

Lynx Ransomware: A Rebranding of INC Ransomware

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Executive Summary

In July 2024, researchers from Palo Alto Networks discovered a successor to INC ransomware named Lynx. Since its emergence, the group behind this ransomware has actively targeted organizations in various sectors such as retail, real estate, architecture, and financial and environmental services in the U.S. and UK.

Lynx ransomware shares a significant portion of its source code with INC ransomware. INC ransomware initially surfaced in August 2023 and had variants compatible with both Windows and Linux. While we haven't confirmed any Linux samples yet for Lynx ransomware, we have noted Windows samples. This ransomware operates using a ransomware-as-a-service (RaaS) model.

This article delves into the timeline of these more recent attacks and the evolving tactics employed by the threat actor behind this ransomware.

Palo Alto Networks customers are better protected from Lynx ransomware through our [Network Security](#) solutions and [Cortex](#) line of products.

If you think you might have been compromised or have an urgent matter, contact the [Unit 42 Incident Response team](#).

Related Unit 42 Topics

Ransomware , Double Extortion

Activity Timeline

Figure 1 below shows a timeline comparing the number of confirmed samples we have discovered for both INC and Lynx ransomware. This graph presents a comparison of the sample count for both INC and Lynx ransomware on a monthly basis from October 2023 through September 2024.

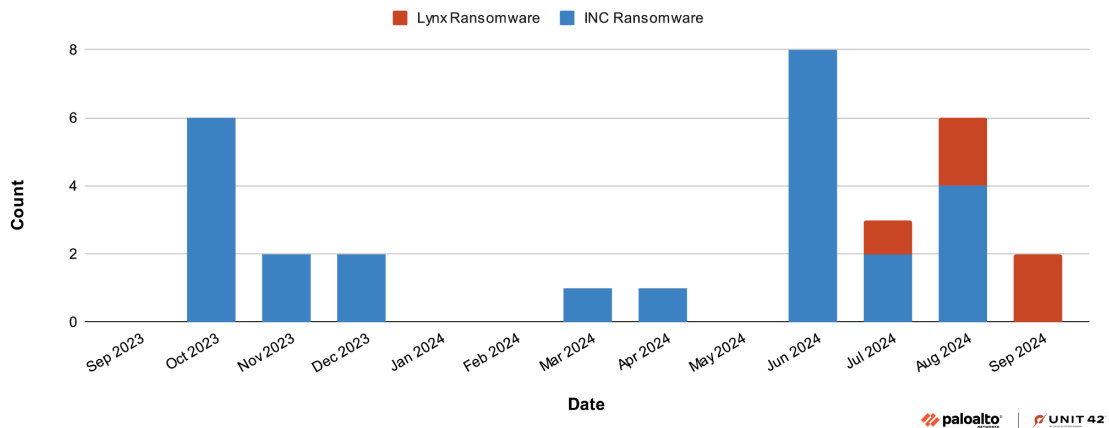


Figure 1. INC versus Lynx ransomware sample timeline.

The source code for INC ransomware [was available for sale on the criminal underground market as early as March 2024](#). Because of this, we expect many malware authors to acquire and repackage this code to develop new ransomware, similar to what the Lynx group did. As a result, we can expect a growing trend in which newer or different ransomware groups reuse this existing code.

Delivery Mechanism

The group behind Lynx ransomware represents an increasingly prevalent and sophisticated double-extortion threat. The threat operators commonly disseminate their ransomware through a variety of cyberattack vectors.

These vectors include:

- Phishing emails that deceive users into revealing sensitive information
- Malicious downloads that surreptitiously install the ransomware onto victims' systems
- Hacking forums where cybercriminals share information and resources

The double extortion aspect of Lynx ransomware means that it exfiltrates a victim's data before encrypting it. This not only encrypts the victim's data, rendering it inaccessible, but also allows the ransomware group to leak or sell this information if the victim does not make a ransom payment.

Like other ransomware groups, this multifaceted approach to cyberextortion has made Lynx ransomware a formidable threat to individuals and organizations alike. This necessitates organizations to develop robust cybersecurity measures to counteract its impact.

Data Leak Site

The group asserts that it has breached data from numerous companies and has publicly displayed the pilfered information on its website at [http://lynxblog\[.\]net](http://lynxblog[.]net) as demonstrated in Figures 2 and 3.

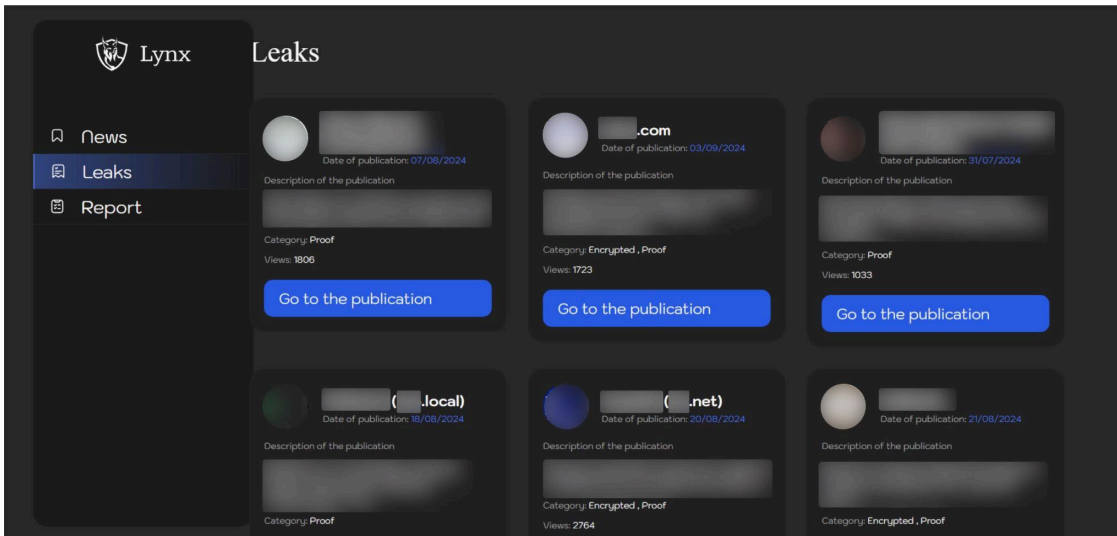


Figure 2. Leaked data published on the Lynx ransomware website.

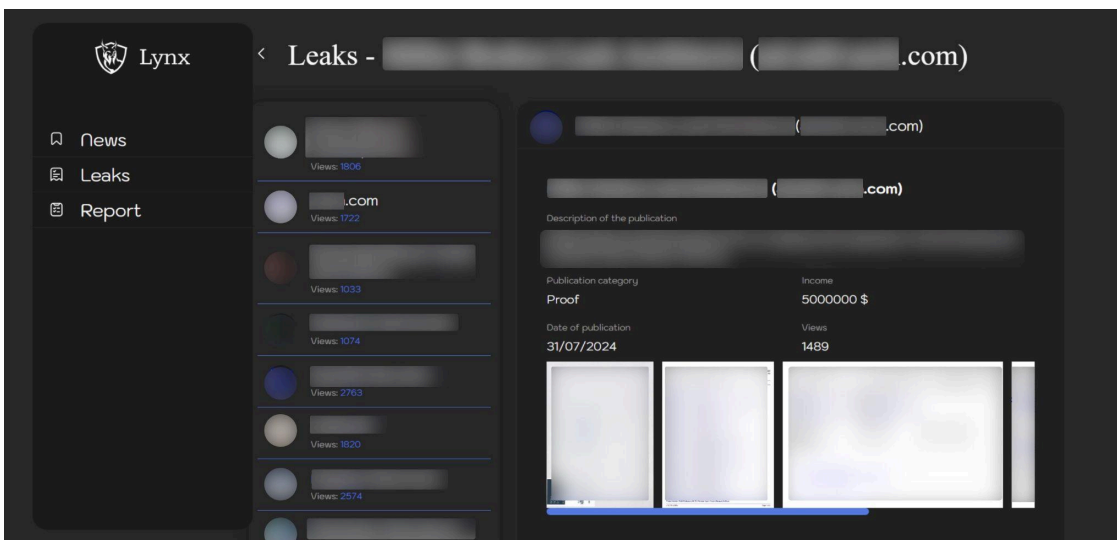


Figure 3. Leaked data with total income, date and size of data.

The group has a strict policy and recently released a statement on their activities as shown in Figure 4. This group states it is financially motivated, but it claims it does not target government institutes, hospitals or non-profit organizations.

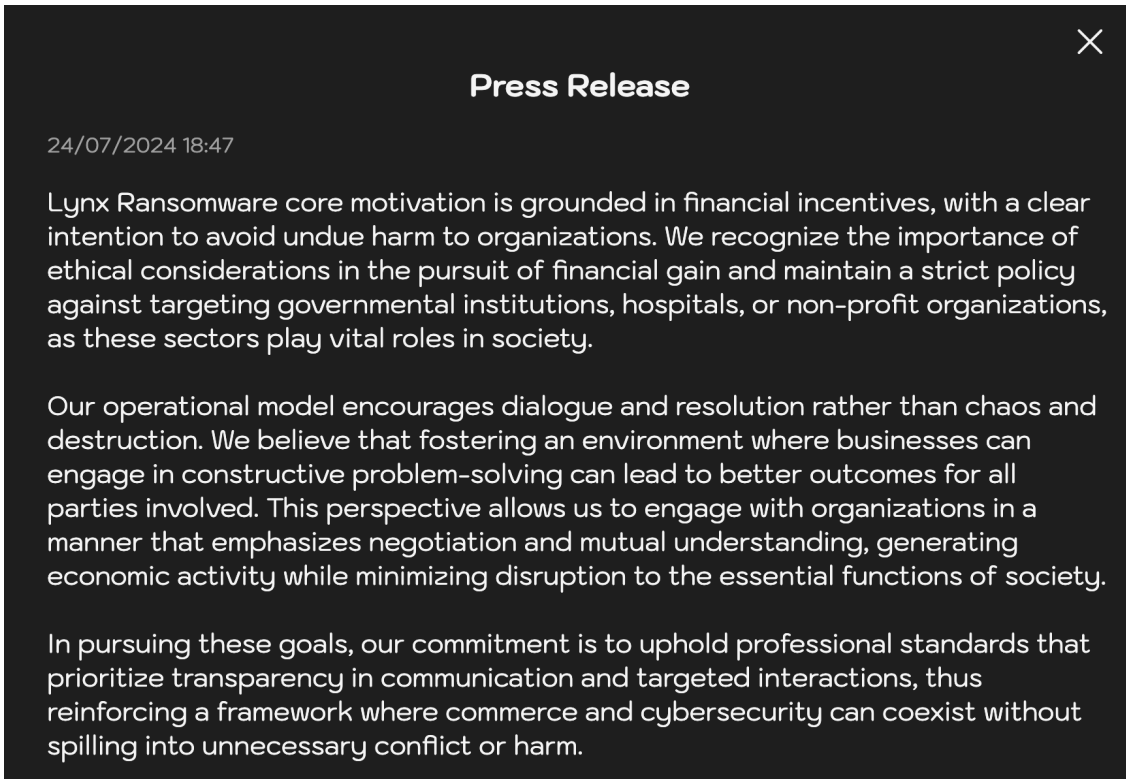


Figure 4. Leaked data published on the Lynx ransomware website.

This group has also created a reporting page for its operations as shown in Figure 5.



The image shows a dark-themed reporting form titled "Report" with a close button (X) in the top right corner. The form contains the following fields:

- Name:** A text input field with the placeholder "Enter the name".
- Mail:** A text input field with the placeholder "Enter the mail".
- Description:** A large text area with the placeholder "Enter a description".
- Captcha:** A text input field with the placeholder "Enter the captcha" next to a captcha image showing the math problem $91 + 50$.

At the bottom of the form is a prominent blue button labeled "Send".

Figure 5. Reporting form on the Lynx ransomware website.

Below, Figure 6 highlights the logo used for Lynx ransomware as seen on its website.



Figure 6. Lynx ransomware logo used on its website.

Technical Analysis of Lynx Ransomware

The Lynx ransomware samples we analyzed used AES-128 in CTR mode and Curve25519 Donna encryption algorithms. All files are encrypted and have the .lynx extension appended to them. This malware version is designed for the Windows platform and is written in the C++ programming language.

Attackers can tailor their execution of Lynx ransomware by using arguments supplied during runtime as illustrated in Figure 7.

```
C:\Users\████████\Desktop\VCR\20c94ce3e72edccb6c2fea99ca49e299d>win.exe --help
Usage: win.exe <ARGUMENTS>
Arguments:
  --file <filePath>      Encrypt only specified file
  --dir <dirPath>        Encrypt only specified directory
  --help                  Print this message
  --verbose               Enable verbosity
  --stop-processes        Try to stop processes via RestartManager
  --encrypt-network       Encrypt network shares
  --load-drives           Load hidden drives
  --hide-cmd              Hide console window
  --no-background         Don't change background image
  --no-print               Don't print note on printers
  --kill                  Kill processes/services
  --safe-mode             Enter safe-mode
```

Figure 7. Command-line options present in the malware.

The ransomware’s features include the following:

- Designating specific directories/files for encryption
- Terminating services/processes
- Encrypting network drives
- Mounting concealed disks
- Enabling or disabling background image alterations
- Printing all console logs

Figure 8 shows code snippets for various arguments available for Lynx ransomware. It can even load hidden drives and encrypt network share drives.

```
.text:00407723 E8 08 9C FF FF call sub_401330
.text:00407728 68 B8 4D 42 00 push offset aFileFilePathEn ; "\t--file <filePath> \tEncrypt only spec"...
.text:0040772D E8 FE 9B FF FF call sub_401330
.text:00407732 68 EC 4D 42 00 push offset aDirDirpathEncr ; "\t--dir <dirPath> \tEncrypt only specif"...
.text:00407737 E8 F4 9B FF FF call sub_401330
.text:0040773C 68 20 4E 42 00 push offset aHelpPrintThisM ; "\t--help \t\t\tPrint this message\n"
.text:00407741 E8 EA 9B FF FF call sub_401330
.text:00407746 68 40 4E 42 00 push offset aVerboseEnableV ; "\t--verbose \t\tEnable verbosity\n"
.text:00407748 E8 E0 9B FF FF call sub_401330
.text:00407750 68 60 4E 42 00 push offset aStopProcessesT ; "\t--stop-processes \tTry to stop proces"...
.text:00407755 E8 D6 9B FF FF call sub_401330
.text:0040775A 68 A0 4E 42 00 push offset aEncryptNetwork_0 ; "\t--encrypt-network \tEncrypt network s"...
.text:0040775F E8 CC 9B FF FF call sub_401330
.text:00407764 68 CC 4E 42 00 push offset aLoadDrivesLoad ; "\t--load-drives \t\tLoad hidden drives"...
.text:00407769 E8 C2 9B FF FF call sub_401330
.text:0040776E 68 F4 4E 42 00 push offset aHideCmdHideCon ; "\t--hide-cmd \t\tHide console window\n"
.text:00407773 E8 B8 9B FF FF call sub_401330
.text:00407778 68 18 4F 42 00 push offset aNoBackgroundDo ; "\t--no-background \tDon't change backgr"...
.text:0040777D E8 AE 9B FF FF call sub_401330
.text:00407782 68 4C 4F 42 00 push offset aNoPrintDonTPri ; "\t--no-print \t\tDon't print note on pr"...
.text:00407787 E8 A4 9B FF FF call sub_401330
.text:0040778C 68 78 4F 42 00 push offset aKillKillProces ; "\t--kill \t\t\tKill processes/services"...
.text:00407791 E8 9A 9B FF FF call sub_401330
.text:00407796 68 9C 4F 42 00 push offset aSafeModeEnterS ; "\t--safe-mode \t\tEnter safe-mode\n"
.text:0040779B E8 00 00 FF FF call sub_401330
```

Figure 8. Encryption mode in the malware.

If no arguments are given, the ransomware defaults to encrypting all files and drives on the system. Additionally, it deletes shadow copies and backup partition drives as shown in Figure 9.

```
C:\Users\██████████\Desktop\██████████\20c94ce3e72edccb6c2fea99ca49e299d>win.exe --verbose
Settings:
  [-] Try to stop processes via RestartManager
  [-] Encrypt network shares
  [-] Load hidden drives
  [-] Kill processes and services
  [-] Enter safe-mode

[+] Successfully decoded readme!
[+] Threads are initialized!
[+] Recycling bin...
[*] Starting full encryption in 5s....
[+] Found drive: \\?\C:\
[+] Successfully delete shadow copies from C:/
[+] Encrypting: \\?\C:\$GetCurrent\Loggs\downlevel_2023_04_12_17_47_09_172.log
[+] Encrypting: \\?\C:\$GetCurrent\Loggs\oobe_2023_04_12_20_44_50_152.log
[+] Encrypting: \\?\C:\$GetCurrent\Loggs\PartnerSetupCompleteResult.log
[+] Encrypting: \\?\C:\$GetCurrent\SafeOS\GetCurrentRollback.ini
[+] Encrypting: \\?\C:\$GetCurrent\SafeOS\PartnerSetupComplete.cmd
[+] Encrypting: \\?\C:\$GetCurrent\SafeOS\preoobe.cmd
[+] Encrypting: \\?\C:\$GetCurrent\SafeOS\SetupComplete.cmd
[+] Encrypting: \\?\C:\$WINRE_BACKUP_PARTITION.MARKER
[+] Encrypting: \\?\C:\MSOCache\All Users\{90140000-0016-0409-0000-00000000FF1CE}-C\ExcelLR.
[+] Encrypting: \\?\C:\MSOCache\All Users\{90140000-0016-0409-0000-00000000FF1CE}-C\ExcelMUJ
```

Figure 9. Running a Lynx ransomware sample with default arguments in a command terminal.

As noted from the debugger results in Figure 10, the ransomware scans all the drives, attempts to mount them, then encrypts the data they contain.

33 FF	xor	edi, edi
C7 85 84 FB FF FF 30 51 42 00	mov	[ebp+lpRootPathName], offset aQ ; "Q:\\"
C7 85 88 FB FF FF 38 51 42 00	mov	[ebp+var_478], offset aW ; "W:\\"
33 F6	xor	esi, esi
C7 85 8C FB FF FF 40 51 42 00	mov	[ebp+var_474], offset aE ; "E:\\"
C7 85 90 FB FF FF 48 51 42 00	mov	[ebp+var_470], offset aR ; "R:\\"
C7 85 94 FB FF FF 50 51 42 00	mov	[ebp+var_46C], offset aT ; "T:\\"
C7 85 98 FB FF FF 58 51 42 00	mov	[ebp+var_468], offset aY ; "Y:\\"
C7 85 9C FB FF FF 60 51 42 00	mov	[ebp+var_464], offset aU ; "U:\\"
C7 85 A0 FB FF FF 68 51 42 00	mov	[ebp+var_460], offset aI ; "I:\\"
C7 85 A4 FB FF FF 70 51 42 00	mov	[ebp+var_45C], offset aO ; "O:\\"
C7 85 A8 FB FF FF 78 51 42 00	mov	[ebp+var_458], offset aP ; "P:\\"
C7 85 AC FB FF FF 80 51 42 00	mov	[ebp+var_454], offset aA ; "A:\\"
C7 85 B0 FB FF FF 88 51 42 00	mov	[ebp+var_450], offset aS ; "S:\\"
C7 85 B4 FB FF FF 90 51 42 00	mov	[ebp+var_44C], offset aD ; "D:\\"
C7 85 B8 FB FF FF 98 51 42 00	mov	[ebp+var_448], offset asc_425198 ; "F:\\"
C7 85 BC FB FF FF A0 51 42 00	mov	[ebp+var_444], offset aG ; "G:\\"
C7 85 C0 FB FF FF A8 51 42 00	mov	[ebp+var_440], offset asc_4251A8 ; "H:\\"
C7 85 C4 FB FF FF B0 51 42 00	mov	[ebp+var_43C], offset aJ ; "J:\\"
C7 85 C8 FB FF FF B8 51 42 00	mov	[ebp+var_438], offset aK ; "K:\\"
C7 85 CC FB FF FF C0 51 42 00	mov	[ebp+var_434], offset asc_4251C0 ; "L:\\"
C7 85 D0 FB FF FF C8 51 42 00	mov	[ebp+var_430], offset aZ ; "Z:\\"
C7 85 D4 FB FF FF D0 51 42 00	mov	[ebp+var_42C], offset asc_4251D0 ; "X:\\"
C7 85 D8 FB FF FF D8 51 42 00	mov	[ebp+var_428], offset aC ; "C:\\"
C7 85 DC FB FF FF E0 51 42 00	mov	[ebp+var_424], offset aV ; "V:\\"
C7 85 E0 FB FF FF E8 51 42 00	mov	[ebp+var_420], offset aB ; "B:\\"
C7 85 E4 FB FF FF F0 51 42 00	mov	[ebp+var_41C], offset aN ; "N:\\"
C7 85 E8 FB FF FF F8 51 42 00	mov	[ebp+var_418], offset aM ; "M:\\"
89 BD F0 FB FF FF	mov	[ebp+cchReturnLength], edi
0F 1F 40 00	nop	dword ptr [eax+00h]
0F 1F 84 00 00 00 00 00	nop	dword ptr [eax+eax+00000000h]

Figure 10. Lynx ransomware sample checking for drive letters.

Before starting the encryption process, the sample would kill the processes on the system listed in Figure 11 below.

```
.rdata:00424C34 ; "sql"
.rdata:00424C38 dd offset aVeeam ; "veeam"
.rdata:00424C3C dd offset aBackup ; "backup"
.rdata:00424C40 dd offset aExchange ; "exchange"
.rdata:00424C44 dd offset aJava ; "java"
.rdata:00424C48 dd offset aNotepad ; "notepad"
```

Figure 11. Lynx checking for various processes in the system.

Figure 12 shows code snippets illustrating this process.

```
.text:0040788B 57          push     edi          ; hSnapshot
.text:0040788C FF 15 E4 F0 41 00  call    ds:Process32FirstW

; loc_407892
.text:00407892          loc_407892:
.text:00407892 BE 34 4C 42 00  mov     esi, offset off_424C34 ; "sql"
.text:00407897 66 0F 1F 84 00 00 00 00  nop     word ptr [eax+eax+00000000h]

; loc_4078A0
.text:004078A0          loc_4078A0:
.text:004078A0          mov     edx, [esi]
.text:004078A2 8D 8D D4 FD FF FF  lea    ecx, [ebp+pe.szExeFile]
.text:004078A8 E8 33 E5 FF FF      call   sub_405DE0
.text:004078AD 85 C0             test   eax, eax
.text:004078AF 74 49             jz     short loc_4078FA

; loc_4078B1
.text:004078B1 FF 85 B8 FD FF FF  push   [ebp+pe.th32ProcessID] ; dwProcessId
.text:004078B7 6A 00             push   0 ; bInheritHandle
.text:004078B9 6A 01             push   1 ; dwDesiredAccess
.text:004078BB FF 15 CC F0 41 00  call   ds:OpenProcess
.text:004078C1 8B F8             mov    edi, eax
.text:004078C3 85 FF             test   edi, edi
.text:004078C5 74 33             jz     short loc_4078FA

; loc_4078C7
.text:004078C7 6A 09             push   9 ; uExitCode
.text:004078C9 57          push     edi          ; hProcess
.text:004078CA FF 15 BC F0 41 00  call   ds:TerminateProcess
.text:004078D0 85 C0             test   eax, eax
.text:004078D2 74 23             jz     short loc_4078F7

; loc_4078D4
.text:004078D4 80 3D 3B A3 42 00 00  cmp    byte_42A33B, 0
.text:004078DB 74 1A             jz     short loc_4078F7
```

Figure 12. Code snippets checking process and termination.

Like many other ransomware strains, Lynx ransomware uses the [Restart Manager](#) API Rstrtmgr to enhance its encryption capabilities and maximize its impact on the victim's system. By incorporating Rstrtmgr into its attack process, Lynx ransomware can target files that are currently in use or locked by other applications.

Rstrtmgr helps the ransomware identify which applications are using the desired files. Ransomware such as Conti, Cactus and BiBi Wiper have also been observed employing this technique.

After the ransomware encrypts all files, it attempts to print a report via [Microsoft OneNote](#) as shown in the debugger output in Figure 13 and the command-line output in Figure 14.

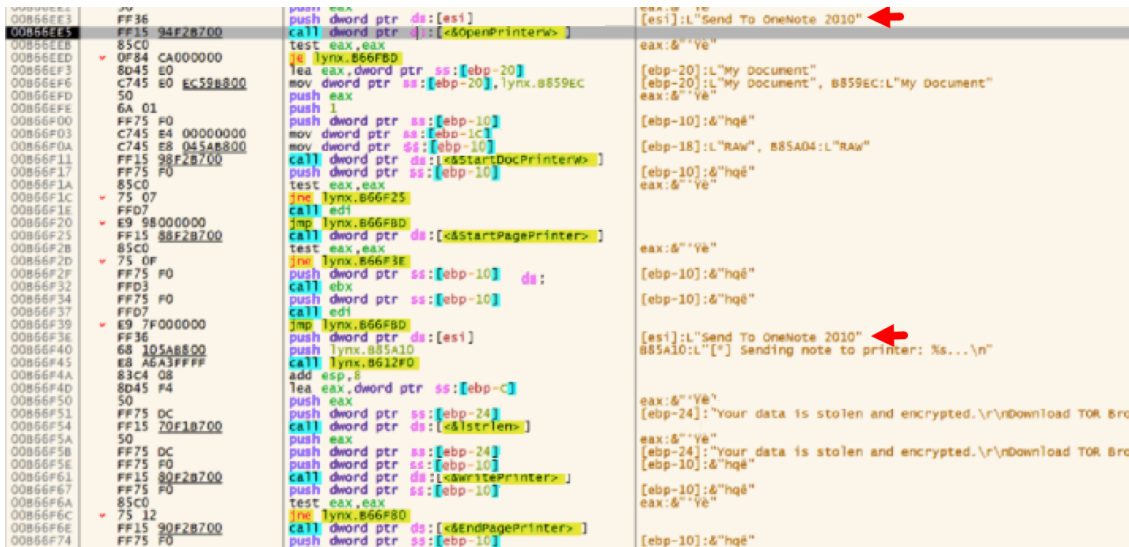


Figure 13. Debugger output showing a Lynx ransomware sample sending notes to OneNote.

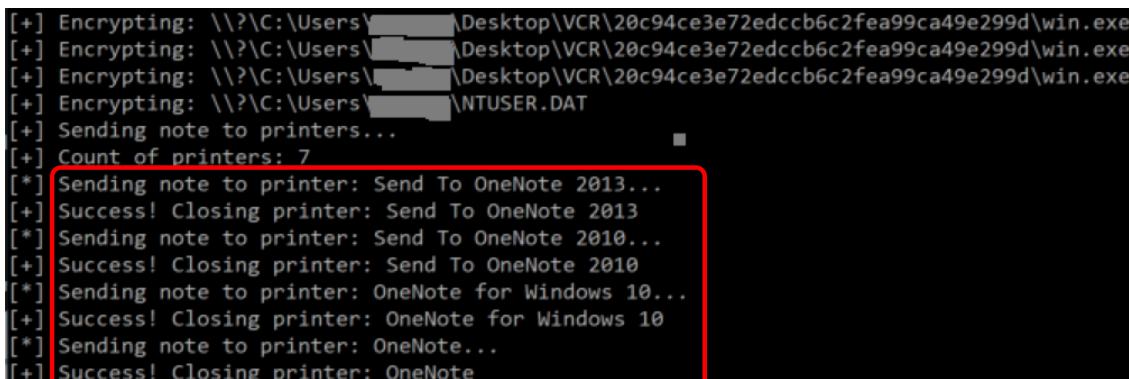


Figure 14. After running Lynx ransomware from the command line, the output revealed it sent notes to OneNote on completion of encryption.

Figure 15 below shows that the ransomware appends a .lynx extension to all encrypted file names.

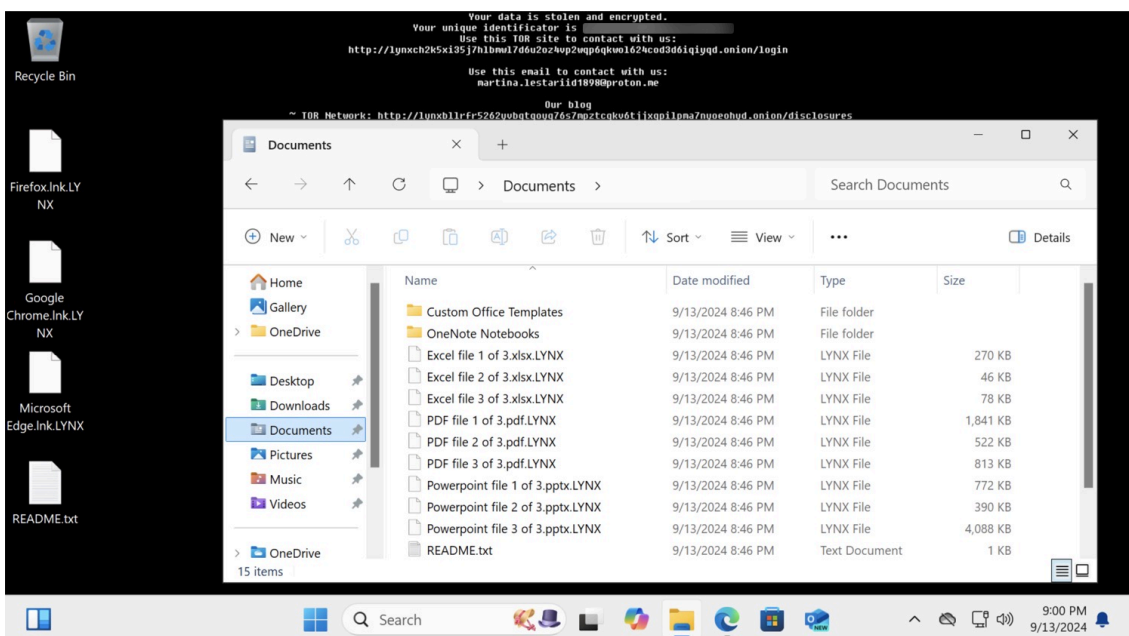


Figure 15. Desktop from a Lynx ransomware infection with the .lynx file extension appended to encrypted files.

The presence of a program database (PDB) path with Lynx in the name confirms the ransomware as a Lynx variant, as shown in the output of a packed executable (PE) analyzer tool in Figure 16.



Figure 16. Lynx sample .pdb path.

Lynx additionally drops a README.txt file as a ransom note. Figure 17 displays both the Base64-encoded content found in the sample data section of a Lynx ransomware sample and the decoded ransom note.

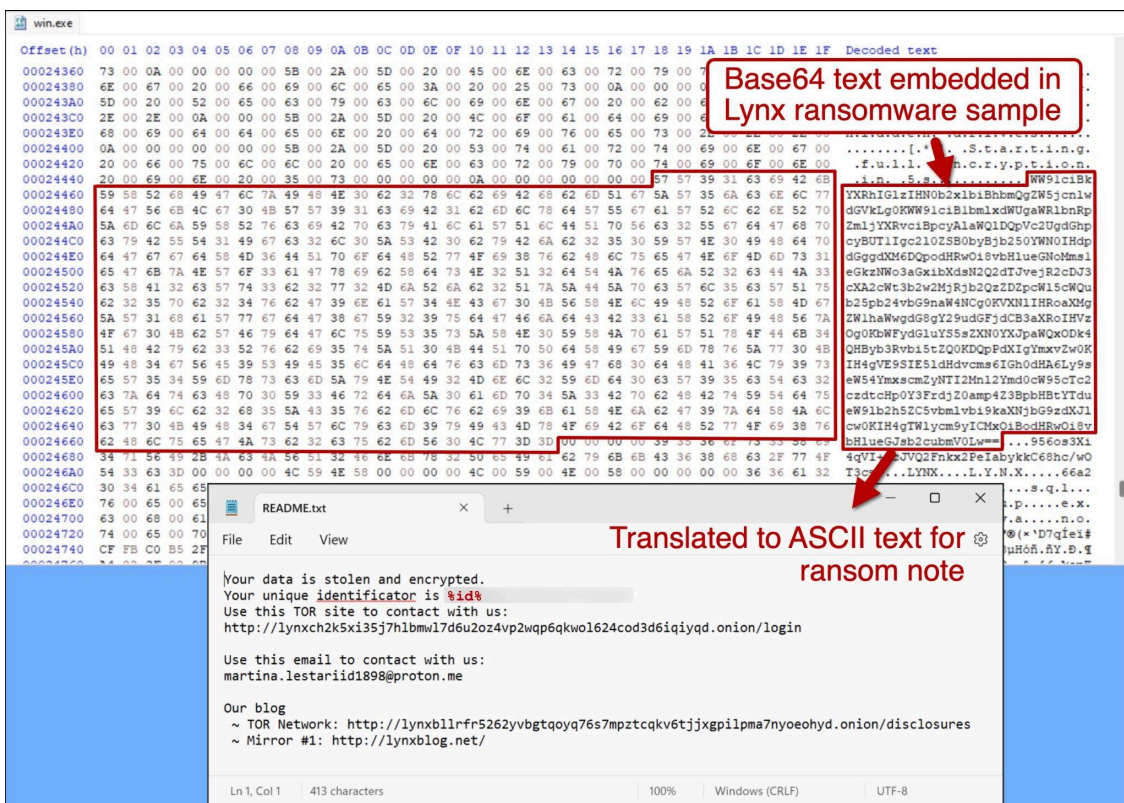


Figure 17. Ransom note Base64-encoded text from the Lynx ransomware sample and the decoded ransom note.

Figure 18 below shows a different ransom note from another Lynx ransomware sample.

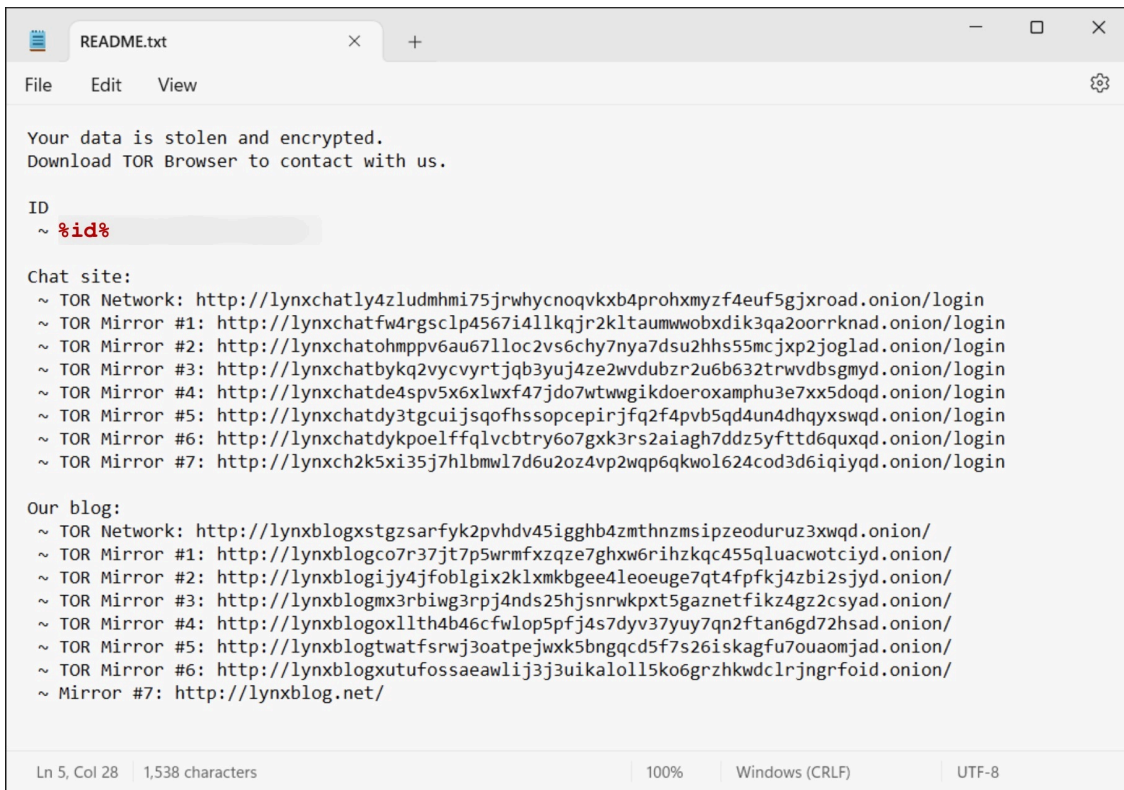


Figure 18. Ransom note from another Lynx ransomware sample.

Comparison With INC Ransomware

We used the open-source tool [BinDiff](#) to compare the code between a sample of Lynx ransomware and a sample of INC ransomware. Figure 19 shows the BinDiff results from the INC sample in the Primary Call Graph (bottom right) and the Lynx sample in the Secondary Call Graph (bottom left). By analyzing and cross-referencing the call graphs of both ransomware samples, we can observe the extent to which their code structures and functionalities overlap and diverge.

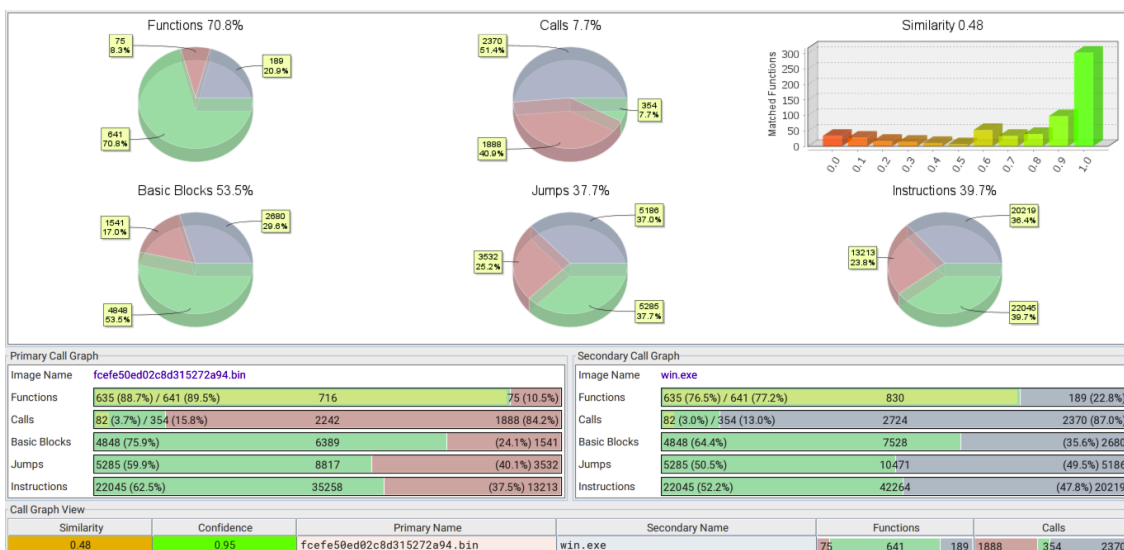


Figure 19. Code similarity between INC and Lynx ransomware as shown by [BinDiff](#).

Upon close examination, we find that the overall matched functions between both ransomware samples stand at 48%. This indicates that nearly half of the functions present in the INC ransomware sample are also used in the Lynx sample.

The percentage of matched functions rises to an impressive 70.8% when we consider functions that are common to both ransomware families. This significant overlap in shared functions strongly suggests that the developers of Lynx ransomware have borrowed and repurposed a considerable portion of the INC codebase to create their own malicious software.

Reusing code between different ransomware families is common among cybercriminals. By leveraging preexisting code and building upon the foundations laid by other successful ransomware, threat actors can save time and resources in the development of their own attacks. This can ultimately lead to more successful and widespread campaigns.

Conclusion

Lynx ransomware use is active and evolving, yet attackers often employ similar code patterns in newer versions. Palo Alto Networks monitors such campaigns and uses various static and dynamic methods for detecting and blocking them.

Ransomware is a familiar presence in the threat landscape, and there are numerous approaches to protecting customers from these evolving attacks. These methods include dynamic and behavioral detections, as well as more reactive [signature or pattern](#)-based solutions.

Palo Alto Networks Protection and Mitigation

Palo Alto Networks customers are better protected from Lynx ransomware through the following products:

- The [Cortex XDR](#) Anti-Ransomware module protects against the threats described in both versions of the malware: Windows and Linux.
- [Advanced WildFire](#): The Advanced WildFire machine-learning models and analysis techniques have been reviewed and updated in light of the IoCs shared in this research.

If you think you may have been compromised or have an urgent matter, get in touch with the [Unit 42 Incident Response team](#) or call:

- North America Toll-Free: 866.486.4842 (866.4.UNIT42)
- EMEA: +31.20.299.3130
- APAC: +65.6983.8730
- Japan: +81.50.1790.0200

Palo Alto Networks has shared these findings with our fellow Cyber Threat Alliance (CTA) members. CTA members use this intelligence to rapidly deploy protections to their customers and to systematically disrupt malicious cyber actors. Learn more about the [Cyber Threat Alliance](#).

Indicators of Compromise

SHA256 hashes of Windows EXE samples for Lynx ransomware:

- 571f5de9dd0d509ed7e5242b9b7473c2b2cbb36ba64d38b32122a0a337d6cf8b
- 82eb1910488657c78bef6879908526a2a2c6c31ab2f0517fcc5f3f6aa588b513
- eaa0e773eb593b0046452f420b6db8a47178c09e6db0fa68f6a2d42c3f48e3bc

SHA256 hashes of Windows EXE samples for INC ransomware:

- 02472036db9ec498ae565b344f099263f3218ecb785282150e8565d5cac92461
- 05e4f234a0f177949f375a56b1a875c9ca3d2bee97a2cb73fc2708914416c5a9
- 11cfd8e84704194ff9c56780858e9bbb9e82ff1b958149d74c43969d06ea10bd
- 1754c9973bac8260412e5ec34bf5156f5bb157aa797f95ff4fc905439b74357a
- 1a7c754ae1933338c740c807ec3dcf5e18e438356990761fdc2e75a2685ebf4a
- 29a25e971dbb87d3adcee75693782d978a3ca9f64df0a59b015ca519a4026c49
- 3156ee399296d55e56788b487701eb07fd5c49db04f80f5ab3dc5c4e3c071be0
- 36e3c83e50a19ad1048dab7814f3922631990578aab0790401bc67dbcc90a72e
- 508a644d552f237615d1504aa1628566fe0e752a5bc0c882fa72b3155c322cef
- 64b249eb3ab5993e7bcf5c0130e5f31cbd79dabdcad97268042780726e68533f
- 7f104a3dfda3a7fbdd9b910d00b0169328c5d2facc10dc17b4378612ffa82d51
- 869d6ae8c0568e40086fd817766a503bfe130c805748e7880704985890aca947
- 9ac550187c7c27a52c80e1c61def1d3d5e6dbae0e4eaeacf1a493908ffd3ec7d
- ca9d2440850b730ba03b3a4f410760961d15eb87e55ec502908d2546cd6f598c
- d147b202e98ce73802d7501366a036ea8993c4c06cdfc6921899efdd22d159c6
- e17c601551dfded76ab99a233957c5c4acf0229b46cd7fc2175ead7fe1e3d261
- ee1d8ac9fef147f0751000c38ca5d72feceaae803049a2cd49dcce15223b720
- f96ecd567d9a05a6adb33f07880eebf1d6a8709512302e363377065ca8f98f56
- fcefe50ed02c8d315272a94f860451bfd3d86fa6ffac215e69dfa26a7a5deced
- fef674fce37d5de43a4d36e86b2c0851d738f110a0d48bae4b2dab4c6a2c373e

SHA256 hashes of Linux ELF samples for INC ransomware:

- 63e0d4e861048f581c9e5c64b28a053eb0023d58eebf2b943868d5f68a67a8b7
- a0ceb258924ef004fa4efeef4bc0a86012afdb858e855ed14f1bbd31ca2e42f5
- c41ab33986921c812c51e7a86bd3fd0691f5bba925fae612f1b717afaa2fe0ef

Contact email address from Lynx ransomware note:

- [martina.lestariid1898@proton\[.\]me](mailto:martina.lestariid1898@proton[.]me)

Publicly accessible leak site blog for Lynx ransomware:

- [lynxblog\[.\]net](http://lynxblog[.]net)

Tor URLs for Lynx ransomware:

- [http\[:\]//lynxbllrfr5262yvbgtqoyq76s7mpztcqkv6tjxgplpma7nyoeohyd\[.\]ionion](http[:]//lynxbllrfr5262yvbgtqoyq76s7mpztcqkv6tjxgplpma7nyoeohyd[.]ionion)

- [http://lynxbllrfr5262yvbgtqoyq76s7mpztcqkv6tjxgpilpma7nyoeohyd\[.\]onion/disclosures](http://lynxbllrfr5262yvbgtqoyq76s7mpztcqkv6tjxgpilpma7nyoeohyd[.]onion/disclosures)
- [http://lynxblogco7r37jt7p5wrmfxxzqe7ghxw6rihzhkqc455qluacwotciyd\[.\]onion](http://lynxblogco7r37jt7p5wrmfxxzqe7ghxw6rihzhkqc455qluacwotciyd[.]onion)
- [http://lynxblogijy4jfoblrix2klxmkbgee4leoeuge7qt4fpfkj4zbi2sjyd\[.\]onion](http://lynxblogijy4jfoblrix2klxmkbgee4leoeuge7qt4fpfkj4zbi2sjyd[.]onion)
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