CLOUD COMPUTING

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Platform as a Service

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Amazon ECS

1. Sign in to the AWS Management Console and open the Amazon ECS
2. Amazon ECR options, uncheck the box next to *Deploy a sample application onto an Amazon ECS Cluster* and select Continue
3. Review the default values and select Next Step

4a. Configure Service Options

- Service Name: The default *sample-webapp* is a web-based "Hello World" application provided by AWS. It is meant to run indefinitely, so by running it as a service, it will restart if the task becomes unhealthy or unexpectedly stops.
- Desired number of tasks: To stay within the AWS free tier, leave the default value of *1*. This will create 1 copy of your task.

4b. Elastic Load Balancing

- Container name: host port: select *Simple-app:80.*
- The default values for *ELB listener protocol, ELB listener port, and ELB health check* are set up for the sample application. For more information on load balancing configuration, see Service Load Balancing.

4c. IAM Role

- If you do not have a Service IAM Role already, Amazon ECS will create one named ecsServiceRole.
- If you have an existing Amazon ECS service role, select it from the dropdown

Review your settings and select Next Step.

5a. Configure Your Cluster

- Cluster name: Enter *sample-cluster.*
- EC2 instance type: The default *t2.micro* instance type will keep you within the free tier. Instance types with more CPU and memory resources can handle more tasks.

Amazon ECS

- Number of instances: Leave the default value of *1* to launch one Amazon EC2 instance to launch into your cluster for tasks to be placed on. The more instances you have in your cluster, the more tasks you can place on them.
- Key pair: A key pair is required to SSH into your instances later on. You can continue by selecting *None - unable to SSH,* selecting an existing key pair, or by creating one in the Amazon EC2 console

5b. IAM Role

- If you do not have an IAM role, the Amazon ECS wizard will create one for you.
- If you have an existing container instance IAM role, select it from the dropdown list.

Select Review and Launch

Select Launch instance & run service

Open Your Sample Application

- View Instances
- Copy the ELB DNS name.
- Paste it into a new browser window.
- Hit Enter on your keyboard to view the sample application

Clean up

- Navigate back to the Amazon ECS console page
- Click on the cluster name (sample-cluster).
- Select the checkbox next to *sample-webapp* and click Update
- Stop all tasks before Amazon ECS will delete a service
- Set the Number of tasks to *0* and select Update Service.
- After you update your service, select Delete.

Clean up

- Delete the Amazon EC2 instances that were launched with your cluster
- Delete your load balancers:
  - On the left panel, select Load Balancers.
  - Select the checkbox next to the load balancer you created for your service (it should start with *EC2Contai-EcsElast*).
  - Right click and select Delete

THANK YOU

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