Invent Your Shit

Tryhackme – Introduction to Antivirus

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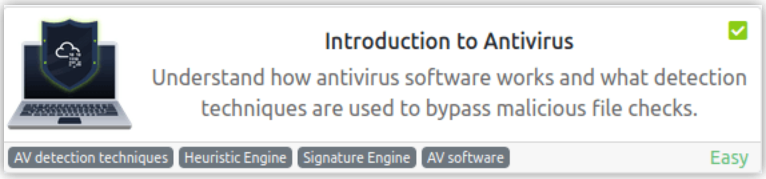
In this walk through, we will be going through the Introduction to Antivirus room from Tryhackme. In this room, we will understand how antivirus software works and what detection techniques are used to bypass malicious file checks. So, let's get started without any delay.


Introduction to Antivirus

Understand how antivirus software works and what detection techniques are used to bypass malicious file checks.

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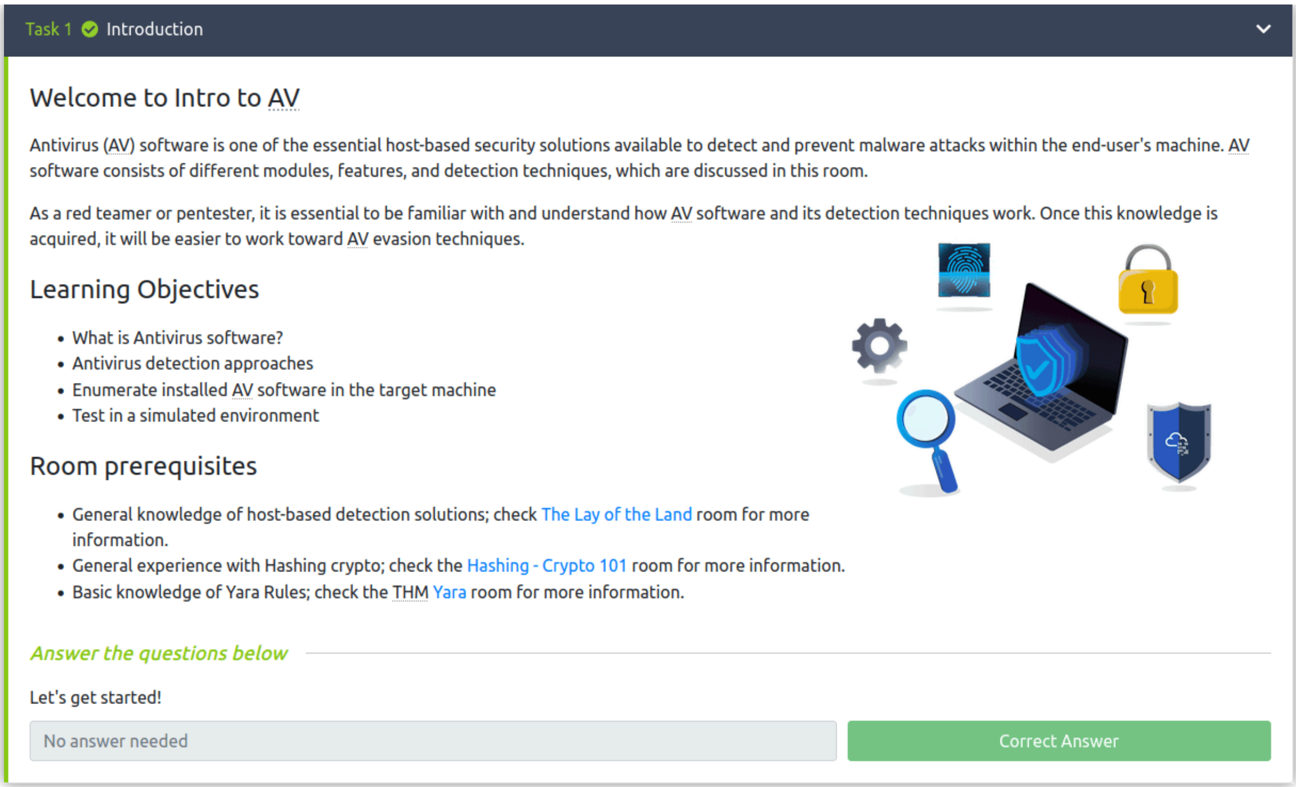
Task 1 – Introduction



Welcome to Intro to AV

Antivirus (AV) software is one of the essential host-based security solutions available to detect and prevent malware attacks within the end-user's machine. AV software consists of different modules, features, and detection techniques, which are discussed in this room.

As a red teamer or pentester, it is essential to be familiar with and understand how AV software and its detection techniques work. Once this knowledge is acquired, it will be easier to work toward AV evasion techniques.

Learning Objectives

- What is Antivirus software?
- Antivirus detection approaches
- Enumerate installed AV software in the target machine
- Test in a simulated environment

Room prerequisites

- General knowledge of host-based detection solutions; check The Lay of the Land room for more information.
- General experience with Hashing crypto; check the Hashing - Crypto 101 room for more information.
- Basic knowledge of Yara Rules; check the THM Yara room for more information.

Answer the questions below

Let's get started!

No answer needed

Task 2 – Antivirus Software

Question 1 – What does AV mean?

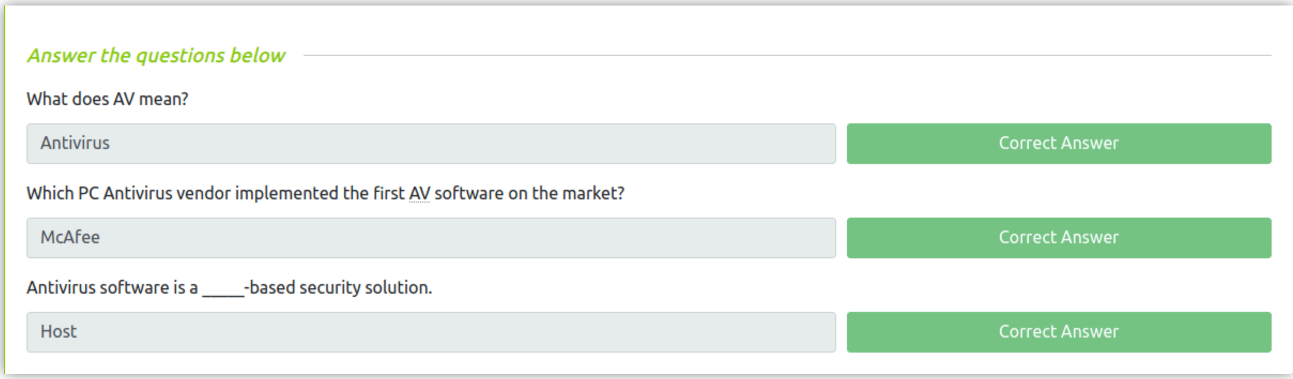
```
Antivirus
```

Question 2 – Which PC Antivirus vendor implemented the first AV software on the market?

```
McAfee
```

Question 3 – Antivirus software is a _-based security solution.

```
Host
```



Answer the questions below

What does AV mean?

Antivirus

Which PC Antivirus vendor implemented the first AV software on the market?

McAfee

Antivirus software is a _____-based security solution.

Host

Task 3 – Antivirus Features

Question 1 – Which AV feature analyzes malware in a safe and isolated environment?

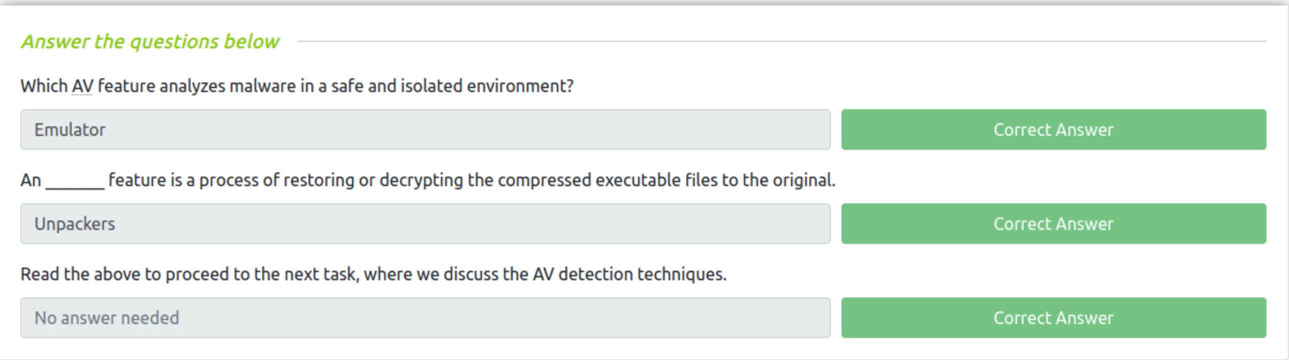
```
Emulator
```

Question 2 – An _ feature is a process of restoring or decrypting the compressed executable files to the original.

```
Unpackers
```

Question 3 – Read the above to proceed to the next task, where we discuss the AV detection techniques.

```
Done
```



Answer the questions below

Which AV feature analyzes malware in a safe and isolated environment?

Emulator

An _______ feature is a process of restoring or decrypting the compressed executable files to the original.

Unpackers

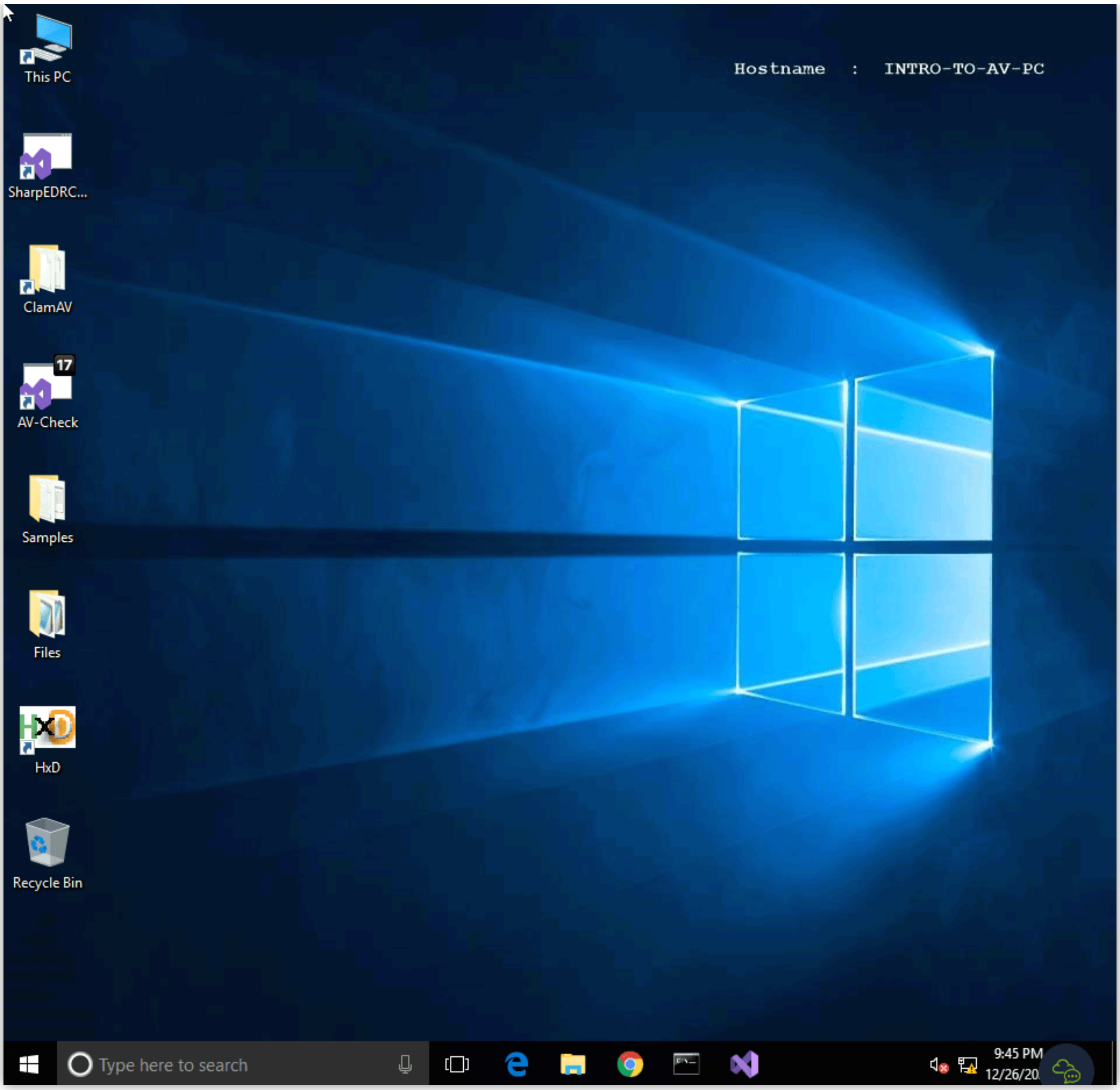
Read the above to proceed to the next task, where we discuss the AV detection techniques.

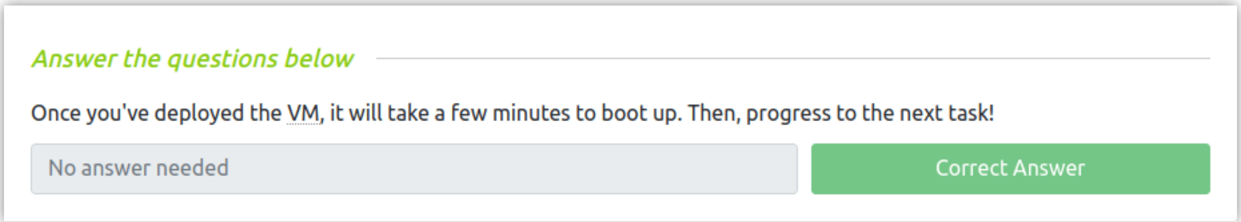
No answer needed

Task 4 – Deploy the VM

Question 1 – Once you've deployed the VM, it will take a few minutes to boot up. Then, progress to the next task!

```
Done
```





Answer the questions below

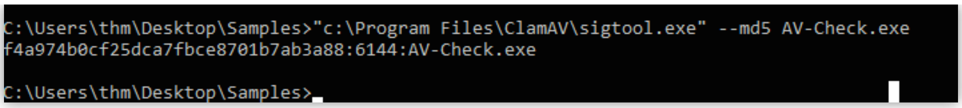
Once you've deployed the VM, it will take a few minutes to boot up. Then, progress to the next task!

No answer needed

Task 5 – AV Static Detection

Question 1 – What is the sigtool tool output to generate an MD5 of the AV-Check.exe binary?

```
"c:\Program Files\ClamAV\sigtool.exe" --md5 AV-Check.exe
```

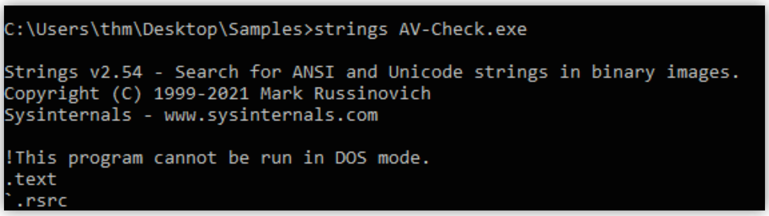


```
C:\Users\thm\Desktop\Samples>"c:\Program Files\ClamAV\sigtool.exe" --md5 AV-Check.exe
f4a974b0cf25dca7fbce8701b7ab3a88:6144:AV-Check.exe

C:\Users\thm\Desktop\Samples>_
```

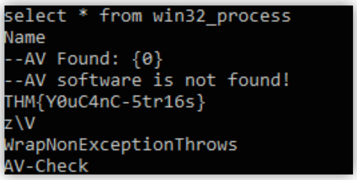
`f4a974b0cf25dca7fbce8701b7ab3a88:6144:AV-Check.exe`

Question 2 – Use the strings tool to list all human-readable strings of the AV-Check binary. What is the flag?

```
strings AV-Check.exe
```

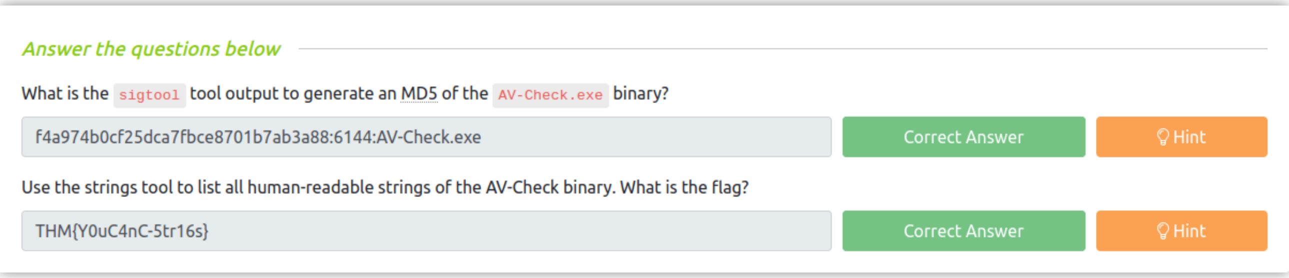


```
C:\Users\thm\Desktop\Samples>strings AV-Check.exe

Strings v2.54 - Search for ANSI and Unicode strings in binary images.
Copyright (C) 1999-2021 Mark Russinovich
Sysinternals - www.sysinternals.com

!This program cannot be run in DOS mode.
.text
`.rsrc
```



```
select * from win32_process
Name
--AV Found: {0}
--AV software is not found!
THM{Y0uC4nC-5tr16s}
z\V
WrapNonExceptionThrows
AV-Check
```

`THM{Y0uC4nC-5tr16s}`



Answer the questions below

What is the `sigtool` tool output to generate an MD5 of the `AV-Check.exe` binary?

f4a974b0cf25dca7fbce8701b7ab3a88:6144:AV-Check.exe

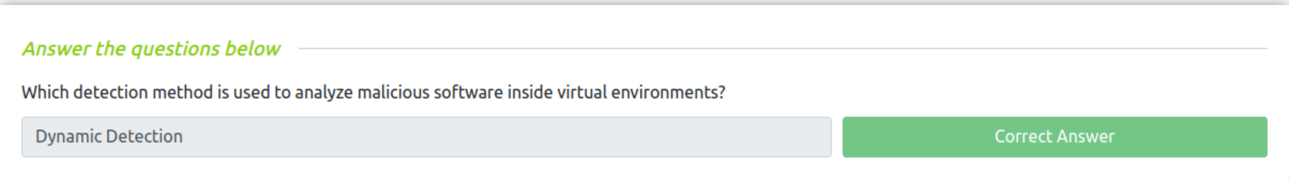
Use the strings tool to list all human-readable strings of the AV-Check binary. What is the flag?

THM{Y0uC4nC-5tr16s}

Task 6 – Other Detection Techniques

Question 1 – Which detection method is used to analyze malicious software inside virtual environments?

`Dynamic Detection`



Answer the questions below

Which detection method is used to analyze malicious software inside virtual environments?

Dynamic Detection

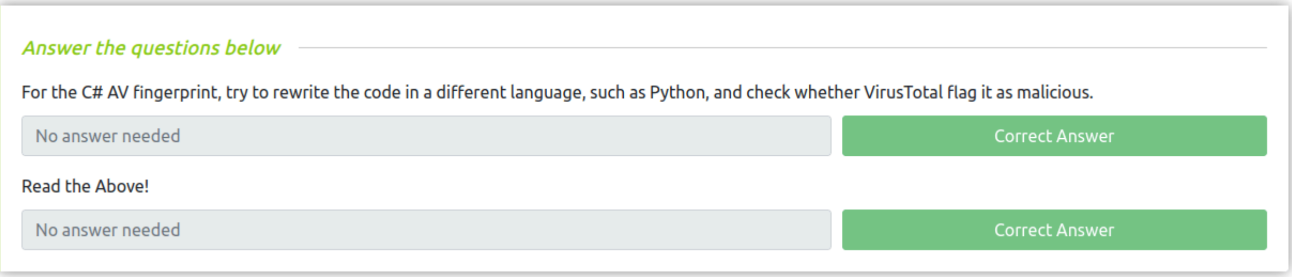
Task 7 – AV Testing and Fingerprinting

Question 1 – For the C# AV fingerprint, try to rewrite the code in a different language, such as Python, and check whether VirusTotal flag it as malicious.

```
Done
```

Question 2 – Read the Above!

```
Done
```



Answer the questions below

For the C# AV fingerprint, try to rewrite the code in a different language, such as Python, and check whether VirusTotal flag it as malicious.

No answer needed

Correct Answer

Read the Above!

No answer needed

Correct Answer

Task 8 – Conclusion

Task 8 - Conclusion

Also Read: DVWA – Weak Session IDs (Low/Med/High)

So that was **"Introduction to Antivirus"** for you. We looked into the basics of Anti-virus software and how it works. Post that, we took a deep dive into static malware detection and At last, completed the room by looking into Other detection techniques, malware testing and fingerprinting. On that note, i would take your leave and will meet you in next one. Till then, **"Happy hacking"**.

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