

Chaos Ransomware Variant in Fake Minecraft Alt List Brings Destruction to Japanese Gamers | FortiGuard Labs

By Shunichi Imano and Fred Gutierrez

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[FortiGuard Labs](#) Threat Research Report

Affected Platforms: Windows

Impacted Parties: Japanese Minecraft Gamers

Impact: Potential loss of files and money due to file encryption and destruction and paying ransom

Severity Level: Medium

Minecraft is one of the most popular digital games in the world. It was originally released in May 2009 by Swedish game developer Mojang Studios, which was acquired by Microsoft in 2014 for US \$2.5 billion. Initially released for the Windows, Mac, and Linux platforms, the game is now available on 22 platforms including video game consoles and mobile devices, including Android and iOS. As its gaming population has steadily grown, reaching more than 140 million monthly active players in August 2021, Minecraft has never been more popular 12 years after its initial release. Evidently, cybercriminals cannot pass up the opportunity to target such a large userbase.

[FortiGuard Labs](#) recently discovered a variant of the Chaos [ransomware](#) that appears to target Minecraft gamers in Japan. This variant not only encrypts certain files but also destroys others, rendering them unrecoverable. If gamers fall prey to the attack, choosing to pay the ransom may still lead to a loss of data. In this report we will take a look at how this new ransomware variant works.

Number of monthly active players of Minecraft worldwide as of March 2021

(in millions)

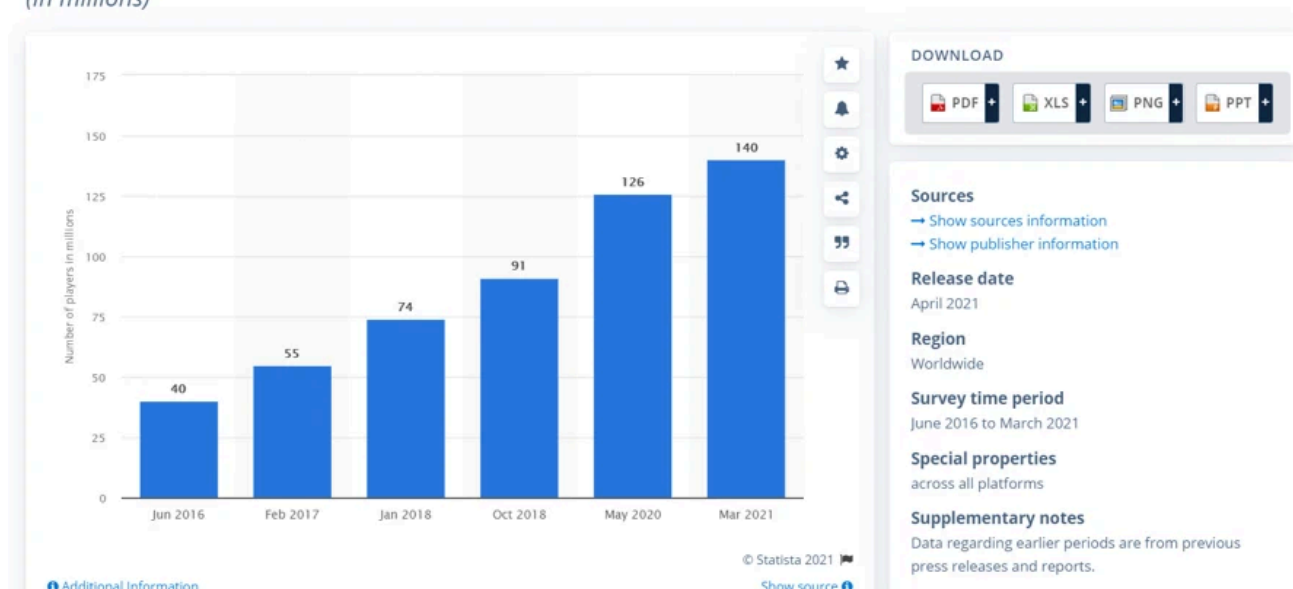


Figure 1. Growth of Monthly Active Minecraft Players since June 2016 per Statista

Ransomware Lure Being Posted to Japanese Minecraft Forums

Gamers create “alt” (alternative) accounts within Minecraft for various purposes (both good and bad): they allow them to antagonize/troll other players without having their main account banned, they provide cover for an alternative in-game identity/personality, they help avoid getting their main account banned for using cheats (gaining an unfair advantage over other gamers), etc. FortiGuard Labs has discovered a variant of Chaos ransomware being hidden in a file pretending to contain a list of “Minecraft Alt” accounts that leads us to believe that the effort is to target Minecraft gamers in Japan.

Even though they are often publicly available through Minecraft online forums, Alt Lists contain stolen accounts that gamers can use to do the things listed above. That’s what the threat actors behind this ransomware attack are using to lure victims to download and open the file.

In this case, the file is an executable, but it uses a text icon to fool potential victims into thinking it is a text file full of compromised usernames and passwords for Minecraft. While we don’t know how this specific fake list is being distributed, it’s a safe guess that the file is being advertised on Minecraft forums for Japanese gamers.

How the Executable Works

Once the executable file is opened, the [malware](#) searches for files smaller than 2,117,152 bytes on the compromised machine and encrypts them. It then appends those files with four random characters chosen from “abcdefghijklmnopqrstuvwxyz1234567890” as a file extension.

But files larger than 2,117,152 bytes with specified file extensions are filled with random bytes so the victim will not be able to get those files back even if the ransom is paid. Having this destructive element changes this attack from a typical ransomware attack, and is a very troubling component.

It is not known why the malware authors have chosen these file size values or why they choose to encrypt some and destroy others. But it is interesting to note that the Chaos malware was originally classified as a wiper malware with the ransomware component added later.

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.txt, .jar, .dat, .contact, .settings, .doc, .docx, .xls, .xlsx, .ppt, .pptx, .odt, .jpg, .mka, .mhtml, .oqy, .png, .csv, .py, .sql, .mdb, .php, .asp, .aspx, .html, .htm, .xml, .psd, .pdf, .xla, .cub, .dae, .indd, .cs, .mp3, .mp4, .dwg, .zip, .rar, .mov, .rtf, .bmp, .mkv, .avi, .apk, .lnk, .dib, .dic, .dif, .divx, .iso, .7zip, .ace, .arj, .bz2, .cab, .gzip, .lzh, .tar, .jpeg, .xz, .mpeg, .torrent, .mpg, .core, .pdb, .ico, .pas, .db, .wmv, .swf, .cer, .bak, .backup, .accdb, .bay, .p7c, .exif, .vss, .raw, .m4a, .wma, .flv, .sie, .sum, .ibank, .wallet, .css, .js, .rb, .crt, .xlsm, .xlsb, .7z, .cpp, .java, .jpe, .ini, .blob, .wps, .docm, .wav, .3gp, .webm, .m4v, .amv, .m4p, .svg, .ods, .bk, .vdi, .vmrk, .onepkg, .accde, .jsp, .json, .gif, .log, .gz, .config, .vb, .mlv, .sln, .pst, .obj, .xlam, .djvu, .inc, .cvs, .dbf, .tbi, .wpd, .dot, .dotx, .xltx, .pptm, .potx, .potm, .pot, .xlw, .xps, .xsd, .xsf, .xsl, .kmz, .accdr, .stm, .accdt, .ppam, .pps, .ppsm, .lcd, .3ds, .3fr, .3g2, .accda, .accdc, .accdw, .adp, .ai, .ai3, .ai4, .ai5, .ai6, .ai7, .ai8, .arw, .ascx, .asm, .asmx, .avs, .bin, .cfm, .dbx, .dcm, .dcr, .pict, .rgbe, .dwt, .f4v, .exr, .kwm, .max, .mda, .mde, .mdf, .mdw, .mht, .mpv, .msg, .myi, .nef, .odc, .geo, .swift, .odm, .odp, .oft, .orf, .pfx, .pl2, .pl, .pls, .safe, .tab, .vbs, .xlk, .xlm, .xlt, .xltm, .svgz, .slk, .tar.gz, .dmg, .ps, .psb, .tif, .rss, .key, .vob, .epsp, .dc3, .iff, .onepkg, .onetoc2, .opt, .p7b, .pam, .r3d
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Figure 2. List of file extensions this Chaos variant targets for destruction

Once the attack takes place, a dropped ReadMe.txt files ask the victim to pay a ransom in either bitcoin or pre-paid cards. The requested amount to decrypt the files is equal to 2,000 yen (approx. US \$17), which is dirt cheap

compared to the amounts other ransomware attacks typically demand. The ransom note does not specify which type of pre-paid card the attacker wants. All kinds of pre-paid cards (online shopping, gaming, music, mobile phone charge and online streaming services) are available in convenience stores. Japan has more than [50,000 convenience store locations](#) selling pre-paid cards and most are open 24/7.

The ransom note also states that the attacker is available only on Saturdays and apologizes for any inconvenience caused. The malware does not include code to identify the language setting of the compromised machine and the ransom note is available in Japanese only. This, combined with the formal language of the ransom note, indicates this Chaos ransomware variant specifically targets Japanese Windows users.

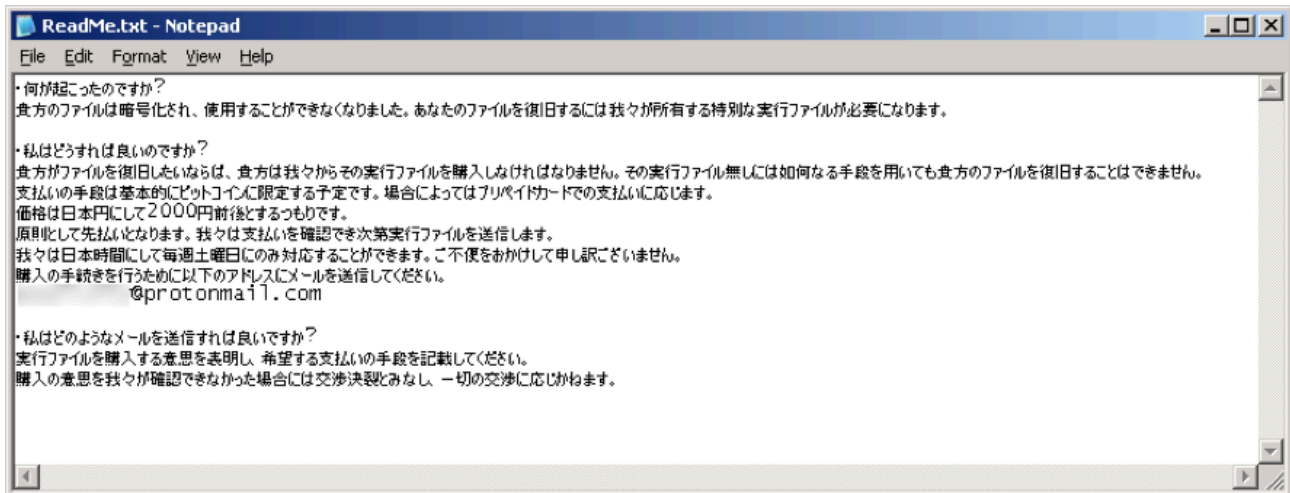


Figure 3. Ransom note

The ransomware also deletes shadow copies from the compromised machine, which prevents the victim from being able to recover any files that had been encrypted, making it doubly destructive. FortiGuard Labs previously released a [blog](#) about shadow copy deletion carried out by ransomware. Luckily this Chaos ransomware variant does not have any code to steal data from the compromised machine.

The malware also changes the desktop wallpaper, perhaps to add more pressure to the victim to pay the ransom.

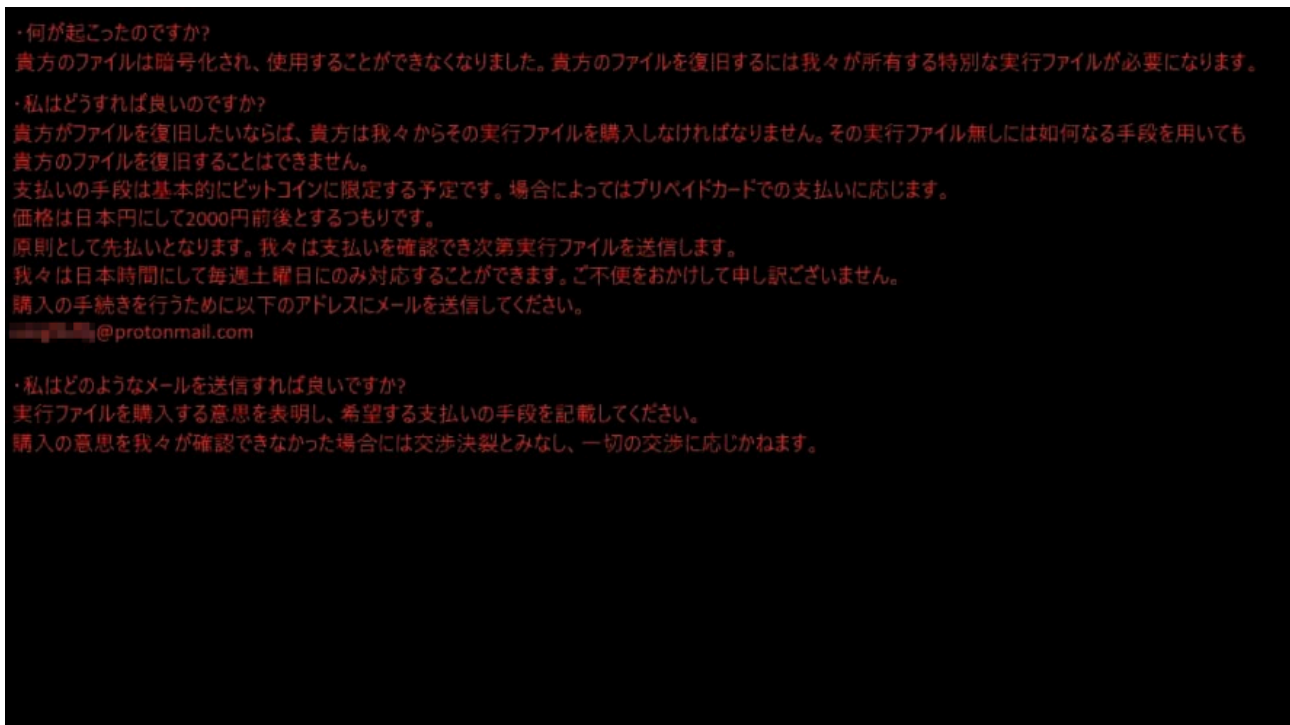


Figure 4. Image of desktop wallpaper replaced by the ransomware

Conclusion - Chaos Ransomware Variant

There is nothing fancy about this Chaos ransomware variant nor its infection vector. However, despite its cheap ransom demand, its ability to destroy data and render it unrecoverable makes it more than a mere prank to annoy Japanese Minecraft gamers. Ransomware is still ransomware, and in this case, the victim may not be able to get their original files back, with or without making a ransom payment. The best advice is for players to stay off suspicious gaming cheat sites and simply enjoy the game the way it was meant to be played.

Fortinet Protections

FortiGuard Labs has AV coverage in place for all of the malicious file samples in the report as:

MSIL/Filecoder.AGP!tr.ransom

Due to the ease of disruption, damage to daily operations, potential impact to the reputation of an organization, and the unwanted destruction or release of personally identifiable information (PII), etc., it is important to keep all AV and [IPS](#) signatures up to date.

IOCs

SHA2:

1a00c3f9173ee4c6f944e2dcebe44ca71f06455951728af06eba0f945e084907

aacce549a756cd942ee79f57625d0902ce79315f4e4bfb1381afa208599d7be5

Learn more about Fortinet's [FortiGuard Labs](#) threat research and intelligence organization and the FortiGuard Security Subscriptions and Services [portfolio](#).

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Source: <https://www.fortinet.com/blog/threat-research/chaos-ransomware-variant-in-fake-minecraft-alt-list-brings-destruction>