***Retrieving Metadata in Azure VM***

To query the metadata of an instance within Azure, you can use the Azure Instance Metadata Service (IMDS) API.

import requests

metadata\_endpoint = "http://169.254.169.254/metadata/instance?api-version=2021-02-01"

headers = {'Metadata': 'true'}

response = requests.get(metadata\_endpoint, headers=headers)

if response.status\_code == 200:

metadata = response.json()

# Access and print specific metadata properties

print("Instance ID:", metadata['compute']['vmId'])

print("Location:", metadata['compute']['location'])

print("VM Size:", metadata['compute']['vmSize'])

else:

print("Failed to retrieve metadata. Status code:", response.status\_code)

Note :- In this code, we're making a GET request to the metadata endpoint URL (‘http://169.254.169.254/metadata/instance?api-version=2021-02-01’) with the Metadata header set to 'true'. This tells the Azure IMDS to return the instance metadata in JSON format. The response is checked for a successful status code (200), and if successful, the relevant metadata properties are printed.

Please note that the code assumes you have the requests library installed (pip install requests). Also, ensure that your instance has access to the metadata endpoint and that you're running this code within an Azure instance to retrieve its metadata.