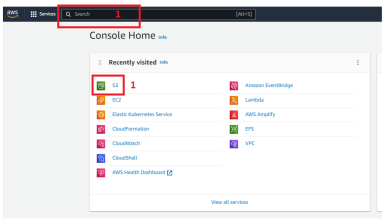
Dashboards are proven and effective ways to portray our data. AWS has also got a product that can provide a dashboard from the data hosted in its S3 bucket. I followed Lucy Wang (@techwithlucy is her youtube channel) to learn about this fantastic service from AWS.

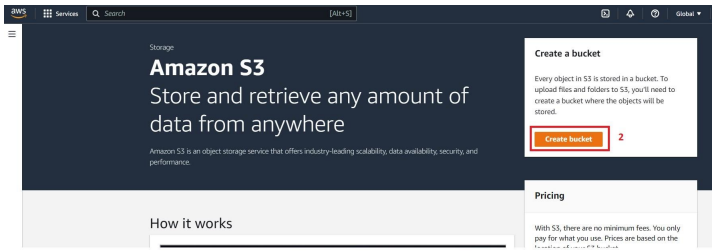
The first step in the project is to extract a dataset for the dashboard. Also, a manifest file is required for the project in order to link to the data stored in the S3 bucket and create the QuickSight dashboard.

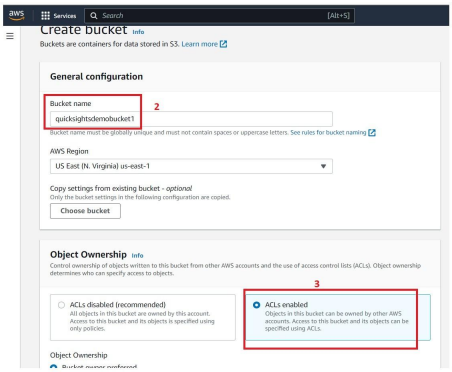
This project is straightforward and fairly easy to complete. Follow the below steps and you can understand how to build the dashboard:

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.)

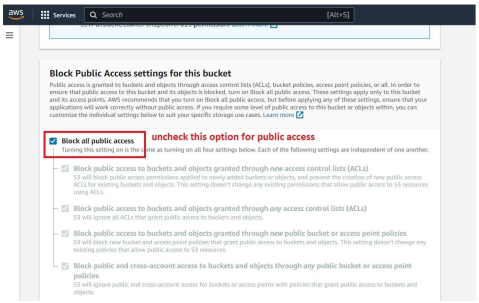


No alt text provided for this image
Create a bucket with a unique name. I created one using the "Create Bucket" option and then with the name "quicksightsdemobucket1".

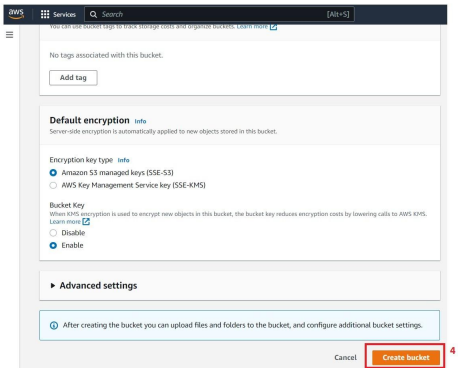




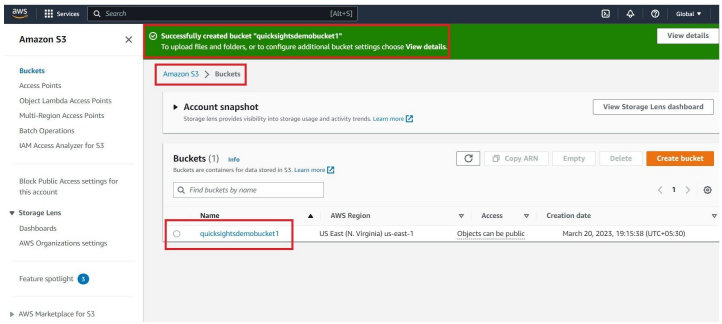
While creating the bucket, make sure to enable the "ACLs enabled" option.
Uncheck the "Block All Public Access". Agree to the terms and conditions by checking the "I acknowledge ...." box under the block all public access setting.



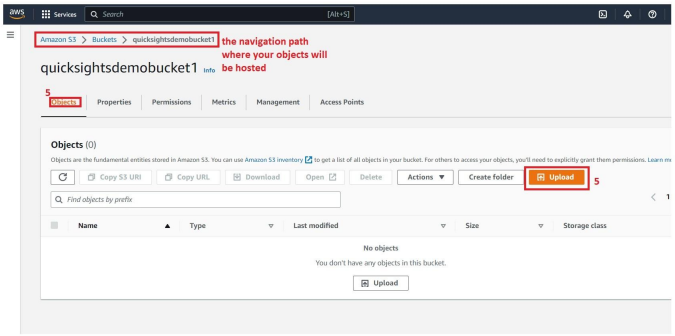
Click on the "Create bucket" option to create the bucket.

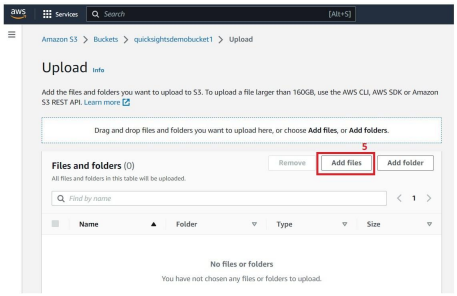


If the bucket is created without issues, it will appear on the S3 console as shown below. Else, it will point you to the error point and we can modify the same.

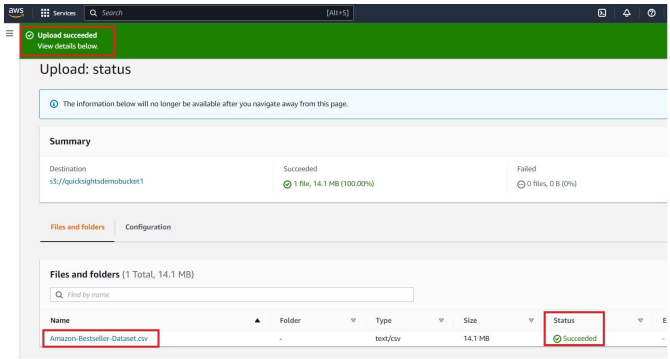


Click on the bucket created and it takes you to the next step where you can now add files.

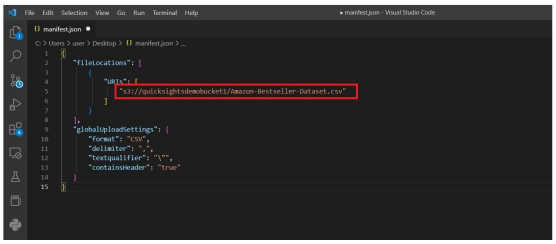




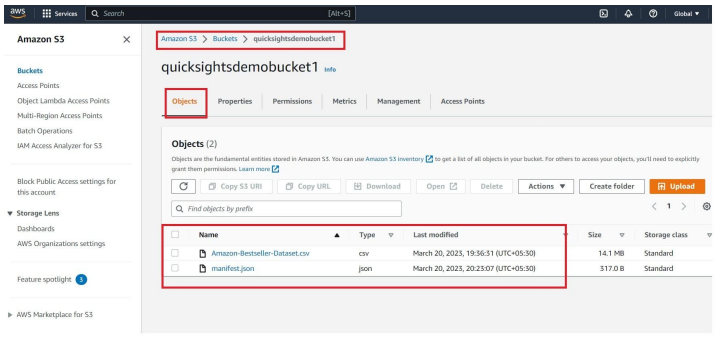
Once the objects are added, it will show the successful message as below



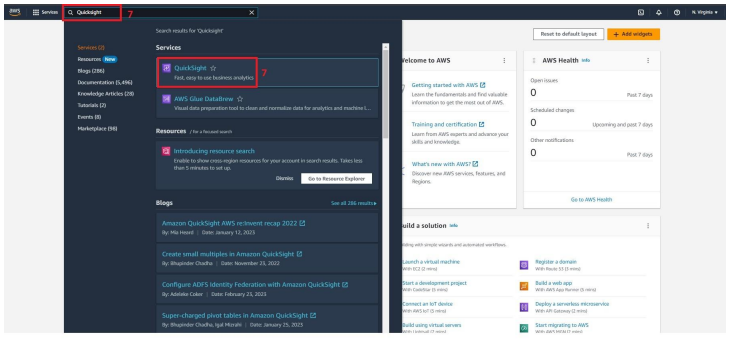
Create a manifest file with the data shown and the bucket name and data file detail and add this manifest.json file into the S3 bucket.



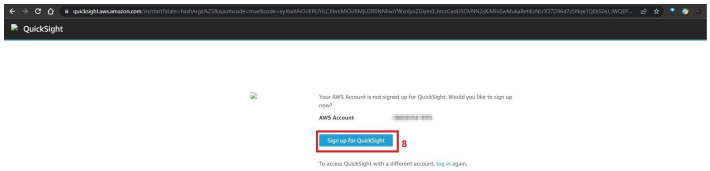
I have used the VS Code editor to modify the code.



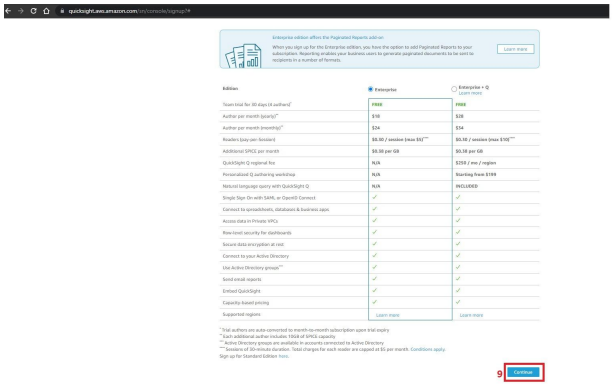
Let me tell you a secret hack here... This will help you when you add the manifest file to the quicksight page at the end... The hack is simple... Open a duplicate tab by using the right-click or open another tab and go to the AWS console and replicate step - 1, but instead of S3, we need to look for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



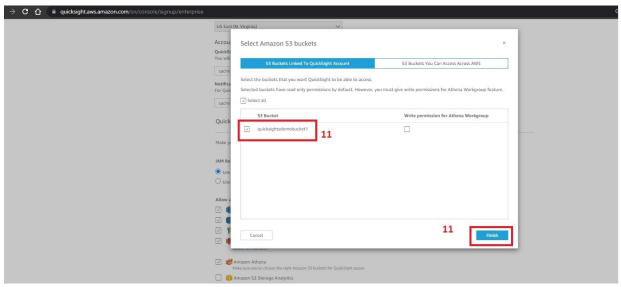
Once we click the QuickSight service, it takes us to the new page where it asks us to signup to use the service:

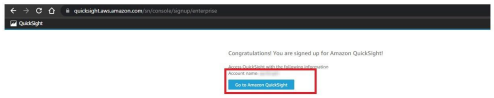


Navigate to the next configuration using "Continue" button:



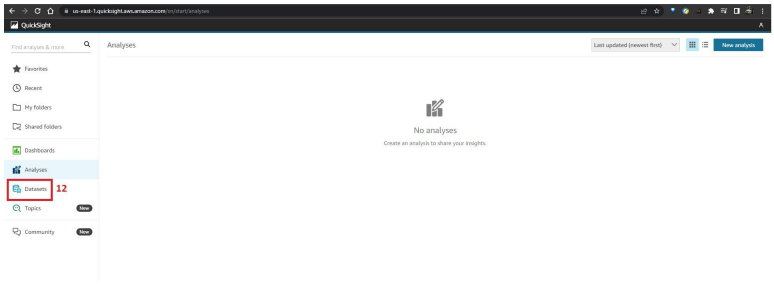
Update the information requested with the account name and email address and then navigate to the Services section on this page. Select the "Select S3 Buckets" option under S3 and leave the rest to default.



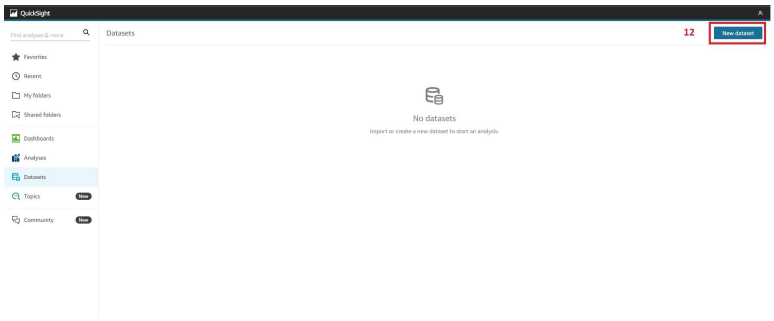


Post the above step, and click the "Go to Amazon QuickSight" option to open the quicksight page.

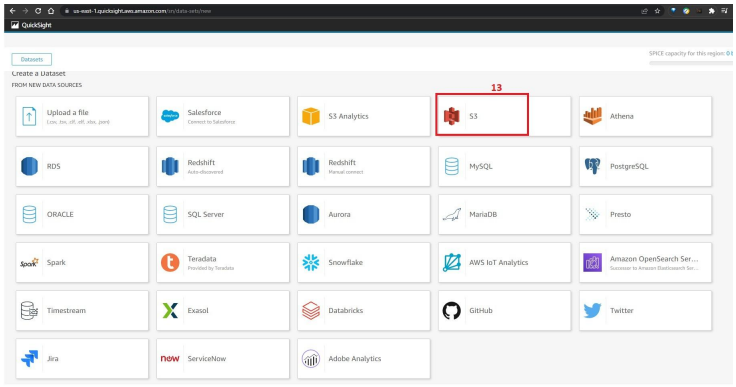
Navigate to the "Datasets" option on the left-hand side of the screen



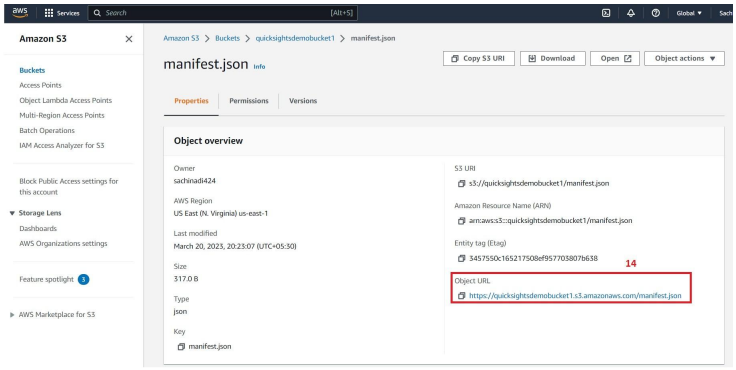
Now select the New Dataset option on the top right



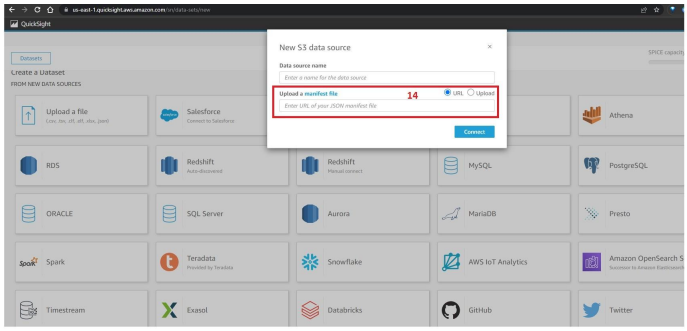
From the list, select S3 since we have hosted the dataset and the manifest file on the S3 bucket

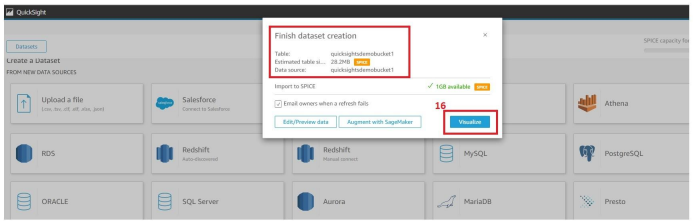


Navigate to the manifest.json file in the S3 bucket created and copy the object URL



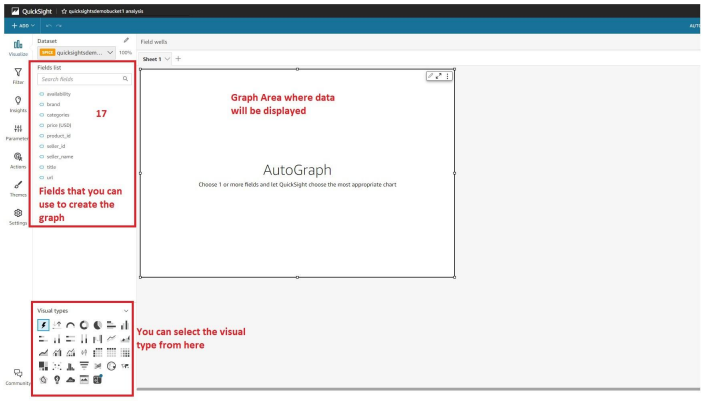
Navigate to the quicksight page where you have the popup for the datasource open (remember I said earlier about the hack!!), and paste it in the "Upload Manifest file" section. Enter the bucket name in the "Data Source Name" field and click on "Connect".



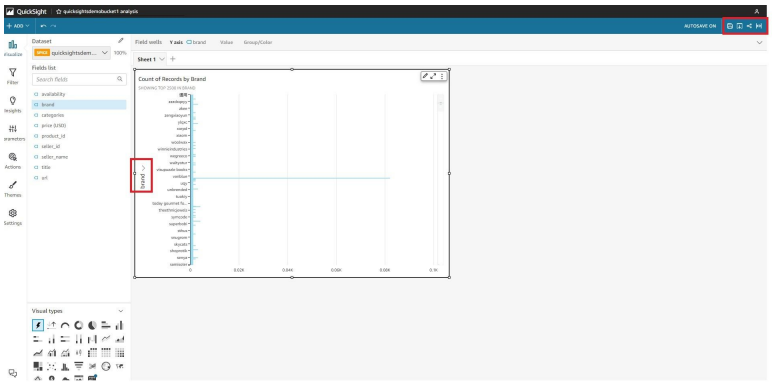


Boooom.... we are almost done... Now click on "Visualize" to get your dashboard ready. If you get an option to create a new sheet, click on Create option and your dashboard is now set for creating the charts you need!!

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 #simpledemo