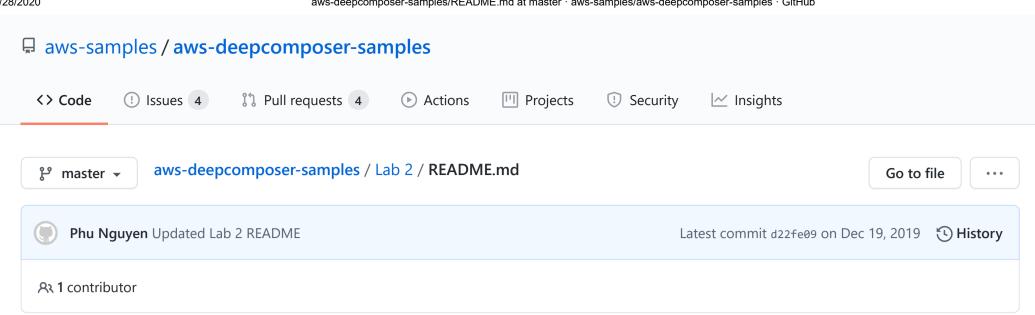
Raw

Blame



# Lab 2 - Train a custom GAN model

### ⊘ Goal

As part of this lab, you will learn to build a custom GAN architecture and train the model using Amazon SageMaker.

## **Prerequisites**

88 lines (43 sloc) | 2.57 KB

Access to Amazon SageMaker

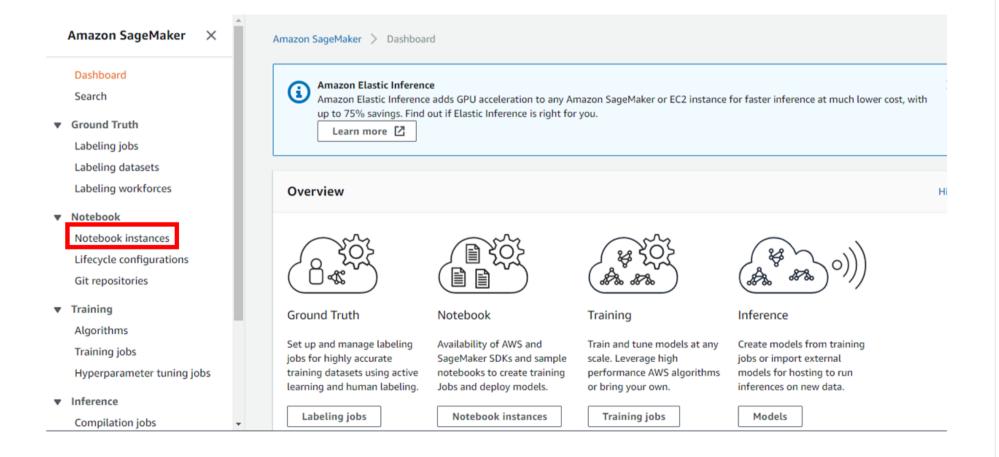
### Cost

Using a ml.c5.4xlarge, the entire exercise take 3-4 hrs to run. Please see the Amazon SageMaker pricing for details.

### Setup

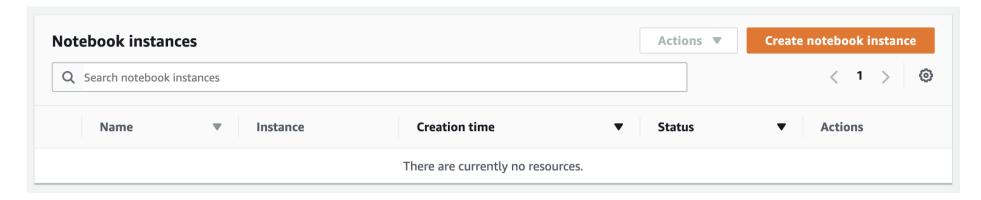
First we create the Amazon SageMaker notebook instance.

Navigate to Amazon SageMaker using the link: https://console.aws.amazon.com/sagemaker/home?region=us-east-1#/dashboard

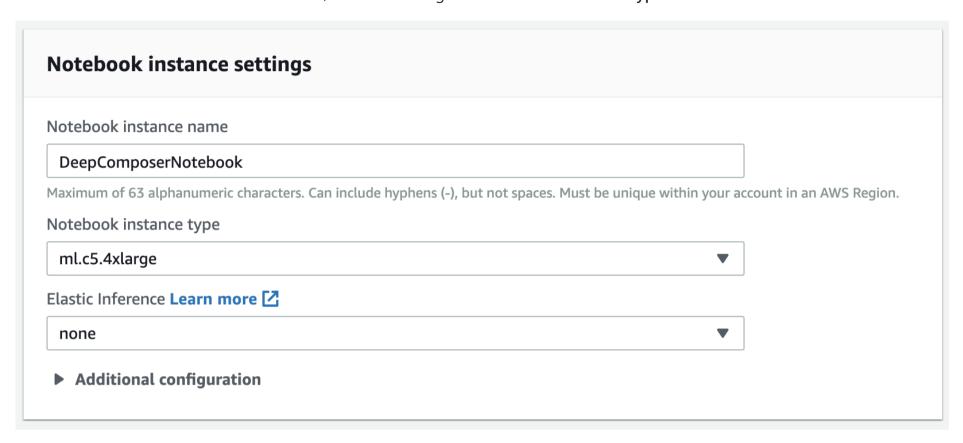


Click Notebook instances from the left navigation bar

#### Select Create notebook instance

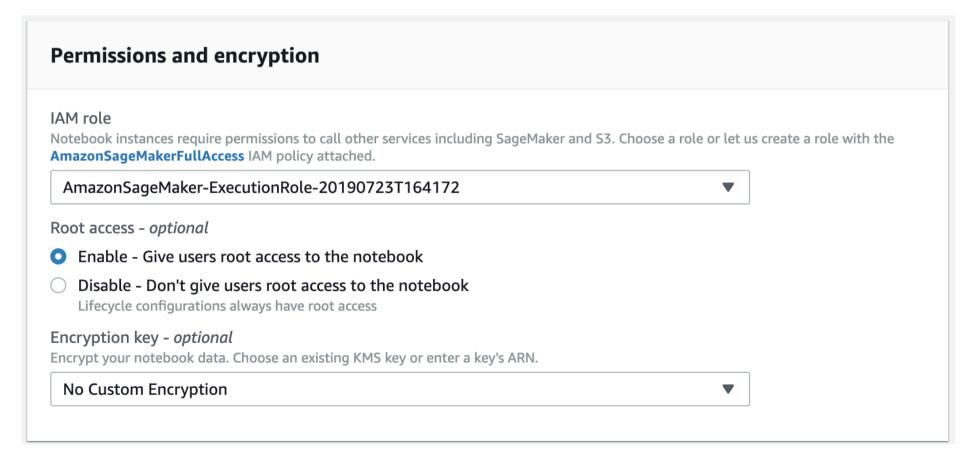


Within the notebook instance creation form, select "c5.4xlarge" for Notebook instance type



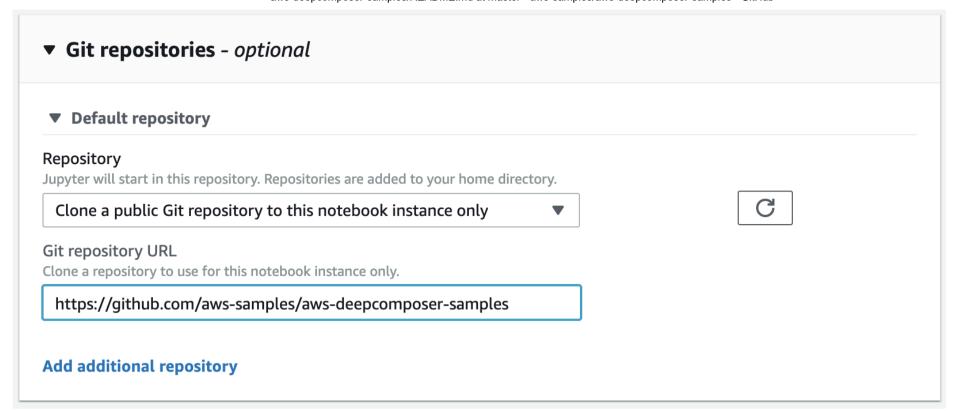
Set the following for **Permissions and encryption**:

- IAM role: Use an existing role or create a new role
- Root access: Enable
- Encryption key: No Custom Encryption

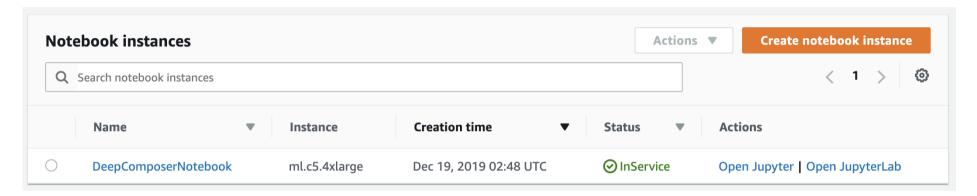


Set the following for **Git repositories**:

- Repository: Clone a public Git repository to this notebook instance only
- Git repository URL: https://github.com/aws-samples/aws-deepcomposer-samples



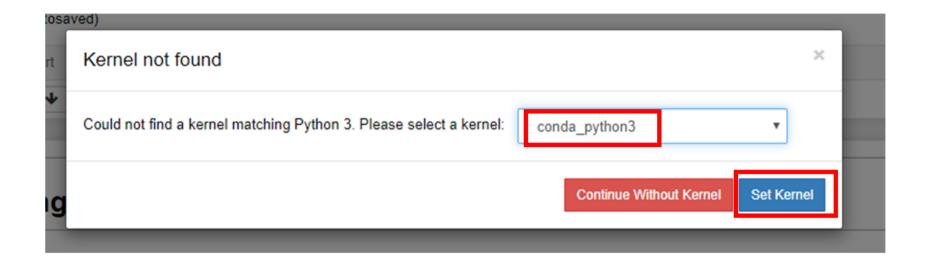
### Click Open Jupyter



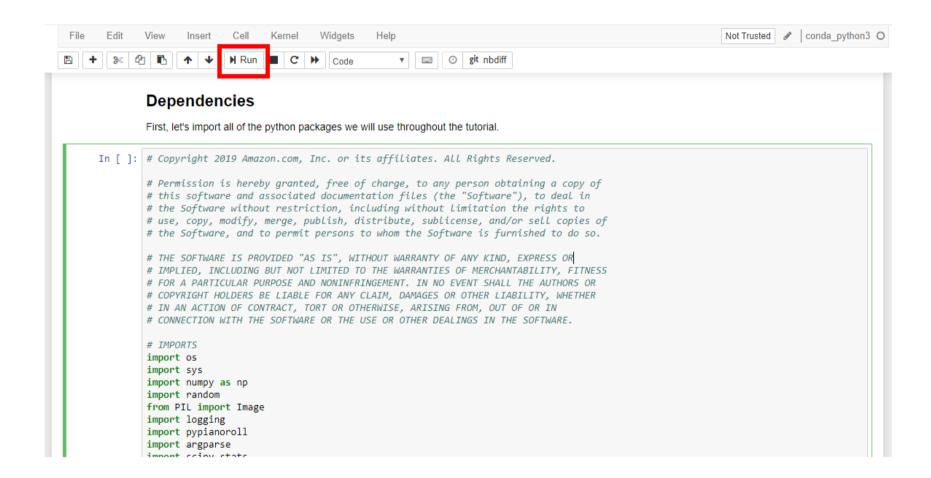
#### Click Lab 2 folder, then click GAN.ipynb



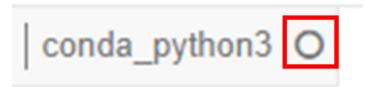
You will likely be prompted to select kernel. Choose the drop down and select conda\_python3 as the kernel



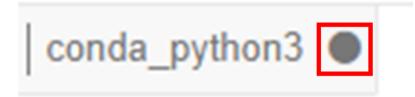
This notebook contains instructions and code to create a custom GAN model from scratch. Follow the notebook content and run all cells to the end.



To run the code cells, choose the code cell you want to run and click Run



If the kernel has an empty circle, it means it is free and ready to execute the code



If the kernel has a filled circle, it means it is busy. Wait for it to become free before you execute the next line of code.

# **Next Steps**

Congratulations on building a custom GAN model from scratch!

Now try using your model to create compositions based on your custom MIDI input.

Important: Remember to stop your Amazon SageMaker instances after you're done to avoid extra charges

