

00. Exposing a Currently Active WannaCry Ransomware Domains Portfolio - An OSINT Analysis

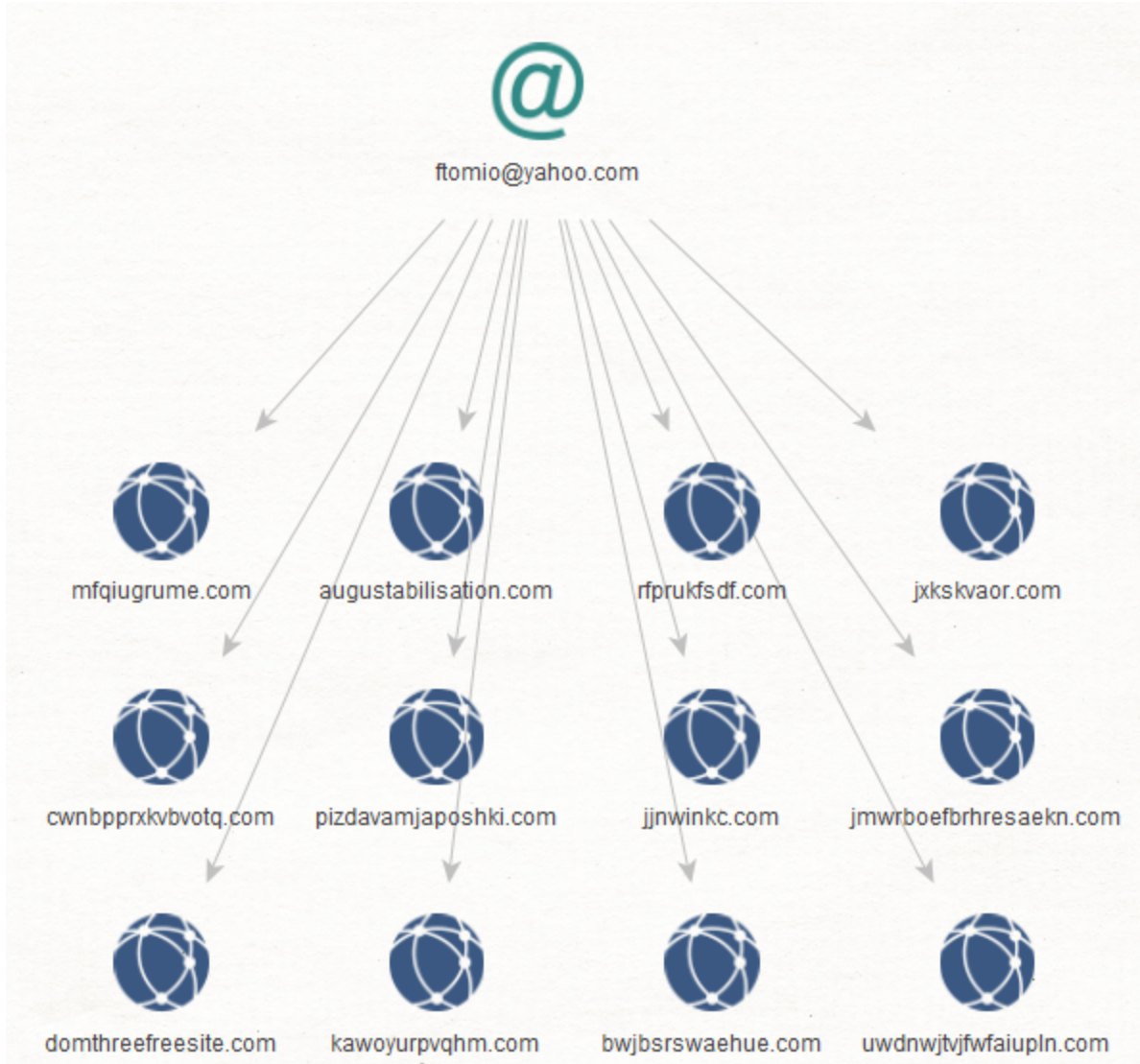


We've decided to obtain a publicly obtainable and accessible portfolio of WannaCry C&C (Command and Control) servers and attempt to offer practical and actionable threat intelligence including cyber-attack attribution information for the purpose of assisting the security industry on its way to track down and monitor the true botnet masters behind the campaign.

In this article we'll offer practical and relevant information including actionable intelligence on the Internet-connected infrastructure behind the WannaCry ransomware campaign using Maltego in combination with WhoisXML API's vast and in-depth real-time and historical WHOIS database.

Sample ransomware domain C&C (Command and Control) domain registrant email addresses known to have been involved in the campaign:

ftomio@yahoo[.]com
novid6666vfqjbggghyyyyyfark@mail[.]ru
novid6666vfqjbggghofark@mail[.]ru
pinda1g5r5y77@mail[.]com
botsmustdie@gmail[.]com
contact@gitmc[.]org
admmmin[.]mihretya@mail[.]com
iwkitakumgb@yahoo[.]com
vj11q99hp7qi2i@inbox[.]ru
iqoption[.]store@mail[.]ru
rafalskiy[.]83@e-gifts4you[.]com
zb2626022@mvrht[.]net
lon[.]bin@aol[.]com
everydomaininplace@mail[.]ru
vj11q9t9polokai@inbox[.]ru
evgeny[.]kamyschov@yandex[.]ru



Sample ransomware domain C&C (Command and Control) servers known to have been involved in the campaign:

cgvnwyfmh[.]com
 gssbjwhoose[.]com
 b18w187yebsoi[.]com
 hvvflaobcvavhxcvrx[.]com
 eukbhtrjtp[.]com
 aoyllsqihxxrvs[.]com
 ydwqpuwjpxij[.]com
 samtbqdmwqnp[.]com
 tinjahgsutmdj[.]com
 bnmokfrjpylxhvmwx[.]com

mheaamwwb[.]com
ovokgnrkbhivynnn[.]com
bvvimdtiuuceto[.]com
limyhsqxryqauxcfkc[.]com
fajsnjrkdnuceblmg[.]com
dqbbdvdqayfhvvv[.]com
igdonhdghkisinfvll[.]com
wsajncqredi[.]com
uaseqxa[.]com
fxejmhvijoyxjcmly[.]com
csbtvxvo[.]com
jqibggawcw[.]com
eobqwmqykyyk[.]com
mpiknurw[.]com
upvuyweywb[.]com
xvsspqcuvwihdc[.]com
wrisadfh[.]com
wmlccrlbupoplhjteyt[.]com
otqobichpcl[.]com
ldyyeaitaqn[.]com
hvxfiyqicrtunxs[.]com
ifobhuxbpovgjxohnp[.]com
hftolixcdquc[.]com
acgmypwiyhymde[.]com
baidu[.]com
ijhmdbjgejoflewk[.]com
oqdmeolksujhud[.]click
tmoojygvvoibfvocug[.]com
hkknabxegrfebwwp[.]com
jliypjygykcc[.]com
mqiktrhxhikoygwj[.]com
aruwggvopgxpah[.]eu
smsyalkclunrd[.]click
vutptwpxhkgjeql[.]click
aeetbyamuwb[.]bid
fmahyrlaklrseclq[.]com
hvarfqrqddfof[.]bid
ptfwlavyhrnct[.]com
wmrsfhcaqspdg[.]eu
ju73yehh652te6y[.]com
ijjsshatuadmd[.]eu
bxocmvif[.]com
xxkdbpcrygynpcwujdx[.]click

tettcsxxmnnllxwtg[.]com
rgcakqlu[.]click
kfupalynvdsbruyx[.]com
rycvrswhnhgytj[.]bid
jyortffmmirelhqdmf[.]com
qaskdhtuinhhmfsbcu[.]com
vqewethewii[.]com
saiuxoqkfuj[.]com
qynmkrfl[.]com
rnfkbasigquaqwao[.]com
tsuqpkd[.]com
qrarxngrqtmioqnawg[.]com
iwobkqnbkckt[.]com
h62yeey62tqgshy[.]com
rutmrdustdsynx[.]com
kpyatdyqtcawoq[.]com
xyefkhkqfs[.]com
jcyikvtdkynmfqmpvi[.]com
vfjbsbxoqgdeayhu[.]com
cpyyuydoqvdh[.]com
odvposjpkihv[.]com
gsxglmcxyd[.]com
skhclnfws[.]com
nojpwfmcnowkp[.]com
ijqsiskkdy[.]com
vocxwvkwml[.]com
ynjyqtgjpullsfaw[.]com
fpbagtcbmcdcyeu[.]com
jauybjisqwnoscjtwiu[.]com
sxavjnfrwrrq[.]com
lmfdaoefn[.]com
uwyaruxharsm[.]com
dmfvkcsyddmelo[.]com
toersratxvnjtsaqdp[.]com
grojppof[.]com
usrfyjueaneumqx[.]com
naposwgfbt[.]com
gvublwkg[.]com
rgmayedyahatevqyuc[.]com
swwqmpjpvdbxsjos[.]com
rikbrsqoyjjpb[.]com
yyygshsshssjhsheush[.]com
chceoqemftwldiucf[.]com

ghnsonrgujyymhvvg[.]com
google[.]com
hshshshsussiiwuwyw[.]com
irianyrijj[.]com
gacvuwlgsxthte[.]com
ojrpdqrynjxcxep[.]com
ckkxyupextanlvcrdig[.]com
j7362yhhstwr61ki[.]com
fdgbdfoaq[.]com
mkjwhutycli[.]com
unpdjyjymnldqv[.]com
cfvvhpilqri[.]com
keekovgflbyhapom[.]com
jyflqilh[.]com
ochmemne[.]com
rmydloxxpugbyalc[.]com
bsvxaqwgwstggsaad[.]com
bibcxgoilxejw[.]com
dejcuwekbybdqvdxax[.]com
ljewfxhym[.]com
vnjnoketbygeovrff[.]com
gpvuowahrsxwnytibuk[.]com
kegilaojbgxsunye[.]com
dafnpgrvujrsmjkbkdd[.]com
tbaieqlxhwdlxp[.]com
havciiqgbaf[.]com
jrxhklatqmqh[.]com
ngbclncfxjdsmmribt[.]com
hjxrlogjgyapjk[.]com
ehbplfdefjihylvld[.]com
qihksfkx[.]com
dsdbwncsbdgrptrmt[.]com
sxkallpiiknswi[.]com
kofeydncog[.]com
enkxctjh[.]com
guaevvaxrujnobfytud[.]com
wkoebopguwyjoinyubl[.]com
aujastmvehxqmlbb[.]com
toxprxithlakdnoiav[.]com
nqnydlniuvyxs[.]com
vkjqhghdfxdmf[.]com
cdmjnwct[.]com
eofvvdkbs[.]com

twdqbwjwoygiwanqqb[.]com
dqemqcbxgofddopclb[.]com
kxixbnaim[.]com
jnoqbdaw[.]com
ylqdywltwgeoxqfcax[.]com
acpjdcdkveempfmhs[.]com
tpmmmhgg[.]com
ryoeebqqbigfm[.]com
augustabilisation[.]com

Related ransomware domains known to have participated in the campaign and are currently in operation using the same domain registrant email addresses:

rrcccphsaoye[.]com
sjvishymfmbmtyrvry[.]com
rradcacnoc[.]com
uaseqxa[.]com
xauylcgoqijqfmck[.]com
tpaubbtjkgiverk[.]com
ludvoxybkooeyfmcbl[.]com
wsajncqredi[.]com
aeblrkyvqmk[.]com
echrepdvcd[.]com
hfltolixcdquc[.]com
dqemqcbxgofddopclb[.]com
fkovkvdmpunethwtg[.]com
ggcfksuyghejmnpe[.]com
hfhiixbkbkk[.]com
ijhmdbjgejoflewkl[.]com
pnhdqltkumbyhqyrtqi[.]com
psxflijwmxgnnag[.]com
rnybnenkcfvfpqc[.]com
xxockvkwmaiigrv[.]com
emvgfshkhldeyou[.]com
wwmpetrwryslk[.]com
udbqsimre[.]com
dlkorrundbuov[.]com
mfvgfeqskjbdvgbk[.]com
shmhmhfmnxvr[.]com
redirect-pendakas[.]com
panderasik[.]com
fpbagtcbmcdcyeu[.]com
real-time-chat[.]su

gsxglmcdyxd[.]com
erwijiyasbvfe[.]com
lhbktineroxhd[.]com
elptuelny[.]com
gojmwuuvmp[.]com
bmoqgnuyxdvtnnjnf[.]com
saqjrigpkuins[.]com
emvgfshkhdeyou[.]com
kbvvvcomkgdhat[.]com
wwmpetrwryslk[.]com
rrcccphsaoye[.]com
xqfqrtrtkdxdi[.]com
slcdnbhpcwtokt[.]com
yntwugycoqchtuf[.]com
dxlrhalgceu[.]com
akihabarastst[.]com
akihabaraastt[.]com
advnjlgxwpp[.]com
ijqsiskkdy[.]com
igypwmdmvlcpmti[.]com
vkaisysaikqxpsb[.]com
gcygxdkpl[.]com
xqrugamfsyrvpyncxi[.]com
uacujgnkrqpmjiwfb[.]com
qwpplvisjrturjnwoab[.]com
rnybnenkcfvfpqc[.]com
xyqrydep[.]com
xxockvkwmaiigrv[.]com
yglfncpiwrhdemv[.]com
qynmkrfl[.]com
mwbsgpeaty[.]com
drppnhmaivkocfkbpwa[.]com
pvalavol[.]com
real-time-chat[.]su
ynjyqtgjpullsfaw[.]com
gsxglmcdyxd[.]com
aeblrkyvqmk[.]com
echrepdvcd[.]com
hftolixcdquc[.]com
oqdmeolksujhud[.]click
wsajnxcqredi[.]com
fpbagtcbmcdcyeu[.]com
sjvishymfmbmtyrvry[.]com

rradcacnnoc[.]com
uaseqxa[.]com
uwdnwjtvjfwaiupln[.]com
wjilpplshq[.]com
bwjbsrswaehue[.]com
xauylcgoqijqfmck[.]com
kawoyurpvqhm[.]com
tpaubbtjkgiverk[.]com
domthreefreesite[.]com
jmwrbfoefbrhresaekn[.]com
jnwinkc[.]com
pizdavamjaposhki[.]com
cwnbprxkvbvotq[.]com
jxkskvaor[.]com
jqibggawcw[.]com
rfprukfsdf[.]com
ludvoxybkooeyfmcb[.]com
augustabilisation[.]com
mfqiugrume[.]com
newvoluum[.]com
redirect-pendakas[.]com
panderasik[.]com
qaskdhtuinhmmfsbcu[.]com
elptuelny[.]com
gojmwuuvmp[.]com
bmoqgnuyxdvtnnjnf[.]com
saqjrigpkuins[.]com
udbqsimre[.]com
dlkorrundbuov[.]com
mfvgfeqskjbdvgbk[.]com
hmhmfmxvr[.]com

Sample malicious and fraudulent MD5s known to have participated in the campaign:

f5a0fb2a7caa7a052647c8170c1a39dbdc772730c9069373b612345bd124622e
f5d6a1eb0a72c3a4a446f4ba297f2ab5ec185a726006213f583ddfa95742fac
e928f0be5cf2d2b2deb64d59660a85285d36e238293ab6a8a014a4fd60240abe
5c74f0be1ec68220be491d20972fad07ce3dcd059f72501b597385fdb9b304cf
21a83bc977780bbf1251ed86fce1f50f8ce9d8214f09bbc5e4b8673b60ef389e
e979987834dfd269b01bc7b8b4c8893fcbef1c4d0b79799ad954d93870a14be9
ddf300327e42915cf5626d5fa389766028eae4395b20f6ed523e843b8f942c7a
22465d69056b65fa51bc42513d1e8157d4f71cb0413b462b9c34e1f1c6195e1f
15c8cfc80d01d03353e3746da7e800e1b791fa59e863a0e5412650c2970f5687

fa46893d81d0caf8f037697d6511d2a6ac8badbf733022ee38a4d3c86ab7abfa
f7d28fa1e7b728b9b5fc444575bec68ac41488b431191288b2c1af94077439ca
e03c90058cba1f74276fc44e28c812af13c3cb6e418fc9398b4ef9a024943a
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af19edf1aa583d0384110b98b76ac5daeeab8f1427cedf4c22729842bfff66b1
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429f1840a18a5c50948773b63c9f076c5e24e371ff56e2813d0704a69a9cca52
b18b0e1302bfa6cad723c35ca989858248efdf72912da44da90ecfdab38cc0be
b378755ae87b9a4feb9a8940ec0a02211043ff43ff12e00fb027375c28f7caeb
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fe892188103e7160085d6ce0e8d5355b9b190f4cebf23000e88ad11859543c41
b3dbeeae22d07055123ed15be99416a93f783914e575329e7a12ba1baf3c72d9
b3d169b52dd14b8126bb6af1011e49f1734b8331cac48ceb386986000f8225e7
40bddda8cfb2e3b947c54e7295d60d62fdb7ce0e9b0593607340f5b2ca323769
01b57627ffcceed33cc4b0336f59656c4a9f17cb9870b0fad3eec1f2dc295585
ea877639f118c4756b1d3bc436347082e4ceaab4e69f5a4c28ac3f0416210222
57adba8dea8bd0eb8dab7a2e77a52823b60b6062df64c77af0f5bfd7eafb542c
a0fa7f51ccc22758db6956153df2ced9190980a1e6f33080f270f7ae9b3188e1
67b08a01a0d74857d5cf3ce1f9c74ff288cd40d187c9c02fc31ebc15d5f410b0
a136637e02c645e1eef4361395e685fcc9ac8d2068722ac6f6f6260885533ca
652abfb459e9d6a05bdda4fa482e6aaaac015d68cf5cef880b8cf8040b8ca0dd
49d868552b108b370ff00c738dbeb963f27e15d188ea3d4a367af3d19b9cee96
a75c5339fdfd2f2649153d3a7fff48bc4a4786b20fab4bf06269182442de0ab8
a6e0640fa76e8338fada84d6be7d64e6407d29fd27775f2bad8b3a7fb3c08eec
1aae50f2beba15b9123317ebcb113735f0c543a28fedfa8318ca010adb5d8ac4
471e411494ceea1634aa7489ca579bff4c1a9c315b44c5484e3e30080fbf4391
567196ac39670f67c7af204915ae41aca9b25ce6de90ea0168c1e9bfded661d7
a8170f7b1eefd823af69669f7f2a8fcbd811b3f61844df895cb39886d5037d51
6681b275869f1a9ff80c9aa5d74c0d665105921fd1dd3fee8382072b3167d742
634438cebeb6bb1cf72feec06a4db3082940d493abbc1c045b340dba0e245569
4223752fd2b8af103bf7d22745e12549ad38d44c4d3935afdd4b80b3877949ce
add5d1b4d686d8af3ae108154ee4d60b57ecc395aee20a721bc1cdd1a46bc84e
431ebf39e7e4b6d9948858490ac9f5b45391e1d0606413dfe6a94a7ba9edcaa5
b0cf501f816d7d317228e38842873b9a196d4d1f6095868f8be1a157d3e1e477b
a54d5b2eeb35f65c0a76051e28711995106f8cc296e836e61801310cb52f348d
b1f0692072037b48a2a3752afd028d03faa418797a572765b21a9c50387c8fd8
a5d79d48c8dd707abc97754e9553ad7a0d1a02f042f2098c43932669ed7cd615
a72f4ec974bb1a8e8939962975727bf0039dc2791ffbcf599be8d3ee71614581
564225f993995a0f7c3db79c03764aa5c2d8a92a3b10d36554715c2c917b0f33
633568b6a3a037f4565100498c1e97d07327dc1c44ce1fd71eefac76e72443c5
40afc4d1b02721c6c24b722034d042948abfda5674bf4639dcbf8384421e6996

b44d3c7b11901834bdf1d2bc614bc9401353328529737bf525dbd60dbe5e053
b4e5a9ec7466afaa9ae86b386a47743062fa518ac4f9af3715e5ac46ada47a3e
11bf145258aa2a39d7ce0afba030ef8efe4b91652e0eb0abcc4b58845b94b00d
b52412403fb8664e3fd23bfc2581f6dc51cb89818c7faa52b1a928d0a26c6eae
b51f5bd7e934e55b21558325e46cfd2838e598c75eab776ead2dcfcd521944c
710a5800ff33027dc1666526b296d2338fb77e44f955486ec59b70085196941d
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a10bd77a06886b72a268c15700346273351b96dbd0bf26c8020316760d05a2b9
a3cb499d11df0f17b344d24859e44d331b3a2897c8eae4f748d507f6eebb097
a446895380d07868728bf23f93e64b052028ec0f8fd9ff41e8ec0aed58ac4e9
a4e89971ea45149ca95107f1a57611bbec12ad6cbcca4c840519df92fd78dad3
a59e663b14d91ecfd3c1ededd3e8dea799a45cbf8808e754b138d6f7ac70b6af
47624985b79314597e7159971bdc9df67093c04749bf040cfb3536589881af60
4753a1b00522f4965addf258ab649304a28c14e89c5e21e4fe9c85f73d99f4f0
aaffdea49f9dd7f001d85c50292c83934a287b74b30ba67e0ce126b50c377c6e
ab9beeb5267744e6290177c922ae34ade5effa1094c99bc09bf4f5f911dfec58
4517ff57ada354cd81baeed4651e972fff771141d0b8f849ab8026e9c46f838e
8b87e13de1243c8e5f396404bd97c0f4b14f1c25c11bdb1c4dbbc206e096c
3cee28ef52c59c99b841c6927f5085e483523cb8b606ff9ce5d60b3c13574545
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a5b1fafb584555a5ebc1fe93d9d4646722a86b7a66ea804b68d31a2e57f44655
4c0c0b05bd6502c5c724acc3545ad57c556b23575a0c896e5ebd898d7d4e72b6
3b2450ffa3aee17fabf8ed63ad61d17f27fe69acefae4c83ca435008d8ba3f5b
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9ce412d43679dad6a70860e796535165b62a410b7b594010137212fd384b2fcf
713deab3fc7915e12f79cc863f115b45f8ac2815b6c8a59a4491820c346c0d6e
df343c17b93724353a586aed3fde3ef951a0cf75b1efea54bd800bb16494b950
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276266b76765a547663b91b3c819e018b0e0f97579a70dd15da14bd7a201bd92
5135d85fda95e31ce21b09c09761395316ee077f338ab96fed7631d2df22fa61
87c1c019ffde095bb3b2e8f03e8fd10843570991f7325c1033169fe288d975e7
ae39bb89911ee4e91e5d4bc7c7f788892f3c02784b2cf63d1ffa9e33867f36a2
4508841f23d73a3bfeb2cb9bb48658a34652654a5c22f9b5219e5817b888e220
b159f660c87d07a9718351deffb308106a8394eb2fbb1cd2bc988906980d8853
5676654bc556670ef4ed5f8ef5f62bee9738f57c8ddd542b1e7b14cf8562a5fc
42247d968d1e5fd7a66b370dc3062000f4296b6706c7f7d76d10c249861b72cf
10dc747a33fe1f8093b3c32eb1e2a724d171cf9a7d8d0eb68212588634643dfd
449f5ac9c6e3684c14a2a6367f3b89c130e44c94edcb5d7ec1862e08fa521885
ad728ef9684f1af5a08f28583fbc62c470c6a6966f2d53aaf572569ed6715011
afe0c3d5441d68581ec4119b43d831a1e3da562f1799a27bad7f1539f970324d
b008f88bb3a0676714156aa1d86fc37b2598fce4eef84b1b10c29fd4f9bbf7f4
b0b36e347c9713a6228a7855414bf943c5ecf1224bd87595b6254b724f92b22d

418e42b1f430b563fbe6cce8ca647cd672b0c70a5b2e22ee78baa057bbc1f7f9
dd3853e4040c21d097e99d89526e7c92c9cda561db6cbd5015d2149f73a40152
71df30de9426dbc1e57b0926bd7bcad0f0cf0b55785bbfef90329574c24f1765
6e79681c836558c05e0aac34dbe373e2abb935cc71ea9b1b11a917fc40a7142b
490659ca1f9dcfb5086a9c90da5300252eaf830c234b3527870ca78c24f03115
fa71ca457eef736058aa36cdf3cfdbea46d2e84937dea8c17439075e256af87f
ed0bb38bf1bfb41be1ef6d3559e8593f1f5150707bc60cd89dd376e4d23d217
8618d32ec33cfc78f8d05b280f81f4811290d9ed3d631f9721da65ad152d0051
eb37de40491a8198cfb0f8b6b343ff6a071e8d8a2123cf310bc28aaae5139e37
a7c4dac7176e291bd2aba860e1aa301fb5f7d880794f493f2dea0982e2b7eb31
d4fde2d61e759a32590441d13daf95a8b56dcace4c4b57b2a0e4ae0ea109ba35
24d6861d0cc0d6d7182fbb238f8c4ecd13e0b648da4851cbd930f41b099c79ed
80db2c8fff5fc7e0a65eff533d25311851cf951ed6d9d1bfb0b3cb545d45b73
71800dbea448f5e059b88ec618a5a379f91003f0f3cd7ef5f2d41c575ee84dff
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We'll continue monitoring the ransomware campaign and will post updates as soon as new developments take place.