

奇安信威胁情报中心

ti.qianxin.com/blog/articles/analysis-of-muddyc3-a-new-weapon-used-by-muddywater

Background

In early May of this year, hackers claimed in the Telegram channel (Channel: GreenLeakers) that they possess attack evidence and information regarding the MuddyWater APT group for sale.

MuddyWater is widely regarded as a long-lived APT group in the Middle East. From February to April 2019, it launched a series of spear-phishing attacks against governments, educational institutions, financial, telecommunications and defense companies in Turkey, Iran, Afghanistan, Iraq, Tajikistan and Azerbaijan.

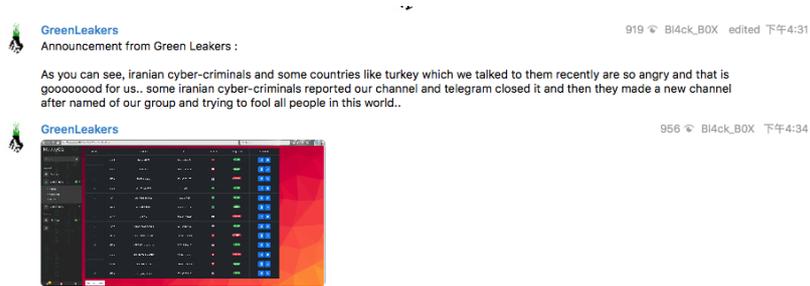
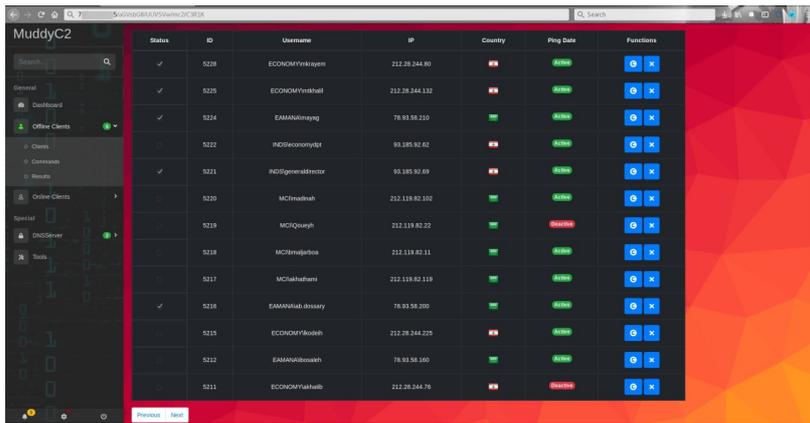
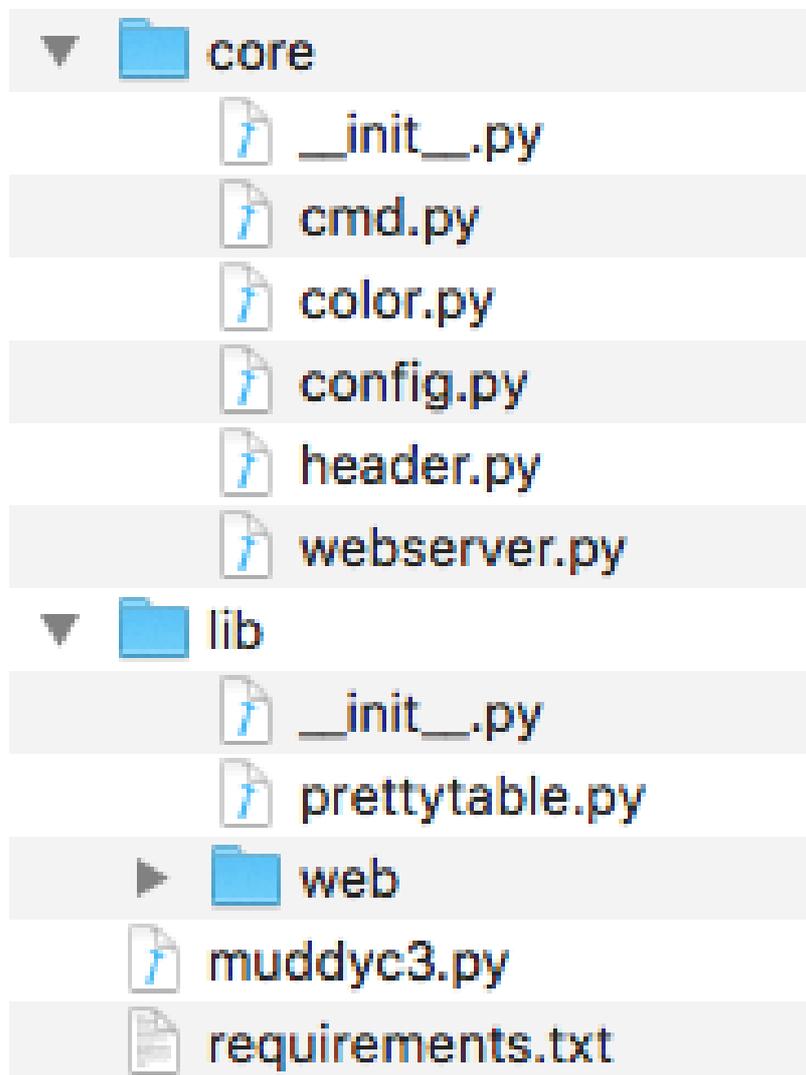


Image of the web control server:



As well as its own infiltration tool, which is named as muddyc3 from the banner with version number 1.0.0.



Code Analysis

Versions 1.0.1 and 1.0.0 are only slightly different on the code level. The following picture shows the screenshot of the portal interface:


```

urls = (
    '/', 'index',
    '/get', 'payload',
    '/getc', 'payloadc',
    '/hta', 'mshta',
    '/info/(.*)', 'info',
    '/dl/(.*)', 'download',
    '/up/(.*)', 'upload',
    '/img/(.*)', 'image',
    '/cm/(.*)', 'command',
    '/re/(.*)', 'result'
)

```

V1.0.0

```

urls = ('/', 'index', '/get', 'payload', '/getc', 'payloadc', '/hff', 'payloadff', '/hffs', 'payloadffs', '/sct', 'sct', '/hta', 'mshta', '/info/(.*)', 'info', '/dl/(.*)',
'download', '/up/(.*)', 'upload', '/img/(.*)', 'image', '/cm/(.*)', 'command', '/re/(.*)', 'result', '/re/(.*)', 'modules')

```

V1.0.1

It supports delivering the next stage payload such as sct, hta, and powershell, uploading, downloading, information collection, as well as supported modules.

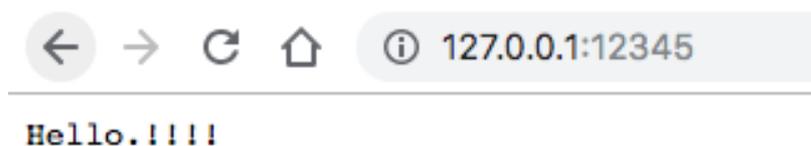
Since the packaged program does not contain the default Powershell payload code, we do not know what will be delivered in the next.

```

def PAYLOAD():
    global IP
    global PORT
    fp = open('core/payload.ps1', 'r')
    ps1 = fp.read()
    ps1 = ps1.replace('{ip}', IP).replace('{port}', PORT)
    return ps1

```

Here we try to access the root path:



```

Hello.!!!!

```

As well as the /hta path:

