## GLOSSARY OF TERMS

Term	Description	First time page used
Operating System (OS)	The software that controls hardware resources and provides : services to applications.	7
Linux	The open source OS kernel that sits at the heart of countless: distributions such as Fedora, Kali Linux, and Rocky Linux.	9
Fedora	An innovative rolling release general purpose Linux distribution, often used for development and is known to be cutting edge.	10
Kali Linux	A Linux operating system particularly developed for tending to : penetration testing and cyber security, and used heavily by ethical hackers.	11
Rocky Linux	A community-supported, enterprise-grade operating system, built : as a successor to CentOS, that provides extended support and compatibility.	11
Virtual Machine (VM)	An enterprise-friendly community supported operating system : based on CentOS with a focus on long-term support and compatibility.	23
Virtualization	The capability to run several virtual systems on one physical : machine.	23
TOPSIS(Tech nique for Order Preference by Similarity to Ideal Solution)	A multi criteria decision making method to rank alternatives : based on the closeness to ideal solution. For this study, it uses the Direct Rating method to assign weights to the criteria.	18
Direct Rating	Very subjective approach to weighting criteria based on relevance in a real situation.	18
Tools Compatibility	The support for software and dependencies required by practicum : modules that an OS is able to provide.	31
Default System	The extent to which an OS is ready to be used immediately after: installation and without major configuration.	31

## Configuration

User Experience (UX)	How intuitive and easy to use an OS is for students and : instructors in practicum.	31
Performance & Stability	Measures dependability of the OS on various workloads and conditions.	31
Virtual Box	An Oracle product, it is a free/open source hosted hypervisor for : x86 virtualization. This enables the user to use multiple OS at the same time on one machine.	23
Virtualization	The act of making a virtual edition of computing resources, including operating systems, servers, storage devices, and networks.	23
GUI		
(Graphical User Interface)	An interface that allows computer users to use graphical images and icons instead of typing commands.	8
CLI (Command Line Interface)	The process of enabling a virtual representation of computer resources like operating systems, servers, storage devices and networks.	8
DNF (Dandified Yum)	The next generation of Yellowdog Updater, Modified (YUM), a software package manager for RPM-based distributions such as Fedora and Rocky Linux.	42