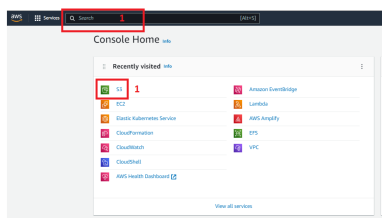


Dashboards are proven and effective ways to portray our data. AWS has also got a product that can provide a dashboard from the data hosted in its S3 bucket. I followed Lucy Wang (@techwithlucy is her youtube channel) to learn about this fantastic service from AWS.

The first step in the project is to extract a dataset for the dashboard. Also, a manifest file is required for the project in order to link to the data stored in the S3 bucket and create the QuickSight dashboard.

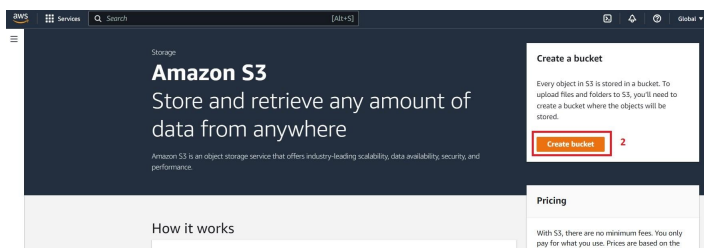
This project is straightforward and fairly easy to complete. Follow the below steps and you can understand how to build the dashboard:

Navigate to the S3 service in the AWS console (You can either search this service from the "Search bar" or if you have used this service previously, it will appear under the "Recently Visited" tab.)



No alt text provided for this image

Create a bucket with a unique name. I created one using the "Create Bucket" option and then with the name "quicksightsdemobucket1".



create bucket [info](#)

Buckets are containers for data stored in S3. [Learn more](#)

General configuration

Bucket name quicksightdemobucket1 2

Bucket name must be globally unique and must not contain spaces or uppercase letters. See rules for bucket naming.

AWS Region

US East (N. Virginia) us-east-1

Copy settings from existing bucket - optional

Only the bucket settings in the following configuration are copied.

[Choose bucket](#)

Object Ownership [info](#)

Control ownership of objects written to this bucket from other AWS accounts and the use of access control lists (ACLs). Object ownership determines who can specify access to objects.

☐ **ACLs disabled (recommended)**

All objects in this bucket are owned by this account. Access to this bucket and its objects is specified using only policies.

☒ **ACLs enabled**

Objects in this bucket can be owned by other AWS accounts. Access to this bucket and its objects can be specified using ACLs.

Object Ownership

[Bucket owner enforced](#)

While creating the bucket, make sure to enable the "ACLs enabled" option. Uncheck the "Block All Public Access". Agree to the terms and conditions by checking the "I acknowledge ..." box under the block all public access setting.

Block Public Access settings for this bucket

Public access is governed by bucket and object-level access control lists (ACLs), bucket policies, access point policies, or all. In order to ensure that public access to this bucket and its objects is blocked, turn on Block all public access. These settings apply only to this bucket and to access points. AWS recommends that you turn on Block all public access, but before applying any of these settings, ensure that your applications will work correctly without public access. If you require some level of public access to this bucket or objects within, you can customize the individual settings below to suit your specific storage use case. [Learn more](#)

☒ **Block all public access** uncheck this option for public access

Turning this setting on is the same as turning on all four settings below. Each of the following settings are independent of one another.

- ☒ **Block public access to buckets and objects granted through new access control lists (ACLs)**
- S3 will block public access permissions applied to newly added buckets or objects, and prevent the creation of new public access ACLs for existing buckets and objects. This setting doesn't change any existing permissions that allow public access to S3 resources using ACLs.
- ☒ **Block public access to buckets and objects granted through any access control lists (ACLs)**
- S3 will ignore all ACLs that grant public access to buckets and objects.
- ☒ **Block public access to buckets and objects granted through new public bucket or access point policies**
- S3 will block new bucket and access point policies that grant public access to buckets and objects. This setting doesn't change any existing policies that allow public access to S3 resources.
- ☒ **Block public and cross-account access to buckets and objects through any public bucket or access point policies**
- S3 will ignore public and cross-account access for buckets or access points with policies that grant public access to buckets and objects.

Click on the "Create bucket" option to create the bucket.

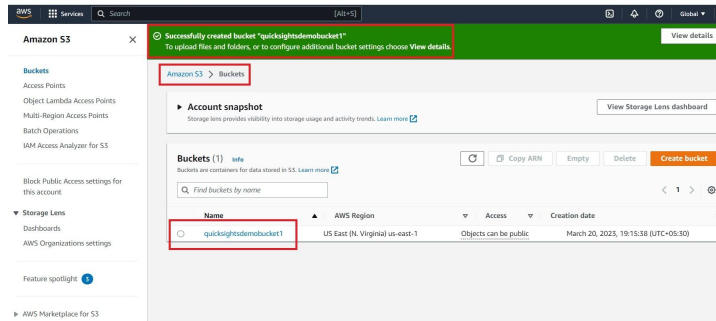
Advanced settings

[info](#)

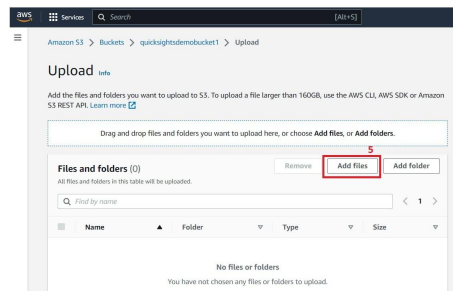
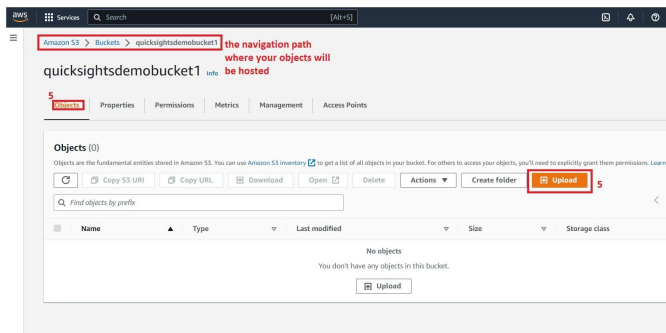
After creating the bucket you can upload files and folders to the bucket, and configure additional bucket settings.

[Cancel](#) Create Bucket 4

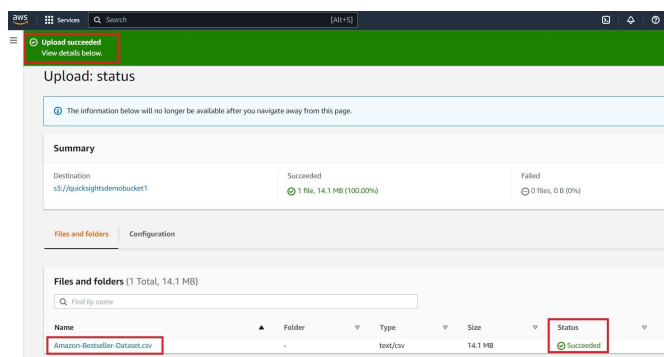
If the bucket is created without issues, it will appear on the S3 console as shown below. Else, it will point you to the error point and we can modify the same.



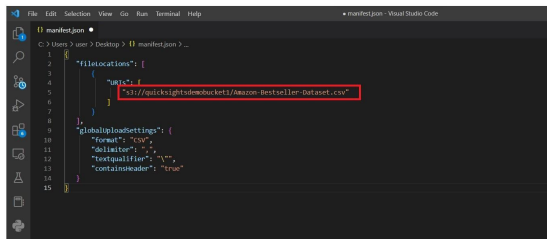
Click on the bucket created and it takes you to the next step where you can now add files.



Once the objects are added, it will show the successful message as below

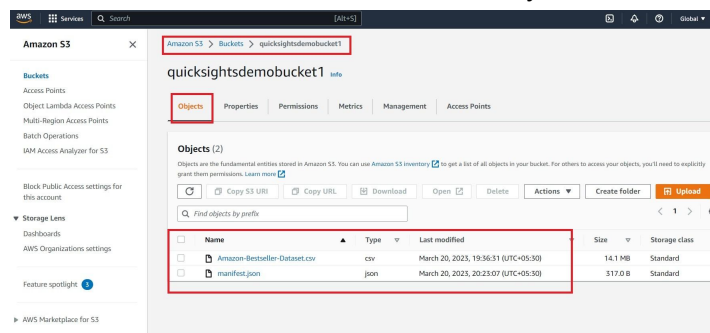


Create a manifest file with the data shown and the bucket name and data file detail and add this manifest.json file into the S3 bucket.

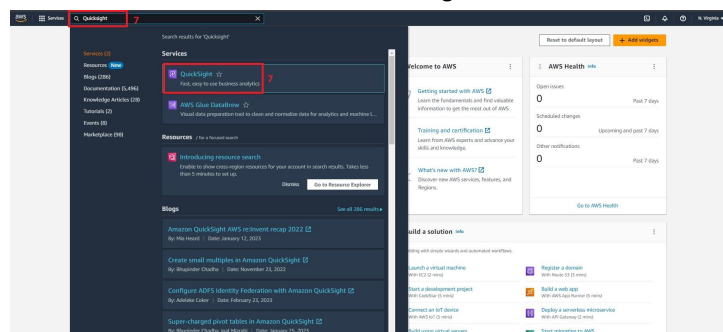


```
{
  "locations": [
    {
      "url": "s3://quicksightdemobucket1/amazon-bestseller-dataset.csv"
    }
  ],
  "globalloadsettings": {
    "format": "csv",
    "delimiter": ",",
    "testqualifier": "",
    "contentseparator": ","
  }
}
```

I have used the VS Code editor to modify the code.



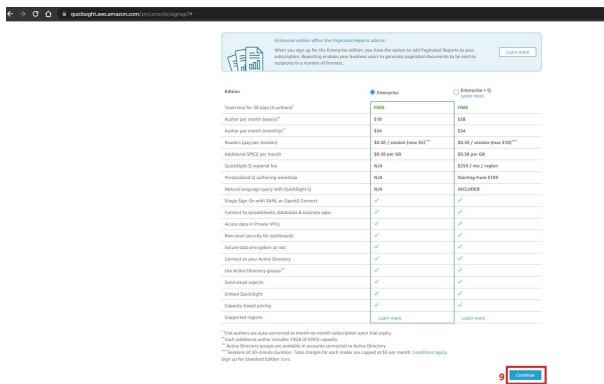
Let me tell you a secret hack here... This will help you when you add the manifest file to the quicksight page at the end... The hack is simple... Open a duplicate tab by using the right-click or open another tab and go to the AWS console and replicate step - 1, but instead of S3, we need to look for the AWS QuickSight service.



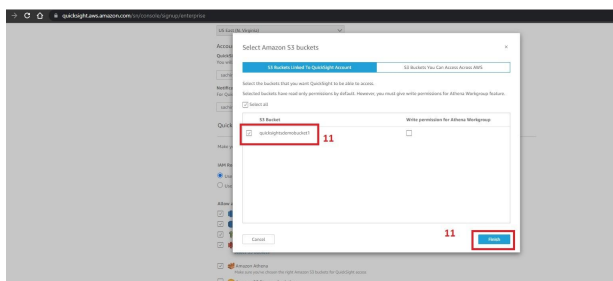
Once we click the QuickSight service, it takes us to the new page where it asks us to signup to use the service:

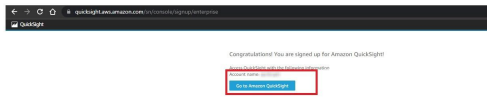


Navigate to the next configuration using "Continue" button:



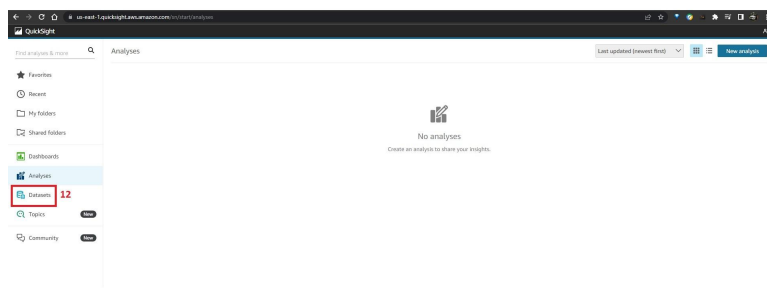
Update the information requested with the account name and email address and then navigate to the Services section on this page. Select the "Select S3 Buckets" option under S3 and leave the rest to default.



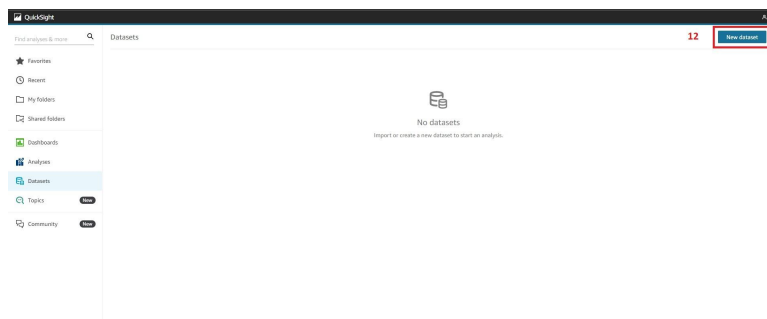


Post the above step, and click the "Go to Amazon QuickSight" option to open the quicksight page.

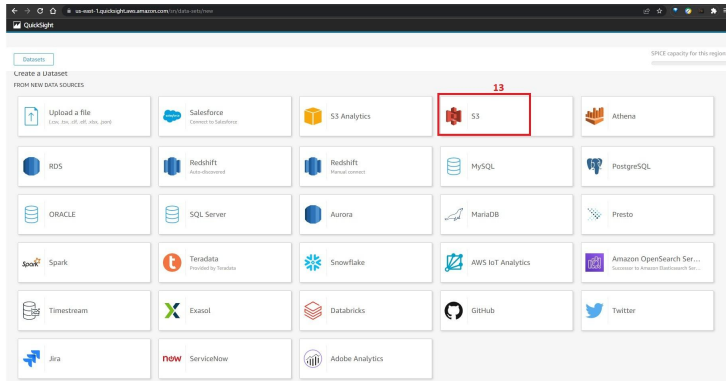
Navigate to the "Datasets" option on the left-hand side of the screen



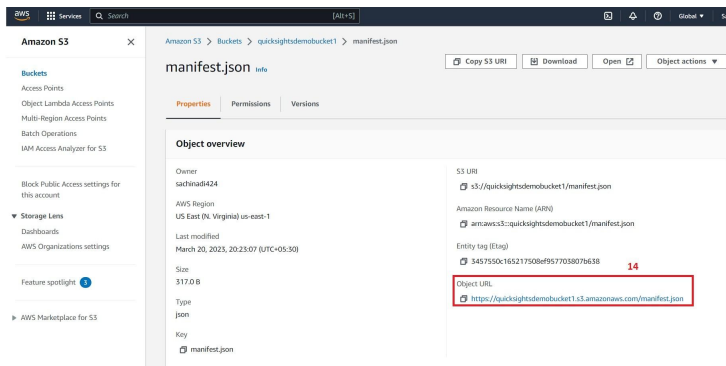
Now select the New Dataset option on the top right



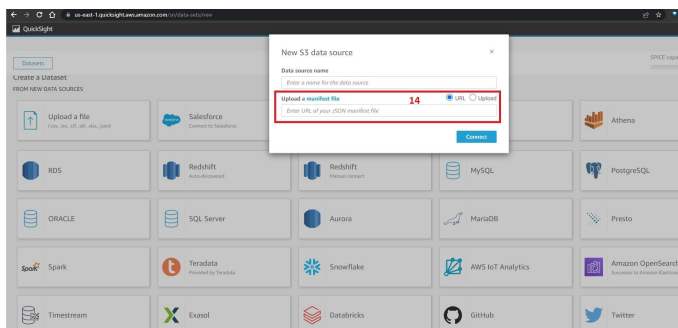
From the list, select S3 since we have hosted the dataset and the manifest file on the S3 bucket

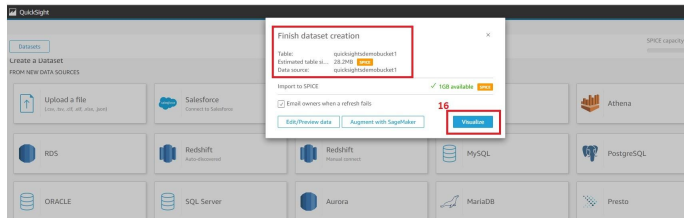


Navigate to the manifest.json file in the S3 bucket created and copy the object URL



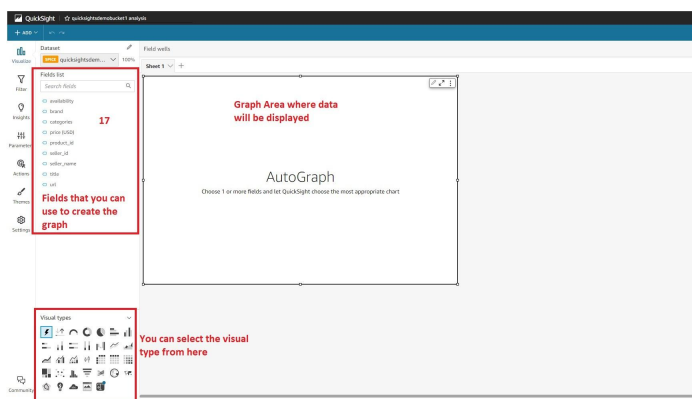
Navigate to the quicksight page where you have the popup for the datasource open (remember I said earlier about the hack!!), and paste it in the "Upload Manifest file" section. Enter the bucket name in the "Data Source Name" field and click on "Connect".



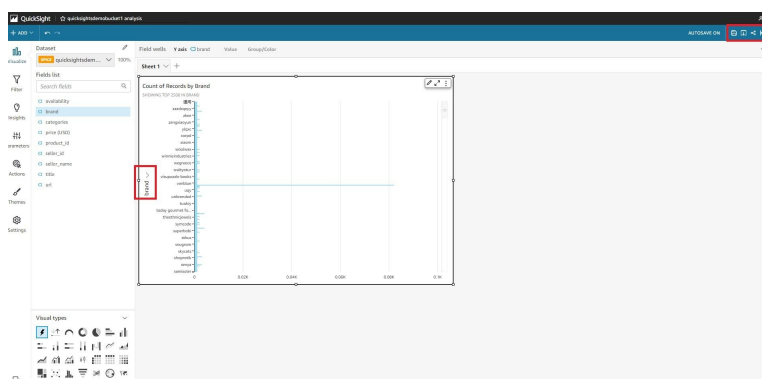


Booom.... we are almost done... Now click on "Visualize" to get your dashboard ready. If you get an option to create a new sheet, click on Create option and your dashboard is now set for creating the charts you need!!

From the list on the left, you can always do a drag-and-drop to create your visualizations. I did select Brand, just to see how the visual looks:



So this is how a sample dataset dashboard looks like:



You can now use the dropdown to do some sorting work for the arrangement as needed and the options on the right for activities like saving the dashboard etc.,

All right!! Everything is done and said, if you doing the demo alone, make sure you delete all the resources created to save your money!! Else, a bill will be generated for sure :)

Happy learning folks! and as usual, feedback to better myself is always welcome!!

#Awsproject #AWS #QuickSight #Data #Dashboards #simplifiedemo