Unix systems

# Lab session 1 – Introduction to Linux

## Introduction

The lab work consists of a discussion and practical tasks. All answers to tasks should be submitted in a text document, uploaded to Moodle.

You must submit the following:

* A single text document, uploaded to Moodle.

**Note: Each Lab session is worth 1% of your final mark**

### **Learning Outcomes Assessed**

The following learning outcomes are being assessed in this lab session:

* Describe the main differences between a Windows-based OS and Unix-based OS.

**Answer**

|  |  |
| --- | --- |
| **Windows-based OS** | **Unix-based OS** |
| * Windows OS is a menu-based operating system. * Windows has a GUI (Graphical User Interface), making it simpler and easier to use for new users. * Microsoft owns the Windows operating system as proprietary software; hence the public cannot access its source code. * Windows operating system is less secure than Unix operating system. * Windows operating system supports multithreading. * Windows has a built-in backup and recovery system that makes it more user-friendly. | * Unix OS is a command-based operating system. * Unix has a TUI (Text Base Interface); therefore, it is tougher and harder to grasp for new users. * Unix is an open-source system that is accessible through the General Public License. * Unix operating system is more secure because all system updates require explicit user authorization. * Unix operating system supports multiprocessing. * Creating a backup and recovery system in Unix can be time-consuming, which makes it less user-friendly. |

**References**

* [**https://www.geeksforgeeks.org/difference-between-unix-and-windows-operating-system/**](https://www.geeksforgeeks.org/difference-between-unix-and-windows-operating-system/)
* [**https://www.javatpoint.com/unix-vs-windows-operating-system#:~:text=UNIX%20is%20a%20command%2Dbased,case%20sensitivity%20as%20an%20option**](https://www.javatpoint.com/unix-vs-windows-operating-system#:~:text=UNIX%20is%20a%20command%2Dbased,case%20sensitivity%20as%20an%20option)**.**