



# KPMG Cyber Threat Intelligence Platform

## Shikitega - Stealthy Sophisticated Malware



Targeting the Linux operating systems, Shikitega is a recent addition to the malware family that infects vulnerable endpoints while taking full control over the system. The said malware is a sophisticated malware as it leverages polymorphic shellcode to evade AV products, exploits vulnerabilities for privilege escalations, and a meterpreter to gain access to the compromised system. The malware is specially designed to gain full control of the IoT devices and execute a cryptocurrency miner to extract transactional data.

Shikitega malware starts with a multistage infection chain where each module acts on the provided payload and downloads and executes the next one. Stealthy Shikitega downloads an obfuscated payload hosted on reputed cloud service encoded by Shikata Ga Nai polymorphic encoder and executes it. The executed payload connects to C2 and further downloads the next module containing Mettle. Mettle, is a Metasploit framework that can steal credentials, deploying multiple reverse shells, and taking webcam control onto the victim's system. Shikitega leverages unpatched bugs to spread its control over vulnerable IoT devices. It exploits two major privilege escalation vulnerabilities, CVE-2021-4034 and CVE-2021-3493 to obtain admin root access and downloads crypto-mining XMRig software which is used by the attackers to penetrate the compromised machines and mine for cryptocurrencies.

Provided the malware has a high disguise capability, users must update their firmware with the latest patches. Organizations should regularly perform an antivirus scan on all endpoints using an updated anti-malware application and the firmware must be extracted before running an anti-virus scan on IOT device's server file systems.

### 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.

The 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

### Contact us:

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### Indicators of Compromise: Domains

dash.cloudflare[.]ovh

main.cloudfronts[.]net

### Indicators of Compromise: Hashes

347cfe81b13bd6d985a34a339f671458

b035f85870bb17380b25189bd97b8e65

7b229d73b7c5c55fda0e1f57ceaf118

f105102404cda7e7de2ac1ae54d9a78c

932df67ea6b8900a30249e311195a58f

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8ef509c2b25e6475dbdc92f14117c7592af70b88

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## Indicators of Compromise: Hashes

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## Indicators of Compromise: Hashes

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