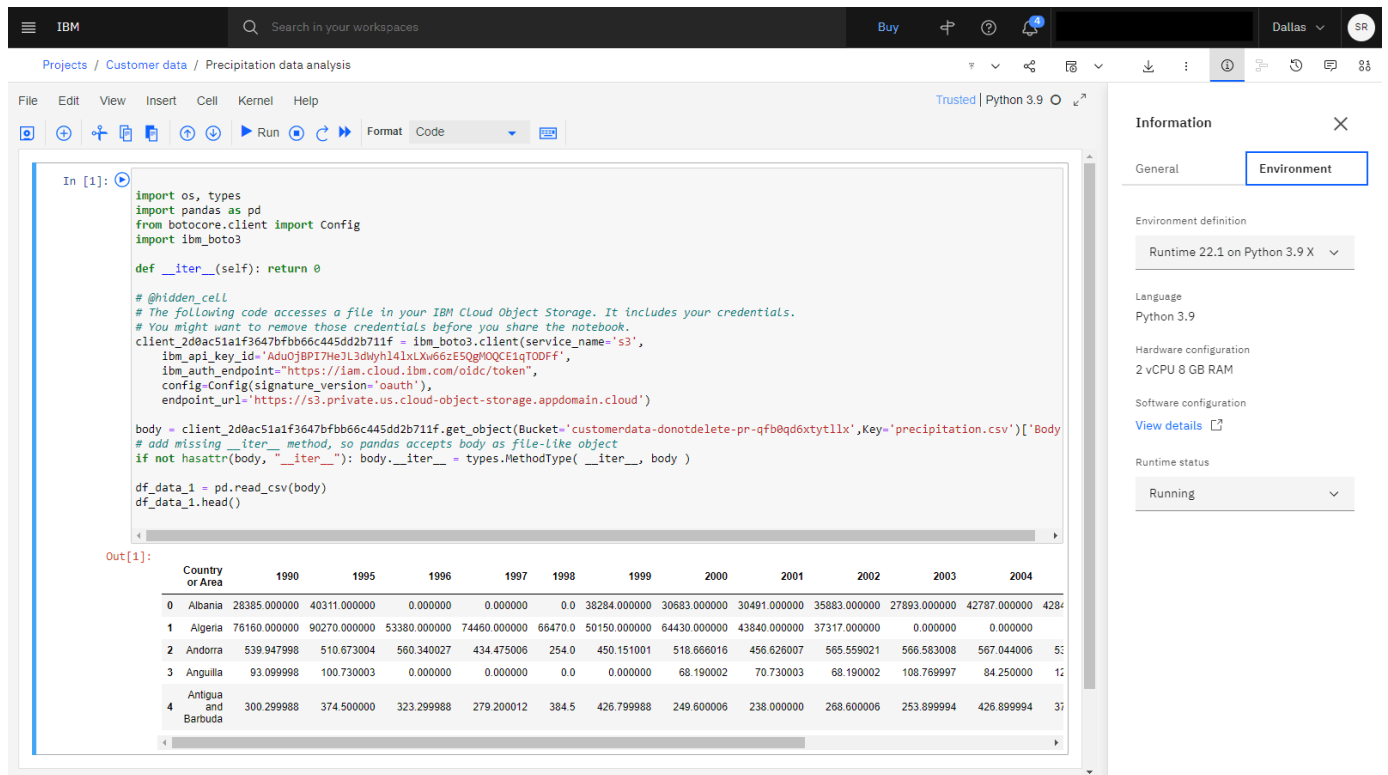


gitops cicd continuous-delivery git

Watson Studio

Watson Studio is part of Cloud Pak for Data and provides the data science capabilities of the data fabric architecture. Watson Studio provides the environment and tools for you to collaboratively work on data to solve your business problems. You can choose the tools you need to analyze and visualize data, to cleanse and shape data, to ingest streaming data, or to create and train machine learning models.



The screenshot displays the Watson Studio interface. The main area shows a Jupyter Notebook with the following Python code:

```
In [1]:
import os, types
import pandas as pd
from botocore.client import Config
import ibm_boto3

def __iter__(self): return 0

# @hidden_cell
# The following code accesses a file in your IBM Cloud Object Storage. It includes your credentials.
# You might want to remove those credentials before you share the notebook.
client_2d0ac51a1f3647bfb66c445dd2b711f = ibm_boto3.client(service_name='s3',
    ibm_api_key_id='AduO3RPI7He1L3dWYh14LxLx6zE5QgMOQCE1qTODff',
    ibm_auth_endpoint='https://iam.cloud.ibm.com/oidc/token',
    config=Config(signature_version='oauth'),
    endpoint_url='https://s3.private.us.cloud-object-storage.appdomain.cloud')

body = client_2d0ac51a1f3647bfb66c445dd2b711f.get_object(Bucket='customerdata-donotdelete-pr-qfb0qd6xytllx',Key='precipitation.csv')['Body']
# add missing __iter__ method, so pandas accepts body as file-like object
if not hasattr(body, "__iter__"): body.__iter__ = types.MethodType(__iter__, body)

df_data_1 = pd.read_csv(body)
df_data_1.head()
```

The output of the code is a data table:

```
Out[1]:
   Country or Area  1990  1995  1996  1997  1998  1999  2000  2001  2002  2003  2004
0  Albania  28385.000000  40311.000000  0.000000  0.000000  0.0  38284.000000  30683.000000  30491.000000  35883.000000  27893.000000  42787.000000  4284
1  Algeria  76160.000000  90270.000000  53380.000000  74460.000000  66470.0  50150.000000  64430.000000  43840.000000  37317.000000  0.000000  0.000000
2  Andorra  539.947998  510.673004  560.340027  434.475006  254.0  450.151001  518.666016  456.626007  565.559021  566.583008  567.044006  567
3  Anguilla  93.099998  100.730003  0.000000  0.000000  0.0  0.000000  68.190002  70.730003  68.190002  108.769997  84.250000  84
4  Antigua and Barbuda  300.299988  374.500000  323.299988  279.200012  384.5  426.799988  249.600006  238.000000  268.600006  253.899994  426.899994  426
```

The right sidebar shows the 'Environment' tab with the following details:

- Environment definition: Runtime 22.1 on Python 3.9 X
- Language: Python 3.9
- Hardware configuration: 2 vCPU 8 GB RAM
- Software configuration: View details
- Runtime status: Running

For more information check out the [official documentation](#).

Creating Jupyter Notebooks in Watson Studio [official documentation](#).

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[Dominik Kreuzberger](#)