**FEDERAL POLYTECHNIC, MUBI**

**The Department of Computer Science**

**ASSIGMENT**

**COURSE CODE: COM426**

**COURSE TITLE: COMPUTER SECURITY**

**ST/CS/HND/21/068**

**Questions;**

1. **List 10 top antivirus software and their cost. State their strength and weakness all in tabular form**

**Course Lecturer: Mallam Ahmed M. Aliyu**

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| **S/N** | **Software** | **Cost** | **Strength** | **Weakness** |
|  | Total AV | US $19 | 1. **TotalAV’s Duplicate File Finder can find and delete duplicate files** 2. **Finally, the Junk Cleaner cleans up junk files left behind after you uninstall or update an application.** | 1. Only protects a maximum of six devices 2. The browser extension isn’t particularly user friendly |
|  | ShurfShark | US $3.49/mo | 1. 3,200+ high-speed servers; 2. t’s available on all major platforms (Android, iOS, macOS, Windows, Linux); | 1. A bit pricey if you don’t choose a longer subscription plan; 2. Some features are missing on Mac and iOS devices; |
|  | Panda | US $35.49 | 1. **Excellent anti-malware:**Panda has outperformed all other brands in the real-world protection tests by AV-Comparatives since the start of 2020. 2. **Outstanding password manager:**   Panda’s password manager makes generating, storing, and auto-filling passwords a breeze. | 1. **Limited Features on macOS:**Panda lacks a firewall, and its design is a bit bated. We prefer [Norton](https://softwarelab.org/norton-antivirus-review/) on macOS, which also includes an unlimited VPN. 2. **Password manager only supports Chrome and Firefox:** It would be great if other browsers, like Edge and Safari, were also supported. |
|  | Norton | US $19.99 | 1. It protects us live against all kinds of malware. 2. It has an intelligent Firewall for Windows and Mac. | 1. As a counterpart, the system lacks protection against computer worms in P2P networks (peer to peer). 2. Customer service is not immediate. |
|  | McAfee | US $54.99 | 1. **Free VPN:** Unlike Bitdefender and Kaspersky, McAfee includes its unlimited VPN for free with LiveSafe and Total Protection. 2. **Functional Parental Controls:** McAfee’s parental controls are not as good as those by Norton or Kaspersky, but they cover the basics. | 1. **A poor VPN:** It lacks a kill switch and tracks your IP address and browsing history. We don’t recommend it. [Norton 360 Deluxe](https://softwarelab.org/norton-antivirus-review/) includes a better VPN. 2. **Limited Features for macOS:** Without a VPN and password manager, McAfee is too basic on Mac. We recommend [Norton](https://softwarelab.org/norton-antivirus-review/) for macOS. |
|  | Intego | US $19.99 | 1. Ultra-fast and advanced VPN: Intego’s VPN is based on Private Internet Access, which is one of the very best VPN out there. 2. Personal backup: Intego’s personal backup allows you to create your own backups, so that you don’t need to pay for iCloud Drive. | 1. VPN costs extra: The VPN costs $ 19,99 per year and only supports Mac and Windows. Norton’s VPN is free and works on all operating systems. 2. No password manager: Intego does not include a password manager, as Norton and Kaspersky do. |
|  | ESET | US $59.99 | 1. [Real-time file scanning](https://www.trustradius.com/reviews/eset-protect-2023-06-08-08-28-35) 2. Easy manageable firewall | 1. [ESET Decrypt tool](https://www.trustradius.com/reviews/eset-protect-2023-06-08-08-28-35) 2. Message pop for certain warnings could stop at variable setting instead of flooding you notifications |
|  | Bitdefender | US $32.99 | 1. **Fast and Secure VPN**– Most [Anti-Virus](https://en.wikipedia.org/wiki/Antivirus_software) software lack when it comes to providing a fast VPN.  if you want to get access to different country sites and their content then you can choose Bitdefender. Plus you are all secured with Bitdefender no one could track you and block your access 2. **Best Firewall security**– The Firewall of Bitdefender is top-notch in performance. Not just only this, it also blocks Unwanted traffic too it also stops malicious software to harm your computer. | 1. **High price rate-**This is the biggest disadvantage of Bitdefender we would say.  There is a big difference in features between low-rate products of BitDefender and highly rated products 2. **Weak offline security**– Bitdefender lack in working when your PC is not connected to the internet. It has a low-security measure while you are offline. It stops working and does not notify you of any security threats |
|  | Avira | US $47.99/y | 1. Avira uses lower system resources than the competitors and allows easy custom protection. 2. Good detection rate. I like that you can manually update Avira, in cases that there are problems with the automatic update. | 1. The trial has lots of interrupting advertisements. 2. It takes more resources compared to other antivirus software. Also, it has a high false positive rate than average. |
|  | Avast | US $39.99 | 1. Real-time virus scanner. 2. Automatic blocking of suspicious sites. | 1. The need to register. 2. High demands on computer resources. |