

DLL Stealer

Scenario

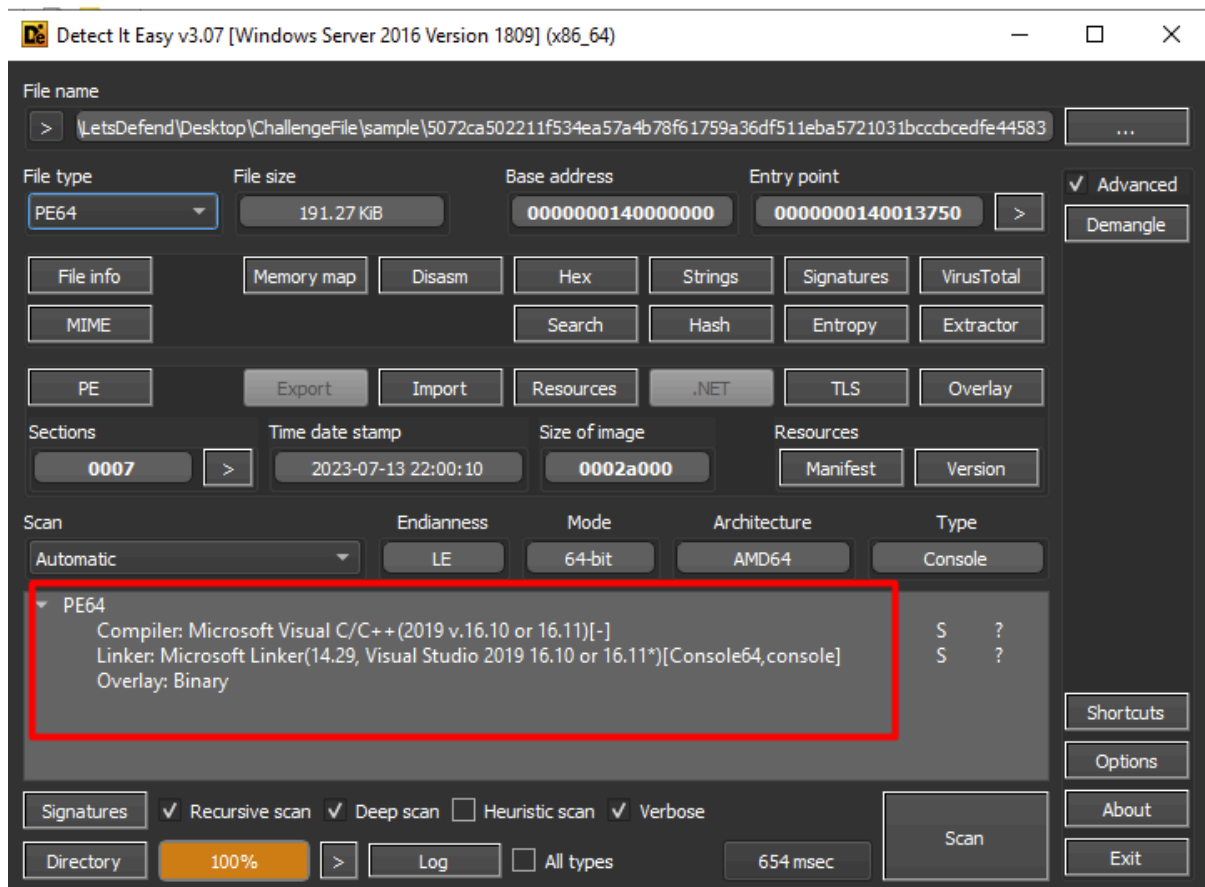
You work as a cybersecurity analyst for a major corporation. Recently, your company's security team detected some suspicious activity on the network. It appears that a new DLL Stealer malware has infiltrated your system, and it's causing concern due to its ability to exfiltrate critical DLL files from your system.

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This walkthrough analyzes a **DLL Stealer** malware sample using **JetBrains dotPeek**, a .NET decompiler. The goal is to understand the malware's capabilities, identify the stolen data, and determine how it exfiltrates information. The challenge involves answering several questions based on the analysis of the malware.

i have file without any **extensions** so i will use DIE to get more info about the file which i have:

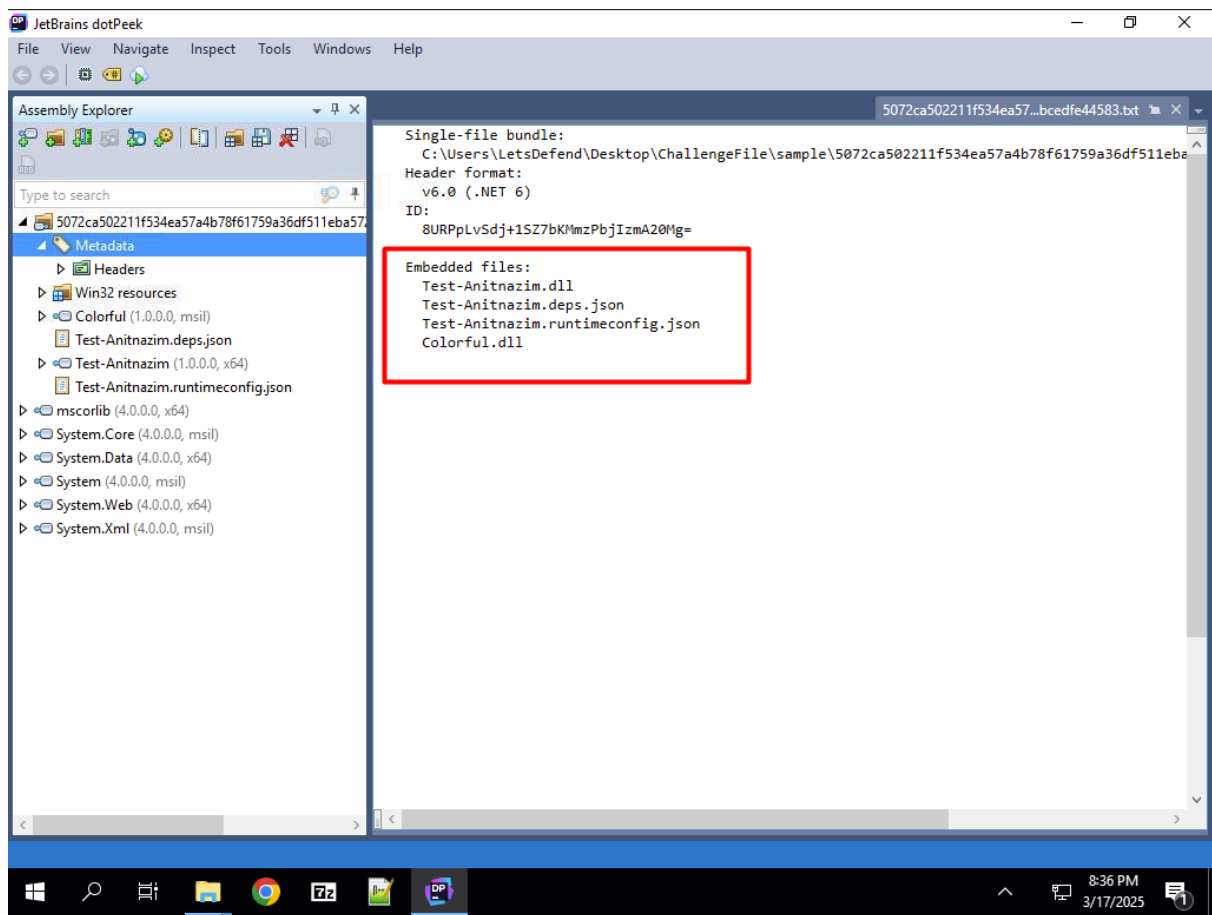


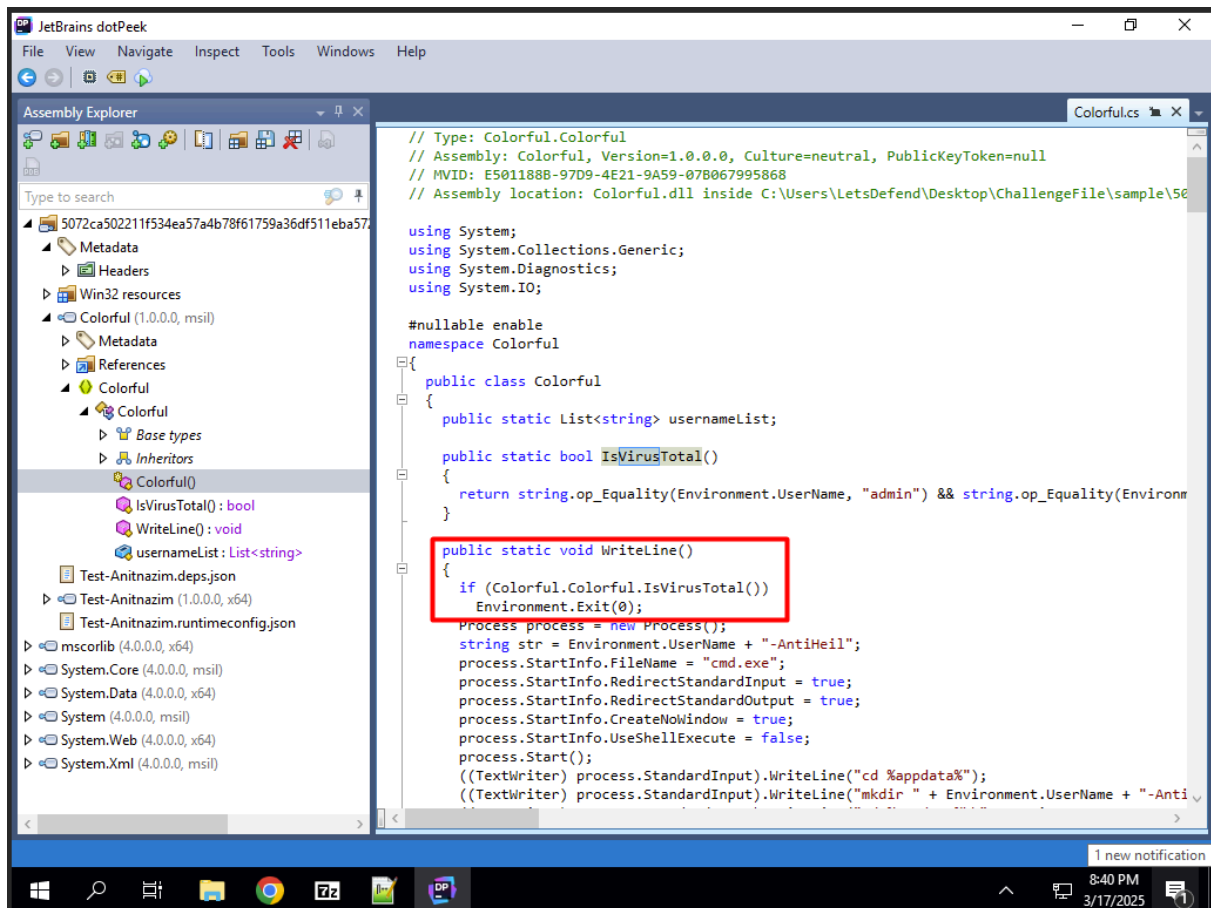
So we will use JetBrains dotPeek ??

decompiling

The main idea behind dotPeek is **to make high-quality decompiling available to everyone in the .NET community**, free of charge. dotPeek decompiles any .NET assemblies and presents them as C# or IL code.

Exploring the file in dotPeek:





Key Functionality:

1. Anti-Analysis Mechanism:

- The malware checks for specific usernames, machine names, and command-line arguments to determine if it is being analyzed in a sandbox or by **VirusTotal**.
- If it detects analysis, it terminates to avoid detection.

2. Data Collection:

- The malware collects data from various sources, including:
 - Browsers:** Chrome, Opera, Opera GX, Microsoft Edge.
 - Messengers:** WhatsApp, Telegram, Skype, Discord.
 - Gaming Platforms:** Riot Games, Epic Games, Minecraft, Steam, GrowTopia.
 - Cryptocurrency Wallets:** Armory, ByteCoin, Liberty, Ethereum, Electrum, Atomic, Guarda, Coinomi, Exodus.

- **System Information:** Product keys, IP addresses, task lists, antivirus information.

3. Data Exfiltration:

The stolen data is compressed into a ZIP file and exfiltrated using a **Discord webhook**.

The webhook URL used is:

```
https://discord.com/api/webhooks/1165744386949271723/kFr6Cc0DS  
TK1jB8aV3820mBxji06gF2KorUuO2Rd2ckLkhUEHxdi6kv6UHwgJ_W82f  
gZ
```

4. Cleanup:

- After exfiltration, the malware deletes the collected data and the ZIP file to cover its tracks.

Questions and Answers:

Question 1: What is the DLL that has the stealer code?

```
Colorful.dll
```

Question 2: What is the anti-analysis method used by the malware?

```
IsVirusTotal
```

Question 3: What is the full command used to gather information from the system into the "productkey.txt" file?

```
wmic path softwareLicensingService get OA3xOriginalProductKey >> prod  
uctkey.txt
```

Question 4: What is the full command used to gather information through the "ips.txt" file?

```
ipconfig /all >> ips.txt
```

Question 5: What is the webhook used by the malware?

https://discord.com/api/webhooks/1165744386949271723/kFr6CcdDSTKj9B8vJ3820mb9j06gF2KorUuO2Rd2cLLkIUEHxdl6kvGUHwgJ_W