AWS Housekeeping

Account Setup, Support

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Hands-on Experience

"Gain free, hands-on experience with the AWS platform, products, and services."

https://aws.amazon.com

Three Types of Offers

- Always Free
- 12 months free and
- Trials

https://aws.amazon.com/free

https://aws.amazon.com/free/free-tier-faqs/

Billing

You are billed standard pay-as-you-go rates when -

- Usage exceeds free tier limits or
- Term expires

AWS requires a Credit or Debit card to sign-up for an account

Billing

Billing Alerts

Dashboard

- Free-Tier usage

- Monthly Charge Summary

- Itemized charges

- Past Bills and Usage

Free Support Center

- Account Issues
- Billing Enquires
- Service Limit Changes

- Technical Support – Part of paid plans

Service Quotas

Amazon SageMaker quotas for new accounts might be different from the default quotas listed here. If you receive an error that you've exceeded your quota, contact customer service to request a quota increase for the resources you want to use.

On-demand and Spot instance quotas are tracked and modified separately. For example, with the default quotas, you could run up to 20 training jobs with on-demand ml.m4.xlarge instances and up to 20 training jobs with Managed Spot ml.m4.xlarge instances simultaneously. Request quota increases for on-demand and spot instances separately.

Amazon SageMaker Notebooks

Resource	Default
ml.t2.medium instances	20
ml.t2.large instances	20

https://docs.aws.amazon.com/general/latest/gr/aws_service_limits.html
https://docs.aws.amazon.com/general/latest/gr/sagemaker.html

Billing Alert - Best Practices

- Enable billing access to authorized users in your account

- Configure Free Tier Alerts

- Enable billing data collection for CloudWatch monitoring

- Configure Billing Alarms with CloudWatch

- Configure AWS Budget

User Accounts

Account/User	Purpose
Root Account (Highest Privilege)	Responsible for paying bills. Sign-in at https://aws.amazon.com/ Enable MFA
myadmin	IAM User with administrative access Sign-in Link https://<AccountId>.signin.aws.amazon.com/console https://<Alias>.signin.aws.amazon.com/console

MFA Setup

Recommended for root account

Login credentials + one-time passwords
- Google Authenticator App or similar

AWS Command Line Interface (CLI)

- Install [AWS CLI](#) in your laptop

- Used later for demonstrating invocation of prediction service from outside of AWS

- Configure CLI with myadmin

  aws configure --profile myadmin

- Verify Access – List S3 Buckets in your account

  aws s3 ls --profile myadmin

- [AWS Regions](#)

Secure Login Key Pairs

- [EC2 uses public key cryptography](#) for login
- When you launch the instance, you need to provide the public key
- Maintain the private key (remains with you) in a secure location
- You need the private key to logon to the system using SSH. Linux instances do not have a password
- For Windows instances, you need private key to decrypt the administrator password and then logon using RDP
- EC2 uses 2048 bit SSH-2 RSA keys

Housekeeping - EC2 Linux Instance

- Keypair Setup

- [How to connect to EC2 instance](#)

- Download Putty (for Windows client)

- Use Puttygen to Extract Public, Private Keys

- Connect to EC2 from Putty

  - ec2-user@<IP Address or DNS Name>

Summary

Account Setup

Types of free offers

Billing Dashboard and Alerts

Support

IAM Users

Chandra Lingam

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https://www.cloudwavetraining.com/