

# Tutorials on how to use Daily SDC on AWS

```
# obtain data from s3
%%bash
mkdir -p ./sdc_test
aws s3 sync s3://sdc-daily-
thu/251/127/SDC_V2_251127_20180107_20201004/ ./sdc_test/

# read data using python
import rasterio
import numpy as np
import matplotlib.pyplot as plt

# surface reflectance
with rasterio.open('sdc_test/SDC_V2_251127_20180107_20201004_SR.tif') as src:
    imgl = src.read()

# calculate NDVI
ndvi = (imgl[3]- imgl[2])/(imgl[3]+ imgl[2])

bands = ['blue','green','red','nir','swir1','swir2']

# visualization
for i in range(imgl.shape[0]):
    plt.figure()
    plt.imshow(imgl[i])
    plt.colorbar()
    plt.title(bands[i])
    plt.show()

plt.figure()
plt.imshow(ndvi)
plt.colorbar()
plt.title('ndvi')
plt.show()
```