

Transforming Education Transforming India

Assignment Submitted By

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Assignment Submitted to

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GitHub Link: https://github.com/Sabbir-Hasan-670/Windows-Missing-Security-With-OpenSource-Software

Question Number Allocated: 41

Question: Using desired Open-Source Software list all the security updates missing in your Window OS. Also, list all free system information about the hardware and software installed.

1. Introduction:

About Software I use:

Belarc Advisor is a free and comprehensive system information tool that provides detailed information about the hardware and software installed on a computer. It is available for personal and commercial use, and it is compatible with all versions of Windows, including Windows 11.

Belarc Advisor generates a comprehensive system profile that includes information about the operating system, hardware components, installed software applications, security updates, and system vulnerabilities. The tool is easy to use and is useful for identifying potential security vulnerabilities, missing security updates, and hardware or software issues that could impact the performance and security of a computer.

The features of Belarc Advisor include:

- 1. Detailed hardware and software information Belarc Advisor provides a detailed inventory of hardware components, such as CPU, memory, motherboard, hard drives, and peripherals, as well as software applications and versions.
- 2. System security status Belarc Advisor checks for missing security updates, potential security vulnerabilities, and other security-related issues and provides recommendations to improve system security.
- 3. Licensing information Belarc Advisor also provides licensing information for installed software applications, making it easy to manage software licenses.
- 4. Network information Belarc Advisor can also scan and provide information about network devices, such as routers and switches, as well as IP addresses and network configurations.

Overall, Belarc Advisor is a powerful and useful tool for conducting a comprehensive system audit, optimizing system performance, and maintaining system security. It is easy to use and is an excellent choice for both home and business users.

1.1 Object of the Project:

The main objective of the project with Belarc Advisor is to conduct a system audit to identify potential security vulnerabilities, missing security updates, and hardware or software issues that could impact the performance and security of the system. The project aims to generate a comprehensive system profile using Belarc Advisor to provide detailed information about the hardware and software installed on the system and to use this information to optimize system performance and maintain system security.

1.2 Project Description:

The project involves conducting a comprehensive system audit using Belarc Advisor on an individual's own computer. The primary goal of the project is to identify any potential security vulnerabilities, missing security updates, and hardware or software issues that could impact the performance and security of the computer.

1.3 The scope of the project:

The scope of the project for your own device would be to conduct a comprehensive system audit using Belarc Advisor to identify any potential security vulnerabilities, missing security updates, and hardware or software issues that could impact the device's performance. The project's objective is to improve the overall security and performance of your device.

The project's objectives include the following:

- 1. Install Belarc Advisor on the individual's own computer.
- 2. Conduct a system audit using Belarc Advisor to generate a comprehensive system profile.
- 3. Review the system profile to identify any potential security vulnerabilities, missing security updates, or hardware or software issues.
- 4. Address any identified vulnerabilities, missing security updates, or hardware or software issues.
- 5. Conduct periodic system audits to maintain optimal system performance and security.

The project aims to improve the overall security and performance of the individual's own computer, prevent potential data breaches and system downtime, and ensure that the system operates at peak performance. By conducting a system audit using Belarc Advisor, the project aims to provide a comprehensive overview of the computer's status and identify any potential issues that could impact system performance and security, allowing for remediation before any issues become critical.

2. System Description

2.1 Target system description:

The target system for this project is a laptop computer running Windows 11 Pro. The laptop has a 64-bit processor, 16GB of RAM, a 1TB hard disk, and a 256GB solid-state drive (SSD). The laptop also has a dedicated NVIDIA GeForce GTX 1660Ti graphics processing unit (GPU) with 6GB of video RAM.

The laptop is used for personal or professional purposes and contains various applications and data. The operating system is regularly updated through Microsoft's update mechanism. The laptop is connected to the internet through a Wi-Fi Connection.

3. Analysis Report:

3.1 System snapshots and full analysis report:

For list all free system information about the hardware and software installed I used Belarc Advisor.



Solutions

Products

Advisor Download

Belarc Advisor Download

The Belarc Advisor builds a detailed profile of your installed software and hardware status, security benchmarks, and displays the results in your Web browser. All of yo and is not sent to any web server.

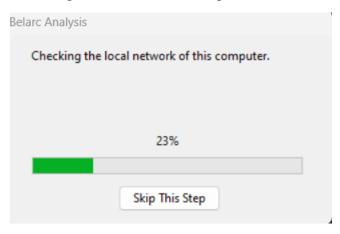
Download Belarc Advisor

By downloading the Belarc Advisor, you are agreeing to Belarc's Privacy Policy.

Belarc has been offering the Advisor free of charge to home users for over two deca

First Download and install the Belarc Advisor it give us the information about our software installed in our device and also missing update its show everything.

Gathering Details from the Computer When I Run the software:



Belarc Advisor is a free system information tool that provides a detailed profile of your installed software, hardware, network inventory, missing Microsoft hotfixes, anti-virus status, security benchmarks, and displays the results in your web browser. Here is a report of Belarc Advisor:





The license associated with the Belarc Advisor product allows for **free personal home use only**. Use on computers in a corporate, educational, military or government installation is prohibited. See the license agreement for details. The information on this page was created locally on your computer by the Belarc Advisor. Your computer profile was not sent to a web server. Click here for more info.

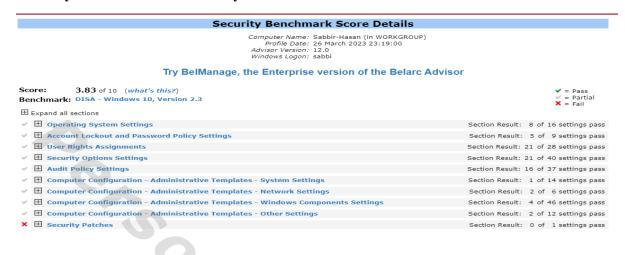








Security Benchmark Score of my device:



My system details which are found by Belarc Advisor:

Understanding system details is crucial for maintaining the optimal performance and security of a computer. Knowing the system specifications and hardware components can help determine if a laptop meets the requirements for specific software applications or upgrades. Understanding the software applications installed on a laptop can also help troubleshoot software-related issues and identify potential security vulnerabilities.

Operating System Windows 11 Professional (x64) Version 22H2 (build 22621.1413) Install Language: English (United States)

System Locale: English (United States) Installed: 17-01-2023 18:03:14 Servicing Branch: Current Branch (CB) Boot Mode: UEFI with successful Secure Boot

2.40 gigahertz Intel Core i5-9300H 256 kilobyte primary memory cache 1 megabyte secondary memory cache 8 megabyte tertiary memory cache 64-bit ready Multi-core (4 total) Hyper-threaded (8 total)

Local Storage

1.26 Terabytes Usable Local Storage Capacity 491.60 Gigabytes Local Storage Free Space

Internal Drives	Size	Type	Serial Number
NVMe WDC	256.05 GB	NVMe	
PC SN720 SDA ST1000LM049- 2GH172	1.00 TB	HDD	WGS55XLE

^{*} Status reported only for SMART enabled drives

System Model

Acer Predator PH315-52 V1.12 System Serial Number: NHQ53SI0139240B4572600 Enclosure Type: Notebook

Main Circuit Board b

Board: CFL Covini_CFS V1.12 Serial Number: NBQ53110039240006A2600 Bus Clock: 100 megahertz UEFI: Insyde Corp. V1.12 07/28/2020

Memory c,d

15.85 Gigabytes Usable Installed Memory

Slot 'ChannelA-DIMMO' has 16 GB (serial number Slot 'ChannelB-DIMM0' is Empty

32 Gigabytes Maximum System Memory Capacity

Local Storage Volumes

c: (NTFS on drive 1) *	255.30	126.72
,	GB	GB free
d: (NTFS on drive 0)	536.75	143.61
	GB	GB free
e: (NTFS on drive 0)	463.33	221.27
	GB	GB free

Operating System is installed on c:

Network Storage Volumes

None detected

OSCIS				
	sabbi	last logon 20-03-2023 20:25:47	(admin)	
100	cal system accounts			
X	Administrator	never	(admin)	
X	DefaultAccount	never		
Х	Guest	never		
X	WDAGIItilityAccount	never		

X Marks a disabled account; L Marks a locked account

Printers

Microsoft Print To PDF	on PORTPROMPT:
Microsoft Shared Fax Driver	on SHRFAX:
Microsoft XPS Document Writer v4	on PORTPROMPT:
Send to Microsoft OneNote 16 Driver	on nul:

Missing Security update on my device:

This report provides an overview of the missing updates identified by Belarc Advisor during system audit of my laptop. The primary objective of the audit was to identify potential security vulnerabilities and missing updates that could impact system performance and security.

I have only one missing update found on my device. And here it is:

Hotfixes from Windows Update (agent version 923.203.111.0) install automatically. Last install: 25-03-2023 18:09:23, check: 26-03-2023 15:28:28. These security updates apply to this computer but are not currently installed (using Advisor definitions version 2023.3.15.1), according to the 03/14/2023 Microsoft Security Bulletin Summary and bulletins from other vendors. Note: Security benchmarks require that Critical and Important severity security updates must be installed.

Missing Security Updates – for Adobe, Apple, Java, Microsoft and more

Hotfixes from Windows Update (agent version 923.203.111.0) install automatically Last install: 25-03-2023 18:09:23, check: 26-03-2023 15:28:28.

These security updates apply to this computer but are not currently installed (using Advisor definitions version 2023.3.15.1), according to the 03/14/2023 Microsoft Security Bulletin Summary and bulletins from other vendors, Note: Security benchmarks require that Critical and Important severity security updates must be installed.

Hotfix Id Q5023286 Important Description (click to see security bulletin) Microsoft security update (KB5023286)

After Update:

Missing Security Updates

Hotfixes from Windows Update (agent version 923.308.111.0) install automatically. Last install: 03-04-2023 22:33:27, check: 03-04-2023 13:05:11.

These security updates apply to this computer but are not currently installed (using Advisor definitions version 2023.3.15.1), according to the 03/14/2023 Microsoft Security Bulletin Summary and bulletins from other vendors. Note: Security benchmarks require that *Critical* and *Important* severity security updates **must be installed**.

Hotfix Id Severity Description
Q5023286 Important Microsoft security update (KB5023286)

Impact of Missing Updates:

Missing updates can have a significant impact on the performance and security of a computer. Security updates are crucial for protecting a computer against potential cyber threats, such as malware and viruses. Missing updates can leave the system vulnerable to cyber-attacks and data breaches, compromising personal and sensitive information.

Network details on my device:

This report provides an overview of the network details identified by Belarc Advisor during system audit of my laptop. The audit was to identify network devices, IP addresses, and network configurations.

Here are my all-network details which is found by this software:

**		Network Map	
I P 192.168.18.1	Device Type Router	Device Details Huawei	Device Roles DHCP Server, Gateway, Domain Name Server, Web Server
192.168.18.3	*	Physical Address FA:BB:5A:93:F0:99	
192.168.18.7	-0	Xiaomi	
192.168.18.8		Apple	
192.168.18.9	Windows 10 Workstation	Sabbir-hasan (in WORKGROUP), Intel	

Impact of Network Details:

Understanding network details is crucial for maintaining the optimal performance and security of a computer. Knowing the network devices and their configurations can help troubleshoot network issues and optimize network performance. Understanding the network's IP addresses and configurations can also help identify potential security vulnerabilities and prevent cyber threats.

List of Software installed and their version:

```
Belarc - Advisor
McAfee - AP
Microsoft - 365 Apps for enterprise
Microsoft - Internet Explorer
                                                                                                                                                                                                                   VSC22.12
00202-53565-98604-AA578 (Key: none activated)
00330-80000-00000-AA149 (Key: VK7JG-NPHTM-C97JM-9MPGT-
                                                                                                                                                                                                                  3V66T)
89383-100-0001260-04309
00330-80000-00000-AA938 (Key: VK7JG-NPHTM-C97JM-9MPGT-
Microsoft - PowerShell
Microsoft - Windows 10 Pro (prior license)
Microsoft - Windows 11 Professional (x64)
                                                                                                                                                                                                                                                 80000-00000-AA149 (Key: VK7JG-NPHTM-C97JM-9MPGT-
VMware - Workstation
                                                                                                                   Find unused software and reduce licensing costs.
                                                                                         Try BelManage, the Enterprise version of the Belarc Advisor
       | 1 | Acer - PredatorSense | version | 3.0.3136.0 | (64-bit) | (64-bit) | (64-bit) | (14-bit) | (15-bit) | (15
  17.0.6.0 (64-bit)
i FineShare - FineCam Lanuch App version 1.5.0.0
            Jati TimeShare - FineVoiceLaunch version 1.0.0.0

i GitHub - Desktop version 3.2.0
ii GitHub - Update version 1.1.1.0
ii Google - Chrome version 11.1.0.5563.111 (64-bit)
ii Google - Chrome version 11.1.0.5563.111 (64-bit)
ii Google - Update version 1.3.36.151
ii Intel - Common User Interface version 6.15.101.2111
ii Intel - Extreme Tuning Utility version 6.4.1.25
ii Intel - HD Graphics Drivers for Windows version
ii Intel - IGCC Service version 1.0.3962.0 (64-bit)
ii Intel - IGCC Service version 1.0.3962.0 (64-bit)
ii Intel - Vindows Calculator version 1.0.4219.0.0
  | I Intel - Common User Interface version 6.4.1.25
| I Intel - Extreme Tuning Utility version 6.4.1.25
| I Intel - HD Graphics Drivers for Windows version
31.0.101.2111 (64-bit)
| I Intel - IGCC Service version 1.0.3962.0 (64-bit)
| INTEL - Intel Graphics Command Center version
1.100.4628.0 (64-bit)
```

Software Licenses

After Install Some Software:

1 Intel - IntelCpHeciSvc Executable version
9.2.01.0920 (64-bit)
1 ITW Creative Works - Restart Manager version
0.0.17.0 (64-bit)
1 ITW Creative Works - Somiibo version 1.2.21.0

I i Kakao - PotPlayer version 0, 0, 0, 0 (64-bit)
I i McAfee - Cloud Services Platform version 5.5.107.0

ry Belivianage, the Enterprise version of the Belarc Advisor

(64-bit) i Microsoft - Windows Clock version 11.2212.2.0 i microsott - windows Clock version 11.2212.2.0 (64-bit) ii Microsoft - Windows Installer - Unicode version 5.0.22621.1 (32/64-bit)

i Microsoft - Windows Maps version 11.2210.6.0

[64-bit]
i Microsoft - Windows Media Player version

11.2301.27.0 [64-bit)
i Microsoft - Windows Media Player version

```
Software Versions and Usage
  i AccessData Group - FTK Imager version 4.7.1.2
                                                                   i Microsoft - Snipping Tool version 11.2302.20.0
(64-bit)
                                                                  (64-bit)
  i Acer - PredatorSense version 3.0.3136.0 (64-bit)
i Acer - PredatorSense_V30 version 3.0.3136.0 (64-bit)
i Microsoft - Store version 22301.1401.15.0 (64-bit)
      Alexander Roshal - WinRAR version 6.21.0 (64-bit)
                                                                      i Microsoft - Store Experience Host version
     Belarc - Advisor version 12.0
                                                                 12301.1401.8.0 (64-bit)
```

Conclusion:

In conclusion, conducting a system audit using Belarc Advisor is an effective way to identify potential security vulnerabilities, missing security updates, and hardware or software issues that could impact system performance. By installing and using Belarc Advisor, you can generate a comprehensive system profile that provides detailed information about the hardware and software installed on your device and system security status.

The scope of the project for your own device includes the installation of Belarc Advisor, conducting a system audit, reviewing the system profile, addressing any identified vulnerabilities or issues, and conducting periodic system audits to maintain the device's security and performance.

Using Belarc Advisor as a tool for conducting a system audit is a proactive step towards improving the overall security and performance of your device, and it can help you to avoid potential issues that could lead to data breaches, system downtime, and other problems.

4 Reference/Bibliography

Belarc Advisor: https://www.belarc.com/products/belarc-advisor