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|  | Lets create EC2 instances using python BOTO3  First : Open python IDE - select Terminal - type " aws configure " then, enter security key, service key, origin, json. Next check the info. with the help of "aws configure list".  **import boto3** |
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|  | def create\_ec2\_instance(): |
|  | """ |
|  | MaxCount=1, # Keep the max count to 1, unless you have a requirement to increase it |
|  | InstanceType="t2.micro", # Change it as per your need, But use the Free tier one |
|  | KeyName="ec2-key" # Change it to the name of the key you have. |
|  | :return: Creates the EC2 instance. |
|  | """ |
|  | try: |
|  | print ("Creating EC2 instance") |
|  | resource\_ec2 = boto3.client("ec2") |
|  | resource\_ec2.run\_instances( |
|  | ImageId="ami-08e0ca9924195beba", |
|  | MinCount=1, |
|  | MaxCount=1, |
|  | InstanceType="t2.micro", |
|  | KeyName="ec2-key" |
|  | ) |
|  | except Exception as e: |
|  | print(e) |
|  |  |
|  |  |
|  | def describe\_ec2\_instance(): |
|  | try: |
|  | print ("Describing EC2 instance") |
|  | resource\_ec2 = boto3.client("ec2") |
|  | print(resource\_ec2.describe\_instances()["Reservations"][0]["Instances"][0]["InstanceId"]) |
|  | return str(resource\_ec2.describe\_instances()["Reservations"][0]["Instances"][0]["InstanceId"]) |
|  | except Exception as e: |
|  | print(e) |
|  |  |
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|  | def reboot\_ec2\_instance(): |
|  | try: |
|  | print ("Reboot EC2 instance") |
|  | instance\_id = describe\_ec2\_instance() |
|  | resource\_ec2 = boto3.client("ec2") |
|  | print(resource\_ec2.reboot\_instances(InstanceIds=[instance\_id])) |
|  | except Exception as e: |
|  | print(e) |
|  |  |
|  |  |
|  | def stop\_ec2\_instance(): |
|  | try: |
|  | print ("Stop EC2 instance") |
|  | instance\_id = describe\_ec2\_instance() |
|  | resource\_ec2 = boto3.client("ec2") |
|  | print(resource\_ec2.stop\_instances(InstanceIds=[instance\_id])) |
|  | except Exception as e: |
|  | print(e) |
|  |  |
|  |  |
|  | def start\_ec2\_instance(): |
|  | try: |
|  | print ("Start EC2 instance") |
|  | instance\_id = describe\_ec2\_instance() |
|  | resource\_ec2 = boto3.client("ec2") |
|  | print(resource\_ec2.start\_instances(InstanceIds=[instance\_id])) |
|  | except Exception as e: |
|  | print(e) |
|  |  |
|  |  |
|  | def terminate\_ec2\_instance(): |
|  | try: |
|  | print ("Terminate EC2 instance") |
|  | instance\_id = describe\_ec2\_instance() |
|  | resource\_ec2 = boto3.client("ec2") |
|  | print(resource\_ec2.terminate\_instances(InstanceIds=[instance\_id])) |
|  | except Exception as e: |
|  | print(e) |
|  |  |
|  |  |
|  | #create\_ec2\_instance() |
|  | #describe\_ec2\_instance() |
|  | #reboot\_ec2\_instance() |
|  | #stop\_ec2\_instance() |
|  | #start\_ec2\_instance() |
|  | #terminate\_ec2\_instance() |