

Jan 04, 2024 Newsroom

The malicious code resides in the `__init__.py` file, which decodes and retrieves the first stage from a remote server, a shell script ("unmi.sh") that fetches a configuration file for the mining activity as well as the CoinMiner file [hosted on GitLab](#).

The [ELF binary](#) file is then executed in the background using the [nohup command](#), thus ensuring that the process continues to run after exiting the session.

"Echoing the approach of the earlier 'culturestreak' package, these packages conceal their payload, effectively reducing the detectability of their malicious code by hosting it on a remote URL," Xiong said. "The payload is then incrementally released in various stages to execute its malicious activities."

The connections to the culturestreak package also stems from the fact that the configuration file is hosted on the domain papiculo[.]net and the coin mining executables are hosted on a public GitLab repository.

One notable improvement in the three new packages is the introduction of an extra stage by concealing their nefarious intent in the shell script, thereby helping it evade detection by security software and lengthening the exploitation process.

"Moreover, this malware inserts the malicious commands into the ~/.bashrc file," Xiong said. "This addition ensures the malware's persistence and reactivation on the user's device, effectively extending the duration of its covert operation. This strategy aids in the prolonged, stealthy exploitation of the user's device for the attacker's benefit."

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