**Sagemaker custom model deployment using containers**

To deploy a custom model with SageMaker it must be wrapped by [SageMaker’s Estimator class](https://sagemaker.readthedocs.io/en/stable/api/training/estimators.html" \t "_blank). This is done by creating a Docker image that interfaces with this class. Below are the steps to achieve this.

**Step 1- Write docker file**.

Docker file consists of packages in use, dependencies and entry points to execution files. You can put your scripts, algorithms, and inference code for your models in the containers, which includes the runtime, system tools, libraries and other code to deploy your models, which provides flexibility to run your own model.

*Format:*

Dockerfile is a simple text file(.txt) that consists of instructions to build Docker images.

*Syntax:*

command argument argument1...

*Example:*

To Print "Get Certified. Get Ahead"

Run echo "Get Certified. Get Ahead"

The specific commands you can use in a dockerfile are:

* FROM - Creates a layer from the ubuntu:18.04
* PULL - Adds files from your Docker repository
* RUN - Builds your container
* CMD - Specifies what command to run within the container
* ENTRYPOINT- allows specifying a command along with the parameters
* ADD- helps in copying data into a Docker image
* ENV- provides default values for variables that can be accessed within the container
* MAINTAINER- declares the author field of the images

![Text

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4REQRXhpZgAATU0AKgAAAAgABAE7AAIAAAAXAAAISodpAAQAAAABAAAIYpydAAEAAAAuAAAQ2uocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAEd1bGloYXIsIFByYWNoaSAoTUlORCkAAAAFkAMAAgAAABQAABCwkAQAAgAAABQAABDEkpEAAgAAAAM2NQAAkpIAAgAAAAM2NQAA6hwABwAACAwAAAikAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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ouwK32GP8AvP8AmKPsMf8Aef8AMVZoouwK32GP+8/5ij7DH/ef8xVmii7ArfYY/wC8/wCYo+wx/wB5/wAxVmii7ArfYY/7z/mKPsMf95/zFWaKLsCt9hj/ALz/AJij7DH/AHn/ADFWaKLsCt9hj/vP+Yo+wx/3n/MVZoouwK32GP8AvP8AmKPsMf8Aef8AMVZoouwK32GP+8/5ij7DH/ef8xVmii7ArfYY/wC8/wCYo+wx/wB5/wAxVmii7ArfYY/7z/mKPsMf95/zFWaKLsCt9hj/ALz/AJij7DH/AHn/ADFWaKLsCt9hj/vP+Yo+wx/3n/MVZoouwK32GP8AvP8AmKPsMf8Aef8AMVZoouwK32GP+8/5ij7DH/ef8xVmii7ArfYY/wC8/wCYo+wx/wB5/wAxVmii7ArfYY/7z/mKPsMf95/zFWaKLsCt9hj/ALz/AJij7DH/AHn/ADFWaKLsCt9hj/vP+Yo+wx/3n/MVZoouwK32GP8AvP8AmKPsMf8Aef8AMVZoouwK32GP+8/5ij7DH/ef8xVmii7ArfYY/wC8/wCYo+wx/wB5/wAxVmii7ArfYY/7z/mKPsMf95/zFWaKLsCt9hj/ALz/AJij7DH/AHn/ADFWaKLsCt9hj/vP+Yo+wx/3n/MVZoouwK32GP8AvP8AmKPsMf8Aef8AMVZoouwK32GP+8/5ij7DH/ef8xVmii7ArfYY/wC8/wCYo+wx/wB5/wAxVmii7ArfYY/7z/mKKs0UXYH/2Q==)

**Step 2- Build the docker image.**

It comprises of all project files including docker file, requirements.txt, run.sh, execution .py files. Image is built using docker build command in Docker desktop application. Docker containers are created from images that are saved in a local repository. Images are built from scripted instructions provided in a Dockerfile. To build a local image, use the following command.

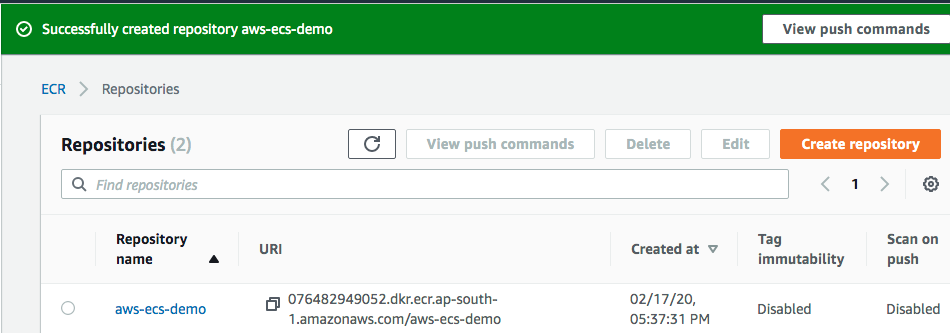
docker build <image-name>

Amazon ECR supports the following container image manifest formats: Docker Image Manifest V2 Schema 1 (used with Docker version 1.9 and older), Docker Image Manifest V2 Schema 2 (used with Docker version 1.10 and newer) and Open Container Initiative (OCI) Specifications (v1.0 and up).

**Step 3- Push this docker image to ECR**

This is done using push command from Docker desktop application. These 3 steps are happening in cell[3] of Train with Docker notebook using AWS CLI. Once your model image has been created and it works locally, for SageMaker to be able to access it, it must be stored in AWS Elastic Container Registry (ECR).

* Go to [AWS ECR](http://aws.amazon.com/ecr) and click “Get Started”. Click “Create repository” in orange.
* Enter a name that represents your model under “Repository name”. And then “Create repository” again. You don’t need to change any of the other options.
* Then select the new repo and click “View push commands” and run them. At this point, you should have a working Docker image for your model and have stored it in the registry.



**Step 4-** **Refer to this ECR repository from Sagemaker notebook**

In this step, we refer to this ECR repository from Sagemaker notebook like in cell[1] of Single\_model\_endpoint notebook and cell[5] of Train with Docker notebook in AI-ML team account.

* First, we are going to deploy our model with [SageMaker](http://aws.amazon.com/sagemaker/" \t "_blank). Create a new notebook instance (or use an existing one). You can use the default settings, and set a name. Upload this [notebook](https://github.com/maxbren/aws-custom-docker-model-deploy-front-end/blob/master/deploy-custom-model.ipynb) from my repo. The only thing that needs to be set is the docker\_image\_name variable, to the name of your registered docker image. It can be found in ECR under “repositories” as the URI followed by the following functions.
* .Estimator()- Create the estimator which takes many arguments. The one that can be changed based on your needs is train\_instance\_type. This is the AWS cloud compute instance that will be used to train the model when fit is called. m1.m4.xlarge seems to be the least expensive one allowed for training.
* .fit()- Next, we call fit to train the model. This runs the train script in the docker image model directory. **You will need to call fit even if the model’s only purpose is inference.**
* .deploy()- Finally, we make the endpoint by deploying the model. endpoint\_name should be something recognizable.

**Note:** Kubernetes/ECS(Container deployment service) is used for deployment of container to EC2 machine, here Sagemaker will only refer to container Image stored in ECR(Container image storage service).

**Relevant Links:**

[How to Create and Deploy Custom Python Models to SageMaker (predictifsolutions.com)](https://www.predictifsolutions.com/tech-blog/how-to-custom-models-sagemaker/)

[Deploying a Custom Docker Model with SageMaker to a Serverless Front-end with S3 | by Max Brenner | Towards Data Science](https://towardsdatascience.com/deploying-a-custom-docker-model-with-sagemaker-to-a-serverless-front-end-with-s3-8ee07edc24e6)

[Deploy a custom Machine Learning Model with AWS Sagemaker | by Naresh Reddy | Analytics Vidhya | Medium](https://medium.com/analytics-vidhya/deploy-your-own-model-with-aws-sagemaker-55b4234be4a)

<https://sagemaker-immersionday.workshop.aws/lab3.html>

[How to create a docker image and deploy it using ECR & ECS? | by Vivek Navadia | Medium](https://medium.com/@viveknavadia/how-to-create-docker-images-and-deploy-it-using-ecr-ecs-943e8bfc6c94)

**Reference for Hands-on:**

[Using Custom Algorithms :: Amazon SageMaker Workshop (sagemaker-workshop.com)](https://sagemaker-workshop.com/custom.html)