

TASK 1

Task: Write an essay discussing the rationale behind organizations using different versions of operating systems. Examine the advantages and challenges associated with this practice. Provide real-world examples of when and why an organization might choose to run multiple OS versions.

In organizations often maintain different versions of operating systems (OS) within their infrastructure. Following are the reasons an organization might use different versions of OS.

Advantages:

- **Legacy Software Compatibility:**
 - The reason organization use older version of the OS is because they support legacy software and updating the legacy software to run on newer versions of the operating system would be costly and time consuming.
- **Hardware Constraints:**
 - Older hardware might not support newer versions of the Operating system, so organization often keep older versions of OS running on the older hardware
- **Transition Periods:**
 - During the transition from older OS to newer OS, organization needs to train the personnel on the newer OS, that might disrupt the organization's workflow

Challenges:

- **Security Risks:**
 - Older version of OS are at higher security risk because the older version might have known exploits that have been patched out of the newer versions of the OS.
- **Increased Complexity:**
 - Managing multiple OS versions adds complexity to IT infrastructure and support. System administrators must be able to handle different OS, this will increase the training requirement.
- **Cost of Maintenance:**
 - Maintaining and supporting various OS versions can be costly. Organizations must allocate resources for ongoing support, updates, and potential customization to address specific issues associated with each version.

An Example of an organization using different is Hospitals. Hospitals often use older Windows versions due to the need for compatibility with legacy medical software and devices. Many medical devices and software applications were designed to work with

specific versions of Windows, and upgrading to newer versions can be a complex and costly process.