LOVELY PROFESSIONAL UNIVERSITY

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Assignment Submitted to
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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.

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.

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.

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.

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.

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.

For list all free system information about the hardware and software installed I used Belarc Advisor. Download link: https://www.belarc.com/products/belarc-advisor

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

Our products are used for software license management, configuration monitorin

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.

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:

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.
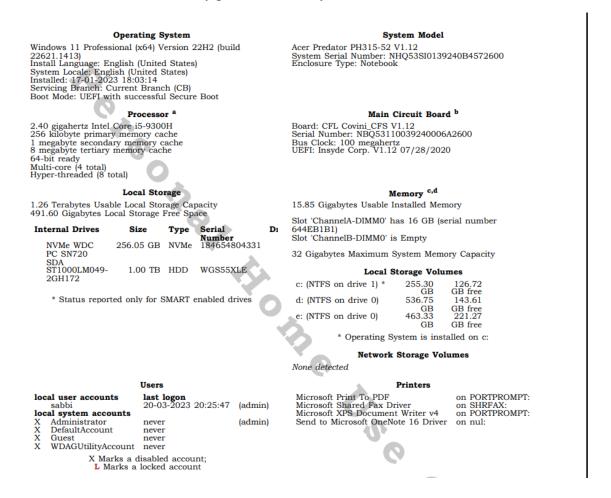
System Security Status	SECURITY BENCHMARK SCORE	VIRUS PROTECTION	SECURITY UPDATES
	3.83 of 10	Up-to-date	1 missing

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

System Model

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

Processor [a]

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)

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

Local Storage

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

Internal Drives	Size	Type	Serial Number	D
NVMe WDC PC SN720 SDA	256.05 GB	NVMe	184654804331	
ST1000LM049-2GH172	1.00 TB	HDD	WGS55XLE	

* Status reported only for SMART enabled drives

Memory [c,d]

15.85 Gigabytes Usable Installed Memory

Slot 'ChannelA-DIMM0' has 16 GB (serial number 644EB1B1)
Slot 'ChannelB-DIMM0' is Empty

32 Gigabytes Maximum System Memory Capacity

Local Storage Volumes

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

* Operating System is installed on c:

Network Storage Volumes

None detected

Users

local user accounts	last logon	
sabbi	20-03-2023 20:25:47	(admin)

local system accounts		
X Administrator	never	(admin)
X DefaultAccount	never	
X Guest	never	
X WDAGUtilityAccount	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 its 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	Severity	Description (click to see security bulletin)
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	
IP	Device Type	Device Details	Device Roles
192.168.18.1	Router	Huawei	DHCP Server, Gateway, Domain Name Server, Web Server
192.168.18.3		Physical Address FA:BB:5A:93:F0:99	
192.168.18.7		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:

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.