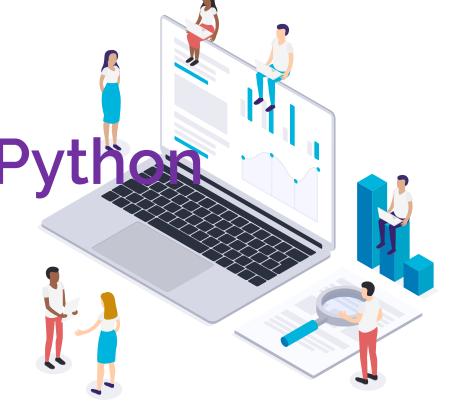


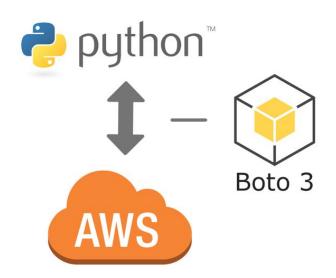
AWS SDK for Pythos Boto3





Boto3 What is Boto3?





Boto3 is the AWS SDK (Software Development Kit) for Python. It enables you to create, update, and delete AWS resources with your Python scripts. It is basically a Python library.

CLARUSWAY

WAY TO REINVENT YOURSELF



Installation and Configuration

Installation

pip install boto3 (pip3 install boto3 for Python3)

Configuration / Credentials

aws configure >> if AWS CLI installed

~/.aws

config credentials >> if AWS CLI not installed



Configuration

A session initiates the connectivity to AWS services. A
default session uses the default credential profile(e.g.
~/.aws/credentials, or assume your EC2 using IAM instance profile)

Default session

Custom session

```
import boto3

# Using the default session
sqs = boto3.client('sqs')
s3 = boto3.resource('s3')
```

```
import boto3
import boto3.session

# Create your own session

my_session = boto3.session.Session()
```



Client vs Resource

Client

- Low-level AWS service access
- Exposes botocore client to the developer
- Supports all AWS service operations

s3 = boto3.client('s3')

Resource

- Higher-level, object oriented API
- Exposes sub processes of AWS resources
- Does not provide 100% coverage of AWS API

s3 = boto3.resource('s3')





Using Boto3

```
import boto3

# Use Amazon S3

s3 = boto3.resource('s3')

# Print out all bucket names

for bucket in s3.buckets.all():
    print(bucket.name)
```



Using Boto3

```
import boto3

# Use Amazon S3

s3 = boto3.resource('s3')

# Upload a new file
data = open('test.jpg', 'rb')

s3.Bucket('my-bucket').put_object(Key='test.jpg', Body=data)
```





THANKS! >

Any questions?

You can find me at:

- @guile
- guile@clarusway.com

