

Threat Level



Hiveforce Labs

THREAT ADVISORY

M ATTACK REPORT

Flea APT Targets Foreign Ministries with New Backdoor. Graphican

Summary

First Appearance: 2004

Malware: Backdoor.Graphical

Targeted Countries: North, Central, and South America

Affected Platforms: Windows

Targeted Industries: Foreign Affairs, Government, Diplomatic, Finance, Political, Foreign **Actor Name:** Flea (APT15, Playful Taurus, BackdoorDiplomacy, Vixen Panda, Ke3Chang, Playful

Dragon, Bronze Palace, and NICKEL)

Attack: Flea APT group targeted foreign ministries with their new backdoor,

Backdoor.Graphican, leveraging Microsoft Graph API and OneDrive for C&C communication.

X Attack Regions



Powered by Bing Australian Bureau of Statistics, GeoNames, Microsoft, Navinfo, Open Places, OpenStreetMap, TomTom, Zenrin

☆ CVEs

CVE	NAME	AFFECTED PRODUCT	ZERO -DAY	CISA KEV	PATCH
CVE-2020- 1472	Microsoft Netlogon Privilege Escalation Vulnerability	Microsoft Netlogon	8	⊘	O

Attack Details

#1

The Flea advanced persistent threat group, has recently conducted a targeted attack campaign against foreign ministries. In this campaign, they utilized a newly developed backdoor called Backdoor. Graphican. The primary focus of their attacks was on foreign affairs ministries in the Americas, although they also targeted a government finance department, a corporation operating in Central and South America, and one victim in a European country.

#2

Flea is known for targeting government organizations, diplomatic missions, and non-governmental organizations (NGOs) in order to gather intelligence. Their attacks have been ongoing since at least 2004, and they have consistently evolved their tactics and techniques over time.

#3

The Backdoor.Graphican, which is an evolution of their previous backdoor called Ketrican, exploits the Microsoft Graph API and OneDrive for communication with its command-and-control (C&C) server. This technique involves connecting to OneDrive through the Microsoft Graph API to obtain an encrypted C&C server address from a specific folder.

#4

The malware then decodes the folder name and uses it as the C&C server. By leveraging this method, Flea can maintain control over compromised systems and execute commands remotely. In addition to Backdoor.Graphican, Flea employs a range of other tools in their attacks. These tools include EWSTEW, which extracts sent and received emails on infected Microsoft Exchange servers, as well as credential-dumping tools like Mimikatz, Pypykatz, and Safetykatz.

#5

They also utilize tools such as Lazagne, Quarks PwDump, SharpSecDump, K8Tools, EHole, and various web shells. Furthermore, Flea has been known to exploit vulnerabilities like CVE-2020-1472, which allows for privilege escalation.

Recommendations



Deploy and update advanced endpoint protection solutions, such as antivirus and anti-malware, to defend against Flea APT's Backdoor. Graphican and other malware. Enable real-time monitoring and automated response to swiftly identify and mitigate malicious activities.



Strengthen network defenses with firewalls, intrusion prevention systems, and secure web gateways to protect against Flea APT's attacks. Regularly patch and update network devices and applications to mitigate vulnerabilities exploited by the APT group.

Potential MITRE ATT&CK TTPs

<u>TA0003</u>	<u>TA0011</u>	TA0005	<u>TA0002</u>
Persistence	Command and Control	Defense Evasion	Execution
<u>TA0007</u>	<u>TA0001</u>	<u>TA0009</u>	TA0008
Discovery	Initial Access	Collection	Lateral Movement
<u>T1550</u>	<u>T1027</u>	<u>T1204</u>	<u>T1140</u>
Use Alternate Authentication Material	Obfuscated Files or Information	User Execution	Deobfuscate/Decode Files or Information
<u>T1059</u>	<u>T1190</u>	<u>T1083</u>	<u>T1550.001</u>
Command and Scripting Interpreter	Exploit Public-Facing Application	File and Directory Discovery	Application Access Token
<u>T1059.001</u>	<u>T1547.001</u>	<u>T1547</u>	<u>T1082</u>
PowerShell	Registry Run Keys / Startup Folder	Boot or Logon Autostart Execution	System Information Discovery

№ Indicators of Compromise (IOCs)

ТҮРЕ	VALUE
IPV4	172.104.244[.]187 50.116.3[.]164
Domains	www.beltsymd[.]org www.cyclophilit[.]com www.cyprus-villas[.]org www.perusmartcity[.]com www.verisims[.]com
	4b78b1a3c162023f0c14498541cb6ae143fb01d8b50d6aa13ac302a8455 3e2d5 a78cc475c1875186dcd1908b55c2eeaf1bcd59dedaff920f262f12a3a9e9b
	fa8 02e8ea9a58c13f216bdae478f9f007e20b45217742d0fbe47f66173f1b19 5ef5
	617589fd7d1ea9a228886d2d17235aeb4a68fabd246d17427e50fb31a9a 98bcd
	858818cd739a439ac6795ff2a7c620d4d3f1e5c006913daf89026d3c2732 c253 fd21a339bf3655fcf55fc8ee165bb386fc3c0b34e61a87eb1aff5d094b1f14
	76 177c4722d873b78b5b2b92b12ae2b4d3b9f76247e67afd18e56d4e0c006
	3eecf 8d2af0e2e755ffb2be1ea3eca41eebfcb6341fb440a1b6a02bfc965fe79ad 56b
	f98bd4af4bc0e127ae37004c23c9d14aa4723943edb4622777da8c6dcf57 8286
SHA256	865c18480da73c0c32a5ee5835c1cfd08fa770e5b10bc3fb6f8b7dce1f66cf 48 d30ace69d406019c78907e4f796e99b9a0a51509b1f1c2e9b9380e534aaf
	5e30 bf4ed3b9a0339ef80a1af557d0f4e031fb4106a04b0f72c85f7f0ff0176ebb
	64 5600a7f57e79acdf711b106ee1c360fc898ed914e6d1af3c267067c158a4 1db6
	f06692b482d39c432791acabb236f7d21895df6f76e0b83992552ab5f1b4 3c8d
	af4a10cbe8c773d6b1cfb34be2455eb023fb1b0d6f0225396920808fefb11 523 548ce27996e9309e93bf0bd29c7871977530761b2c20fc7dc3e2c16c025e
	b7bc 9829c86fab4cbccb5168f98dcb076672dc6d069ddb693496b463ad704f31
	722e 18560596e61eae328e75f4696a3d620b95db929bc461e0b29955df06bc1 14051

TYPE	VALUE
	f6f57fc82399ef3759dcbc16b7a25343dea0b539332dacdf0ed289cc82e90 0db
	df6a740b0589dbd058227d3fcab1f1a847b4aa73feab9a2c157af31d95e0 356f
	c559eb7e2068e39bd26167dd4dca3eea48e51ad0b2c7631f2ed6ffcba01f b819
	7d93862c021d56b4920cab5e6cb30a2d5fb21478e7158f104e520cc739a 1678d
	17a63ccd749def0417981c42b0765f7d56e6be3092a1f282b81619ca819f 82ef
	b42f9571d486a8aef5b36d72c1c8fff83f29cac2f9c61aece3ad70537d49b2 22
	bff65d615d1003bd22f17493efd65eb9ffbfe9a63668deebe09879982e5c6 aa8
	ed2f501408a7a6e1a854c29c4b0bc5648a6aa8612432df829008931b3e3 4bf56
	e7a6997e32ca09e78682fc9152455edaa1f9ea674ec51aecd7707b1bbda3 7c2f
	07fc745c29db1e2db61089d8d46299078794d7127120d04c07e0a1ea693 3a6df
	42379bb392751f6a94d08168835b67986c820490a6867c28a324a807c49 eda3b
	a6cad2d0f8dc05246846d2a9618fc93b7d97681331d5826f8353e7c3a320 6e86
SHA256	e25cc57793f0226ff31568be1fce1e279d35746016fc086a6f67734d26e30 5a0
	617af8e063979fe9ca43479f199cb17c7abeab7bfe904a2baf65708df8461 f6d
	dc2423e21752f431ce3ad010ce41f56914e414f5a88fd3169e78d4cc0808 2f7b
	f653e93adf00cf2145d4bfa00153ae86905fe2c2d3c1f63e8f579e43b7069 d51
	65436d5646c2dbb61607ed466132302f8c87dab82251f9e3f20443d5370 b7806
	44c1c5c92771c0384182f72e9866d5fed4fda896d90c931fe8de363ed811 06cf
	7fa350350fc1735a9b6f162923df8d960daffb73d6f5470df3c3317ae237a 4e6
	9a94483a4563228cb698173c1991c7cf90726c2c126a3ce74c66ba226040 f760
	f4575af8f42a1830519895a294c98009ffbb44b20baa170a6b5e4a71fd9ba 663
	2da9a09a14c52e3f3d8468af24607602cca13bc579af958be9e918d73641 8660
	d21797e95b0003d5f1b41a155cced54a45cd22eec3f997e867c11f6173ee 7337
	31529b8b86d4b6a99d8f3b5f4b1f1b67f3c713c11b83b71d8df7d963275c 5203
	7d3f6188bfdde612acb17487da1b0b1aaaeb422adc9e13fd7eb61044bac7ae08

ТҮРЕ	VALUE
SHA256	2b60e49e85b21a439855b5cb43cf799c1fb3cc0860076d52e41d48d8848 7e6d8 819d0b70a905ae5f8bef6c47423964359c2a90a168414f5350328f568e1c 7301 7aa10e5c59775bfde81d27e63dfca26a1ec38065ddc87fe971c30d2b2b72 d978

Patch Details

https://portal.msrc.microsoft.com/en-US/security-guidance/advisory/CVE-2020-1472

Signal References

https://symantec-enterprise-blogs.security.com/blogs/threat-intelligence/flea-backdoor-microsoftgraph-apt15

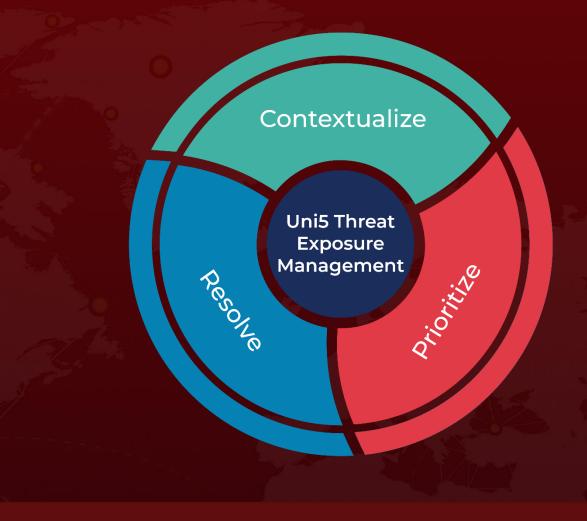
https://www.hivepro.com/apt15-enhanced-its-arsenal-with-an-updated-variant-of-the-turianbackdoor/

https://www.hivepro.com/backdoordiplomacy-targets-the-telecom-industry-in-the-middle-east/

What Next?

At <u>Hive Pro</u>, it is our mission to detect the most likely threats to your organization and to help you prevent them from happening.

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