


Confucius Update Reveal New Tools and Techniques, Further Connections with Patchwork

Appendix



TrendLabs Security Intelligence Blog
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Indicators of Comptomise (IoCs):

Confucius

| Hash (SHA-256) | Detection |
|--|------------------------|
| FuddiDuniya APK: | |
| 467c587ccff90bf8b4fff77aa88392640fccca75656cfb8bb9fb4c0e935edb525 | AndroidOS_ConfuSpy.HRX |
| Philions 1.0.3 APK : | |
| b2a3b46498abdec68e82b85f01fc8d96ada56bb9a9a9d294eab8441e17484a79 | AndroidOS_ConfuSpy.HRX |
| Philions 1.0.4 APK: | |
| ccb03e6b26ba9039f0a098231495072dd5fccca587d2f3aa7d51f84419b349c91 | AndroidOS_ConfuSpy.HRX |
| Philions Windows malicious installers | |
| e95c6ebc4737d2dc3fa3a29df456322fc19bd4e85373008b580cfc042037b9bf | TSPY_CONFSTEAL.C |
| d2676976c12581ea3954804e7831a8a11019cddf2a6e91dcac3d3299600aa15 | TSPY_CONFSTEAL.C |
| 84312d3b0760540ead06151d0d9dec9ed674afca615ee4caa47155abf51b93a0 | TSPY_CONFSTEAL.C |
| batch2exe dropper | |
| 03265294358b7edb7a8b689474e9791d30a4d6fc47f9caadbc0fc064abc447ae | TROJ_DELFDROP.B |
| .NET downloader | |
| e425b6bbf5d74f3f4b442a8b9b083629a89a616645eb3507e59292afabf181d2 | TSPY_CONFSTEAL.C |
| 4d369817cc80d25f0f483b9d66633cbb33de6fe8c3e248a3abc9548f30d97b0f | TSPY_CONFSTEAL.C |
| Delphi second stage filestealer | |
| 5c2dd8fadf9f0bb60513f693b188a704583bb68da5572442d6c742ba0c8989c0 (94 chars substitution table) | TROJ_DELF.XXWZ |
| Malicious delivery documents | |
| cb8fa89b2664155e4fb60bf33024bc6d4b1d658abbec250a2a13b3d2e337ad86 | TROJ_DELFDROP.B |
| 780e56adc4a71c46892fe30b269a8d879a8fad0f885ac90dd1605d2510c5172a | TROJ_DELFDROP.B |
| 7be2628f1cfba974979208cace745561e0403c639df8e87238938c8afae30788 | TROJ_DELFDROP.B |

| | |
|---|--------------------|
| ffe9b86bbc2298ba003796bd18283fb4fba78962ae5aefd213a78b3494fd5708 | TROJ_DELFDROP.B |
| 72895802000d4eb9b9c850b8360f8489e14e120cc3ecc25aae6a86c46469d79d | TROJ_DELFDROP.B |
| b8bc0be5b8778f1813fc20c8984cc8d902d41df3f1a67f4e33a73ec577ad20cb | TROJ_DELF.XXWZ |
| b56be15f2d31a64e3fdff5461a2c72eb7f18743cd3711e2574b85e5d71fb64f3 | TROJ_DELFDROP.B |
| 627c2b722ea28fdd9558dd62e0938908bded7aa16a7649af87f88f1fef0fc44f | TROJ_DELFDROP.B |
| 7747440bc9aa779ef0b7e925f029ebf1a4b0d8f40baf01b21606c891b61d10da | TROJ_DELFDROP.B |
| Python file stealer | |
| 52be00915bd34d552f2c37000b99e1c5921521dcac96dcb76c3ff4050af170ea | TSPY_CONFSTEAL.C |
| Delphi file stealers | |
| d971842441c83c1bba05742d124620f5741bb5d5da9ffb31f06efa4bbdcf04ee (94 chars substitution table) | TSPY_CONFSTEAL.A |
| 5c2dd8fadf9f0bb60513f693b188a704583bb68da5572442d6c742ba0c8989c0 (94 chars substitution table) | TROJ_DELF.XXWZ |
| Delphi backdoors | |
| 29844b8125bb408f2c95754303f8b201ba754950111151bb3405740ebb5dae30 (bit flip) | TROJ_DELF.XXWZ |
| ff73e549a1d761c8e323e60d96aa31c0733aa4933243064c668c11eba3143f77 (bit flip) | TROJ_DELF.XXWZ |
| 32425dc129d5b4cf6483e267907365ba5ad87c082d536e190f1d46f6a70b3ec8 (bit flip) | TROJ_DELF.XXWZ |
| 3fad24c3a572e93764ca528cc025b19928682e8ed05f4fec4adac5dad9c7127 (XOR-based) | TROJ_DLOADR.AUSUIN |
| 97c6dc02eaa6b8ce8d46460d5d94f57ceb4f355626d1cd3ddaf6dccea81d75e2 (XOR-based) | TROJ_DELMOFU.A |
| cea94b50159f940df6ef1b7a1dd0ffd1ea45ce6aa86696f1441826029980984 (94 chars substitution table) | TROJ_DELF.XXWZ |
| 2d1ae38f918293599bee7df30185084e767a447c0f89ac42ca79dbaa828ce1b1 (94 chars substitution table) | TROJ_DELF.XXWZ |
| 147a44b7d1011aa553cbc4fec0aa13c051c6a6f882318cebbe52acc65a1af011 (94 chars substitution table) | TROJ_DELF.XXWZ |
| Command-and-Control Servers | |
| http://mfone[.]net/strength[.]php | |
| http://windefendr[.]com/description[.]php | |
| http://msoffice-updater.ddns.net/universe/blue.php | |
| http://microdigit.info/microservice/micservice.php | |
| http://46.165.207.108/appstore/appservice.php | |
| http://iexplorer.ddns.net/premium/product.php | |

| | |
|---|--|
| http://msword-updater.ddns.net/pyrimon/directory.php | |
| http://pcupdate.ddns.net/mercury/heliocentric.php | |
| http://syspda.com/Loader/ccpost.php | |

Malicious Domains

| Domain / IP Address |
|--|
| <i>Fake websites and related APK / filestealers</i> |
| philions[.]com |
| fuddiduniya[.]com |
| thenewpk[.]com |
| aarynews[.]com |
| philions[.]com |
| fuddiduniya[.]com |
| thenewpk[.]com |
| aarynews[.]com |

Patchwork

| Hash (SHA-256) | Detection |
|---|----------------------|
| Malicious delivery documents | |
| 4c704849972882b81e398f14357c35546f513928aafb687f0e36f18438077055 | TROJ_RELSLODR.AU |
| 885ca96b477e09edbb20e979a422597b56d72ce1435551a43d30aa9024d9e2ec | TROJ_EXPLOYT.TIDAIBF |
| d486ed118a425d902044fb7a84267e92b49169c24051ee9de41327ee5e6ac7c2 | TROJ_CVE20152545.CAP |
| fd8394b2ff9cd00380dc2b5a870e15183f1dc3bd82ca6ee58f055b44074c7fd4 | TROJ_MDROP.YYSRM |
| 07d5509988b1aa6f8d5203bc4b75e6d7be6acf5055831cc961a51d3e921f96bd | TROJ_CVE20152545.CAP |
| a67220bcf289af6a99a9760c05d197d09502c2119f62762f78523aa7cb9c96ef1 | TROJ_MDROPPER.AUSIC |
| 7e0e7deb55fb6024127273620466148fc70cea5bea43457cddd38fa650b0665c | TROJ_CVE201711882.SM |

| | |
|---|----------------------------|
| e97deb1869b219dc1b93820b360c79d9d535685926ce4a46f567bc27c352ac72 | TROJ_CVE201711882.SM |
| a67220bcf289af6a99a9760c05d197d09502c2119f62762f78523aa7cb9c96ef1 | TROJ_MDROPPER.AUSIC |
| 95efb091998fee13cae08c1ae70a8edf4372362e8270d37614bc51b17cde9bbe | TROJ_CVE201711882.R |
| c4e3f4d812a95fd7c49e98143a5dcb8b13542e3d8a72054b3d6f844c242d8084 | TROJ_CVE201711882.UHAOBGXQ |
| 4ae1677f511ddc57784c330b1c9c6091e136ada2123ebb1ddaae7666cd075872 | BKDR_XRAT.KVM |
| 21f5514d6256a20dcf9af315ee742d6d2a5b07009b200b447c45b2e8f057361d | BKDR_XRAT.KVM |
| c11e2306a7926e55f4b2fcbbe7307690059572f1857724bd4aaa7974be6a4b56 | BKDR_XRAT.KVL |
| 72b3636718456d99a3d12267baa7b94d2e58a996036c2d39505e3e02ad38d94f | BKDR_XRAT.KVM |
| b4e6724be4764ca14060262a9b3dee20f1a72be9f5ae7f15294ffa3cd037b78b | BKDR_XRAT.KVM |
| 119ae4ad1797b6e1a46404264de95c1e5e0bb95920926ed9740676864ebb6411 | TROJ_DELF.XXMO |
| 1ce65c338471814b69ab2779a24a3e80d1e09ab37f3f064bf9d9065541f18df1 | BKDR_XRAT.KVM |
| 2d4a460a5f165e33c695791f2803dfaf348b0cc5cd9938119856986745db0bbd | BKDR_XRAT.KVM |
| 8204a9061f124dd83745c01bb328063712615dfc6e4179a9886ae3eba3f53633 | BKDR_XRAT.KVM |
| cf0999f84bfcfebb789fca7bc22f2ee9cb870d9e794d177efd1acb6647e01862 | BKDR_XRAT.KVL |
| 5b76985f26c17df4897fff102a7ca66c39e8b58dc06dd367ff6aacc0616a664b | BKDR_XRAT.KVM |
| ce0e152ef2cb8f1e74580d632a17451b8e007719433074a614d0468bad11a8dc | BKDR_XRAT.KVM |
| 679eec0b8f3a9bb2d85ef1f9e0220b98bb7ffb9f9a7e1a3e7c2fb45af37b4f68 | BKDR_XRAT.KVL |
| 236a245ae5b6333336a38a0c347664386866e70c043d57c85b37d15b7ecd050a | BKDR_XRAT.KVL |
| c2f7e50e753322249a98e2e906b3cb6e328fcb09a4cca341304fd25a742c6e37 | BKDR_XRAT.KVL |
| a53a13a6f3aed8523710ff38a8d38f5aa9ebd9b44a25cc4967130f238f9990a3 | BKDR_XRAT.KVL |
| 9cb4b0f1330478d7748fc1f92e3150dfcb7cf958dce302e9224c235d4b6f19ed | BKDR_XRAT.KVM |
| c057b3a6bb9082b6be0b57d1c07ae30bc97a97ea9740a1781a23ea7e20686a6b | BKDR_XRAT.KVM |
| 301bd83352dde7113cc7769d918da2953a6dcfe7935a7e945ac251378873264f | BKDR_XRAT.KVM |

| | |
|--|----------------------------|
| 47edd2fc695f04623ec883416dbf166a495ded54cc4af7e41ceadd1cd4449608 | BKDR_XRAT.KVL |
| 141c92659d1b126d85383ee099cbc56e3bc9832c952446bd8969bf900d4ccf4c | BKDR_XRAT.KVM |
| 110568a2c505b72ef3957f1d2ce42ab1fb9264180ef94704ce2b9f1f0d5beffd | BKDR_XRAT.KVM |
| 5518c1bad3dc9b63c3b34a57d96a6dad11b0c30f6ad08ce7064e65d6ecec315d | BKDR_XRAT.KVM |
| 1e2b962a1a850808c9d071324e642d2891ea2c0b8cd48f471b1af16fa38ae399 | TROJ_CVE201711882.UHAOBGXQ |
| Droppers | |
| 939ac722791058d6cdf165624d7cc3a47e3c815a7bb62eb2493755ae1b3c514f | TROJ_DLOADR.CSH |
| 2d981e468deac0ad5b47f7c55d05ea5812ddd4d539f9939cc6825ea261750533 | TROJ_DLOADR.AUSULC |
| 1eb22abc743122ce749f3d5263bf9285d2dccb2b520b62a1b280783e87c671b | BKDR_XRAT.KVM |
| Delphi backdoor | |
| 5881d307ad1b7ac72daf7ab5dd3f72a278ae4bda0a61e25f86940540250c3dce (94 chars substitution table) | TROJ_DELF.XXWO |
| 061c155e87eaf790cc8bfa6c59ab7c1e5184df77dee4bd1c59506c9a91785b9a (bit-flip) | TROJ_DELF.XXWP |
| Delphi filestealer | |
| 795ae4097aa3bd5932be4110f6bd992f46d605d4c9e3afced314454d35395a59 (XOR-based) | TROJ_DELF.XXWZ |
| QuasarRAT | |
| 60d522f415c0b2bfff2a25650e6ac975ca8976750129ac769d257bf173dcec2 | BKDR_XRAT.LA |
| e1c837fc2399ffc3b211b422f67b4af02041f79b4eadfa8e4f1b79d8c133d714 | BKDR_XRAT.KVL |
| 5359a7bb5e7b68e61ecce8c1ca6167c88a685a1085b6005cecd5ef9c7a838af5 | BKDR_XRAT.KVL |
| eeaa075f3e53737471e8da2f7e932e67776f2387ddef73c4208aebded98eea2b | BKDR_XRAT.KVL |
| 81dd46a4cc1138ff7a7f12747af501b51f0ad35c5a247cb44e2296cc8fa4c886 | BKDR_XRAT.KVL |
| Badnews | |
| ab4f86a3144642346a3a40e500ace71badc06a962758522ca13801b40e9e7f4a | TROJ_JAKYLLHYDE.A |
| 290ac98de80154705794e96d0c6d657c948b7dff7abf25ea817585e4c923adb2 | TROJ_JAKYLLHYDE.A |
| d909945e0188839c5b52043c1ade5951a8481d53eb5bb9564366e73f6928c907 | TROJ_JAKYLLHYDE.A |
| bb7f7096787f9e4974baca7b8faece258464d426ce1ff749d9870f24671 | TROJ_JAKYLLHYDE.A |

| | |
|---|-------------------|
| 358b9 | |
| ab3ebbd6147230b70c9807047ab5bbb4481f7bb8c71955e579047d91226b5aa | TROJ_JAKYLLHYDE.A |
| de83af838038998474a7f3cf1ba3a146af5a5b6d1b53ac59966978ae9703fa19 | TROJ_JAKYLLHYDE.A |
| Command-and-Control Servers | |
| http://ebeijingcn.live/templates/software.php | |
| http://ebeijingcn.live/update/software.php | |
| http://saicgovcn.xyz/systemdb.php | |
| 209.58.185.36:23558 | |
| datapeople-cn.com | |
| tautiaos.com | |
| sastind-cn.org | |
| 94.156.35.204 | |
| 185.203.118.115 | |
| 185.29.11.59 | |
| 185.206.144.67 | |
| Links to malicious documents | |
| http://www.nationinterests.org/index.php?f=Python_Strategy.docx | |
| http://rannd.org/china_adiz.doc | |
| http://www.sinamilnews.com/cp0000412.rtf | |
| http://chinapolicyanalysis.org/Chinas_Arctic_Dream.doc | |
| http://mail.ifenngnews.com/Strategic_report_EN_2018_A01.doc | |
| http://mail.ifenngnews.com/Strategic_report_ZH_2018_A01.doc | |
| http://mail.ifenngnews.com/8888-91-2018.doc | |
| http://chinapolicyanalysis.org/Armed-Forces-Officers.doc | |
| http://fprii.net/The_Four_Traps_for_China.doc | |
| http://fprii.net/Part-I.doc | |
| http://fprii.net/Part-II.doc | |
| http://chinapolicyanalysis.org/Weapons_Systems_Factbook_2018_NQ.doc | |
| http://fprii.net/Systems-CW-and-DW.doc | |
| http://mail.ifenngnews.com/ADiCON2018.doc | |
| http://www.mericcs.org/GPPi_MERICS_Authoritarian_Advance_2018_1Q.doc | |

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|---|--|
| http://www.worldpoliticsreview.com/ChineseNuclearThinking_Final.doc | |
| http://planews.live/China_Coast_Guard.doc | |
| http://tiebabaidu.live/CSBA6318-GBSD_QLRSO_Report.doc | |
| http://mericcs.org/SouthChinaSea.doc | |

UrPage (unnamed group in May 2018)

| Hash (SHA-256) | Detection |
|--|----------------------|
| Delphi filestealers | |
| 1f0dabd61947b6df8a392b77a0eae33777be3caad13698aecc223b54ab4b859a (XOR-based) | TROJ_DELF.XXWZ |
| 815466ec21c59f7704f094a0e4cfc4f817c8b98231d10fe01919b6bd60eca64e (94 chars substitution table) | TROJ_DELF.XXWZ |
| Delphi backdoors | |
| 94e1916e880eedc02b8c61557926a77d7555f3f7a0131c390cdb4e98a23ff1f0 (bit-flip) | TROJ_DELF.XXWZ |
| 6874e3b191c047695fb4b020160604b85953a067ceec795410d5fda22994db95 (bit-flip) | TROJ_DELF.XXWZ |
| a7950c25bdbe103b3f0071bc35e90c28b06eea043b2175222674675945e7be22 (bit-flip) | TROJ_DELF.XXWZ |
| 33c5867b3375ef7e879caf614e79455df26adafdbb6aad11bde23edf695b5d85 (bit-flip) | TROJ_DELF.XXWZ |
| 3bf87393abc6344a3e0dc751c81cced760b886e2f97b319c1443636b9957f2b9 (bit-flip) | TROJ_DELF.XXWZ |
| 1a510082dbcd23a86569c713a848100a1ea018a6f35f8fecf9bbe6a86f555ad9 (bit-flip) | TROJ_DELF.XXWZ |
| 565de1908528707d44be5e6beac37456c2424035202d9272c175a1b96db19cdc (bit-flip) | TROJ_DELF.XXWZ |
| 184446bcb17021c39128369e9fe3d06cd0dde430c7f2e90c945c5a3299ef7b52 (bit-flip) | TROJ_DLOADER.TICOGAS |
| 8256fc98e05684569992a93318f519649d381081534e03b39263b071dd6e14c0 (bit-flip) | TROJ_DELF.XXWZ |
| 4ac870ef498441034054b1c0226ab079568e1c45bd8895e621598c9023318e66 (bit-flip) | TROJ_DLOADER.TICOGAS |
| e93f28efc1787ed5e8763cdc0417e7d5db1c9203e484350c64860fff91dab4f5 (bit-flip) | TROJ_DLOADER.TICOGAS |
| 408e7360b5f382d1fe90719dcbd1343c22a48bd17017ac47374e15c36cffe1e (bit-flip) | TROJ_DLOADER.TICOGAS |

| | |
|---|----------------------|
| 229805c8c6b2c54f7e34e23dba61268a1ef89b04f9052efec292366aa86c224a (bit-flip) | TROJ_STARTER.TJBGBT |
| bd7f33c1566f56b1bce2f59e983b60d79e2e2de80ea9cd6dffe613005ab2e817 (bit-flip) | TROJ_DELF.XXWZ |
| f43ea2db9e79a819901c6ebb2a7cabbddd4b3d12ccea985604d391faccabd32 (bit-flip) | TROJ_DLOADER.TICOGAS |
| c6c0ca3ca838b6ab857a1b22cc66ad568af96a3368c3c99598e63c4e4e6c85cb (bit-flip) | TROJ_DLOADER.TICOGAS |
| ff184e204f40b2f917c517a2abf92da20a96026e02ba4fbfa405d5c72ab96050 (bit-flip) | TROJ_DELF.XXWZ |
| 80f02104726ff8f78db3ef70c2b641c373ec36abfd5d457219648b6edf71a521 (bit-flip) | TROJ_FAKEDMC.A |
| 1be9579507a8b20110b740c65f1b65d920c455ab1c026cadb1a250a267c206be (bit-flip) | TROJ_DELF.XXWZ |
| b1172084ba179d97c93f5e31ab6d0756f0fd7036020f021a11f6303b35049461 (bit-flip) | TROJ_DELF.XXWZ |
| 605a80c8b7305ad1d6815bfe2035128c8dd06e8333d8b3cba9ed68caa4aa0c17 (bit-flip) | TROJ_DELF.XXWZ |
| 21ff4ee3adbe90638453f76f8922cf6ac39d0016afbddac9dd18f6db80e7ff33 (bit-flip) | TROJ_DELF.XXWZ |
| f558351453096e02e5fbeddc10f59f6f8e5311cefa626aa78f06ef8474997df5 (bit-flip) | TROJ_DELF.XXWZ |
| 6cee1781b3acddea76959b0fc3c0058938da9ed4facc9c12c742633bf2dc5ca2 (bit-flip) | TROJ_DELF.XXWZ |
| 2af07c7cee0743b9ab84eb5947d0334cb0b1dc874fa562920aafbc4ad95b12fc (bit-flip) | TROJ_DELF.XXWZ |
| 5716509e4cdbf8ffa5fbce02b8881320cb852d98e590215455986a5604a453f7 (bit-flip) | TROJ_DELF.XXWZ |
| Command-and-Control Servers | |
| http://ambicluster.com/aoc.php | |
| http://lepze.com/webseries.php | |
| http://upgrade9.com/roadrash/team.php | |
| http://scan8t.com/delta/deltafile.php | |
| http://scan8t.com/pulm/scrub.php | |
| http://work4m.com/engine/mkfile.php | |
| http://scan8t.com/silo/strength.php | |
| http://scan8t.com/encourage/spring.php | |
| http://scan8t.com/encourage/spring.php | |
| http://scan8t.com/pulm/links.php | |

| | |
|---|--|
| http://computesystem.com/scrol89r74gfefflock/electro686876fsdfs.php | |
| http://logicvisor.com/Scroll454656capsyt/standard567tyr.php | |
| http://scrollayer.com/equation3343tweywd/linear87987987ytrep.php | |
| http://qutonium.com/Bingfdkshfljsaflljsaf/spiraldquiyqwiudff.php | |
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