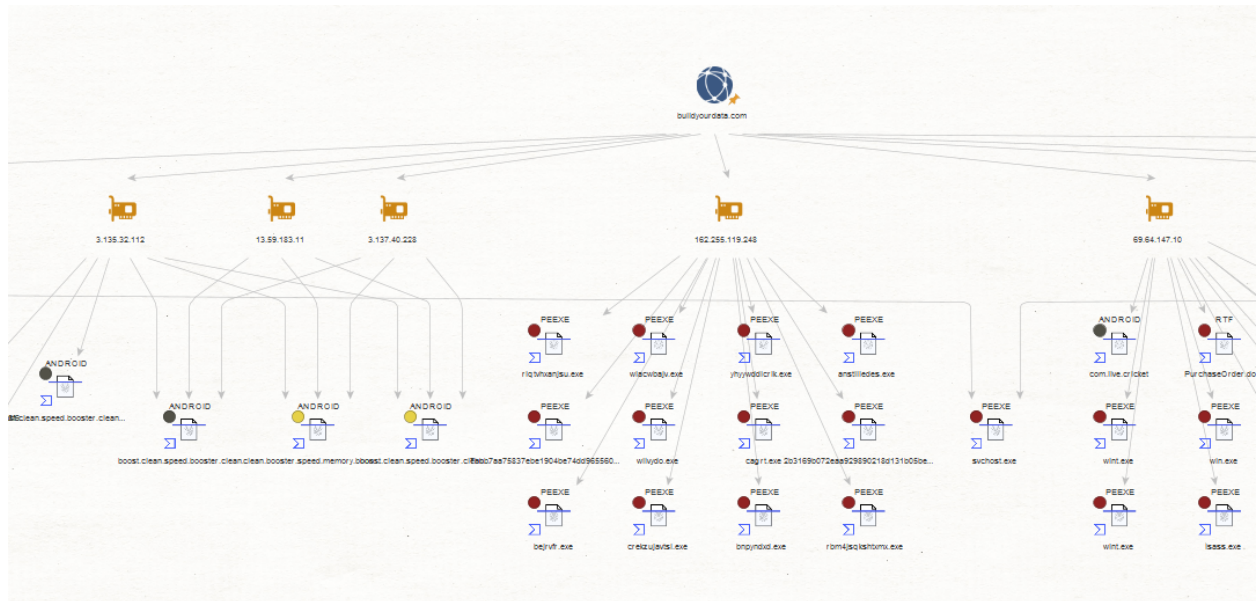


00. Exposing a Currently Active NSO Spyware Group's Domain Portfolio - An OSINT Analysis

We've recently come across to an Amnesty International forensics research detailing the Internet and domain-connected infrastructure of several recent and historical widespread NSO Group spyware malware serving campaigns, and we've decided to dig a little bit deeper into their connected Internet-connected infrastructure and offer practical and relevant actionable intelligence on the actual owners behind the infrastructure using WhoisXML API's vast and in-depth real-time and historical WHOIS data in combination with Maltego.

In this article we'll take a look at and profile some of the NSO Group's currently active Internet-connected infrastructure for the purpose of offering the security industry the necessary IoCs including personally identifiable information which could greatly assist in current and ongoing cyber-attack attribution campaigns.



Sample Screenshot of a well-known NSO Spyware affiliated Internet-connected infrastructure in action

We've decided to grab a copy of several publicly accessible and publicly obtainable domain portfolios of NSO Group spyware domains and use WhoisXML API's vast and in-depth real-time and historical WHOIS database in combination with Maltego in an attempt to offer practical and relevant threat intelligence information on some of their current and ongoing campaigns.

Sample well-known NSO Spyware Internet-connected domain infrastructure in particular well known domain registrant email addresses:

angelodupre@outlook[.]es
s-h@chorus[.]ocn[.]ne[.]jp

nikdeapen@gmail[.]com
lisovyy89@gmail[.]com
domain-hk@outlook[.]com
ceo@intellimath[.]com
varela_george@corp[.]truxgo[.]com
baomat@dichvubaomattenmien[.]vn
eran[.]benami0401@gmail[.]com
jcdejesus609@gmail[.]com
lmatheo35@gmail[.]com
lidorg@nsogroup[.]com
Lynn[.]abelen@gmail[.]com
JANETWINBLOE@GMAIL[.]COM
info@my-ananda[.]co[.]il
replay720@hanmail[.]net
annettbohler@gmail[.]com
Ahmed[.]Almansoori1982@outlook[.]com
info@chinacapital[.]com
gulstad1@gmail[.]com
IT@nsogroup[.]com
maxlindholm68@gmail[.]com
carlydewitte@outlook[.]com
kelly[.]stephens@utoronto[.]ca
anshul@z[.]biz
rbolle68@gmail[.]com
domain-hk@outlook[.]com
elvinymannn@gmail[.]com

Sample NSO Group spyware domains known to have been or are currently participating in various currently active malware and spyware serving campaigns:

alljazeera[.]co
bbc-africa[.]com
cnn-africa[.]co
unonoticias[.]net
univision[.]click
track-your-fedex-package[.]org
mz-vodacom[.]info
iusacell-movil[.]com[.]mx
sabafon[.]info
newtarrifs[.]net
y0utube[.]com[.]mx
fb-accounts[.]com
googleplay-store[.]com

whatsapp-app[.]com
accounts[.]mx
adjust-local-settings[.]com
emiratesfoundation[.]net
topcontactco[.]com
icrcworld[.]com
redcrossworld[.]com
checkinonlinehere[.]com
turkishairines[.]info
bulbazaur[.]com
pickuchu[.]com
aalaan[.]tv
accounts[.]mx
alawaeltech[.]com
aljazeera[.]co
asrararabiya[.]co
asrararablya[.]com
asrarrarabiya[.]com
bahrainsms[.]co
bbc-africa[.]com
bulbazaur[.]com
checkinonlinehere[.]com
cnn-africa[.]co
damanhealth[.]online
emiratesfoundation[.]net
fb-accounts[.]com
googleplay-store[.]com
icloudcacher[.]com
icrcworld[.]com
manoraonline[.]net
mz-vodacom[.]info
newtarrifs[.]net
ooredoodeals[.]com
pickuchu[.]com
redcrossworld[.]com
sabafon[.]info
smser[.]net
sms[.]webadv[.]co
topcontactco[.]com
turkeynewsupdates[.]com
turkishairines[.]info
uaenews[.]online
univision[.]click

unonoticias[.]net
whatsapp-app[.]com
y0utube[.]com[.]mx
14-tracking[.]com
akhbar-arabia[.]com
animal-politico[.]com
nomorewarnow[.]com
noticiaspolicos[.]com
nouveau-president[.]com
politicalpress[.]org
politicoportales[.]org
politiques-infos[.]info
revolution-news[.]co
shia-voice[.]com
signpetition[.]co
social-life[.]info
un0noticias[.]com
un0noticias[.]net
universopolitico[.]net
adjust-local-settings[.]co
afternicweb[.]net
arabnews365[.]com
banca-movil[.]com
ecommerce-ads[.]org
kingdom-deals[.]com
nsoqa[.]com
pine-sales[.]com
qaintqa[.]com
remove-subscription[.]co
track-your-fedex-package[.]online
ideas-telcel[.]com[.]mx
mymensaje-sms[.]com
network190[.]com
secure-access10[.]mx
smscentro[.]com
twitter[.]com[.]mx
all-sales[.]info
arabworld[.]biz
beststores4u[.]com
cheapapartmentsaroundme[.]com
daily-sport[.]news
dinneraroundyou[.]com
findmyplants[.]com

housesfurniture[.]com
kingdom-news[.]com
mideast-today[.]com
muslim-world[.]info
news-gazette[.]info
nouvelles247[.]com
promosdereve[.]com
sunday-deals[.]com
wonderfulinsights[.]com
banca-movil[.]net
savephotos[.]net
onlineshopzm[.]com
zednewszm[.]com
zm-banks[.]com
zm-weather[.]com
nothernkivu[.]com
afriquenouvelle[.]com
allafricaninfo[.]com
centrasia-news[.]com
mystulchik[.]com
odnoklass-profile[.]com
sputnik-news[.]info
tengrinews[.]co
sergek[.]info
egov-sergek[.]info
mykaspi[.]com
kaspi-payment[.]com
e-sveiciens[.]com
klientuserwiss[.]com
kurjerserviss[.]com
reklamas[.]info
legyelvodas[.]com
theastafrican[.]com
ajelnews[.]net
akhbara-aalawsat[.]com
centrasia-news[.]com
tengrinews[.]co
akhbar-arabia[.]com
gulf-news[.]info
eltiempo-news[.]com
sputnik-news[.]info
arabnews365[.]com
arabworldnews[.]info

breaking-extranews[.]online
breaking-news[.]co
breakingnewsasia[.]com
breakthenews[.]net
daily-sport[.]news
diaspora-news[.]com
discoveredworld-news[.]com
eurosportnews[.]info
golf-news[.]live
investigationnews[.]com
islamic-news-today[.]com
kingdom-news[.]com
leadersnews[.]org
news-alert[.]org
news-gazette[.]info
newscurrent[.]info
newsdirect[.]online
newsofficial[.]info
newssofthemoment[.]net
newworld-news[.]com
online-dailynews[.]com
only-news[.]net
operatingnews[.]com
posta[.]news
regionews[.]net
topten-news[.]info
zednewszm[.]com
business-today[.]info
hmizat[.]co
infospress[.]com
revolution-news[.]co
stopsms[.]biz
videodownload[.]co
chretiendaujoudhui[.]com
viedechretien[.]org
vie-en-islam[.]com
leprotestant[.]com
regularhours[.]net
bananakick[.]net
crashparadox[.]net
flowersarrows[.]com
holdmydoor[.]com
stilloak[.]net

accountant-audio[.]com
audienceflake[.]com
secureyouradd[.]com
smallperfumerain[.]com
takemallelectric[.]com
weddingbandssoft[.]com
syncingprocess[.]com
syncingprocess[.]com
sweet-water[.]org
permalinking[.]com
gettingurl[.]com
quota-reader[.]net
redirigir[.]net
towebsite[.]net
prioritytrail[.]net
todoinfonet[.]com
beanbounce[.]net
alignmentdisabled[.]net
reloadinginput[.]com
gettingurl[.]com
netvisualizer[.]com
buildyourdata[.]com
preferenceviews[.]com
myfundsdns[.]com
urlpush[.]net
transferlights[.]com
baramije[.]net
free247downloads[.]com
transferlights[.]com
documentpro[.]org
domain-routing[.]com
towebsite[.]net
stopsms[.]biz
manydnsnow[.]com
dns-analytics[.]com
infospress[.]com
opera-van[.]com
revolution-news[.]co
netvisualizer[.]com
infospress[.]com
reception-desk[.]net
hmizat[.]co
videosdownload[.]co

handcraftedformat[.]com

Related NSO Group spyware domains known to have been involved in various and currently active malware and spyware serving campaigns:

qoros5[.]website
qoros3[.]website
document-pdf[.]net
network190[.]com
urphotostorage[.]net
juicyladies[.]net
telefoniaya[.]com
buyvpsserver[.]com
rentvpsserver[.]com
bestday-sales[.]com
rentdedicatedservers[.]com
diarioelhacker[.]com
xi-jinping[.]biz
noticierokawaii[.]com
xi-jingping[.]info
diariohablando[.]com
googleplay-store[.]com
noticiasxhoy[.]com
internetdigital[.]net
qoros5[.]biz
allservernews[.]com
qoros3[.]biz
unlimitedpicture[.]com
xi-jinping[.]org
endtwoend[.]us
yourxnews[.]com
xi-jinping[.]info
qoros5[.]info
qoros3[.]info
fulldedicatedserver[.]com
qoros3[.]org
qoros5[.]org
zurucu[.]cn
ec2x[.]cn
bulbazaur[.]com
vjv219[.]cn
bj8i9[.]com[.]cn
bc0y2[.]com[.]cn

vpcoevld[.]cn
pickuchu[.]com
glzkbt42[.]cn
dressesforwomanblog[.]com
staticheap[.]org
staticheap[.]info
tropicalfishaquariums[.]net
urbanclotingz[.]net
womensswimware[.]net
webhostingplansz[.]net
womensclothingg[.]net
travelplannner[.]net
webhostingplanz[.]net
bc3y8[.]com[.]cn
vietnamhotell[.]net
websearchsitez[.]net
weddingplannin[.]net
bd9n7[.]com[.]cn
bl7g5[.]cn
bn2w6[.]com[.]cn
wwwphim88[.]net
aobj[.]com[.]cn
wmgreatjobs[.]net
remove-subscription[.]com
remove-from-mailinglist[.]com
updatedchargers[.]com
naderproductions[.]desi
lali[.]desi
dhirproductions[.]desi
dalla[.]desi
banger[.]desi
gurunaksweets[.]desi
airconditioner[.]desi
swagsada[.]desi
beurer[.]desi
gashti[.]desi
gymboy[.]desi
add-client[.]com
remove-client[.]com
track-your-fedex-package[.]com
wallpaperwell[.]com
luckybrush[.]net
newmexicoinjryclaimscenter[.]com

thewalkingdeadseason6episodes[.]com
teknoloji7[.]com
domain2[.]net
usfusionsupply[.]com
rustystackshop[.]com
wwwsecurecreditor[.]com
thienduongquangcao[.]net
ixbux[.]com
diyetsiyenim[.]com
aryaveer[.]desi
mdclead[.]org
univision[.]click

Related NSO Group spyware and malware domains known to have been involved and are currently used in various malware and spyware serving campaigns:

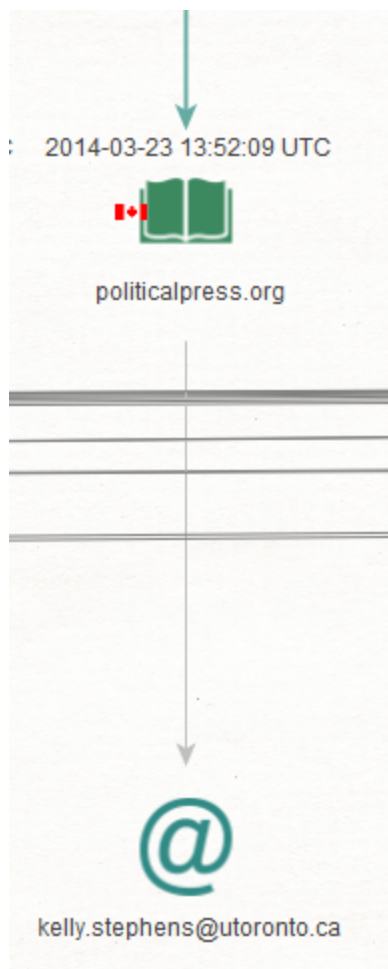
hophipearly[.]com
titanequipment[.]com
elpsotimes[.]com
fendq[.]com
thientho[.]com
dailrecord[.]com
wattrick[.]com
dobbinshouse[.]com
vietnamdeli[.]com
chearcaribbean[.]com
dynaflip[.]com
doerfurniture[.]com
educalogy[.]com
hydpolice[.]com
collegexp[.]com
wwwhairsister[.]com
qaoffers[.]net
ooredoodeals[.]com
bestday-sales[.]com
qoros5[.]website
banca-movil[.]com
ex-pressen[.]com
fb-accounts[.]com
fakenewssweden[.]bid
googleplay-store[.]com
fakenewssweden[.]link
whatsapp-app[.]com

sputnik-news[.]net
clubmovistar[.]com
sputnik-news[.]org
mlearningcenter[.]com
sweetplacebakery[.]com
mwlan[.]com
bigtenwork[.]com
vietdeli[.]net
immath[.]com
vienthuc[.]com
mlearningservices[.]com
rihanna[.]biz
blagoevgrad[.]biz
gonavstudio[.]com
dotson[.]biz
smilies[.]biz
designers[.]biz
highend[.]biz
mcxoperators[.]com
nsoqa[.]com
tbilisi[.]biz
nsogroup[.]co[.]il
homeloans[.]biz
werkstoffeigenschaften[.]com
aobj[.]com[.]cn
bd9n7[.]com[.]cn
bc3y8[.]com[.]cn
bn2w6[.]com[.]cn
bj8i9[.]com[.]cn
zurucu[.]cn
bl7g5[.]cn
vjv219[.]cn
glzkbt42[.]cn
bc0y2[.]com[.]cn
ec2x[.]cn
vpcoevd[.]cn
192[.]biz
fiction[.]biz
csi-degrees[.]net
usfusionsupply[.]com
luckybrush[.]net
domain2[.]net
thienduongquangcao[.]net

ixbux[.]com
thewalkingdeadseason6episodes[.]com
teknoloji7[.]com
wwwsecurecreditor[.]com
diyetisyenim[.]com
realfatburner[.]com
rustystackshop[.]com
sms-zone[.]org
whatsappsupport[.]net
bahrainsms[.]co
qatarlife[.]co
szaldin[.]com
endtwoend[.]us
endtwoend[.]com
qaintqa[.]com
smser[.]net
labtop[.]co[.]il
crashparadox[.]net
network190[.]com
track-your-fedex-package[.]com
updatedchargers[.]com
blogupdatednews[.]com
bytlo[.]com
pine-sales[.]com
mymensaje-sms[.]com
dressesforwomanblog[.]com
ticket-selections[.]com
reception-desk[.]com[.]ua
unonoticias[.]net
reception-desk[.]net
bananakick[.]net
wonderfulinsights[.]com
diariohablando[.]com
novedadesunicas[.]com
noticiasxhoy[.]com
recibeinformacion[.]com
rentvpserver[.]com
noticiasymumoradiario[.]com
unlimitedpicture[.]com
consejosadiario[.]com
globalpromomarket[.]com
elrinconinformativo[.]com
diarioelhacker[.]com

todoinfonet[.]com
noticierokawaii[.]com
compartiendoestilos[.]com
allservernews[.]com
fulldedicatedserver[.]com
yourxnews[.]com
losmasviralesdelared[.]com
internetdigital[.]net
tipsymuchomas[.]com
sorasystems[.]com
donald-trump[.]biz
donaldtrump[.]gratis
sputnik-news[.]info
donald-trump[.]club
univision[.]click
sputnik-news[.]biz
sputnik-news[.]link
bulbazaur[.]com
pickuchu[.]com
secure-access10[.]com
adjust-local-settings[.]com
urphotostorage[.]net
remove-from-mailinglist[.]com
document-pdf[.]net
remove-subscription[.]com
googleadsnetwork[.]com
add-client[.]com
outbraintraffic[.]com
remove-client[.]com
urlshortening[.]net
juicyladies[.]net
thictionary[.]com
cruisez[.]com
hostlot[.]com
noticiasalive[.]news
projectsy[.]com
totaljobs[.]work
databasis[.]com
tododeporte[.]online
placeslike[.]com
eventtos[.]live
backlinked[.]com
telefoniaya[.]com

stayings[.]com
fotoface[.]net
politicoportales[.]org
urlshortening[.]com
thebestseller[.]info
priceworthy[.]com
socialredes[.]com
findmydeals[.]info



Sample IPs known to have been involved in various NSO Group spyware and malware serving campaigns:

69.175.18.85
99.83.154.118

209.126.124.66
162.255.119.246
192.64.119.28
162.255.119.199
72.14.185.43
45.33.20.235
96.126.123.244
45.56.79.23
173.255.194.134
95.216.161.60
45.33.30.197
159.69.83.207
45.33.18.44
159.69.186.9
72.14.178.174
159.69.42.212
192.64.119.75
34.196.164.216
109.234.109.84
52.203.208.133
109.234.109.85
185.38.151.11
37.48.65.152
151.106.5.172
192.155.108.151
151.106.5.168
207.244.67.214
37.48.65.155
151.106.5.164
198.54.117.200
198.54.117.199
23.20.239.12
198.54.117.198
192.155.108.150
198.54.117.197
207.244.67.218
162.255.119.162
162.255.119.219
162.255.119.254
192.64.119.74
162.255.119.222
3.137.40.228
198.58.118.167

52.128.23.153
162.255.119.86
184.168.221.59
50.63.202.61
192.64.119.108
184.168.221.58
50.63.202.54
192.64.119.71
50.63.202.57
50.63.202.37
162.255.119.133
69.64.147.10
75.2.37.224
162.255.119.248
3.135.32.112
13.59.183.11
45.33.23.183
185.53.177.20
208.91.197.91
91.195.240.87
209.99.40.222
91.195.240.89
68.66.248.32
3.223.115.185
209.99.40.223
18.211.9.206
45.79.19.196
45.33.2.79
184.168.221.54
184.168.221.47
184.168.221.45
50.63.202.47
159.69.44.32
78.47.89.88
50.63.202.48
159.69.118.33
34.102.136.180

Sample malicious and rogue MD5s known to have participated in various NSO Group spyware and malware serving campaigns:

dd2fa9e6b337ecbf746b58a4b346dbc6d46f6f70cd8e1d7b089be72438def365
53db921325a766bcdb4b21fe18bc4c61cc2ff33238c2414075f64e017810c4b0

fa420768778e17bcb6b0fdab25564b11fa14c5a9a74e0e49756e407281648f22
259179a23531c87391e464644fdc2e5deb5437bf9673acaeaf9a2dedfacf0b3
855340d0e6325c1811fd218f0e1f73cfdfb24baa5cde152b802d6101b12d31ae
717e7ad5b1308a3eb33df7b727e1b2cf465fcb0d17fdef77fb8815335c443cb7
77d2a4edf82227546b49c46a770afcd47cc386a1a4b170ed0c3bf67ddba5988b
d978d5d02236be8b962707b3a21fc93fb003d332e6c0d26a766b3ed65b976f3f
2e7c4efda27ec6489216a0373f219eed8fced8cd8a5532d236026503c8c433ac
6827db6327af344e656c059a32ac51d303c464e2eea2e6ddd55efbcb3ed0271
4f17acd56293a5b47f34607da0a72b5a861866fc888f5e2154f46093aa04133d
aafa9855203c8d0911bc94a8f2c13ee5ae09fac62988f860a909329ed5fe0917
632aae0db6cfa6f91f51199f067b1e1f2982de49d216d6ad8c3c8181632d9cb0
ed03bdfcfb1db61ce20cf980a0c23b13595b23d8655985d876d86e3357bdfefc
0c39cafe8cce7930b609baf142b46019b10a1e8bc17c803a823fb3ccffd5195e
16b1128e1b68b3be2db7ba88f6dabd10823bbd55c9a4a0da310ef06f1117d3c5
47cc62ea1392315341343a8f37ad1b36294ed5163de228848cc20377917eabf0
3cdaa9e60fd21c3409849bbff1df108b8877b5b46fbd692016e51d19486d20b8
2cc002d8811a554b1c39b1a0b9ba1e32d42c53610e77525c035e2fbccebfb0bed
65c70268398c5a01bed0ce61da8d76aaacb83fcb24f52d0ab43a5c83725e35b4
cb2445b8ba7d9ab4fc4444d2683775ae297a11a451f7e5da2f4f1ae187fc32a2
73401b93baaf5823cd8bed95e40ea0f5e07d0f915543c1d850c338cdd2524a01
8b1a7e66432bd16b628ee0242453454370ad4a1ae03695249b59c11bc8561747
0fa18efe5c4487d25b1723e33bc72f0bd86d62dff49fa73cdb20f040ddd03d6
8fc8427adc528072faec320fd64f0366f1b1b4a2d84fb758d65b8ac35bc6030f
2aa44473944c9cbba324b8b510da21e17968db6343e5221931b6715e58f2f95b
4d44725793bf0f6b92c8b361c077bcae5c649b6b519e21d9299bba4eb7902849
375b52f63b738b20d1572fe15605d48bdf1564113a9f995a67c1a3404011b503
8088366390c09bf3558d53c4ee56c33274e433a988bf9a46f784cfd78be63895
1b9f33d978590c5615aa5c51eda80f222a83a5c5a26e534d65e840b551aff409
6e450b2a50ce67fdd59227068545472c60281fc740d281b8492cb894a6576aad
639e5234a2615ef52c764cef6f08b0ace9a70fbd9e122e56196dac635b0e56ad
120c9bc6c5dc7194f0330e68af35844fb366b9f5dbdc6e3cb01c6151c092ac45
7c2644de40c908ef7958d1042e85dc8cb1988cf224c6b018f212bfc5e775bb8d
0c5b188463bc191e47b0d682758e5073f53170beaeb23e5c5dabbe232aeb4332
0e01b5d30ff5e03273854664698cff42357fb029d5ce912af29612a0495b54a9
10e3083736fe2ccb7553c07210b8fca88bbbd0dd7b1f6071f2d385a5ceec252
bc6fbdb5def8fb43485282cb17bf244fcb1fa46f5bcbcf8ce99aa1a3d6e5fc6
646ccc3ee8784741bf22f5a47ba267a61a5b989d7a02fd7af3bc093ab5ba3347
00042d23a72a99a3a883dfea20d94abd42a4397d18c31de627e1a5b0ced05395
9143ba95961946843224ce93fb4c0e4fca9398c63edacf339580437a2aa1f8a7
41d3b00e0434fb10a914bf8e9b03faf256ff0335840376a2bf92b190ea2ba435
acc9c52d9ce0d067d9cd12b8dfb9ec38e2d89ba32ed2168da4e134ce0689ea22
1f665f34ae7da8b69ff1c284b3c2a8c7131a5d87eef6ca9aca6f10e759ab03f3
0002ae889d3b4a60e2d7dd8442cc888996074d5a0830d395113599db6318cd8c

339339eabaaf51f956cabb3ba996cbe1347ef5539cc324f9521a7c7256c791ce
1536ff2afa2e4547053a7d3750a1dd0e692d582c85c8d4898fbc277bc9b27a11
1c12e50926fe366275ece3ab006d305f92b98193edf5eeb4d299e635cd03da7b
0b8143f72b79d3509ee5bb0f3b267bc1789634ab782fb9f7720388bc9f9d43b1
e3b0280a5f2d995802557aa7e279a3608d3a90363e9c9285d9222a1d15a41d6e
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We'll continue monitoring the Internet-connected infrastructure of NSO Group for the purpose of monitoring and detecting relevant and related malware and spyware serving campaigns that are currently in the wild.