



ondia

The logo for 'ondia' is centered on a white background. The word is written in a lowercase, rounded sans-serif font. The letters 'o', 'n', and 'd' are a medium purple, while 'i' and 'a' are a darker blue. A light blue and teal graphic element is positioned behind the 'd'. The background features four purple triangular accents in the corners, pointing towards the center.

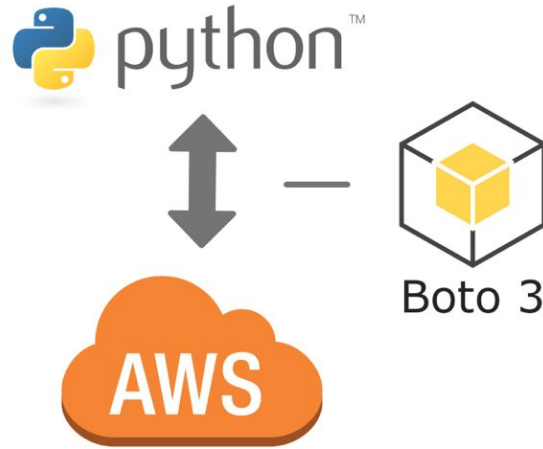


# **AWS SDK for Python**

## **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**.



### 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
```



- 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

```
import boto3

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

### Custom session

```
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')
```

# Boto3

## Using Boto3



```
1 import boto3
2
3 # Use Amazon S3
4 s3 = boto3.resource('s3')
5
6 # Print out all bucket names
7 for bucket in s3.buckets.all():
8     print(bucket.name)
9
```



# Boto3

## Using Boto3

```
1 import boto3
2
3 # Use Amazon S3
4 s3 = boto3.resource('s3')
5
6 # Upload a new file
7 data = open('test.jpg', 'rb')
8 s3.Bucket('my-bucket').put_object(Key='test.jpg', Body=data)
9
```





# THANKS!

**Any questions?**

