

The DGA of Qakbot.T

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Qakbot, Akbot or Qbot is an older banking trojan from 2009 that underwent multiple modifications — Symantec calls the current version [Generation 10](#), Microsoft arrived at letter “U” . Since at least September 2013, Qakbot relies on a domain generation algorithm (DGA) for C&C communication. On January 11, the blog [malware-traffic-analysis.net](#) showed such a DGA empowered Qakbot sample that was spread by the Rig Exploit Kit. Others have reversed the algorithm already, but I could not find any public documentation or implementation of the algorithm online, and therefore publish my notes here. I only reversed one sample and did not spend much time finding other versions of the DGA, so please interpret my results with caution.

The DGA in Qakbot is interesting for multiple reasons:

- Qakbot uses the [Mersenne Twister](#) (MT) as pseudorandom number generator. This not surprising, as the bot is written in Microsoft Visual C++ 5.0 where the MT is the default pseudo random number generator. Still, to my knowledge, it is the only DGA that uses a MT; Usually, DGAs are based on linear congruential generators (LCG) or hash functions like MD5.
- Qakbot tries to detect packet capture tools. If it finds one, it does not abort like many other malware would, but instead generates *decoy domains* to fool researchers. On the one hand, this is innocent-looking to a researcher compared to staying silent. On the other hand, the operators of Qbot could register decoy domains to track labs that leak DNS queries.
- Qakbot uses low level Windows sockets for it’s network traffic. For example, instead of using `gethostbyname` or `DNSQuery` to resolve domains, it will craft the DNS packet manually and send it with `ws2_32.send` . This bypasses hooks on the common DNS APIs.

Reverse Engineering

I reversed this sample from December 23, 2015:

MD5

1e135d7e024f2fb57182ae3313acae6d

SHA-256

be9625921253dca2929c849d3ea04fa9d406113bda9459af2c79487e7afdac88

upload date

2015-12-23 20:51:54

malwr link

[link](#)

The sample unpacks to [this executable](#). The executable decrypts and loads this [Qakbot dll](#). Microsoft detects all three stages as Qakbot.T, which is the second latest version of Qakbot from around July 2014.

Seeding

The seed to initialize the Mersenne Twister is calculated in four steps:

1. The current date is determined by making an HTTP request to one of three popular websites (offset `10009417` in the next graphic).
2. The date string is reformatted into a different string, which also includes a hard-coded seed value (0 or 1).
3. The CRC32 checksum of the resulting string is calculated (the two last steps are done in `date_to_crc`, called at `1000942A`).
4. Qakbot tries to detect packet capture software. If it does, it increments the CRC sum by one.

The CRC sum then initializes the Mersenne Twister (call at `10009444`):

Step 1: Current Date

The date is determined by making an HTTP GET request to one of the following websites:

- google.com
- microsoft.com
- cnn.com

Qakbot starts with `google.com` and only tries the other two options if Google is down. Qbot uses low level sockets for networking, which means it manually has to forge the requests. For example, this is the data it sends to `google.com` :

The request data is built with `sprintf` , and then sent using sockets:

The response is read until the HTTP header `Date: "` is found. Qbot cuts the first 6 letters, which correspond to `Date: "`, and returns the resulting date string. For example, `Thu, 21 Jan 2016 23:31:32 GMT`:

Step 2: Formatting the Date and Hard-Coded Magic Value

The date string is split at the space character into an array of string pointers, for example: [“Thu,” “21,” “Jan”, “2016”, “23:31:32”, “GMT”]. Only the day (“21”), month (“Jan”) and year (“2016”) are used. These values are first transformed as follows:

- The *day* is converted to an integer, which is then mapped to 0, if the day was 1-10; mapped to 1 if the day was 11-20; and 2 otherwise. In the example above, the value would become 2.
- The *month* is converted to lowercase, i.e., “Jan” becomes “jan”.
- The *year* is taken as is.

The resulting three values, plus a fourth hard-coded integer value, are then formatted according to:

```
%u.%s.%s.%08x
```

There are only two known possible magic values: 0 and 1. For example, for the magic value 1 the seed string on January 1, 2016 is:

```
1.jan.2016.00000001
```

Step 3: CRC-32

The string is turned into a 32bit value by calculating the CRC checksum, so “1.jan.2016.00000001” becomes 0xC758FFB8.

Step 4: Packet Capture Detection

Qakbot has a hardcoded list of executable names that are indicative of lab environments:

The tools are:

- tcpdump.exe
- windump.exe
- ethereal.exe
- wireshark.exe

- ettercap.exe
- rtsniff.exe
- packetcapture.exe
- capturenet.exe
- wireshark.exe

If Qbot detects any of those executables running, or if it finds the WinPCap Library `wpcap.dll` installed, it will increase the CRC sum by one. The CRC is used to initialize the Mersenne Twister, and the small increment is enough to lead to completely different random numbers.

The way the day string is transformed leads to two periods of 10 days at the start of the month, and a period of 8 to 11 days at the end of the month. During those periods the domains won't change.

Maximum Number of Domains

Qbot generates the domains in batches. The second arguments determines how many domains to generate at once:

After the batch of domains is used up without success, Qbot loops back to generate additional domains, up to a total of **5000** domains:

Batches of Domain

The routine to generate the algorithmically generated domains first decrypts and splits the list of top level domains:

```
com, net, org, info, biz, org
```

For my samples the domains are *.com*, *.net*, *.org*, *.info*, *.biz* and *.org* (a second time):

Qakbot then generate five domains by calling the `dga` routine (shown later).

The five domains are then shuffled:

or in pseudo code:

```
n = domains.length
for i = 1 to n
    swap domains[i] with domains[Random(1,n)]
```

This randomizes the sequence, although not uniformly (see exercise 5.3-3 on page 129 of [Introduction to Algorithms, 3rd Edition](#)).

The DGA

The `dga` routine takes five arguments:

1. OUT: pointer to the domain
2. IN: (unused) an integer (256)
3. IN: the Mersenne twister.
4. IN: the array of top level domains
5. IN: the length of the top level array

The next image shows the disassembly:

The routine calls `generate_random_string`, which takes the minimum and maximum length as input, to determine the second level domain. The `dga` routine then appends a random top level domain. The routine `generate_random_string` disassembles to:

The routine first picks a length by using the Mersenne-Twister. Then it calls the Mersenne-Twister for the determine length to pick letters between a and y . The letter z is not included due to the same modular arithmetic bug that many other DGAs share (for example: [Necurs](#), [Ramnit](#), [Ranbyus](#), [Tinba](#), [Geodo/Emotet](#), [Cryptolocker](#), or [Corebot](#)).

Further details of the DGA can be seen from the reimplementation of the DGA shown next.

Reimplementation

The following Python code generates the domains for any given date and seed value:

```
import binascii
from datetime import datetime
from ctypes import c_uint
import argparse

def date_to_seed(date, seed):
    dx = (date.day-1) // 10
    data = "{}.{}.{}.{:08x}".format(
        dx if dx <= 2 else 2,
        date.strftime("%b").lower(),
        date.year,
        seed)
    crc = c_uint(binascii.crc32(data.encode('ascii')))
    return crc

def _int32(x):
    return int(0xFFFFFFFF & x)

class MT19937:

    def __init__(self, seed):
        # Initialize the index to 0
        self.index = 624
        self.mt = [0] * 624
        self.mt[0] = seed # Initialize the initial state to the seed
        for i in range(1, 624):
            self.mt[i] = _int32(
                1812433253 * (self.mt[i - 1] ^ self.mt[i - 1] >> 30) + i)

    def extract_number(self):
        if self.index >= 624:
            self.twist()

        y = self.mt[self.index]
        y = y ^ y >> 11
        y = y ^ y << 7 & 2636928640
        y = y ^ y << 15 & 4022730752
        y = y ^ y >> 18

        self.index = self.index + 1
        return _int32(y)

    def twist(self):
        for i in range(0, 624):
            y = _int32((self.mt[i] & 0x80000000) +
```

```
        (self.mt[(i + 1) % 624] & 0x7fffffff))
    self.mt[i] = self.mt[(i + 397) % 624] ^ y >> 1

    if y % 2 != 0:
        self.mt[i] = self.mt[i] ^ 0x9908b0df
    self.index = 0

def rand_int(self, lower, upper):
    r = self.extract_number()
    r &= 0xFFFFFFFF
    t = lower + float(r) / (2**28)*(upper - lower + 1)
    t = int(t)
    return t

def dga(date, tlds, nr_domains=5, sandbox=False, seed=0):
    seed = date_to_seed(date, seed).value + sandbox
    mt = MT19937(seed)

    for i in range(nr_domains):
        tld_nr = mt.rand_int(0, len(tlds) - 1)
        length = mt.rand_int(8, 25)
        domain = ""
        for l in range(length):
            domain += chr(mt.rand_int(0, 25) + ord('a'))
        domain += "." + tlds[tld_nr]
        print(domain)

if __name__ == "__main__":
    parser = argparse.ArgumentParser()
    parser.add_argument("-d", "--date",
                        help="date for which to generate domains")
    parser.add_argument("-s", "--sandbox",
                        help="domains when sandbox is detected", action="store_true")
    parser.add_argument("-n", "--nr",
                        help="nr of domains", type=int, default=5000)
    parser.add_argument("-m", "--seed",
                        help="seed", type=int, choices={0,1}, default=0)
    args = parser.parse_args()

    if args.date:
        d = datetime.strptime(args.date, "%Y-%m-%d")
    else:
        d = datetime.now()
```

```
tlds = ["com", "net", "org", "info", "biz", "org"]
dga(d, tlds, args.nr, args.sandbox, args.seed)
```

You also find the code on [GitHub](#).

Samples

There are two different hard-coded seeds, 0 and 1. The seed 1 is much rarer. In fact, I only found the one sample analyzed in this blog post. Seed 0, on the other hand, is very common with hundreds of sample.

Seed 1

SHA-256	Date
be9625921253dca2929c849d3ea04fa9d406113bda9459af2c79487e7afdac88	2015-12-23 12:00:00

Seed 0

SHA-256	Date
5d815068ed588b4b7c0ee34873548da49e4fc91aad0ceab9a2b9872670a8744d	2014-05-15 16:42:45
652a50c609acf82f10274cb917b11ec528f75154ae149203296e648948412b38	2014-05-17 23:38:21
49301bf209dc73d1c10fd5884fba33f557c9062a9285d779eaa5e81e665ca05f	2014-05-20 07:40:02
aaa45dd6f88472e50dbed9ca5fdbedffb12a81b0501613f40a1a580153d18ea8	2014-05-20 09:12:34
ae0b1c5b7967f8d649bd7e96de55253e1cbdb07baf4b65bd11e547301e1384f1	2014-05-21 13:19:44
fd38f8da23753a91f020398cff2dce264396c67e962c08b10025bc7db5d971a7	2014-05-22 07:17:25
10c744789ea2ca1f676ca5ecbff7574f9102525ba106e8598dddbe952dffe803	2014-05-29 15:58:28
e4154575c1ff28256408be805c9f3b05ed777691476a9f1d01206769a164ce86	2014-05-31 04:04:38
dd9128c3da483db4b5f0766c3ed1c18dd2bbe5c42b5cd77cf68a8f2ac6e6b7fc	2014-06-01 16:06:17
5843da19f61b5d438db50ae17792090c5887c04986351ca660c364f8287d744f	2014-06-03 00:08:30
116a557e355f10185ea4a035d97bd94d8823ccbca9237273f71fbae3fcfe672a	2014-06-04 07:27:36
2f84adbef9adeaa7f9a46928592ca558cc82e0fdc9ee19779dfb2668a2d120a7	2014-06-05 13:05:16
d53d7032bb727dfb6bd63c66715e71a7ce0c462d36682c7a3eeaebf58e490d20	2014-06-06 18:48:43
d1530f8d244893d78d2ca75ea3be8dfae2d4711b7d671bfa142fb8e334a86ca3	2014-06-09 13:24:55
2f31f1bce7502d226735c90db3bb9438a238c3c85db6e43cc2342578a0af0489	2014-06-09 20:16:28

SHA-256	Date
2ce602dccee44ab5598a2352d244f59bb1819d4d565d575cf25c6529e702f6bb	2014-06-10 15:53:57
cfc68a5d0e2999fddbcbffc18d46eac88f53361cfc5ced629099d61822941aea	2014-06-10 20:40:56
2bf98f3b39644bafd1229cefd8869547271027ea9a5aa1deef118155718af8b9	2014-06-13 07:11:49
7220cf63489009c7e7a573d387bd1f9953d0a0743439c373175dba90227949a7	2014-06-20 14:54:25
8a081bfc6637e08da73eb956e40f1a591e7281b3beeabb49db3b6d95f641985e	2014-06-21 00:54:59
9daa0a03dc1313afa810249de3072f471e095bcdc0eca03437b66bf56aae34ad	2014-06-23 09:00:51
c79aa4266b4a4a1c6387347fab90aa493d700ec56f042e8c58aaf27725ac46f2	2014-06-23 20:16:18
3a8b94a282f81e6ca03b0e2d74c1b54658ba7921f296c8675ad53fe7407083ad	2014-06-24 00:01:18
dbcd62d9c30039f73cb6ccbc84a5e356533266b6dfd92100ae563f03a40076ad	2014-06-24 11:23:53
41b2f909d27007adb2ad3e0d2be9c222ed5ed1c3c550de89b7de9b609adeef3f	2014-06-26 15:42:25
4f57d29f99cacaeb3224f4aa081cb34b5338e478f60d72afc7e2748ae135784b	2014-07-01 13:08:01
4e9493bd58f47b741200d99c701126b3c3c2131032f3bcefeb97c52cd315bbd3	2014-07-02 19:22:42
ddef1b288b1f515b1843e264366aadd14697d0a9b05481c195afaae71914cbbc	2014-07-04 18:56:52
4eb5742af2f214c9bec0500c08a8136f72762d027da948cf94b3837cc624f7ba	2014-07-05 05:56:39
6fb0ae0acec0bbdf1a0fe32bf9df850927c8f1a7b08dff316759b86cf0c3490b	2014-07-07 13:31:39
83c77d898da3356bceac9a4c2cc10b364fe7bed3cfe426a6ff69b7351ad5e865	2014-07-08 18:27:08
bddd9fe6663f115d11606aa7451cefe89f10c7003488de7ccd2daee805eb4d76	2014-07-10 08:13:11
f85384bafd4065cda9dd703ec9e6753c770d8ef1eb31d729c959971ba87c5ef7	2014-07-15 15:19:34
cc3f4bb1731d0cde57adaac4054a6f8224b2e004794e5e9803f8a1d29fa8df10	2014-07-16 12:41:48
668cb5bc660f0c1a40a57e4c13eab50865ad82e7782edd5e387f7a8a9cfd554c	2014-07-18 22:36:33
a0eab5a407ccc0db30965ed5af1a90d308d5db4e5ba53702b175dad260c1c817	2014-07-19 21:06:40
39f0b727634d479be6f52a4ec38293c70f52f4a1b73c874c24fd195dd2b1cd58	2014-07-20 01:07:15
9d2f3a3b88c05b629cbd09f41f82099677e97a14689965914999287fd1d136f9	2014-07-28 13:12:39
cb2a63e917a7056f64f0d04d9173c53d88171cbd42c690131d510e3cbc1d43d3	2014-08-01 13:48:18
92eb2a1f2306665ae7ac238d2e2f24f267dd7b996dc8f7cd04b21adb531887f6	2014-08-01 14:54:13
49224f2a90a225bca8b0e6da4375d7876a64f2b2c3b2011a36c63cfd9d376c0b	2014-08-14 11:48:07

SHA-256	Date
9c2ffb4feecb57a27f85558043f22a8618e3916eb6b5c3f60f3443610881148	2014-08-25 15:39:23
ad33569a69b8fa85bd86cd7e16ce29f71b43580973608e86b1e124e6d44f3b08	2014-08-28 05:27:53
4b2dfccc4c028dc36eed090cd7738f825e012c4e84fa5a09ee11ec4168b148f3	2014-08-29 15:51:32
155ee1e7fba4d57497759e0d8aa518393c555361057bf0428b3ef8d37bab3f9b	2014-08-30 16:06:41
7c4560025ca3dcb8d5595fbb04a87880cf9a8fd56250a1fe2edb558637f1acdc	2014-09-16 06:06:44
74ac2694226cab48a8295a4374aa0f3d5ef5060882210d8fd4202f4786943a8c	2014-09-18 09:45:56
9bd85d308b09a561f278afe1bda968784bf7d96f31c1f64f3e6e91ac1551e1d1	2014-09-19 23:35:19
0d42f249cae2837ab38a5cb79c253345df745c89947cb54a3ebe5b302cf8368c	2014-09-20 08:13:02
7ab508b49893b5f39149248756c4d30311f6edf3350661f65c86254e9cd7cd91	2014-09-25 13:44:54
dc65a1a9c2bb3752f84b29f5dd21b2a08c2b052b3af77ea22c203cb21818c166	2014-09-25 16:17:27
9395b37ed08c485e046a526bc1afaa2f701eb3299bc7bc5c0ed111ab6e6d7570	2014-09-27 05:07:31
e5d35c04738a9e44ee9a3d8a308b1a7200184b6d937256558a2bf823cc1cefd3	2014-09-29 19:45:46
d4040c8e2c9fb1fdea721d433fba10348bb57798c080e425a32641f6a0508c3e	2014-09-30 15:49:51
821ca00bf28b43e3872b3d7cf99ffbeb43836312e5ec714a9564f8de405d8938	2014-10-10 10:10:23
a4429871d35c18af61576ec45e997b9dc8997dd3a19e7e240cb8254e7d305561	2014-10-19 18:12:23
331a81a7a74997eb9523a3cd9cd0a2594a3396dfb323c45a22ab7b45bc944d9d	2014-11-07 15:52:35
41d93157341d5a94347b3fcc25c6f76ad063b171b88295da498f22f92b43520b	2014-11-11 19:42:51
9715b518783b645959533b295cc83d8e5ba01f6cd9603a553a8690f7014ad88e	2014-11-14 21:16:07
aca383ddc78cfcffd5e183aa897d1eccf0ffbf6b15dab7695705949b2632c9b0	2014-11-16 02:48:23
6a8938c1675207327a3f2295d08ea1ac9b9e6fd7f28db14edfd4f385024e94c6	2014-11-17 18:41:41
3faaa21a246a4dd1e9bd6460f773b6ee05b91cfc4f5bb726d77e0d08dba10e01	2014-12-11 02:47:50
60f09ae4ffbc8e8d6a2452ed4787390abc2b87a2ef703ac10bbd5d27a17dbfa8	2014-12-19 17:39:52
59cb803f2405228dec211fdc26de35090a66761e87396dcb741eb9eac618ff80	2014-12-26 23:05:47
9f59dbef5138cf62d0335f5ba42982422ea41dae1d1987f22a28d76da131cf8f	2015-01-19 13:11:04
632d19231bf45d7d39510ccb9e17196dcbd5ffab49b081e4ec3a40929850dba3	2015-01-21 00:09:44
0e46284032f2ae0e71effa8c58ae56a97973825ec6ce9801a554f0592553b376	2015-01-22 05:40:43

SHA-256	Date
a5f1f4372d53856b73d6565203ec673d05901f28ae2973cbcfac4765c01d5c3	2015-01-26 16:36:54
b8151f9f0c4c7995ead75125ada1737d6179f0c8e7bb6e4d13ba445c53acab3d	2015-01-27 05:10:51
5e54c98f8e937577249fa964a65004642f40b72506b16006363ec03f1db9bcd5	2015-01-27 14:45:27
85c9457989390c9284138bd87f86337bb714fce8238ade5a75fe0abe3c5b699b	2015-01-28 18:23:26
c07b58bf848d07884fdf9d5396209b2819a5df902548e77211c70b4039010173	2015-01-30 03:43:03
df326767cf56302c8ee48c781e1fc48126be9db512e65ada72574604fceb659a	2015-01-30 14:50:54
bdd5679436949c66ce1032f19cd937c9f458de0590a6b496fbc552f2bd2d096c	2015-01-31 12:45:12
a05e6ad11f6eabf79813553f3156afb5e13c507b9ffa0ef07d7861a6395bb45f	2015-02-05 05:49:56
d580f02bfd0d2a254d6cd6772a7945aad932cf4a7ba945709ebc0b8d9c1d1fd	2015-02-07 03:34:08
c505dd8c9d803030c5bc9932d61b46c3477fa2d936dac4c18d1f6192b77ee379	2015-02-09 23:46:13
9f3ee8719492483b762b455d8ac3883a287561054e8fe600c7913e5cebcc5d5a	2015-02-17 16:21:44
831ec44d888e14bd10ea7bf51b1c3c92b16315c7c85a1e8a94b369cf6b6a3cbe	2015-03-03 17:56:32
df0642ca49411a7c5eca4655e94dcc7cd97e944026cc1ca0594d86d94e016084	2015-03-08 21:31:22
7a9a5bec3ccab3b3ffaf25e2fb3ba107a69c77a08c2d580ace557e87653f0588	2015-03-12 21:43:44
4951a7f557203f979ed14f7678eee426bb8598937b4b549330bc128159cf4b7f	2015-03-16 14:39:42
c731dd9c4afd56a0e06adaa7dbfe0def2511454a73fdf3638d1c0bf9cad0343f	2015-03-16 14:49:24
3896516ea2c5c6cf1656f5d30edaf51b563263378945a82759966d2e6772fd2f	2015-03-17 18:01:08
e070f9cede2953e3f138c192806cb87f4db2498e99f15e2682759a211d2ab34d	2015-03-19 02:08:14
a821910126e4f439ac07e51eb505c26e33792d39be8f751705d77a307cd989e4	2015-03-19 12:04:25
7c37af6e28bea255796f5055942893dd6564145ca461133a078bbff949a93092	2015-03-21 01:54:37
e2dfcfed198b4e35c35f89c328683f0872b8aa9b97f2fd449517a99ceee9ab0e	2015-03-27 21:31:09
cbe183ea75fd1aab102fb7a7ac5628a7214f4088ab0c5c1c77b98c260d2239d5	2015-03-30 09:17:10
0ae1db191b38045e1187eb63e40ef45e4790e3c4a6a093f8dea39684b4e53357	2015-03-30 13:01:09
e87657c24a52d2ea359d1cdd830b1019b2ded9302728982761ab7258beaf147f	2015-03-30 21:45:01
fb5fcf8a9b688fdbb8a982d1bf2adf2fb1d8cdd5b470bd0b22cbe8a7b09a132d	2015-03-31 05:31:18
76e2c4f17a3c2a94848b4491b86cf64611b4f4c9c5fb540ebcd57d0c96622d9e	2015-03-31 11:53:44

SHA-256	Date
d36a59a1023c80305d9a33f3779b33e919808a717ed5e78259f70859cb744fa5	2015-04-01 18:29:25
caaa5c49677c7bb4422ac561ffcbbdd74703f1fec6144526ef3e3787b221b7a50	2015-04-04 04:11:54
7a6e634e5e7ca043a1ec0f2e2ec274d20940fb5b5a694e262b03938958ee9a55	2015-04-05 11:34:06
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5c145b93712b4798ab535d0d12aa872cdea5fe84614e652b7245bdf4b57e1cba	2015-04-29 23:40:47
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45bceb480ee54199c1cd241f4f4025b9e64a5f62010746227ecb25b18845d199	2015-05-28 09:10:38
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da8dadbfead1d8553d52d98ecfb04446e8ad5d78477ba50a38e8ea736ada2ac9	2015-09-08 19:41:29
019edccb0b0c3988c5a4e704c788a67f7ce8522ede8644da0aab9709b84929c	2015-09-08 19:41:35
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f275d5413612b02825bc1d34126babea5bfdadbe62627d2d163d691e6cfabacc	2015-09-08 19:47:00
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843fce353f249a5f2cfcd0c7502701d0724e49f53e5b82129f58fe993a275010	2015-09-08 20:10:25
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54dfeba5df2ce4f4f75e4b311a05b42ce635f3363f4bac2a07cc90505dcc3a9a	2015-09-08 20:36:49
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868d4e29025e30d0fac5895237fb1301161353c33f2be6407cd1453099ff4dca	2015-09-08 20:41:56
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SHA-256	Date
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9bdf5610fdb740ac15d710205fbf15cbd04807d634d3446fcc91c925c55ac862	2015-12-16 20:45:18
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82e7ea5ef62156105c12e6c6d3703d928aa1fd0c276003987792fb631232d564	2015-12-24 12:48:18

Note: I removed the Disqus integration in an effort to cut down on bloat. The following comments were retrieved with the export functionality of Disqus. If you have comments, please reach out to me by Twitter or email.

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