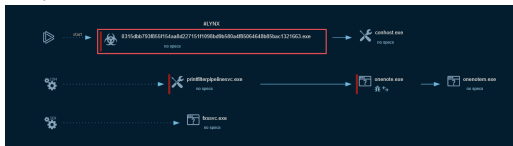


By number

ransomware is a "fork" of another popular ransomware called "DNC", its source code was supposedly sold on an onion site just a point in the last year. This "fork" is largely based on E. Lynx uses some strong encryption (AES-128), good secret handling (Curve25519), and an efficient IO pipeline for fast encryption of files. However I believe certain features of this ransomware have been faked (double extortion), as well as what I believe is the likely infection chain of this ransomware. This is all based on a couple of samples that I have reverse, and at least for the double extortion feature, it is not there, and has no imports that would enable this directly. In recent months it has gotten quite "popular", and the group has supposedly ransomed several UK/USA/Am companies.

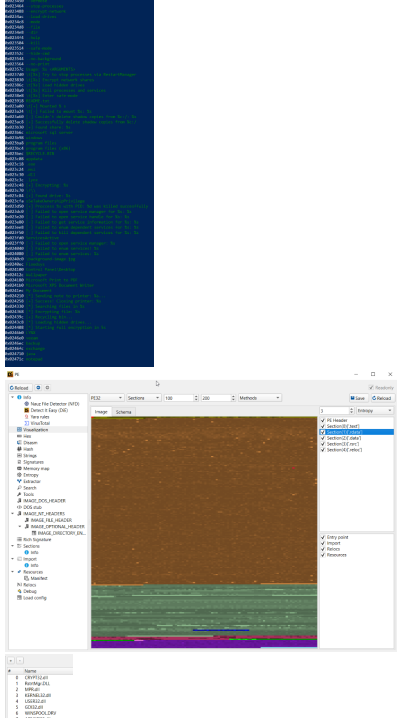
It is a 32 bit binary:

Compilation time: 2024-12-21 11:37:45 UTC



Initial Triage

Upon starting to reverse this malware, I soon realized that it was not packed or obfuscated in any way. This is pretty uncommon for most intermediate and up malware, however I think there is a reason for this that I will detail later.



I will structure the following analysis starting with what is basically the entry, "InitializeRansomwareOperation", then reversing everything that it calls.

Command Prefixes

Index	Type	Label	Doc ID	Doc Type	Doc String	Index Size	Doc Count
search-1	document	doc_id=1	1	doc_type=1	"doc string"	20 KB	1
search-1	document	doc_id=2	2	doc_type=1	"doc string"	20 KB	1
search-1	document	doc_id=3	3	doc_type=1	"doc string"	20 KB	1
search-1	document	doc_id=4	4	doc_type=1	"doc string"	20 KB	1
search-1	document	doc_id=5	5	doc_type=1	"doc string"	20 KB	1
search-1	document	doc_id=6	6	doc_type=1	"doc string"	20 KB	1
search-1	document	doc_id=7	7	doc_type=1	"doc string"	20 KB	1
search-1	document	doc_id=8	8	doc_type=1	"doc string"	20 KB	1
search-1	document	doc_id=9	9	doc_type=1	"doc string"	20 KB	1
search-1	document	doc_id=10	10	doc_type=1	"doc string"	20 KB	1
search-1	document	doc_id=11	11	doc_type=1	"doc string"	20 KB	1
search-1	document	doc_id=12	12	doc_type=1	"doc string"	20 KB	1
search-1	document	doc_id=13	13	doc_type=1	"doc string"	20 KB	1
search-1	document	doc_id=14	14	doc_type=1	"doc string"	20 KB	1
search-1	document	doc_id=15	15	doc_type=1	"doc string"	20 KB	1
search-1	document	doc_id=16	16	doc_type=1	"doc string"	20 KB	1
search-1	document	doc_id=17	17	doc_type=1	"doc string"	20 KB	1
search-1	document	doc_id=18	18	doc_type=1	"doc string"	20 KB	1
search-1	document	doc_id=19	19	doc_type=1	"doc string"	20 KB	1
search-1	document	doc_id=20	20	doc_type=1	"doc string"	20 KB	1
search-1	document	doc_id=21	21	doc_type=1	"doc string"	20 KB	1
search-1	document	doc_id=22	22	doc_type=1	"doc string"	20 KB	1
search-1	document	doc_id=23	23	doc_type=1	"doc string"	20 KB	1
search-1	document	doc_id=24	24	doc_type=1	"doc string"	20 KB	1
search-1	document	doc_id=25	25	doc_type=1	"doc string"	20 KB	1
search-1	document	doc_id=26	26	doc_type=1	"doc string"	20 KB	1
search-1	document	doc_id=27	27	doc_type=1	"doc string"	20 KB	1
search-1	document	doc_id=28	28	doc_type=1	"doc string"	20 KB	1
search-1	document	doc_id=29	29	doc_type=1	"doc string"	20 KB	1
search-1	document	doc_id=30	30	doc_type=1	"doc string"	20 KB	1
search-1	document	doc_id=31	31	doc_type=1	"doc string"	20 KB	1
search-1	document	doc_id=32	32	doc_type=1	"doc string"	20 KB	1
search-1	document	doc_id=33	33	doc_type=1	"doc string"	20 KB	1
search-1	document	doc_id=34	34	doc_type=1	"doc string"	20 KB	1
search-1	document	doc_id=35	35	doc_type=1	"doc string"	20 KB	1
search-1	document	doc_id=36	36	doc_type=1	"doc string"	20 KB	1
search-1	document	doc_id=37	37	doc_type=1	"doc string"	20 KB	1
search-1	document	doc_id=38	38	doc_type=1	"doc string"	20 KB	1
search-1	document	doc_id=39	39	doc_type=1	"doc string"	20 KB	1
search-1	document	doc_id=40	40	doc_type=1	"doc string"	20 KB	1
search-1	document	doc_id=41	41	doc_type=1	"doc string"	20 KB	1
search-1	document	doc_id=42	42	doc_type=1	"doc string"	20 KB	1
search-1	document	doc_id=43	43	doc_type=1	"doc string"	20 KB	1
search-1	document	doc_id=44	44	doc_type=1	"doc string"	20 KB	1
search-1	document	doc_id=45	45	doc_type=1	"doc string"	20 KB	1
search-1	document	doc_id=46	46	doc_type=1	"doc string"	20 KB	1
search-1	document	doc_id=47	47	doc_type=1	"doc string"	20 KB	1
search-1	document	doc_id=48	48	doc_type=1	"doc string"	20 KB	1
search-1	document	doc_id=49	49	doc_type=1	"doc string"	20 KB	1
search-1	document	doc_id=50	50	doc_type=1	"doc string"	20 KB	1

One of the first things that I noticed about this ransomware is that it appears to take in command prefixes.

This is an oddity. When using the `-help` command it gives you a nice message.

File	File description	File location
<code>file (filepaths)</code>	Encrypt only specified file(s)	<code>ls -la /usr/bin/encrypt</code>
<code>file (filepaths)</code>	Encrypt only specified directory	<code>ls -la /usr/bin/encrypt-dir</code>
<code>-help</code>	Print this message	<code>ls -la /usr/bin/encrypt</code>
<code>-verbose</code>	Enable verbosity	<code>ls -la /usr/bin/encrypt</code>
<code>-stop-processes</code>	Wait for processes via RootkitManager	<code>ls -la /usr/bin/encrypt</code>
<code>-encrypt-network</code>	Encrypt network shares	<code>ls -la /usr/bin/encrypt</code>
<code>-lock-drives</code>	Lock hidden drives	<code>ls -la /usr/bin/encrypt</code>
<code>-hide-rm</code>	Hide remote window	<code>ls -la /usr/bin/encrypt</code>
<code>-no-keygen</code>	Don't change built-in personal image	<code>ls -la /usr/bin/encrypt</code>
<code>-no-print</code>	Don't print notes on printers	<code>ls -la /usr/bin/encrypt</code>
<code>-kill</code>	Kill processes/services	<code>ls -la /usr/bin/encrypt</code>
<code>-safe-mode</code>	Enter safe mode	<code>ls -la /usr/bin/encrypt</code>

This is pretty odd for ransomware or malware in general, as no victim would know to look for these when trying to use an ordinary .exe. This suggests to me that it is a post exploitation ransomware, but I'll advance on this point later.

Depending on what prefixes are used they store a value in `local_14` which accumulates flag states etc.

For an example of how the command prefixes work, if `-kill` is used a specific byte is stored into `local_14`

```

else {
    iVar5 = 1;
    do {
        iVar6 = strcmpen("ILPMWSTH",iVar13 + iVar5 * 40,"-kll");
        if (iVar6 == 0) {
            iVar2 = 1;
            goto LAB_0040379F;
        }
        iVar5 = iVar5 + 1;
    } while (iVar5 < iVar2);
    iVar2 = 0;
}
LAB_0040379F:
iVar21 = local_20;
local_14 = 0;
iVar22 = CINT7171(Ivar2, 6, char(local_14));
iVar23 = CINT7171(Ivar2, 5, char(local_20));
if (local_20 < 20) {
    iVar2 = 0;
}
}

```

It then enumerates these processes (using `ProcessNextW/ProcessNextW`) and, for each process, uses an internal pointer to an array of string pointers. This array holds the target substrings (such as "vncm", "backup", "exchange", etc.) to check against each process name. If a process name contains one of these substrings, that process is terminated.

[illegible]

	PTM_DAT_0042644	IPF12:	InitialZhennewordoperation00...
			InitialZhennewordoperation00...
00426444	40 07 42 90	add	DAT_0042644
	PTM_0_0000_0042644	IPF11:	InitialZhennewordoperation00...
00426448	40 07 42 90	add	0_0000_0042644
0042644C	54 07 42 90	add	0_back0_0042644
00426450	64 07 42 90	add	0_exchange_0042644
00426454	78 07 42 90	add	0_0_0042644
00426458	94 07 42 90	add	0_0_0042644
0042645C	04 07 42 90	add	0_0_0042644

Decoding The Ransomnote

After setting up sufficient buffer sizes and allocating memory the ransomware decrypts its base64 note(s)

[illegible][illegible]

After this it calls a function I've named "ReplaceIDInRandomNote", which takes the %id% string from the decoded note and replaces it with a hardcoded victim ID

```
if ($?and -eq 0) {
    decryptPersonalNote = pOver();
    pOver();
    decryptPersonalNote = pOver();
    if ($?and -eq 0) {
        FUN_00401330();
    }
}
```

```

1  @param {Array<Object>} users - Array of users
2  @return {Array<Object>} users - Array of users
3
4  @example
5  const users = [
6    { id: 1, name: 'John', email: 'john@example.com' },
7    { id: 2, name: 'Jane', email: 'jane@example.com' },
8    { id: 3, name: 'Bob', email: 'bob@example.com' },
9    { id: 4, name: 'Alice', email: 'alice@example.com' },
10   { id: 5, name: 'Charlie', email: 'charlie@example.com' },
11   { id: 6, name: 'David', email: 'david@example.com' },
12   { id: 7, name: 'Eve', email: 'eve@example.com' },
13   { id: 8, name: 'Frank', email: 'frank@example.com' },
14   { id: 9, name: 'Grace', email: 'grace@example.com' },
15   { id: 10, name: 'Henry', email: 'henry@example.com' },
16   { id: 11, name: 'Ivy', email: 'ivy@example.com' },
17   { id: 12, name: 'Jack', email: 'jack@example.com' },
18   { id: 13, name: 'Karen', email: 'karen@example.com' },
19   { id: 14, name: 'Leo', email: 'leo@example.com' },
20   { id: 15, name: 'Mia', email: 'mia@example.com' },
21   { id: 16, name: 'Noah', email: 'noah@example.com' },
22   { id: 17, name: 'Olivia', email: 'olivia@example.com' },
23   { id: 18, name: 'Peter', email: 'peter@example.com' },
24   { id: 19, name: 'Quinn', email: 'quinn@example.com' },
25   { id: 20, name: 'Rory', email: 'rory@example.com' },
26   { id: 21, name: 'Sam', email: 'sam@example.com' },
27   { id: 22, name: 'Tina', email: 'tina@example.com' },
28   { id: 23, name: 'Uma', email: 'uma@example.com' },
29   { id: 24, name: 'Victor', email: 'victor@example.com' },
30   { id: 25, name: 'Wendy', email: 'wendy@example.com' },
31   { id: 26, name: 'Xavier', email: 'xavier@example.com' },
32   { id: 27, name: 'Yara', email: 'yara@example.com' },
33   { id: 28, name: 'Zoe', email: 'zoe@example.com' },
34   { id: 29, name: 'Adam', email: 'adam@example.com' },
35   { id: 30, name: 'Ella', email: 'ella@example.com' },
36   { id: 31, name: 'Frank', email: 'frank@example.com' },
37   { id: 32, name: 'Grace', email: 'grace@example.com' },
38   { id: 33, name: 'Harry', email: 'harry@example.com' },
39   { id: 34, name: 'Ivy', email: 'ivy@example.com' },
40   { id: 35, name: 'Jack', email: 'jack@example.com' },
41   { id: 36, name: 'Karen', email: 'karen@example.com' },
42   { id: 37, name: 'Leo', email: 'leo@example.com' },
43   { id: 38, name: 'Mia', email: 'mia@example.com' },
44   { id: 39, name: 'Noah', email: 'noah@example.com' },
45   { id: 40, name: 'Olivia', email: 'olivia@example.com' },
46   { id: 41, name: 'Peter', email: 'peter@example.com' },
47   { id: 42, name: 'Quinn', email: 'quinn@example.com' },
48   { id: 43, name: 'Rory', email: 'rory@example.com' },
49   { id: 44, name: 'Sam', email: 'sam@example.com' },
50   { id: 45, name: 'Tina', email: 'tina@example.com' },
51   { id: 46, name: 'Uma', email: 'uma@example.com' },
52   { id: 47, name: 'Victor', email: 'victor@example.com' },
53   { id: 48, name: 'Wendy', email: 'wendy@example.com' },
54   { id: 49, name: 'Xavier', email: 'xavier@example.com' },
55   { id: 50, name: 'Yara', email: 'yara@example.com' },
56   { id: 51, name: 'Zoe', email: 'zoe@example.com' },
57   { id: 52, name: 'Adam', email: 'adam@example.com' },
58   { id: 53, name: 'Ella', email: 'ella@example.com' },
59   { id: 54, name: 'Frank', email: 'frank@example.com' },
60   { id: 55, name: 'Grace', email: 'grace@example.com' },
61   { id: 56, name: 'Harry', email: 'harry@example.com' },
62   { id: 57, name: 'Ivy', email: 'ivy@example.com' },
63   { id: 58, name: 'Jack', email: 'jack@example.com' },
64   { id: 59, name: 'Karen', email: 'karen@example.com' },
65   { id: 60, name: 'Leo', email: 'leo@example.com' },
66   { id: 61, name: 'Mia', email: 'mia@example.com' },
67   { id: 62, name: 'Noah', email: 'noah@example.com' },
68   { id: 63, name: 'Olivia', email: 'olivia@example.com' },
69   { id: 64, name: 'Peter', email: 'peter@example.com' },
70   { id: 65, name: 'Quinn', email: 'quinn@example.com' },
71   { id: 66, name: 'Rory', email: 'rory@example.com' },
72   { id: 67, name: 'Sam', email: 'sam@example.com' },
73   { id: 68, name: 'Tina', email: 'tina@example.com' },
74   { id: 69, name: 'Uma', email: 'uma@example.com' },
75   { id: 70, name: 'Victor', email: 'victor@example.com' },
76   { id: 71, name: 'Wendy', email: 'wendy@example.com' },
77   { id: 72, name: 'Xavier', email: 'xavier@example.com' },
78   { id: 73, name: 'Yara', email: 'yara@example.com' },
79   { id: 74, name: 'Zoe', email: 'zoe@example.com' },
80   { id: 75, name: 'Adam', email: 'adam@example.com' },
81   { id: 76, name: 'Ella', email: 'ella@example.com' },
82   { id: 77, name: 'Frank', email: 'frank@example.com' },
83   { id: 78, name: 'Grace', email: 'grace@example.com' },
84   { id: 79, name: 'Harry', email: 'harry@example.com' },
85   { id: 80, name: 'Ivy', email: 'ivy@example.com' },
86   { id: 81, name: 'Jack', email: 'jack@example.com' },
87   { id: 82, name: 'Karen', email: 'karen@example.com' },
88   { id: 83, name: 'Leo', email: 'leo@example.com' },
89   { id: 84, name: 'Mia', email: 'mia@example.com' },
90   { id: 85, name: 'Noah', email: 'noah@example.com' },
91   { id: 86, name: 'Olivia', email: 'olivia@example.com' },
92   { id: 87, name: 'Peter', email: 'peter@example.com' },
93   { id: 88, name: 'Quinn', email: 'quinn@example.com' },
94   { id: 89, name: 'Rory', email: 'rory@example.com' },
95   { id: 90, name: 'Sam', email: 'sam@example.com' },
96   { id: 91, name: 'Tina', email: 'tina@example.com' },
97   { id: 92, name: 'Uma', email: 'uma@example.com' },
98   { id: 93, name: 'Victor', email: 'victor@example.com' },
99   { id: 94, name: 'Wendy', email: 'wendy@example.com' },
100  { id: 95, name: 'Xavier', email: 'xavier@example.com' },
101  { id: 96, name: 'Yara', email: 'yara@example.com' },
102  { id: 97, name: 'Zoe', email: 'zoe@example.com' },
103  { id: 98, name: 'Adam', email: 'adam@example.com' },
104  { id: 99, name: 'Ella', email: 'ella@example.com' },
105  { id: 100, name: 'Frank', email: 'frank@example.com' },
106  { id: 101, name: 'Grace', email: 'grace@example.com' },
107  { id: 102, name: 'Harry', email: 'harry@example.com' },
108  { id: 103, name: 'Ivy', email: 'ivy@example.com' },
109  { id: 104, name: 'Jack', email: 'jack@example.com' },
110  { id: 105, name: 'Karen', email: 'karen@example.com' },
111  { id: 106, name: 'Leo', email: 'leo@example.com' },
112  { id: 107, name: 'Mia', email: 'mia@example.com' },
113  { id: 108, name: 'Noah', email: 'noah@example.com' },
114  { id: 109, name: 'Olivia', email: 'olivia@example.com' },
115  { id: 110, name: 'Peter', email: 'peter@example.com' },
116  { id: 111, name: 'Quinn', email: 'quinn@example.com' },
117  { id: 112, name: 'Rory', email: 'rory@example.com' },
118  { id: 113, name: 'Sam', email: 'sam@example.com' },
119  { id: 114, name: 'Tina', email: 'tina@example.com' },
120  { id: 115, name: 'Uma', email: 'uma@example.com' },
121  { id: 116, name: 'Victor', email: 'victor@example.com' },
122  { id: 117, name: 'Wendy', email: 'wendy@example.com' },
123  { id: 118, name: 'Xavier', email: 'xavier@example.com' },
124  { id: 119, name: 'Yara', email: 'yara@example.com' },
125  { id: 120, name: 'Zoe', email: 'zoe@example.com' },
126  { id: 121, name: 'Adam', email: 'adam@example.com' },
127  { id: 122, name: 'Ella', email: 'ella@example.com' },
128  { id: 123, name: 'Frank', email: 'frank@example.com' },
129  { id: 124, name: 'Grace', email: 'grace@example.com' },
130  { id: 125, name: 'Harry', email: 'harry@example.com' },
131  { id: 126, name: 'Ivy', email: 'ivy@example.com' },
132  { id: 127, name: 'Jack', email: 'jack@example.com' },
133  { id: 128, name: 'Karen', email: 'karen@example.com' },
134  { id: 129, name: 'Leo', email: 'leo@example.com' },
135  { id: 130, name: 'Mia', email: 'mia@example.com' },
136  { id: 131, name: 'Noah', email: 'noah@example.com' },
137  { id: 132, name: 'Olivia', email: 'olivia@example.com' },
138  { id: 133, name: 'Peter', email: 'peter@example.com' },
139  { id: 134, name: 'Quinn', email: 'quinn@example.com' },
140  { id: 135, name: 'Rory', email: 'rory@example.com' },
141  { id: 136, name: 'Sam', email: 'sam@example.com' },
142  { id: 137, name: 'Tina', email: 'tina@example.com' },
143  { id: 138, name: 'Uma', email: 'uma@example.com' },
144  { id: 139, name: 'Victor', email: 'victor@example.com' },
145  { id: 140, name: 'Wendy', email: 'wendy@example.com' },
146  { id: 141, name: 'Xavier', email: 'xavier@example.com' },
147  { id: 142, name: 'Yara', email: 'yara@example.com' },
148  { id: 143, name: 'Zoe', email: 'zoe@example.com' },
149  { id: 144, name: 'Adam', email: 'adam@example.com' },
150  { id: 145, name: 'Ella', email: 'ella@example.com' },
151  { id: 146, name: 'Frank', email: 'frank@example.com' },
152  { id: 147, name: 'Grace', email: 'grace@example.com' },
153  { id: 148, name: 'Harry', email: 'harry@example.com' },
154  { id: 149, name: 'Ivy', email: 'ivy@example.com' },
155  { id: 150, name: 'Jack', email: 'jack@example.com' },
156  { id: 151, name: 'Karen', email: 'karen@example.com' },
157  { id: 152, name: 'Leo', email: 'leo@example.com' },
158  { id: 153, name: 'Mia', email: 'mia@example.com' },
159  { id: 154, name: 'Noah', email: 'noah@example.com' },
160  { id: 155, name: 'Olivia', email: 'olivia@example.com' },
161  { id: 156, name: 'Peter', email: 'peter@example.com' },

```

This takes it from this

Your data is stolen and encrypted.
Download TOR Browser to contact with us

```

Chat title:
- TOR Network: http://lynchactw6gludshk7197sfyrc9qz9v8t4bgeetvmyf6f3qz9vroad.onion.ly
- TOR Mirror #1: http://lynchactw6gludshk7197sfyrc9qz9v8t4bgeetvmyf6f3qz9vroad.onion.ly
- TOR Mirror #2: http://lynchactw6gludshk7197sfyrc9qz9v8t4bgeetvmyf6f3qz9vroad.onion.ly
- TOR Mirror #3: http://lynchactw6gludshk7197sfyrc9qz9v8t4bgeetvmyf6f3qz9vroad.onion.ly
- TOR Mirror #4: http://lynchactw6gludshk7197sfyrc9qz9v8t4bgeetvmyf6f3qz9vroad.onion.ly
- TOR Mirror #5: http://lynchactw6gludshk7197sfyrc9qz9v8t4bgeetvmyf6f3qz9vroad.onion.ly
- TOR Mirror #6: http://lynchactw6gludshk7197sfyrc9qz9v8t4bgeetvmyf6f3qz9vroad.onion.ly

```

[illegible]

To this:

Your data is stolen and encrypted.
Download TOR Browser to contact with us

[illegible][illegible]

Encryption of Files

After decrementing the runtime note, it likely calculates the amount of threads or cores available for before spawning them in

[illegible]

The ransomware uses the `winAPI CreateIoCompletionPort` to asynchronously ensure that the files are encrypted within multiple threads of a function I've named "ProcessEncryptionTasks."

From there "ProcessEncryptionTasks" deals with IO and block level encryption. It has many switch and case statements that do different things in states. for instance ReadFile

[illegible]

1000

[illegible]

```

iVar11 = iVar11 + 1;
*(byte *)iVar8 + (int)psStack_c0 = *(byte *)iVar8 + (int)psStack_c0 - *pKvar2;
iVar8 = iVar8 + 1;
} while (iVar8 = iVar8);
}

```


"TakeFileOwnershipAndSetPermissions" attempts to allow the ransomware to take ownership of files, as well as changes the current user to be the file owner.

[illegible]

From there it checks to see if the file is empty with "GetFileSizeEx" before continuing

```
else {
    GetFileAttributesW(wFile, &Stack_118);
    if (Stack_118.s.LowPart == 0 && (undefined *1)Stack_118.s.HighPart == (undefined *1)&&) {
        CloseHandle(wFile);
        exceptionHandler(local_c * 0x21|Stack_118fffff);
        return;
    }
}
```

Lyrix then creates buffers for dealing with AES keys before decoding the attackers hardcoded base64 public key

[illegible]

It logs almost everything it does, it makes reversing a bit easier:

```
00425700 1b: 2d 5d      x_i[-1].error_while_importing_key: %_00425730  x86[1]:
20 45 72      do
72 bf 72 ...    ["-"] Error while importing key: %s

00425752 00: 77          77          00h
00425753 00: 77          77          00h

00425754 1b: 2d 5d      x_i[-1].error_while_generating_file: %_00425754  x86[1]:
20 45 72      do
72 bf 72 ...    ["-"] Error while generating file key: %s
```

From there it calls "derive_session_key," which acquires cryptographic context, before generating 32 random bytes for the AES session key.

[illegible]

"derive_session_key" then derives a shared secret using Curve25519, and in the context of being called by *"SetupFileEncryption"* it uses the attackers public key to compute the shared secret.

[illegible]

It then hashes the derived keys with the hashing algo SHA-256

Back in "SetupFileEncryption" it uses "aes_key_expansion" to expand the AES session key into round keys for encryption

It then appends "." + "LYNX" to the original filename to mark it as encrypted.

[illegible]

From there it then ensures that the file's time are left unaffected

```
GetFileTime(pwStack_1d0, (LARGE_INTEGER)&g_pIoReadBuffer[0x12].InternalHigh,
(LARGE_INTEGER)((int)&g_pIoReadBuffer[0x12].u + 4),
(LARGE_INTEGER)&g_pIoReadBuffer + 0x10);
```

```
private = CreateIoCompletionPort(INSTACK_100, g_hIoCompletionPort, 0ULONG_PTR, INSTACK_100);  
if ((!(SetIoStack_104 < 0)) || (((SetIoStack_104 < 1) && !Stack_100 < 0x7F))) {  
    g_pReadBuffer[2].u.s.OffsetHigh = 2;  
    PostQueuedCompletionStatus(pHandle, 0, 0, g_pReadBuffer);  
}
```

[illegible]

Post Encryption

1. *How many times have you been to the beach in the last year?*

```
if (Local_24_43 == '\0') {
    if (g_3overbookLogging != '\0') {
        DisplayErrorMessage(0x425eb01);
    }
    changeBackgroundImage();
}
```

It takes the decoded ransomnote, saves it to temp as "background-image.jpg" and creates a desktop background with the text against a black background

[illegible]

