CPU** choose **0.25 vCPU** thenclick on **Add Container**

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* 1. In the **Add Container window** do the following:
* Enter a **Container name**, and **image**
* Enter **Port** number as **80** and let the other settings be at default.
* Click on **Add**

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Click on **Create**

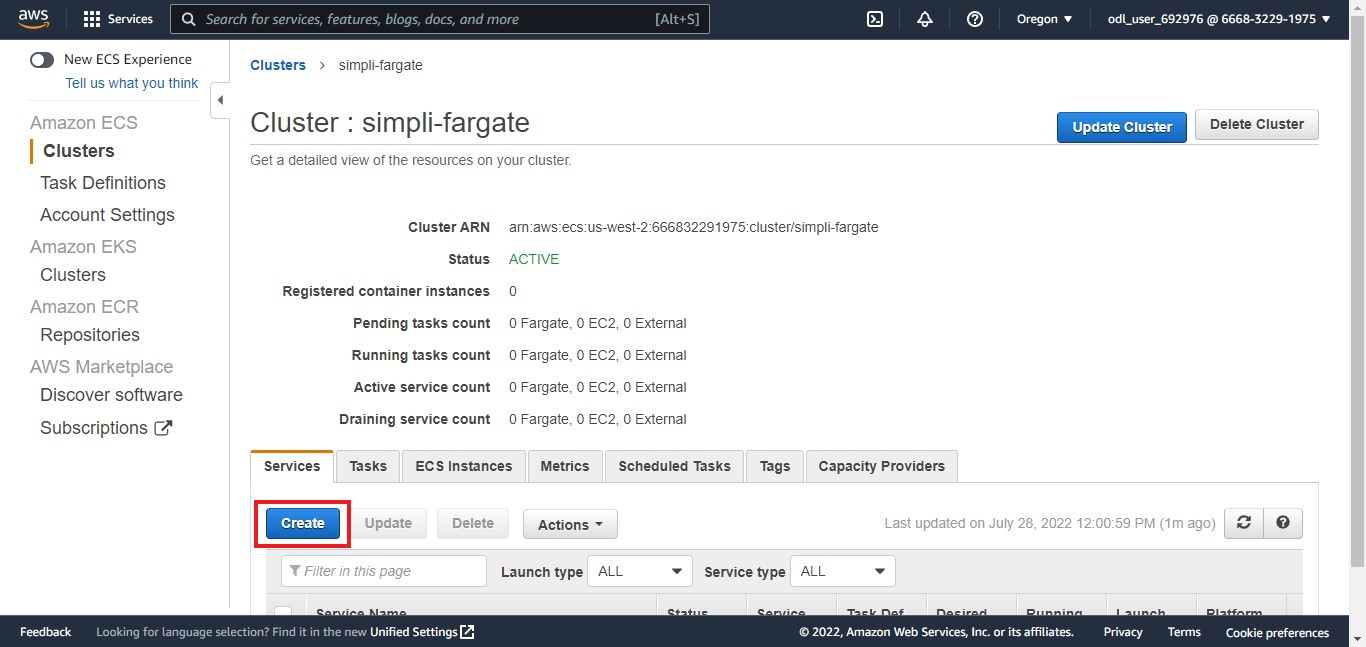
**Step 3: Run its Service**

1. Return to the **ECS** home page, and open the newly created cluster from **Clusters**

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1. Click on **Create** under **Services**



1. Choose **FARGATE** under Launch Type. Enter a service name and enter value **1** for the **Number of Services** Graphical user interface, application

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Keep other settings as default and click on Next Step

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1. Select the **VPC** and **Subnets** from the drop-down list. Refer to the VPC from the cluster formation page (refer to step number 1.6)Graphical user interface, text, application

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Keep the rest of the settings as default then click on **Next Step**

1. Select **Configure Auto Scaling** and enter the following data:

* **Minimum Number of tasks** as **1**
* **Desired number of tasks** as 1
* **Maximum Number of tasks** as **5**

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Enter a **Policy name** and set up the **Target value** as **60** then click on **Next Step**

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1. Click on **Create Service**

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1. Scroll down to the end of the page and click on **View Service**

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1. Click on the created cluster name and scroll down to copy its Public IP

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Description automatically generated 3.10 Paste the Public IP in another tab and press **Enter** on the keyboard. You can see the cluster is successfully made and the service is running properly.