

AWS SageMaker, AI, ML

House Keeping

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Account Setup

- [Sign-up](#) for new AWS Account (if you don't have one)
- New Accounts are eligible for 12 months [free tier of selected services](#)
- New Accounts are eligible for 2 months of [SageMaker Free tier](#)
 - 250 hours per month of t2.medium Notebook instance
 - 50 hours per month of m4.xlarge for training
 - 125 hours per month of m4.xlarge for hosting

User Accounts

Account/User	Purpose
Root Account <i>(Highest Privilege)</i>	Responsible for paying bills. Signup at https://aws.amazon.com/ Requires Email ID / Password
my_admin <i>(Higher Privilege)</i>	<p>IAM Admin User for administrative tasks across all AWS services.</p> <p><u>IAM Account Sign-in Link</u> <a href="https://<AccountId>.signin.aws.amazon.com/console">https://<AccountId>.signin.aws.amazon.com/console <a href="https://<Alias>.signin.aws.amazon.com/console">https://<Alias>.signin.aws.amazon.com/console</p>
ml_user <i>(Service Specific Privilege)</i>	IAM User Account that has necessary privileges for SageMaker, AWS Machine Learning, S3 and Billing Read Access
ml_user_predict <i>(Limited Privilege)</i>	IAM User Account with limited privileges to run only predictions

Billing Dashboard

[Enable Access to Billing Data](#) for IAM Users

[Enable Billing Alerts](#)

Setup AWS CLI

- Install [AWS CLI](#) on your laptop/computer
- Used later for demonstrating invocation of prediction service from outside of AWS
- Configure CLI with ml_user_predict
`aws configure --profile ml_user_predict`

Customize Sign-in URL

- IAM Users use a different URL for signing-in
- You can optionally customize the URL with Alias

`https://<AccountId>.signin.aws.amazon.com/console`

`https://<Alias>.signin.aws.amazon.com/console`

Install Boto3 and SageMaker SDK

To invoke SageMaker Endpoints from python clients outside of AWS:

1. Anaconda [Boto3 Install Steps](#)

```
conda install -c anaconda boto3
```

2. SageMaker [SDK Install Steps](#)

```
pip install sagemaker
```