KPMG Cyber Threat Intelligence Platform

XWorm Malware: Leveraging Xlogger for Enhanced Keylogging

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XWorm malware, first discovered in 2022, primarily functions as a Remote Access Trojan (RAT) is capable of stealthily evading detection and collecting sensitive data like financial details, passwords and cryptocurrency wallet data. XWorm includes functionalities to track keystrokes, capture webcams and audio inputs and newer capabilities like plugin deletion and launching DDoS attacks. The countries targeted by XWorm includes UK, Spain, Russia, Ukraine, India, US and Germany.

Initial access being unclear, it is likely through phishing emails with malicious attachments. The victim opens an LNK file disguised as an invoice, which executes a hidden PowerShell command to copy and run a batch file in the background. The batch file distracts the victim by opening a fake tax invoice (PDF) in the browser while simultaneously executing PowerShell to download a malicious ZIP file. The ZIP file, containing Python setup files and scripts, is downloaded and extracted into the victim's Downloads folder. The extracted Python script decrypts embedded shellcode using Base64 and RC4 decryption, with a hardcoded key. The script modifies memory permissions using VirtualProtect and injects the decrypted shellcode into a newly launched notepad.exe process. The shellcode is executed using an Asynchronous Procedure Call (APC) to trigger the malicious code. The shellcode launches the XWorm payload, which includes the Xlogger module having keylogging functionality. It tracks user activities and exfiltrates data to the Command and Control (C2) server. XWorm establishes persistence by modifying registry settings or startup configurations, ensuring continued access to the system even after reboots.

XWorm malware's widespread campaigns and rapidly changing infection vectors highlight the critical need for security awareness and robust defenses to mitigate large-scale threats.

What should you do?

- Monitor Indicators of Compromise (IoCs) in your environment to identify anomalies.
- Ensure your Windows environment is patched to the brim and is protected with multi-factor authentication.
- Conduct a comprehensive, full spectrum, threat assessment exercise to uncover blind spots and improvement areas.

KPMG Cyber Threat Intelligence Platform is an industry defining, research-based capability for enhanced visibility into cyber threats.

Our machine ingestible feeds and analysis are the result of automated, sensor-based intelligence metrics with dedicated, expert insights of each threat to provide you the appropriate context on a timely basis in industry standard formats such as STIX/ TAXII/ MISP.

These feeds are additionally co-related with our industry partners and independent research for additional context. The intelligence obtained is then curated from strategic, tactical and operational perspective to give you a wide-ranging view of cyber threats.

We also assist you with our renowned cyber incident response and threat hunting services in case you identify an active threat in your environment.

We offer a wide-range of services, including:

Strategic threat intelligence report

Machine ingestible threat intelligence feeds

Threat intelligence driven pre-emptive threat hunting exercise

Cyber Incident Response Services

KPMG in India Cyber Response Hotline: 1800 2020 502

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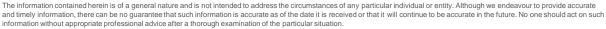












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Indicators of Compromise: IP Addresses	
141.94.61[.]23	152.228.179[.]67
171.22.30[.]13	191.101.130[.]18

Indicators of Compromise: Domains	
ply[.]gg	portmap[.]host
myftp[.]biz	<pre>packetriot[.]net</pre>
duckdns[.]org	

Indicators of Compromise: Hashes
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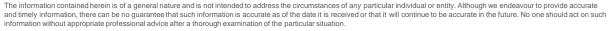












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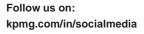
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Indicators of Compromise: Hashes	
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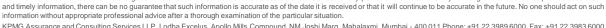












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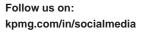
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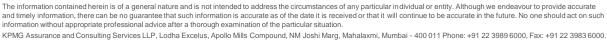












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