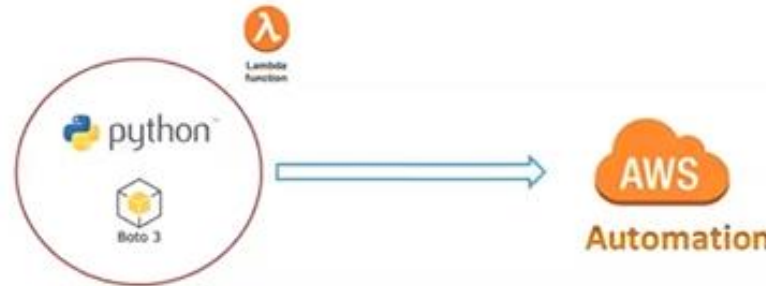


# Python Boto3 Scripts & Automation



## AWS Automation with boto3 of Python and Lambda Functions

### Introduction to boto3



Learn & Practice how to Automate AWS repetitive tasks using Boto3 and Lambda

# Introduction to Boto3

- Boto3 is the name of the Python SDK for AWS.
- Boto3 allows us to directly create, update, and delete AWS services from our Python scripts.
- Boto3 is built on the top of botocore module.
- We have to Install boto3 to work with AWS Services using Python Scripts.
- How to install boto3 ?
  - Python-2.x:
    - pip install boto3
  - Python-3.x
    - pip3 install boto3

**Learn & Practice how to Automate AWS repetitive tasks using Boto3 and Lamba**

# Ensure Python-3.x and Pip3 are installed before Installing Boto3



- ❖ Run the following commands: `$ python --version && pip3 --version` You might have different versions, however, make sure they are at least python-3.x and pip3.

```
Forex@LAPTOP-4C614INS MINGW64 ~/OneDrive/Desktop/Condition (main)
$ python --version
Python 3.10.8
```

```
Forex@LAPTOP-4C614INS MINGW64 ~/OneDrive/Desktop/Condition (main)
$ pip3 --version
pip 22.2.2 from C:\Program Files\WindowsApps\PythonSoftwareFoundation.Pytho
n.3.10_3.10.2288.0_x64__qbz5n2kfra8p0\lib\site-packages\pip (python 3.10)
```

**Learn & Practice how to Automate AWS repetitive tasks using  
Boto3 and Lambda**

# Ensure Python-3.x and Pip3 are installed before Installing Boto3



- ❖ If you do not have python-3x and pip3 installed in your Windows or Linux server, follow the link below to install both packages.

<https://amazingdevops.com/lessons/installing-python-3-x-pip3-x-aws-sdk-and-awscli-in-centos-7-server-and-window-server/>

**Learn & Practice how to Automate AWS repetitive tasks using  
Boto3 and Lambda**

# Install Python-3.x and Boto3 on Windows Server



- Install boto3
  - pip3 install boto3

```
Forex@LAPTOP-4C614INS MINGW64 ~/OneDrive/Desktop/Condition (main)  
$ pip3 install boto3
```

Learn & Practice how to Automate AWS repetitive tasks using Boto3 and Lambda

# Expected output when installation of Boto3 on your Windows Server is successfully completed



```
[notice] A new release of pip available: 22.2.2 -> 22.3.1
[notice] To update, run: C:\Users\Forex\AppData\Local\Microsoft\WindowsApps\PythonSoftwareFoundation.Python.3.10_qbz5n2kfra8p0\python.exe -m pip install --upgrade pip
```

**Learn & Practice how to Automate AWS repetitive tasks using Boto3 and Lambda**

# Confirm Boto3 installation through Python IDLE



- ❖ IDLE is **Python's Integrated Development and Learning Environment**.
- ❖ Go to your visual studio code and open a Git Bash terminal.
- ❖ Run the command: \$ **python** and **ENTER**.

```
Forex@LAPTOP-4C614INS MINGW64 ~/OneDrive/Desktop/Condition (main)
$ python
Python 3.10.8 (tags/v3.10.8:aaaf517, Oct 11 2022, 16:50:30) [MSC v.1933 64
bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license" for more information.
>>> █
```

**Learn & Practice how to Automate AWS repetitive tasks using  
Boto3 and Lambda**



# Verify Boto3 installation through Python IDLE



- ❖ Run the command: `$ python` and ENTER.
- ❖ Inside python IDLE, run the commands: `$ import boto3` && `print(boto3)`
- ❖ See the expected output below to confirm `boto3` was installed.

```
Forex@LAPTOP-4C614INS MINGW64 ~/OneDrive/Desktop/Condition (main)
$ python
Python 3.10.8 (tags/v3.10.8:aaaf517, Oct 11 2022, 16:50:30) [MSC v.1933 64
bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license" for more information.
>>> import boto3 ✓
>>> print(boto3) ✓
<module 'boto3' from 'C:\\Users\\Forex\\AppData\\Local\\Packages\\PythonSoft
wareFoundation.Python.3.10_qbz5n2kfra8p0\\LocalCache\\local-packages\\Pyth
on310\\site-packages\\boto3\\__init__.py'>
```

**Learn & Practice how to Automate AWS repetitive tasks using  
Boto3 and Lamba**



**Thank you**  
**AmazingDevOps.Com**  
<https://amazingdevops.com/>