Introduction



Tidal Basin: Access and Run the Python Data Extraction Jupyter Notebook

Introduction

In this tutorial, we will cover the steps necessary to access the Tidal Basin EC2 machine in AWS and navigate to the Python Data Extraction jupyter notebook. The notebook will walk you through the steps of creating an SQL query, connecting to the PostgreSQL database hosted on in AWS RDS, converting that query to a pandas table, then uploading that data to an S3 Bucket.

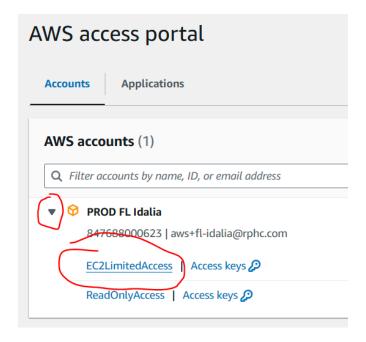
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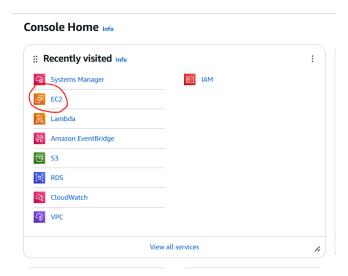
1: Access the EC2 Environment Through AWS

Logon to the AWS EC2LimitedAccess Environment:

- Go to the AWS Access Portal <u>here</u>
- Select the drop down arrow and select EC2LimitedAccess



o On the main landing page, select EC2

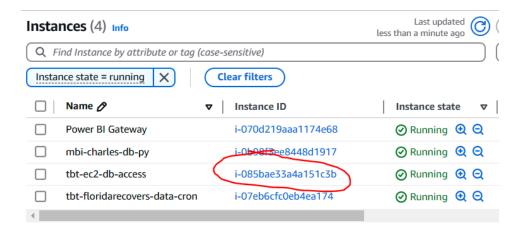


Select Instances (running)

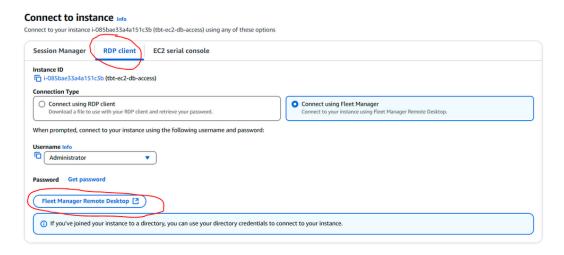
Resources



 Select the instance labeled tbt-ec2-db-access by selecting the Instance ID next to the name



- Select Connect
- Select RDP Client
- Select Connect using Fleet Manager
- Select Fleet Manager Remote Desktop

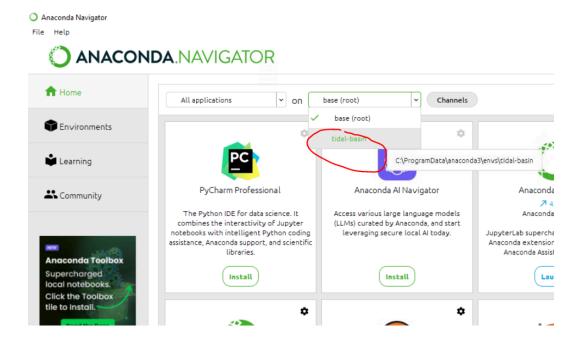


- Sign in using the username and password credentials
 - Username: Administrator
 - Password: %=dNFybpf(c0s-0nMq896&P4A.KQAJKQ
- Select Connnect

2: Open Anaconda and Select the Tidal Basin Environment

Open Anaconda Navigator and open the tidal-basin environment

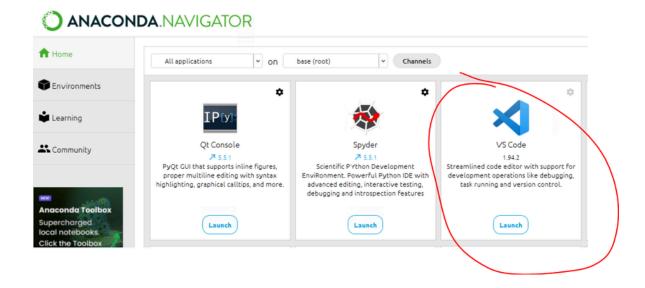
- Search for and open Anaconda Navigator application on the EC2 machine desktop
- Once on the application, locate in the top of the application where it says base (root) and select the dropdown arrow
- Select the option that says tidal-basin



3: Open Visual Code Studio on Anaconda Navigator

Open VS Code:

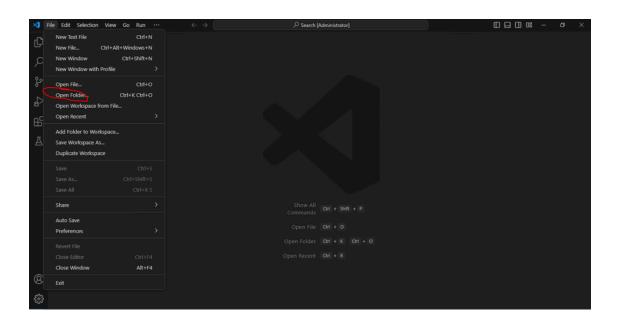
- When on the tidal-basin environment, scroll down the application placards till you see VS Code
- Select Launch

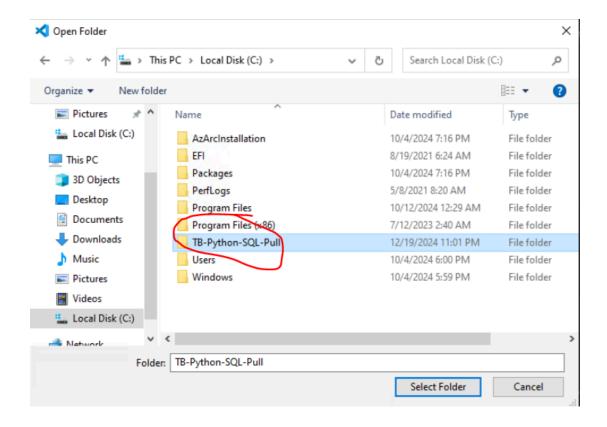


4: Open TB-Python-SQL-Pull Folder

Open the Notebook Folder:

- While in VS Code, navigate to the top toolbar and select File, then Open Folder
- Select Launch
- Select the Local Disk (C:)
- Select the folder TB-Python-SQL-Pull





5: Open the Data Extraction Notebook

Open the Data Extraction Notebook:

- Back in VS Code, look in the folder on the left hand side and find the file named
 Data Extraction Transformation and Loading PostgreSQL to AWS S3.ipynb
- o Click to open, begin running cells to complete SQL Pulls

