



THREAT ADVISORY

**ACTOR
REPORT**

ToddyCat exploits unknown vulnerability in Microsoft Exchange servers to targets entities in Europe and Asia

Date of Publication

June 22, 2022

Admiralty code

A2

TA Number

TA2022131

Summary

ToddyCat, an APT group is deploying web shells by exploiting an unknown vulnerability in the Microsoft Exchange Servers. They are initiating a multi-stage infection that aims at governmental bodies of Europe and private companies of Asia.

Actor Map



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Potential MITRE ATT&CK TTPs

TA0002 Execution	T1059 Command and Scripting Interpreter	T1053 Scheduled Task/Job	TA0005 Defense Evasion
T1055 Process Injection	T1027 Obfuscated Files or Information	TA0010 Exfiltration	T1048 Exfiltration Over Alternative Protocol
T1574.002 Hijack Execution Flow: DLL Side-Loading	T1574 Hijack Execution Flow	T1037 Boot or Logon Initialization Scripts	TA0003 Persistence
T1071.001 Application Layer Protocol: Web Protocols	TA0011 Command and Control	T1071 Application Layer Protocol	T1090 Proxy

Technical Details

#1

ToddyCat starts its infection vector by exploiting vulnerable Microsoft Exchange Servers and deploying a web shell named China Chopper. The web shell is then used to drop multiple loaders which eventually executes Samurai backdoor through ports 80 & 443.

#2

This backdoor then deploys another malware called Ninja to avoid detection and penetrate deep inside network. Both malwares are capable of taking control of the system as well as move laterally within the network.

Actor Detail

NAME	ORIGIN	MOTIVE	TARGET LOCATIONS	TARGET INDUSTRIES
ToddyCat	China (Suspected)	Information theft and espionage	Asia Europe Taiwan Vietnam Afghanistan India Iran Malaysia Pakistan Russia Slovakia Thailand United Kingdom Kyrgyzstan Uzbekistan Indonesia	Government sectors, Private Companies

✂ Indicator of Compromise (IOC)

TYPE	VALUE
File Path	C:\inetpub\temp\debug.exe, C:\Windows\Temp\debug.exe, C:\Windows\Temp\debug.xml, C:\Windows\Microsoft.NET\Framework64\v2.0.50727\Temporary ASP.NET Files\web.exe, C:\Users\Public\Downloads\dw.exe, C:\Users\Public\Downloads\chrome.log, C:\Windows\System32\chr.exe, C:\googleup.exe, C:\Program Files\microsoft\exchange server\v15\frontend\httpproxy\owa\auth\googleup.log, C:\google.exe, C:\Users\Public\Downloads\x64.exe, C:\Users\Public\Downloads\1.dll, C:\Program Files\Common Files\microsoft shared\WMI\iiswmi.dll, C:\Program Files\Common Files\Microsoft shared\Triedit\Triedit.dll, C:\Program Files\Common Files\System\websvc.dll, C:\Windows\Microsoft.NET\Framework\sbs_clrhost.dll, C:\Windows\Microsoft.NET\Framework\sbs_clrhost.dat, C:\Windows\Microsoft.NET\Framework64\v2.0.50727\Temporary ASP.NET Files\web.xml, C:\Users\Public\Downloads\debug.xml, C:\Users\Public\Downloads\cache.dat, C:\Windows\System32\config\index.dat, C:\Windows\Microsoft.NET\Framework\netfx.dat, %ProgramData%\adobe\2.dll, %ProgramData%\adobe\acrobat.exe, %ProgramData%\git\git.exe, %ProgramData%\intel\mstacx.dll, %ProgramData%\microsoft\drm\svchost.dll, %ProgramData%\microsoft\mf\svchost.dll, %ProgramData%\microsoft\mf\svhost.dll, %program files%\Common Files\services\System.Core.dll, %public%\Downloads\1.dll, %public%\Downloads\config.dll, %system%\Triedit.dll, %userprofile%\Downloads\Telegram Desktop\03.09.2021 r.zip, %userprofile%\Downloads\TelegramDesktop\Тех.Инструкции.zip

TYPE	VALUE
File Path	%userprofile%\libraries\1.dll, %userprofile%\libraries\chrome.exe, %userprofile%\libraries\chrome.log, %userprofile%\libraries\config.dll, C:\intel\2.dll, C:\intel\86.dll, C:\intel\x86.dll
MD5	5cfdb7340316abc5586448842c52aabc, 93c186c33e4bbe2abdcc6dfea86fbbff, 5a912beec77d465fc2a27f0ce9b4052b, f595edf293af9b5b83c5ffc2e4c0f14b, 5a531f237b8723396bcfd7c24885177f, 1ad6dcc520893b3831a9cfe94786b82, 33694faf25f95b4c7e81d52d82e27e7b, 832bb747262fed7bd45d88f28775bca6, 8fb70ba9b7e5038710b258976ea97c98, ee881e0e8b496bb62ed0b699f63ce7a6, ae5d2cef136ac1994b63c7f8d95c9c84, 5c3bf5d7c3a113ee495e967f236ab614, bde2073dea3a0f447eeb072c7e568ee7, 350313b5e1683429c9ffcbc0f7aebf3b, 8a00d23192c4441c3ee3e56acebf64b0, 5e721804f556e20bf9ddeec41ccf915d
Registry Keys	\$HKLM\System\ControlSet\Services\WebUpdate, \$HKLM\System\ControlSet\Services\PowerService, \$HKLM\SOFTWARE\Classes\Interface\{6FD0637B-85C6- D3A9-CCE9-65A3F73ADED9}, \$HKLM\SOFTWARE\Classes\Interface\{AFDB6869-CAFA- 25D2-C0E0-09B80690F21D}
C2	149.28.28[.]159, eohsdnsaaojrhmqo.windowshost[.]us

References

<https://securelist.com/toddycat/106799/>

<https://thehackernews.com/2022/06/new-toddycat-hacker-group-on-experts.html>

https://www.kaspersky.com/about/press-releases/2022_toddycat-an-advanced-threat-actor-targets-high-profile-entities-with-new-malware

What Next?

Book a free demo with **HivePro Uni5** to check your exposure to this advisory. HivePro Uni5 is a Threat Exposure Management Solution that proactively reduces an organization's attack surface before it gets exploited.



At Hive Pro we take a long hard look at your vulnerabilities so you can bolster your defenses and fine-tune your offensive cybersecurity tactics.

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