Advanced Threat Intel Queries - Catching 83 Qakbot Servers with Regex, Censys and TLS Certificates

embee-research.ghost.io/advanced-threat-intel-queries-catching-83-qakbot-servers-with-regex-censys-and-tls-certificates/

Matthew

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<u>Advanced</u>

Catching 83 Qakbot Servers using Regular Expressions.

Advanced Threat Intel Queries With Regular Expressions

Certificate

Su	bject C=US, OU=Vzbxanrbu Eivhtmjiabe Qjihwitl, CN=motnooz.biz
ls	ssuer C=US, ST=VA, L=Oodrsu, O=Eiuip Vilo Ubatoea LLC., CN=motnooz.biz
Na	ames motnooz.biz

In this post we will leverage regular expressions and TLS certificates to capture 83 dispersed Qakbot servers.

These servers are well made and there are minimal traditional patterns (ports, service names, ASN's) that can be used for signaturing. Instead we will focus on commonalities within the subject_dn and issuer_dn fields to identify servers.

This is a relatively advanced technique that will require a basic understanding of regular expressions, and also a paid/researcher license for Censys.

The final query is shown below. A link can be found here.

```
services.tls.certificates.leaf_data.subject_dn=/C=\w\w, OU=[a-zA-Z0-9 \.]+, CN=[a-
z]+\.[a-z]+/ and services.tls.certificates.leaf_data.issuer_dn=/C=\w\w, ST=\w\w, L=
[a-zA-Z]+, O=[a-zA-Z0-9\.]+, CN=[a-z]+\.[a-z]+/
```

Note that this post is primarily a demonstration of technical concepts that can be used to identify malware. We have not 100% validated that all results are Qakbot (although most appear to be), and we are relying on the initial ThreatFox tag being accurate.

Initial Server From ThreatFox

The initial server IP of 74.12.147[.]243:2222 was obtained from ThreatFox. Initially shared by the Twitter user @drb_ra.

Database Entry

IOC ID:	1207439
IOC:	() 74.12.147.243:2222
IOC Туре 🔃	ip:port
Threat Type ():	botnet_cc
Malware:	流 QakBot
Malware alias:	Oakboat, Pinkslipbot, Qbot, Quakbot
Malware alias: Confidence Level 🔉:	Oakboat, Pinkslipbot, Qbot, Quakbot Confidence level is moderate (50%)

Performing an Initial Search

Searching the IP Address on Censys, we can quickly identify a suspicious certificate running on the reported 2222 port.

This certificate contains seemingly random text. With long values and only alphabetical characters.

UNKNOWN 2222/TCP

Details

TLS

Handshake

Version Selected TLSv1_2

Cipher Selected TLS_RSA_WITH_AES_128_GCM_SHA256

Certificate

Fingerprint	7c39dab10cef9856318f1c3e83943b4da91140fd28bb8d2f42eb33efe4aca7f4
Subject	C=US, OU=Vzbxanrbu Eivhtmjiabe Qjihwitl, CN=motnooz.biz
Issuer	C=US, ST=VA, L=Oodrsu, O=Eiuip Vilo Ubatoea LLC., CN=motnooz.biz
Names	motnooz.biz
Fingerprint	
JARM	04d02d00004d04d04c04d02d04d04d9674c6b4e623ae36cc2d998e99e2262e
JA3S	ccd5709d4a9027ec272e98b9924c36f7

Using "View All Data", we can gather more information about the service running on 2222.

This reveals an empty service banner that can be later used as a pivot point or as a field to narrow down search results.

2222/UNKNOWN COP		View Definition
Attribute	Value	
services.banner		٩
services.banner_hashes	sha256:e3b0c44298fc1c149afbf4c8996fb92427ae41e4649b934ca495991b7852b855	٩
services.certificate	7c39dab10cef9856318f1c3e83943b4da91140fd28bb8d2f42eb33efe4aca7f4	٩
services.discovery_method	IPV4_WALK_FULL_PRIORITY_1	٩
services.extended_service_name	UNKNOWN	٩
	044024000044044040040044024044047674664662260260000000000	

The exact structure of the TLS Certificate can be established with this view.

services.tls.certificates.leaf_fp_sha_256	7c39dab10cef9856318f1c3e83943b4da91140fd28bb8d2f42eb33efe4aca7f4	٩
services.tls.certificates.leaf_data.names	motnooz.biz	٩
services.tls.certificates.leaf_data.subject_dn	C=US, OU=Vzbxanrbu Eivhtmjiabe Qjihwitl, CN=motnooz.biz	٩
services.tls.certificates.leaf_data.issuer_dn	C=US, ST=VA, L=Oodrsu, O=Eiuip Vilo Ubatoea LLC., CN=motnooz.biz	٩
services.tls.certificates.leaf_data.pubkey_bit_size	2048	٩
services.tls.certificates.leaf_data.pubkey_algorithm	RSA	٩

The search box next to services.tls.certificates.leaf_data.subject_dn can be used to pre-build an exact query.

We will use this pre-built query as a base for our regular expression.

3/20

11/29/2023 19:45 UTC

VIEW ALL DATA

Q Hosts ~	٠	services.tls.c	certificates.leaf_data.su	ubject_dn="C=US, OU=Vzbxanrbu Eivhtmjiabe Qjił 🕱 🧚 >_	Search
ervices.tls.ce	ertificate	s.leaf_data.sul	bject_dn="C=US, OU=V;	zbxanrbu Eivhtmjiabe Qjihwitl, CN=motnooz.biz"	
	ults: 1 Ti	me: 0.23s 1 5.38 (bras-l	base-ckvlon0127w-	-grc-13-70-27-15-38.dsl.bell.ca)	
	1 Match 2222/	OM (577) ed Service 'UNKNOWN Services	Ontario, Canada		
		I/HTTP			

Converting Hardcoded Values Into Regular Expressions

We can go ahead and modify the search parameter to a regular expression.

A summary of the changes can be found below.

- C=US -> C=\w\w We will let the c field match on any two characters
- OU=Vzbxanrbu Eivhtmjiabe Qjihwitl -> OU=[a-zA-Z0-9]+ We can let the oU field match any sequence of alphabetical characters, allowing for a space inbetween.
- CN=motnooz.biz -> CN=[a-z]+\.[a-z]+ we will let the CN field match on any domain containing only lowercase letters.

After modifying the query as above, we can also add a filter for our original IP. This ensures that the same IP is matched and hasn't been lost. This is a means of quickly verifying that a regex is working as intended.

We can see below that the same Initial IP is matched, meaning that the regex probably works.



With the Regex validated, We can now go ahead and remove the IP Address, leaving only the subject_dn field.

This modified search results in 778 servers, many of which don't completely follow the certificate structure that we want.

Q Hosts ~	٥	services.tls.certificat	es.leaf_data.subje	ct_dn=/C=\w\w, OU=[a-zA-	Z0-9 \.]+, CN=[a-z]	×	×*	>_	Search	
									LIII Report	
Но	sts									
Res	ults: 778	Time: 0.40s								
	75.98	168.215 (togethern	h.com)							
		OSTING (55293)	Michigan, United S		ote-access)					
	1 Match	ed Service								
	21 Othe	r Services								
	🗋 21/F	rp 🖂	25/SMTP	🛎 53/DNS	🔇 80/HTTP				110/POP3	
	⊡143/	MAP	465/SMTP	□ 993/IMAP	№995/POP	3		\$	1167/UNKNO	٨N
BAL	Q 2077	/HTTP 📀	2078/HTTP	© 2082/HTTP	Q 2083/HT	TP		Ø	2086/HTTP	
r Inc.			2095/HTTP	© 2096/HTTP	⊠2525/SM	TP		0)))	3306/MYSQL	
	/_ / 022	0011								

Validating Search Results

If we inspect the first returned result of 75.98.168[.]215, we can see that the subject_dn matches our regular expression structure, but the issuer_dn is different to our initial Qakbot.

Below is the first returned result (Which does not match our pattern). Note that it contains the - character in the CN and O fields.

TLS	
Handshake	
Version Selected	TLSv1_3
Cipher Selected	TLS_AES_256_GCM_SHA384
Certificate	
Fingerprint	733ac217ff0430a3e98c6fd3736dc95f0b25c5b3bfdee7d3ead7ce829777183d
Subject	C=US, OU=Domain Control Validated by OneClickSSL, CN=alliantmetals.com
Issuer	C=BE, O=GlobalSign nv-sa, CN=AlphaSSL CA - SHA256 - G2
Names	alliantmetals.com, www.alliantmetals.com

Below is the original Qakbot C2. Note the lack of special characters and numerical values.

UNKNOWN 2222/TCP

11/29/2023 19:45 UTC

Details		VIEW ALL DATA
TLS Handshake		
Version Selected	TLSv1_2	
Cipher Selected	TLS_RSA_WITH_AES_128_GCM_SHA256	
Certificate		
Fingerprint	7c39dab10cef9856318f1c3e83943b4da91140fd28bb8d2f42eb33ef	e4aca7f4
Subject	C=US, OU=Vzbxanrbu Eivhtmjiabe Qjihwitl, CN=motnooz.biz	
Issuer	C=US, ST=VA, L=Oodrsu, O=Eiuip Vilo Ubatoea LLC., CN=motnooz.biz	
Names	motnooz.biz	
Fingerprint		1

 JARM
 04d02d00004d04d04c04d02d04d04d9674c6b4e623ae36cc2d998e99e2262e

 JASS
 ccd5709d4a9027ec272e98b9924c36f7

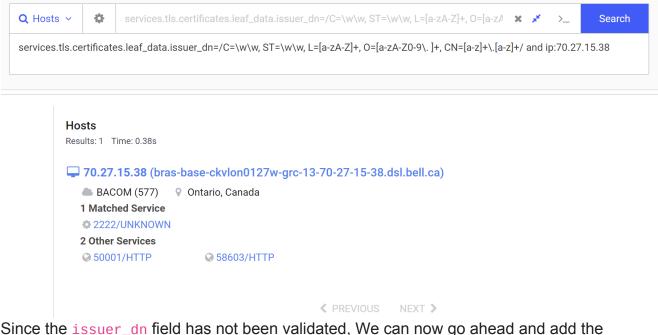
Refining with Extra Fields

The initial search returns results that match our subject_dn regular expression.

But there are results with a completely different (and not matching) structure on the issuer_dn.

We can go back to our initial Qakbot C2, and follow the same process as before to build a regular expression on the *issuer_dn* field.

We can then validate the regular expression by including the initial IP address.



Since the issuer_dn field has not been validated, We can now go ahead and add the issuer_dn query to the initial subject_dn search. We can also include the initial IP for validation.

At this point, we have a total query of

```
services.tls.certificates.leaf_data.subject_dn=/C=\w\w, OU=[a-zA-ZO-9 \.]+, CN=[a-z]+\.[a-z]+/ and services.tls.certificates.leaf_data.issuer_dn=/C=\w\w, ST=\w\w, L= [a-zA-Z]+, O=[a-zA-ZO-9 \.]+, CN=[a-z]+(a-z)+/ and ip:70.27.15.38
```



The above search confirms that we haven't lost our initial hit, meaning the regex is valid and the initial IP can be removed.

By removing the Initial IP Address and including only the subject_dn and issuer_dn, we're now down to a manageable number of 83 results.



	Hosts Results: 83 Time: 0.30s		
3	— 78.97.123.229		
nistration	VODAFONE_RO Charles de Gaulle nr. ²	15 (12302)	💡 Botoșani, Romania
е	1 Matched Service 443/UNKNOWN		
	2 Other Services		
	© 8621/HTTP \$17000/UN	KNOWN	
	 176.142.207.63 (176-142-207-63.2 BOUYGTEL-ISP (5410) Centre, F 1 Matched Service)
ERNET	@ 443/HTTP		

Inspecting the first two hits, we can confirm that we have matches on our intended certificate structure.

Certificate			
Fingerprint	3a85588536c4f52edb80668f21d982f13fea27d43db047cf3cd47cb8fc506f69		
Subject	C=AU, OU=Qooued Pkaiw, CN=opzlwf.net		
Issuer C=AU, ST=BZ, L=Terioxpfo, O=XIjms Ikuwria Yewzn Inc., CN=opzlwf.net			
Names	opzlwf.net		
Fingerprint			
JA3S	ccd5709d4a9027ec272e98b9924c36f7		
ophier derected			
ertificate			
Fingerprint	6344a38116a194c8fdab06b9c9d8d915838ee89c136fca262ec9012b0d11605d		
Subject	C=ES, OU=Owasjeidy Twra Eqhidexoh, CN=ywzsx.biz		
Issuer	C=ES, ST=LA, L=Jxtvxotc, O=Qwx Itao Inc., CN=ywzsx.biz		
Names	ywzsx.biz		
ingerprint			

Further Validation With Report Building

To save time validating every result individually, we use the "build report" function of Censys to hone in on the subject_dn or issuer_dn fields.

Report on Hosts		
This tool allows you to generate a report on the breakdown of a value present on the Ho services, you could query for services.service_name: HTTP and then generate a report		ts seen on Hosts with HTTP
Breakdown Field	Number of Buckets	
services.tls.certificates.leaf_data.subject_dn	500	BUILD REPORT
Report for Hosts		

This confirms that most of the returned servers are matching our intended structure.

		_	
C=AT, OU=Dgeou, CN=euei.com		1	0.5%
C=AT, OU=Etvub Aodozne Qekab, CN=iene.info		1	0.5%
C=AT, OU=leia, CN=ctxehfdug.net		1	0.5%
C=AT, OU=Ipucsti Adsntqtrxrp Iwqjefo, CN=miyaiwvo.biz		1	0.5%
C=AT, OU=Oxzm Wjwyrtnxoko, CN=utip.biz C=AT, OU=Uiexn Wekfbig Umxqaltyot, CN=jaonioi.org		1	0.5%
		1	0.5%
C=AT, OU=Ukhxtauzrt, CN=txefeta.info	Lots of Qakbot-like Certificates	1	0.5%
C=AU, OU=EpcInutaj, CN=oxouy.mobi	AU, OU=EpcInutaj, CN=oxouy.mobi		0.5%
C=AU, OU=Gwoictrevdn, CN=ouxtetbtn.biz		1	0.5%
C=AU, OU=Hkcaxm, CN=ghoaetksiwo.net		1	0.5%
C=AU, OU=Itllq, CN=fwoht.org	-	1	0.5%
C=AU, OU=Ixftewbm Ftllepnsa Xtogahm, CN=tqouhdk.mobi		1	0.5%
C=AU, OU=Qoaisr Mbdogioto Pibi, CN=oamt.mobi		1	0.5%
C=AU, OU=Qooued Pkaiw, CN=opzlwf.net		1	0.5%
C=AU, OU=Wxijqeh, CN=pidewaeetbu.us		1	0.5%
C=CA, OU=Aeha Etee, CN=aihpe.mobi		1	0.5%
C=CA, OU=Etiotjsaowj Eivluokt, CN=ecfvmw.biz		1	0.5%
C=CA, OU=Haltmc Cirh, CN=eivubtno.com		1	0.5%
C=CA, OU=Iblsxu Eopocsao, CN=vlquotrgamd.info		1	0.5%
C=CA, OU=Ikoaq, CN=oialk.com		1	0.5%
C=CA, OU=Ilhaenh, CN=ihaknpq.us		1	0.5%

Honing in on Domain/Host Names

We can also use the "build report" function to hone in on common_name fields used in the TLS certificates.

Report on Hosts

This tool allows you to generate a report on the breakdown of a value present on the Hosts returned by your query. For example, to generate a report on ports seen on Hosts with HTTP services, you could query for services.service_name: HTTP and then generate a report on the breakdown of the field services.port

Breakdown Field	Number of Buckets	
services.tls.certificate.parsed.subject.common_name	500	BUILD REPORT

Report for Hosts

ecfvmw.biz	
eeetnu.us	
eehpeplhr.us	
efpohwf.net	
eivubtno.com	
euei.com	Using Build Report to List Domain Names of Returned Servers.
euydxykaie.org	
example.com	
fbiafxq.info	
fwoht.org	
ghoaetksiwo.net	
gimcyeeoof.org	
haeoieee.info	
hxin.biz	
hzolorcprw.us	
iaiea.org	
ieaorbuq.net	
iene.info	
ihaknpq.us	
inqoqob.biz	

Query Refinement

There are potentially some false positives within the 83 returned results, so if we like, we can go ahead and add the empty banner hash from the initial IP.

This will reduce the hits down to 49. But it's possible that this may remove some malicious results. I did not validate this as it's very time-consuming, and the majority of servers seem to be malicious either way.

Q Host	s 🗸 🌼	services.tls.certificates.leaf_data.subject_dn=/C=\w\w, OU=[a-zA-Z0-9 \.]+, CN=[a-z]+ * * >_ Search	r i
		cates.leaf_data.issuer_dn=/C=\w\w, ST=\w\w, L=[a-zA-Z]+, O=[a-zA-Z0-9\.]+, CN=[a-z]+\.[a-z]+/ and ashes="sha256:e3b0c44298fc1c149afbf4c8996fb92427ae41e4649b934ca495991b7852b855"	
	Hosts		
	Results: 49	49 Time: 0.63s	
	🖵 190.	0.134.148.34	
tration		Administracion Nacional de Telecomunicaciones (6057) 💡 Montevideo Department, Uruguay	
		atched Service 95/UNKNOWN	
	— 149.	9.75.147.46	
		1icrosoft Windows 🛛 📥 RCN-AS (6079) 🛛 💡 Illinois, United States	
		atched Service	
	•• 44	43/UNKNOWN	

Validating Results With Virustotal

Performing a quick search on some of the returned hits on Virustotal.

The majority seem to be related to Qakbot, although we did not confirm this 100%. The full list of IOC's can be found below.

	() 9 security vendors flagged this IP address as malicious	≲ Similar 🗸 👯 Graph 🚸 API
9		
/ 88	2.50.137.133 (2.50.128.0/17)	AE Last Analysis Date
	AS 5384 (Emirates Telecommunications Group Company (Etisalat Group) Pjsc)	- Thour ago
0	self-signed	
Community Score		
DETECTION DE	TAILS RELATIONS COMMUNITY 1	
Join the VT Communi	ty and enjoy additional community insights and crowdsourced detections, plus an API ke	y to automate checks.
Crowdsourced contex	t ()	
HIGH 1 MEDIUM	0 LOW 0 INFO 0 SUCCESS 0	
→ This IPV4 is used banking credenti were spotted all t	DAKBOT - according to source Cluster25 - 1 day ago as a CnC by QAKBOT. Qakbot, also known as QBot, Pinkslipbot, and Quakbot, is a Bankin als, online banking session information, personal details of the victim, or any other bankir he way back in 2009, today it continues to be active and features worm-like abilities to s chniques, and has a persistence mechanism that some researchers believe to be one of	ng data. Although early versions of Qbot pread over networks, supports advanced
has anti-VM, anti	debug and anti-sandbox functionally that makes research and analysis quite difficult.	
5	① 5 security vendors flagged this IP address as malicious	Similar - 👯 Graph 🕸 API
/ 88	24.187.255.114 (24.184.0.0/13)	US Last Analysis Date
100		
100	AS 6128(CABLE-NET-1)	1 month ago
100	AS 6128 (CABLE-NET-1) self-signed	
0		i montrago
Community Score		Thomas ago
0	self-signed	i montriago
Community Score	self-signed	
Community Score Contract Contr	self-signed NLS RELATIONS COMMUNITY 1 and enjoy additional community insights and crowdsourced detections, plus an API key	
Community Score C DETECTION DETA Din the VT Community rowdsourced context	self-signed NLS RELATIONS COMMUNITY 1 and enjoy additional community insights and crowdsourced detections, plus an API key	
Community Score Community Score Community Score Community Score Community Detrained to the VT Community rowdsourced context HIGH 1 MEDIUM 0	self-signed NLS RELATIONS COMMUNITY 1 and enjoy additional community insights and crowdsourced detections, plus an API keep 1 ① 1	

8 /88 ? Community Score	8 security vendors flagged 217.165.233.123 (217.164.0.0/15) AS 5384 (Emirates Telecommuni	this IP address as malicious cations Group Company (Etisalat Gr	coup) Pjsc) Similar → 💥 Graph 🚸 API AE B days ago		
Community Score Community Score Community Score					
AlphaSOC	() Malware	BitDefender	() Malware		
Cluster25	() Malicious	CRDF	() Malicious		
CyRadar	() Malicious	Fortinet	() Malware		
G-Data	() Malware	Lionic	() Malicious		
	~		-		

Conclusion

At this stage, we now have a <u>functioning query</u> that capture 83 servers. We have not had to rely on port numbers, port ranges, or ASN locations to hone in.

Here is another copy of our final query.

```
services.tls.certificates.leaf_data.subject_dn=/C=\w\w, OU=[a-zA-ZO-9 \.]+, CN=[a-z]+\.[a-z]+/ and services.tls.certificates.leaf_data.issuer_dn=/C=\w\w, ST=\w\w, L= [a-zA-Z]+, O=[a-zA-ZO-9 \.]+, CN=[a-z]+\.[a-z]+/
```

If we observe the returned results below, we can see that the ASN's and port numbers vary greatly between the results. Meaning that many traditional query styles will not work.

Hosts

Results: 83 Time: 0.30s



Related Content

If you found this content useful, check out some other related posts over in the free <u>Threat</u> <u>Intelligence</u> Section.

Malware Analysis Content

If you're interested in learning simple and advanced workflows for manually analysing Malware. Consider checking out the <u>paid content</u> section.

This section includes tutorials for extracting C2 addresses from real malware samples. Manual C2 extraction is a great way to grab c2's for pivoting, prior to them being identified by other services.

IOC Lists

IP Addresses

2[.]50[.]137[.]133 23[.]93[.]65[.]180 24[.]187[.]255[.]114

24[.]187[.]255[.]116 24[.]187[.]255[.]117 24[.]255[.]174[.]187 31[.]117[.]63[.]201 35[.]134[.]202[.]121 37[.]210[.]162[.]30 39[.]40[.]144[.]179 41[.]38[.]97[.]237 41[.]99[.]46[.]66 45[.]65[.]51[.]130 46[.]251[.]130[.]164 47[.]16[.]64[.]215 47[.]149[.]234[.]6 50[.]99[.]8[.]5 60[.]48[.]77[.]48 64[.]46[.]22[.]26 64[.]229[.]117[.]137 67[.]60[.]147[.]240 68[.]160[.]236[.]23 68[.]163[.]65[.]72 70[.]27[.]15[.]38 70[.]29[.]135[.]118 70[.]49[.]34[.]218 70[.]52[.]230[.]48 70[.]121[.]156[.]34 72[.]190[.]100[.]201 74[.]12[.]145[.]202 74[.]12[.]145[.]207 74[.]12[.]147[.]243 76[.]142[.]13[.]8 77[.]124[.]85[.]166 78[.]97[.]123[.]229 79[.]130[.]51[.]242 80[.]192[.]52[.]128 81[.]151[.]251[.]196 82[.]76[.]99[.]171 83[.]110[.]196[.]111 83[.]110[.]223[.]89 84[.]155[.]8[.]44 84[.]215[.]202[.]8 85[.]49[.]243[.]230 85[.]243[.]247[.]137

86[.]97[.]84[.]192 86[.]207[.]26[.]60 86[.]236[.]11[.]235 87[.]223[.]92[.]180 88[.]249[.]231[.]161 90[.]4[.]74[.]222 95[.]76[.]193[.]223 95[.]149[.]166[.]38 96[.]43[.]115[.]158 96[.]248[.]1[.]183 97[.]118[.]24[.]246 100[.]2[.]41[.]26 102[.]157[.]101[.]136 102[.]157[.]244[.]251 104[.]157[.]102[.]161 108[.]4[.]77[.]65 108[.]49[.]159[.]2 109[.]48[.]28[.]129 121[.]121[.]101[.]31 124[.]13[.]232[.]162 125[.]209[.]114[.]181 136[.]232[.]179[.]26 141[.]164[.]249[.]90 149[.]75[.]147[.]46 151[.]48[.]137[.]184 161[.]142[.]99[.]88 168[.]149[.]47[.]164 172[.]77[.]204[.]25 172[.]91[.]3[.]194 173[.]30[.]189[.]100 174[.]164[.]68[.]180 179[.]158[.]101[.]198 186[.]182[.]15[.]91 187[.]147[.]137[.]67 188[.]48[.]72[.]229 189[.]253[.]235[.]140 190[.]134[.]148[.]34 197[.]2[.]11[.]142 201[.]103[.]222[.]151 201[.]244[.]108[.]183 217[.]165[.]233[.]123

Subject Common Names

epyhm[.]net twmbelz[.]org iene[.]info ctxehfdug[.]net utip[.]biz jaonioi[.]org vcivoqeqfh[.]us ineieutzvt[.]mobi tuayjhrdwg[.]mobi oxouy[.]mobi iemjmedtey[.]biz ouxtetbtn[.]biz ghoaetksiwo[.]net fwoht[.]org tqouhdk[.]mobi pidewaeetbu[.]us aihpe[.]mobi zemureisir[.]info oialk[.]com ihaknpq[.]us jqseote[.]us gzfjtyr[.]com aeztfeq[.]net qbez[.]info omloeceqiu[.]biz ztiorhvb[.]net lfad[.]mobi egatcwojan[.]us zcstobno[.]us faexgkbimwe[.]org bdae[.]info xoehdsoeao[.]org iekztmiw[.]com oojfkdbgiec[.]info ioiu[.]us jaouem[.]info xocsuioij[.]biz euydxykaie[.]org ipzc[.]net Imatetu[.]mobi

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