Alleviating the Risks .zip and Similar Domain Extensions Could Pose via DNS Intelligence

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Executive Report

Google's announcement of the launch of the .zip ngTLD was met by a lot of debate. Many believe threat actors could abuse the ngTLD for phishing and other malicious campaigns, primarily since it could be easily confused with the .zip file extension. They weren't wrong to be concerned since their fear did come to fruition. Shortly after the announcement, phishers began abusing .zip domains.

To help organizations avoid the potential perils that the .zip and similarly confusing ngTLD extensions (i.e., .app, .cab, .cam, .mobi, .mov, .pub, .rip, and .win) may pose, the WhoisXML API research team scoured the DNS for such domains created between 1 January and 31 May 2023 to see if any of them should be considered suspicious and treated with caution.

Our in-depth study covering the ngTLDs registered uncovered:

- 21,035 .app, .mov, and .zip domains (managed by Google), 33 of which may have already been used maliciously
- 26,961 .cab, .cam, .mobi, .pub, .rip, and .win domains (managed by other registries), 130 of which may have already figured in malware attacks

DNS Deep Dive for Possibly Confusing Domains

We began our investigation by obtaining a list of all the currently existing ngTLDs. We then identified which of them could be confused with file extensions (see the table below for the results).

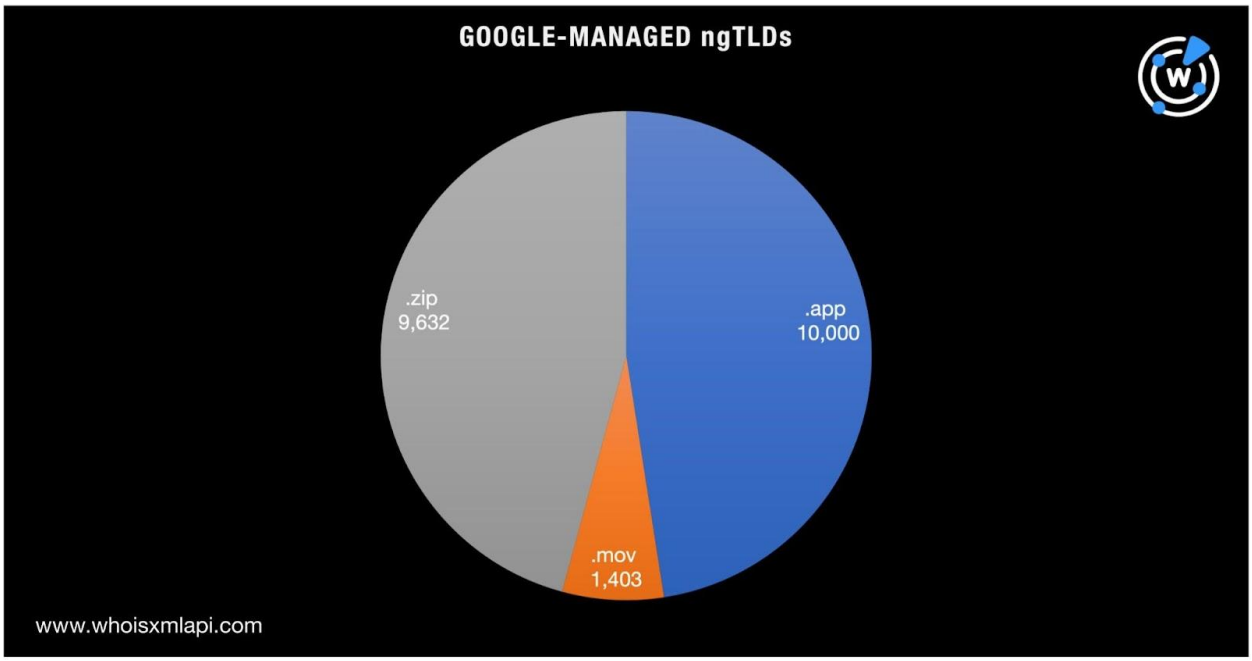
Possibly Confusing ngTLD	Registry/Sponsor	Application File Extension
.app	Google	macOS application bundle

.cab	Binky Moon, LLC	Archive file format for Microsoft Windows
.cam	CAM Connecting SarL	File created using Autodesk's Eagle Drawing Editor
.mobi	dotMobi (subsidiary of Afilias)	File extension designed especially for e-books but mostly for Amazon Kindle
.mov	Google	Video format developed by Apple; an MPEG 4 video container file primarily used with QuickTime
.pub	Proposed by United TLD Holdco Ltd. (no registry specified as owner yet)	Microsoft Publisher document file format
.rip	Rightside/Demand Media (United TLD Holdco Ltd.)	Output file of audio files that have been ripped
.win	Global Registry Services Limited	Most commonly used for Windows system backup files
.zip	Google	File format that can contain multiple files combined and compressed into one file

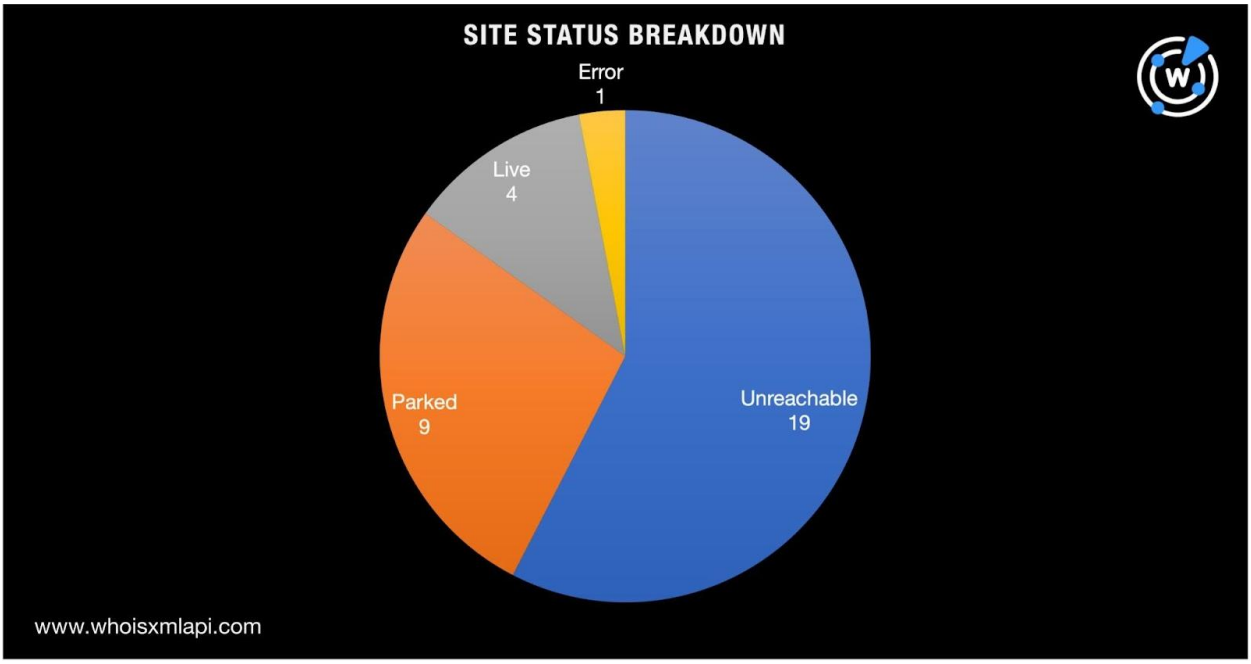
Using Domains & Subdomains Discovery, we then collated domains registered from 1 January to 31 May 2023 that ended with the potentially confusing ngTLD extensions in the table above. We grouped the results into those that Google owned and those managed by other registries.

Domains under Google-Managed ngTLDs

We found 21,035 .app, .mov, and .zip domains. Take a look at the breakdown below.



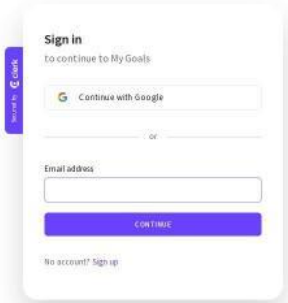
A total of 33 of the domains—26 .app and seven .zip domains—may have already been used in malicious campaigns based on a bulk malware check. A majority of the malware hosts or phishing domains were unreachable (see the chart below for their statuses based on screenshot lookups).



Here are screenshots of three still-live sites hosted on the malicious domains.

Screenshot of 358473[.]app

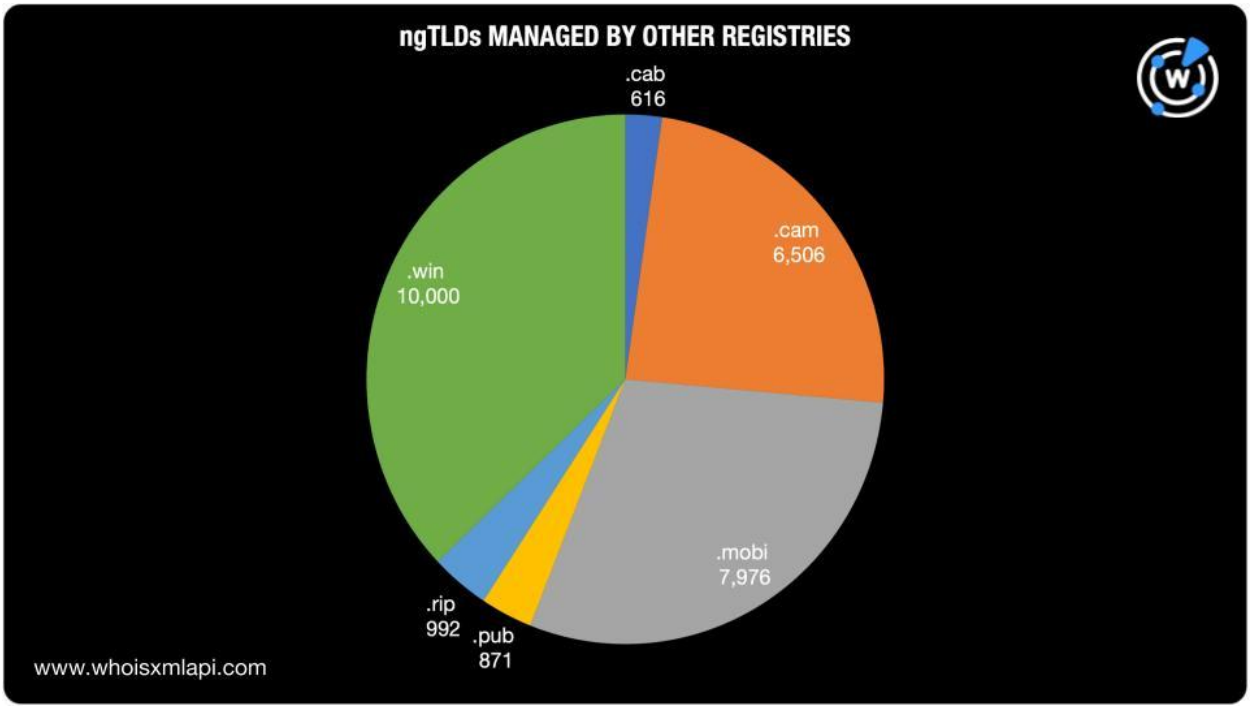
Screenshot of qt8[.]app



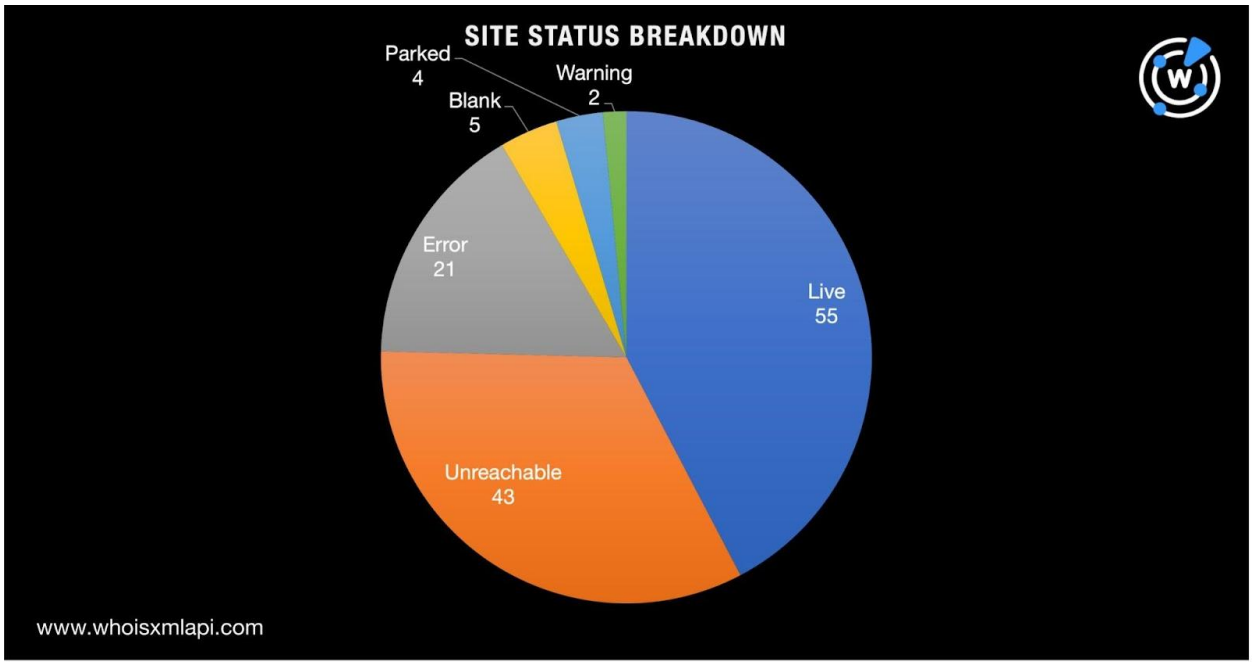
Screenshot of my-goals[.]app

ngTLDs Not under Google's Control

We also found 26,961 .cab, .cam, .mobi, .pub, .rip, and .win domains. Take a closer look at the breakdown below.



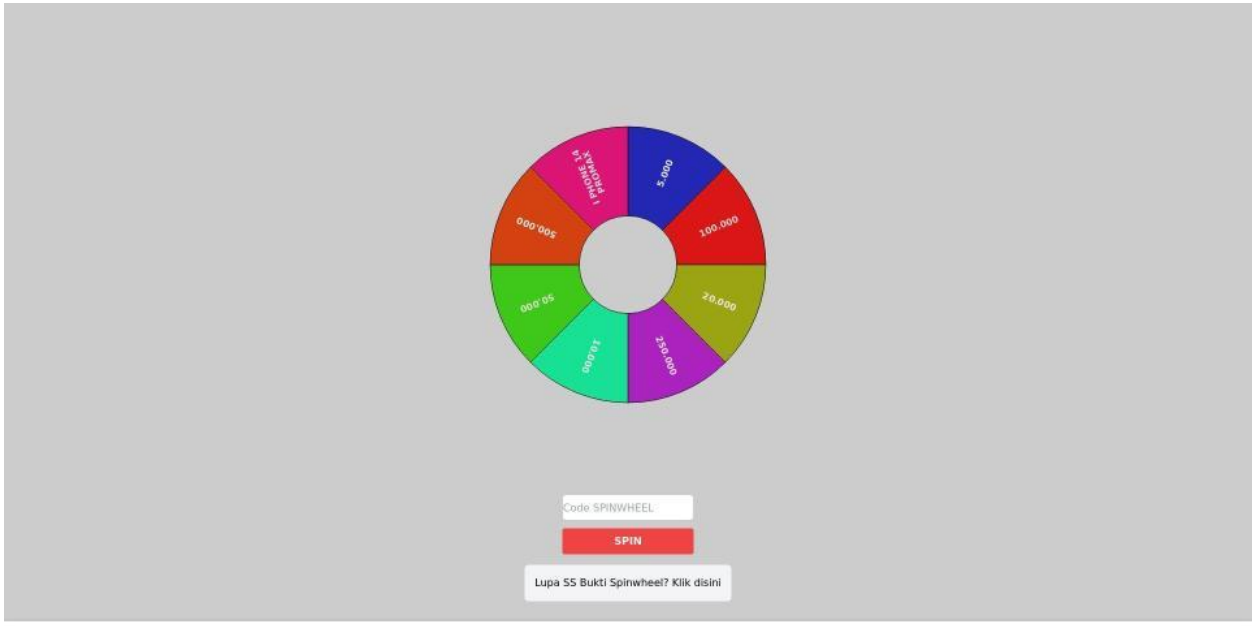
A total of 130 of the domains—one .cab, 49 .cam, 13 .mobi, three .pub, one .rip, and 63 .win domains—may have already been used in malware distribution or phishing attacks . Based on screenshot lookups, a majority of them remained live to date. Take a look at the domain status breakdown below.



Here are three screenshots of the still-accessible sites hosted on 43 of the malicious domains.

Screenshot of rap78[.]win and 39 other .win domains

We discovered that 40 malicious domains used the same content and similarly constructed strings comprising random number-and-letter combinations, hinting that they could have been used for the same malware-instigated attack.



Screenshot of spnwheellido88[.]win and spnwheelnewply88[.]win

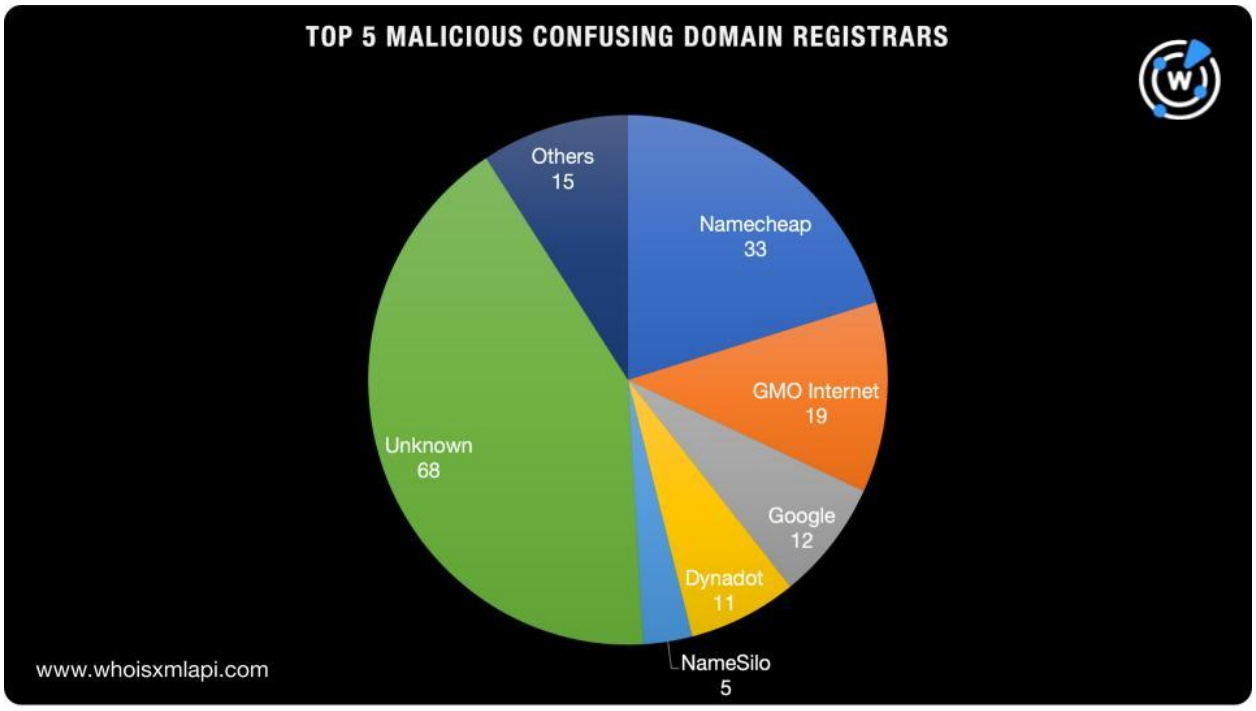
Like the first set of malicious domains under this section, the last two domains' use of the same content and TLD extension could indicate they figured in the same malicious campaign. Add to that the fact that they both contain the exact string ***spnwheel***.

Malicious Possibly Confusing Domains under the Microscope

Next, we collated all of the malicious possibly confusing ngTLD domains to further investigate them. We ended up with a list of 163 .app, .cab, .cam, .mobi, .pub, .rip, .win, and .zip domains.

A bulk WHOIS lookup showed these results:

- A majority of the domains, 33 to be exact, were under Namecheap's management. GMO Internet, Google, Dynadot, and NameSilo completed the top 5 registrars.



- 95 of the domains were NRDs while the remaining 68 had blank creation date fields.
- All of the domains had redacted registrant email addresses.

A bulk IP geolocation lookup for them, meanwhile, revealed that:

- Only 67 of the 163 malicious confusing domains had active IP resolutions.
- The aforementioned 67 domains resolved to 82 unique IP addresses, 91% of which were IPv4 addresses.
- Also, after subjecting them to malware checks, 15 turned out to be malicious. Four of these malicious IP hosts were dedicated.

As a final step to find as many potential threat artifacts as possible, we subjected the four malicious IP hosts to reverse IP lookups. They led to the discovery of 137 additional domains, 32 of which have been categorized as malware hosts.

The Gist

Our DNS deep dive into domains under ngTLDs that could be easily confused with commonly used file name extensions like .zip found that many could already have been weaponized by threat actors.

If you wish to perform a similar investigation or learn more about the products used in this research, please don't hesitate to contact us.

Appendix: Sample Artifacts and IoCs

Sample Possibly Confusing Domains Using ngTLDs under Google's Control

- wendys[.]zip
- wandero[.]app
- smartaichat[.]app
- monitee[.]app
- techtronics[.]app
- 1xapk[.]app
- validusportal[.]app
- 7bp[.]app
- playgame[.]zip
- edgetracker[.]app
- sentinel[.]zip
- bootleg[.]zip
- cubehq[.]app
- fileextractor[.]zip
- powerpoints[.]zip
- ingest[.]zip
- beatsxyz[.]app
- dreambox[.]zip
- studiokarma[.]app
- dickpics[.]zip
- insurance[.]zip
- dbdump[.]zip
- chromebook[.]mov
- 3039n[.]app
- backup2[.]zip
- smartfrog[.]app
- apoel[.]zip
- minesweeper[.]zip
- kniffel-block[.]app
- healthtechconnect[.]app
- spothunt[.]app
- locuspace[.]app
- pjwhjtos[.]app
- jnty111[.]app
- myhomesphere[.]app
- 4919e[.]app
- feedbackflow[.]app
- backrs[.]app
- saleorx[.]app
- 678178[.]app
- 123456[.]zip
- tryimpulse[.]app
- recappedai[.]app
- heisi[.]zip

- sumitup[.]app
- slay[.]zip
- nowcher[.]app
- cowandrooster[.]zip
- 0nlyfans[.]zip
- ihateit[.]zip
- signature-required[.]zip
- zipzap[.]zip
- placestorent[.]app
- locator[.]zip
- airshield[.]app
- qwerty[.]zip
- paylocity[.]zip
- jointbudget[.]app
- blacktrust[.]app
- kompresja[.]zip
- reuron[.]app
- bbc[.]zip
- bdtmsdcapital[.]zip
- yourpassword[.]zip
- yello[.]zip
- bdtcompanyinternational[.]mov
- secure-share[.]zip
- updatedfirmware[.]zip
- qantasloyalty[.]mov
- astroservices[.]app
- defender-update-kit-x64[.]zip
- rootedopportunity[.]zip
- cbfin[.]app
- trottdellco[.]zip
- accesslog[.]zip
- 6686442[.]app
- jiangnan399[.]app
- jieya[.]zip
- warriorbox[.]app
- venmosafe[.]app
- contract-draft[.]app
- 303vip[.]app
- scriptease[.]app
- trottdell[.]zip
- explosion[.]zip
- mt31[.]app
- gpt-ai[.]app
- www3039ah[.]app
- porsche[.]zip
- dentsu[.]zip
- kodrs[.]app
- casestudy[.]zip
- vulonkaaz[.]zip
- trottfamilyfoundations[.]mov
- cloud-domains-cep-serverless-cancellation-fee-1392119256[.]app
- appdetectivepro[.]zip
- drisky[.]app
- locasun[.]mov
- personalyze[.]app
- jnyl858[.]app
- obamawhitehousearchive[.]zip
- gioc[.]app
- bliz[.]zip
- archive2023[.]zip
- logitechdriverupdate[.]zip
- safe[.]zip
- keithstore[.]app
- contentai[.]app
- geab[.]app
- ox6[.]zip
- 0click[.]zip
- c0w[.]zip
- padelhub[.]app
- wildfire[.]zip
- forwardsms[.]app
- manifesto[.]zip
- bootypics[.]zip
- 6686289[.]app
- bet-mgm[.]app
- ma03[.]app
- presentatie[.]zip
- pegasusghost[.]zip
- filehub[.]zip

- cannanation[.]app
- managekit[.]app
- xj6666[.]app
- echohammond[.]zip
- esgindex[.]app
- h2-agency[.]app
- prorate[.]app
- jnyule399[.]app
- purehub[.]app
- mulesoft[.]zip
- kiteup[.]app
- inferi[.]zip
- money911[.]app
- 6686571[.]app
- sportshero[.]app
- scanboy[.]app
- breachdata[.]zip
- sensilla[.]zip
- captions[.]zip
- datafuze[.]zip
- 409group[.]app
- valleystar[.]zip
- thedongheang[.]app
- quizomatic[.]app
- mamie[.]zip
- lookerstudio[.]mov
- blaster[.]zip
- msazure[.]zip
- productions[.]mov
- jordanjeffries[.]zip
- macquariebank[.]zip
- cartorionat[.]app
- casasdesconto[.]app
- final-1[.]zip
- rstars[.]zip
- jnty138[.]app
- archive1[.]zip
- 6686421[.]app
- restoreai[.]app
- tfe-install[.]zip
- khalifa[.]zip
- meeting-notes[.]zip
- unhide[.]app
- egress[.]zip
- betalingen[.]zip
- sonsofprophets[.]app
- esm[.]zip
- xspeed[.]app
- packshot[.]mov
- album2023[.]zip
- sebastian[.]zip
- kabelkom[.]zip
- discordbot[.]zip
- convotis[.]zip
- resume[.]zip
- echoohio[.]zip
- p2pview[.]app
- faraz[.]zip
- marvel[.]mov
- ghumantu[.]app
- lookla[.]app
- onememo[.]app
- archlinux[.]zip
- amy[.]mov
- bandao11[.]app
- 94027[.]zip
- odisi[.]app
- microsoftupdate[.]zip
- innovest[.]app
- gtfs[.]zip
- emsy[.]mov
- oceanfirst[.]mov
- assetlab[.]app
- bdbet5[.]app
- galgame[.]zip
- lenny[.]zip
- glyatirim[.]app
- download-form[.]zip
- download-a-car[.]zip
- hgtvsweepstakescentral[.]app

- cfre[.]app
- 6686vn89[.]app
- trottdellcap[.]mov
- gold724[.]app
- surprise[.]zip
- meituan[.]zip
- 35ty8[.]app
- 8868099[.]app
- accuda[.]app
- skillai[.]app
- desisocial[.]app
- tequilasuite[.]app
- loyalty[.]zip
- nr0[.]app
- nudity[.]mov
- brightchat[.]app
- macos-update[.]zip
- security-patch-update[.]zip
- uhaul[.]zip
- e-ticket[.]zip
- xn--passwrter-47a[.]zip
- edgeupdate[.]zip
- deployments[.]zip
- access-logs[.]zip
- cursed[.]zip
- fiel[.]zip
- cocacola[.]zip
- 8bit[.]zip
- audiolive[.]app
- melvin[.]zip
- defcon32[.]zip
- untitled-project[.]app
- jnyl123[.]app
- saaswiz[.]app
- summercircle[.]app
- burnsandwilcox[.]mov
- tarrrescue[.]app
- kitchencompanion[.]app
- dubaicustoms[.]app
- q2131205wh2k[.]app
- 69dsp[.]app
- notoist[.]app
- family[.]zip
- 3885hhh[.]app
- purchasing-invoice[.]zip
- allmasters[.]app
- n2e[.]app
- haussmann-recouvrement[.]zip
- chunithm[.]zip
- peepssoftware[.]zip
- sighun[.]zip
- unencrypted[.]zip
- mm888[.]app
- paloaltonetworks[.]zip
- connected[.]mov
- elsalvadorbtc[.]app
- fredbsc[.]app
- polyhomory[.]app
- mcksalaries[.]zip
- shiproutepro[.]app
- zip[.]zip
- bubblesupsoapery[.]app
- alomoves[.]mov
- aathmi[.]app
- kleinanzeigen[.]mov
- barkparkbistro[.]app
- zbsm[.]zip
- 8868m2[.]app
- swyrl[.]app
- aa88686[.]app
- avinoc[.]app
- keyhole[.]zip
- smartmatrix[.]app
- jnyl555[.]app
- keyminer[.]app
- activelist[.]app
- transcend[.]mov
- zrbet30[.]app
- foto[.]zip
- tohru[.]zip

- shopnest[.]app
- bdtcp[.]mov
- fortytwo[.]zip
- esims[.]zip
- qr[.]zip
- mineralprices[.]app
- snfsolutions[.]zip
- lumina-ai[.]app
- tinzien[.]zip
- firmware-files[.]zip
- sentfiles[.]zip
- nbcnews[.]zip
- solily[.]app
- ddh10[.]app
- theme-export[.]zip
- reee[.]zip
- gesheft[.]app
- collegeessay[.]app
- asdasxa0676[.]app
- offer[.]zip
- modernsafetysolutions[.]app
- 1tamilmv[.]zip
- albert[.]zip
- secwatch[.]zip
- googleonandroid[.]mov
- cbmtechnology[.]zip
- pulsefi[.]app
- jiangnan123[.]app
- whaz[.]zip
- 678292[.]app
- account-info[.]zip
- anrok[.]app
- irris[.]app
- petsolv[.]app
- wowzers[.]app
- wohlfahrts[.]app
- exportfile[.]zip
- kiri[.]zip
- ricin[.]zip
- ware[.]zip
- roamin[.]app
- binspace[.]app
- stockdads[.]app
- tata1[.]app
- weventure[.]app
- utilitease[.]app
- fahr-teacher[.]app
- toteslegitnotmalware[.]zip
- electricty[.]zip
- socialwell[.]app
- jnyule224[.]app
- mdr[.]zip
- chokidaar[.]app
- 88681082[.]app
- huntonak[.]mov
- defenderupdates[.]zip
- sitefly[.]app
- testyourfirewall[.]zip
- plotplot[.]app
- order-cancel[.]zip
- umbrellagroup[.]app
- sushi-land[.]app
- kisah[.]app
- approvals[.]zip
- tltfamilyoffice[.]zip
- coxenterprises[.]zip
- xkeyscore[.]zip
- bdty168[.]app
- jnyule80[.]app
- 6686828[.]app
- ptpshipping[.]app
- peachbar[.]app
- firo[.]zip
- jiangnan243[.]app
- cellar8[.]app
- repository[.]zip
- hashjack[.]app
- shabinx[.]zip
- hgajshdsadh[.]app
- attchments[.]zip

- obamawhitehousearchive[.]mov
- t-store[.]app
- jntiyu157[.]app
- pokupki[.]app
- dreambeaver[.]app
- 678144[.]app
- apache[.]zip
- jiliko747[.]app
- handwerksportal[.]app
- elektrikka[.]app
- kittyx[.]app
- lickity[.]zip
- movies123[.]zip
- googledrivesetup[.]zip
- v69[.]zip
- idonation[.]app
- dataliberty[.]app
- bankofnewzealand[.]zip
- proportio[.]app
- webseeds[.]app
- companysalaries[.]zip
- troyano[.]zip
- setecastronomy[.]zip
- jnty387[.]app
- gelishmorgantaylor[.]zip
- 6686264[.]app
- plt[.]mov
- thisisnotmalware[.]zip
- matt[.]mov
- opie[.]zip
- equinor[.]zip
- alltournatives[.]app
- infosys[.]zip
- 88681163[.]app
- verfugungen[.]app
- offseclab[.]zip
- unpaidinvoices[.]zip
- 2023judi89[.]app
- googlechrome[.]zip
- wordpress[.]zip
- ubuntu22-04[.]zip
- codepoetry[.]app
- backupconfig[.]zip
- digital-rebels[.]app
- yourmum[.]zip
- coxenterprise[.]zip
- whip[.]zip
- buyersight[.]app
- pigeondocuments[.]app
- dyqp8[.]app
- ford[.]zip
- my02[.]app
- wristcaddy[.]app
- sysadmin[.]zip
- upspore[.]app
- readpanda[.]app
- macmind[.]zip
- assumedbreach[.]zip
- asm[.]zip
- pew[.]zip
- e2e-test-v1-everything-1679412348[.]app
- cjw000[.]app
- qianxin[.]zip
- shopee[.]zip
- paymentorder[.]zip
- program-installer[.]zip
- uniquefoods[.]app
- aiconsulting[.]app
- client-download[.]zip
- gurezy[.]app
- converse[.]zip
- luminous[.]mov
- beestock[.]app
- legalize[.]zip
- usgov[.]zip
- gltf[.]zip
- bd222[.]app
- aliveness[.]app
- betterus[.]app

- 88681157[.]app
- hg129vip[.]app
- ravestag[.]app
- telatris[.]app
- salaire[.]zip
- e-core[.]app
- sdr[.]zip
- macpomo[.]app
- dotnetinstaller[.]zip
- redbull[.]mov
- windows-updates[.]zip
- airconditioning[.]zip
- resultid[.]app
- dg-patientenhilfe[.]zip
- spam-mail[.]app
- tavnermartin[.]zip
- justificante[.]zip
- magnetmaker[.]app
- mygovau[.]app
- streamlinesolutions[.]app
- basic-setup[.]zip
- titanic[.]mov
- encrypted-file[.]zip
- multimedia[.]zip
- mobileunionononline[.]app
- anglais[.]zip
- catalyticit[.]zip
- wethefriends[.]app
- download01[.]zip
- jkinfotech[.]app
- jiangnan895[.]app
- dord[.]app
- yusri[.]app
- openthis[.]zip
- sysInternals[.]zip
- arepero[.]app
- bluewaters[.]zip
- returnsuite[.]app
- pizzazz[.]zip
- doodlegpt[.]app
- noforn[.]zip
- evrim[.]app
- layn[.]mov
- m3u[.]zip
- mrsafe[.]app
- pricelist[.]zip
- jacobd[.]zip
- ak7020[.]app
- holo[.]zip
- chromeupdates[.]zip
- successsubliminals[.]app
- policyupdate[.]zip
- definitely-not-a-virus[.]zip
- nurupi[.]app
- 0496686[.]app
- ural[.]zip
- dontopenme[.]zip
- andy[.]zip

Sample Malicious Possibly Confusing Google-Managed Domains

- hist[.]zip
- 358473[.]app
- michi[.]zip
- shatter[.]zip
- poc[.]zip
- starfive[.]app
- marketer[.]zip
- unitedbirth[.]app
- featureinstaller[.]app
- qt8[.]app
- my-goals[.]app
- goblinhideout[.]mov
- screenshot[.]mov
- hcg[.]zip
- alerts-commbank[.]app
- slkayetler[.]app
- mycommbank-secured[.]app

Sample Domains Using thePossibly Confusing ngTLDs Managed by Other Registrars

- 001top[.]win
- 007k[.]win
- 00853lhc[.]mobi
- 009285[.]win
- 01586988g98[.]win
- 016876[.]win
- 016877[.]win
- 016880[.]win
- 019451[.]win
- 01afacan[.]win
- 01x[.]mobi
- 029293[.]win
- 02940[.]win
- 02yue[.]win
- 0310[.]cab
- 03120[.]win
- 035003[.]win
- 03hh[.]cab
- 0447880798908[.]mobi
- 04hh[.]cab
- 0549983717[.]win
- 056432[.]win
- 057210[.]win
- 057211[.]win
- 059hg[.]mobi
- 06030[.]mobi
- 068-fk[.]win
- 075842[.]win
- 0800[.]rip
- 088663[.]win
- 09060[.]win
- 093522[.]win
- 09vip[.]win
- 0ara[.]cam
- 0c8s6[.]win
- 0chan[.]rip
- 0cikg[.]win
- 0dte[.]win
- 0h[.]rip
- 0icloud[.]cam
- 0l3xg[.]win
- 0nlyfans[.]cam
- 0s[.]rip
- 0us9g[.]win
- 0vwn8[.]win
- 0x41414141[.]rip
- 0x420[.]pub
- 0x62[.]rip
- 0x8kt[.]win
- 0xx0[.]win
- 1-cima4u[.]cam
- 1-k6[.]rip
- 1-kb4474419-v3-x64[.]cab
- 1-m5[.]rip
- 1000x[.]win
- 10010[.]cab
- 1001lessons[.]pub
- 100861[.]cam
- 100btc[.]cam
- 100k[.]rip
- 1028[.]cab
- 106501[.]win
- 10amkarachitimein[.]win
- 10bucks[.]cab
- 10cric[.]mobi
- 10dlcvetting[.]mobi
- 10investing[.]cam
- 10s[.]cam
- 110-at[.]win
- 111-at[.]win
- 111-ky[.]win
- 111111[.]rip

- 1111m[.]win
- 112-at[.]win
- 1120036[.]win
- 11235678uw2[.]win
- 114-at[.]win
- 114514[.]cab
- 115-at[.]win
- 117-at[.]win
- 118-at[.]win
- 119-at[.]win
- 11bet[.]cab
- 11bet1[.]mobi
- 11bet1[.]win
- 11bet11[.]mobi
- 11bet11[.]win
- 11bet12[.]mobi
- 11bet12[.]win
- 11bet13[.]mobi
- 11bet14[.]mobi
- 11bet15[.]mobi
- 11bet16[.]mobi
- 11bet16[.]win
- 11bet17[.]mobi
- 11bet17[.]win
- 11bet18[.]mobi
- 11bet18[.]win
- 11bet19[.]mobi
- 11bet19[.]win
- 11bet2[.]mobi
- 11bet20[.]mobi
- 11bet20[.]win
- 11bet21[.]mobi
- 11bet22[.]mobi
- 11bet23[.]mobi
- 11bet24[.]mobi
- 11bet25[.]mobi
- 11bet25[.]win
- 11bet26[.]mobi
- 11bet27[.]mobi
- 11bet27[.]win
- 11bet28[.]mobi
- 11bet28[.]win
- 11bet29[.]mobi
- 11bet29[.]win
- 11bet3[.]mobi
- 11bet3[.]win
- 11bet30[.]mobi
- 11bet30[.]win
- 11bet31[.]mobi
- 11bet31[.]win
- 11bet32[.]mobi
- 11bet32[.]win
- 11bet33[.]mobi
- 11bet34[.]mobi
- 11bet35[.]mobi
- 11bet35[.]win
- 11bet36[.]mobi
- 11bet36[.]win
- 11bet37[.]mobi
- 11bet37[.]win
- 11bet38[.]mobi
- 11bet38[.]win
- 11bet39[.]mobi
- 11bet39[.]win
- 11bet4[.]mobi
- 11bet4[.]win
- 11bet40[.]mobi
- 11bet40[.]win
- 11bet41[.]mobi
- 11bet41[.]win
- 11bet42[.]mobi
- 11bet42[.]win
- 11bet43[.]mobi
- 11bet43[.]win
- 11bet44[.]mobi
- 11bet45[.]mobi
- 11bet45[.]win
- 11bet46[.]mobi
- 11bet46[.]win
- 11bet47[.]mobi

- 11bet47[.]win
- 11bet48[.]mobi
- 11bet49[.]mobi
- 11bet49[.]win
- 11bet5[.]mobi
- 11bet5[.]win
- 11bet50[.]mobi
- 11bet50[.]win
- 11bet51[.]mobi
- 11bet52[.]mobi
- 11bet52[.]win
- 11bet53[.]mobi
- 11bet53[.]win
- 11bet54[.]mobi
- 11bet54[.]win
- 11bet55[.]mobi
- 11bet55[.]win
- 11bet56[.]mobi
- 11bet57[.]mobi
- 11bet57[.]win
- 11bet58[.]mobi
- 11bet58[.]win
- 11bet59[.]mobi
- 11bet59[.]win
- 11bet6[.]mobi
- 11bet6[.]win
- 11bet60[.]mobi
- 11bet60[.]win
- 11bet61[.]mobi
- 11bet61[.]win
- 11bet62[.]mobi
- 11bet63[.]mobi
- 11bet64[.]mobi
- 11bet65[.]mobi
- 11bet66[.]mobi
- 11bet66[.]win
- 11bet67[.]mobi
- 11bet68[.]mobi
- 11bet68[.]win
- 11bet69[.]mobi
- 11bet69[.]win
- 11bet7[.]mobi
- 11bet7[.]win
- 11bet70[.]mobi
- 11bet71[.]mobi
- 11bet71[.]win
- 11bet72[.]mobi
- 11bet72[.]win
- 11bet73[.]mobi
- 11bet74[.]mobi
- 11bet74[.]win
- 11bet75[.]mobi
- 11bet76[.]mobi
- 11bet76[.]win
- 11bet77[.]mobi
- 11bet77[.]win
- 11bet78[.]mobi
- 11bet78[.]win
- 11bet79[.]mobi
- 11bet8[.]mobi
- 11bet8[.]win
- 11bet80[.]mobi
- 11bet80[.]win
- 11bet81[.]mobi
- 11bet82[.]mobi
- 11bet82[.]win
- 11bet83[.]mobi
- 11bet83[.]win
- 11bet84[.]mobi
- 11bet85[.]mobi
- 11bet86[.]mobi
- 11bet86[.]win
- 11bet87[.]mobi
- 11bet87[.]win
- 11bet88[.]mobi
- 11bet89[.]mobi
- 11bet89[.]win
- 11bet9[.]mobi
- 11bet9[.]win
- 11bet90[.]mobi

- 11bet90[.]win
- 11bet91[.]mobi
- 11bet91[.]win
- 11bet92[.]mobi
- 11bet92[.]win
- 11bet93[.]mobi
- 11bet93[.]win
- 11bet94[.]mobi
- 11bet94[.]win
- 11bet95[.]mobi
- 11bet95[.]win
- 11bet96[.]mobi
- 11bet96[.]win
- 11bet97[.]mobi
- 11bet98[.]mobi
- 11bet98[.]win
- 11bet99[.]mobi
- 11bet99[.]win
- 11exch[.]mobi
- 11exchange[.]mobi
- 11xplay[.]win
- 12-cd[.]win
- 120-at[.]win
- 121-at[.]win
- 123-ab[.]win
- 123-by[.]win
- 123-fr[.]win
- 123-jd[.]win
- 123-lm[.]win
- 1234567[.]cab
- 123b01[.]cam
- 123boss[.]win
- 123bronze[.]win
- 123bvn[.]cam
- 123game[.]win
- 123milhas[.]win
- 123movies-online[.]cam
- 123pan[.]cam
- 123python[.]cam
- 123telugu[.]cam
- 123whdb[.]cam
- 123win[.]mobi
- 123win01[.]cam
- 124-at[.]win
- 125-lm[.]win
- 125ecdc[.]win
- 126-at[.]win
- 126-lm[.]win
- 1266[.]cab
- 126uu[.]win
- 127-lm[.]win
- 127j3[.]win
- 128-at[.]win
- 128-ky[.]win
- 128-lm[.]win
- 129-at[.]win
- 129fh[.]win
- 12bet[.]cam
- 130casino[.]mobi
- 130casino[.]win
- 130com[.]win
- 131-at[.]win
- 131-lm[.]win
- 132-ac[.]win
- 132-at[.]win
- 132-lm[.]win
- 1326991[.]win
- 133-at[.]win
- 133-lm[.]win
- 134-at[.]win
- 135-lm[.]win
- 136-at[.]win
- 138-at[.]win
- 139-at[.]win
- 1400fs[.]win
- 149902[.]win
- 14bet[.]win
- 150-lm[.]rip
- 151-lm[.]rip
- 152-lm[.]rip

- 15355-ty[.]win
- 153coin[.]mobi
- 156ea[.]win
- 159ig[.]win
- 162un[.]win
- 163-cn[.]cam
- 163c[.]cam
- 163dns[.]pub
- 164279[.]win
- 16501[.]win
- 1674985421379185[.]mobi
- 16k[.]cam
- 16pu[.]win
- 171-lm[.]rip
- 171884[.]win
- 172-lm[.]rip
- 173-lm[.]rip
- 1759-pt[.]win
- 17shopn[.]cam
- 17vip[.]win
- 18-fh[.]win
- 18002thelaw[.]mobi
- 1842818[.]win
- 1888263[.]win
- 18bet[.]mobi
- 18wheels[.]mobi
- 1929-deik[.]win
- 1946325[.]win
- 1ace[.]win
- 1acr[.]mobi
- 1b1[.]mobi
- 1bet1[.]mobi
- 1betx[.]win
- 1byte8bit[.]mobi
- 1creator[.]win
- 1cwxv[.]win
- 1czz5hs[.]win
- 1daikin[.]mobi
- 1fgb[.]cam
- 1fnbtnf1cb[.]mobi
- 1g[.]rip
- 1g7ypb8[.]cam
- 1i2mo[.]win
- 1jz2aoh[.]win
- 1nvuti[.]cab
- 1play-demo[.]mobi
- 1post[.]mobi
- 1starbartender[.]mobi
- 1stdegree[.]mobi
- 1tamilv[.]mobi
- 1tamilyogi[.]cam
- 1u[.]rip
- 1up[.]win
- 1usdt[.]win
- 1wi[.]rip
- 1win[.]pub
- 1wingiris[.]win
- 1wiz[.]mobi
- 1wr[.]mobi
- 1xbet-bk1211[.]win
- 1xbet-bk232[.]win
- 1xbet-stavka-official72[.]win
- 1xbet-stavka-official78[.]win
- 1xbet-tar43[.]win
- 1xbet-tar56[.]win
- 1xbet-xbet90[.]win
- 1xbet-xbet91[.]win
- 1xbet-zerkalo51[.]win
- 1xbet74bet[.]win
- 1xbetclub[.]cam
- 1xbetfr[.]mobi
- 1xbetindia[.]mobi
- 1xbetph[.]mobi
- 1xbetvn[.]mobi
- 1xboro[.]cam
- 1xduj1a[.]win
- 1xplay[.]mobi
- 1z40ys[.]win
- 2-cima4u[.]cam
- 20-four-hour-sud[.]mobi

- 20-four-hour-suds[.]mobi
- 2021qile[.]win
- 202303cjy[.]win
- 2024eclipse[.]cam
- 2024the[.]win
- 203-lm[.]rip
- 205-lm[.]rip
- 206-lm[.]rip
- 206937[.]win
- 207-lm[.]rip
- 20bombermenslug--hitvk[.]mobi
- 20citygame[.]mobi
- 20fourhoursud[.]mobi
- 20fourhoursuds[.]mobi
- 20hdjan24[.]cam
- 20pearlspartydecor[.]mobi
- 20xg4[.]win
- 210-lm[.]win
- 213-lm[.]win
- 21supplyf[.]cam
- 21win[.]win
- 21zascq0eqc[.]win
- 220vk[.]win
- 222ds[.]win
- 22630hmgj[.]win
- 22betgiris[.]mobi
- 231hb[.]win
- 23456889ru1[.]win
- 234b[.]win
- 23519hmgj[.]win
- 2359-up[.]win
- 24-hour-sud[.]mobi
- 24-hour-suds[.]mobi
- 24-vulkan[.]cam
- 245155[.]win
- 247pestcontrol[.]cam
- 249-lm[.]rip
- 24hoursud[.]mobi
- 24hoursuds[.]mobi
- 24nl9av[.]win
- 24up[.]cam
- 24video[.]cam
- 24x7games[.]mobi
- 25-76[.]win
- 251jn[.]win
- 2523-pt[.]win
- 255621[.]win
- 256no[.]mobi
- 257177[.]win
- 25skwum[.]win
- 261ja[.]win
- 263839[.]win
- 2641997[.]win
- 26bet[.]win
- 275tf[.]win
- 2789[.]cab
- 279194[.]win
- 29-53[.]win
- 2952-ng[.]win
- 2956-yu[.]win
- 2967-qh[.]win
- 29bet[.]win
- 2a5e8[.]win
- 2alogistics[.]cam
- 2anadolucasinogiris[.]win
- 2beeb[.]mobi
- 2bong[.]cam
- 2c[.]rip
- 2c5401[.]win
- 2chaturbate[.]cam
- 2cy[.]mobi
- 2ds[.]mobi
- 2ezas[.]mobi
- 2fa[.]rip
- 2goplay[.]win
- 2hlmh[.]win
- 2io30[.]rip
- 2k[.]rip
- 2krn[.]cam
- 2krn[.]mobi

- 2krn[.]win
- 2l-i3[.]mobi
- 2ln[.]mobi
- 2lnzc[.]mobi
- 2lreb[.]win
- 2ndchance4rescue[.]mobi
- 2rbina[.]cam
- 2shb[.]win
- 2sms[.]win
- 2thebit[.]win
- 2ww-coi-nex-login[.]cam
- 2yueu[.]win
- 3-ssiptv[.]win
- 30335hmgj[.]win
- 304622[.]win
- 308088[.]win
- 30diasgratis[.]win
- 30wattee[.]cam
- 312-lm[.]win
- 313-lm[.]win
- 3142641[.]win
- 321goshop[.]mobi
- 321goshopping[.]mobi
- 322672[.]win
- 323726[.]win
- 323782[.]win
- 3265-tg[.]win
- 32damst[.]win

Sample Malicious Possibly Confusing Domains Not under Google Management

- rap78[.]win
- tmr6n[.]win
- mufg-aq[.]cam
- jrjjo[.]win
- etc-seieai[.]cam
- o68h5[.]win
- spnwheellido88[.]win
- overseasbulker[.]cam
- order912837[.]win
- npgco[.]cam
- 20xg4[.]win
- instgo[.]win
- fhb1[.]cam
- jpau[.]cam
- cv3g7[.]win
- down-imtoken[.]pub
- missionbell[.]cam
- robiiiox[.]cam
- simpleclickcounter[.]mobi
- dmee8[.]win
- order92183791234[.]win
- 81jnr[.]win
- 9n4ug[.]win
- qfsp2[.]win
- oyonn[.]win
- a-g0av[.]cam
- order9182739182378122[.]win
- ekienetceija[.]cam
- emiratepost[.]mobi
- order19818191929[.]win
- etc-ssimci[.]cam
- eeqw2[.]win
- prlvat24[.]win
- addressdawn[.]win
- qerpt[.]win
- g2yev[.]win
- e9mji[.]win
- lookserare[.]cam
- lsupport[.]mobi
- order912837179283[.]win
- gooc1[.]win
- qwww-robiox[.]cam
- re9yw[.]win
- okgvm[.]win

- post-nord[.]mobi
- l2l6o[.]win
- mullaa3len[.]cam
- urlsoft[.]win
- area4[.]mobi
- a5nnm[.]win

Sample Malicious Possibly Confusing Domain Dedicated IP Hosts

- 185[.]177[.]93[.]164
- 45[.]147[.]229[.]166

Sample Connected Domains Hosted on the Malicious Dedicated IP Hosts

- 0[.]riavideo[.]cam
- 0[.]tinyvideo[.]cam
- 0[.]vegavideo[.]cam
- 1[.]riavideo[.]cam
- 1[.]tinyvideo[.]cam
- 1[.]vegavideo[.]cam
- 2[.]riavideo[.]cam
- 2[.]tinyvideo[.]cam
- 2[.]vegavideo[.]cam
- 3[.]riavideo[.]cam
- 3[.]tinyvideo[.]cam
- 3[.]vegavideo[.]cam
- 4[.]riavideo[.]cam
- 4[.]tinyvideo[.]cam
- 4[.]vegavideo[.]cam
- addsleeper[.]com
- aicontenta[.]me
- allovideo[.]biz
- answerswords[.]xyz
- azclip[.]co[.]ua
- badrobotz[.]biz
- beksvideo[.]lol
- belavideo[.]biz
- bexivideo[.]live
- bexvideo[.]cam
- bexvideo[.]com
- bimvideo[.]cam
- booongo-uz[.]com
- bosicvideo[.]biz
- boxervideo[.]biz
- buenovideo[.]lat
- cashisnotrash[.]com
- chekmylinks[.]biz
- chilloutforus[.]com
- conusvideo[.]cam
- coralvideo[.]biz
- dennyvideo[.]biz
- detailvideo[.]biz
- dixivideo[.]biz
- duvideo[.]cam
- elpushnot[.]ru
- evavideo[.]biz
- fisivideo[.]cam
- fistikvideo[.]biz
- fixikvideo[.]biz
- galavideo[.]biz
- galavideo[.]lat
- git-store[.]online
- gitvideo[.]cam
- goodvibesforus[.]com

Sample Malicious Domains That Shared the Dedicated IP Hosts of the Malicious Possibly Confusing Domains

- 0[.]tinyvideo[.]cam
- 1[.]tinyvideo[.]cam

- 2[.]tinyvideo[.]cam
- 3[.]tinyvideo[.]cam
- 4[.]tinyvideo[.]cam
- bexvideo[.]cam
- bexvideo[.]com
- bosicvideo[.]biz
- chekmylinks[.]biz
- conusvideo[.]cam
- dennyvideo[.]biz
- goodvibesmatterforus[.]com
- holavideo[.]cam
- hopivideo[.]live
- ixovideo[.]biz
- jeocontent[.]live
- kellyvideo[.]cam