

# Activity # 7 - Network Security Solutions

Started: Nov 25 at 6pm

✓ You started this quiz near when it was due, so you won't have the full amount of time to take the quiz.



## Quiz Instructions

You will learn about Network Security Tools.

This will lock questions after answering.



Question 19 1 pts

### Antivirus Software (AV)

## What is Antivirus Software (AV)?

Antivirus Software (AV) is security software that detects malware on devices and blocks and removes malware from the system before it harms the device.

## Types of Antivirus Software

Antivirus software is generally responsible for scanning the system for security. Antivirus software can be divided into subtypes according to scanning methods:

### Signature-Based Scanning

In the signature-based scanning method, the antivirus software scans the system to detect malware with a digital signature, and if there is a matching signature, it marks the file it scans and matches as malicious and clears the file from the system. In this method, digital signatures are kept on the system in the database and must be constantly updated with up-to-date malware signatures. It is a method that

has been used from the past to the present and is effective in detecting known malware. Although it does not catch every single malware, it can detect most of them.



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## Heuristic Scanning

The heuristic scanning method is a very different malware detection method than the previous signature-based scanning method. Instead of detecting by signature, it monitors the accesses and behaviors of the examined file. In this way, the probability of detecting malicious activities is much higher. For example, this behavior is flagged as suspicious if the executable file that the antivirus tracks is trying to read or modify a system file it shouldn't be able to access. Even if its signature is not in the antivirus database as malicious, it may be executable malware. This situation is logged by the antivirus.

## Functions of Antivirus Software

- To detect malware in the system by constantly scanning the system
- Protecting the system against external threats
- Cleaning detected malware from the system

## Logic Behind How Antivirus Software Works

The working logic of antivirus software is shown as follows:



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(Source:

<https://www.youtube.com/watch?v=jW626WMWNAE> → (<https://www.youtube.com/watch?v=jW626WMWNAE>)



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## The Importance of Antivirus Software for Security

Antivirus software, which has a long history, is of great importance in terms of security. Periodic security scans on systems are one of the most basic security procedures to be performed. Antivirus software is one of the most effective ways to detect known malware and quickly

clean it from the system. If an institution does not have antivirus software, it means that security is weak at some point. Using antivirus software with an up-to-date malware signatures list.



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Some popular Antivirus products used in the cybersecurity industry are as follows.

- McAfee
- Symantec
- Bitdefender
- Eset
- Norton

## What log sources does Antivirus Software have?

Antivirus software keeps logs of the findings it obtains in its periodic scans or a special scan of a specific file. These logs contain information about the detected malware. For example, information such as the size of the file, the name of the file, its signature, and the type of malware can be included in the logs. Thanks to these logs, information on retrospective scans and malware detections can be obtained.

Q # 1

How many Anti Virus vendor was mentioned?

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