Rapid Ascent Assignments

<u>Rubric</u>

<passing 80=""></passing>	100	80	60	40
Meets Task Requirements	All	Most	Some	Very Few or None
Frequency	Always	Usually	Some of the Time	Rarely or None
Accuracy	No Errors	Few Errors	Some Errors	Frequent Errors
Comprehensibility	Always Comprehensible	Almost Always	Gist and Main Ideas	Isolated Bits are
		Comprehensible	Comprehensible	Comprehensible
Content	Fully	Adequately	Partially Developed	Minimally
Coverage	Developed	Developed		Developed
Cybersecurity	Broad and	Adequate and	Limited / Lacks Variety	Basic / Highly
Vocabulary	Varied	Varied		Repetitive

The above are in % points.

ASSIGNMENTS - Virtualization

- <u>Virtualization</u> Assignment #1 Virtualization Concepts
 - Tasks
 - Explain the different types of virtualization
 - Purpose
 - Clarify Distinguish between Type I, Type II hypervisors, and Containers
 - Summarize Be able to explain each type of virtualization
 - Assignment
 - In a text box
 - Explain virtualization in your own words, the different types, its purpose.
- **Virtualization** Assignment #2 Virtualization Concepts
 - Tasks
 - Explain the different types of virtualization features
 - Purpose
 - Clarify Distinguish between
 - Resource Allocation
 - Isolation
 - Snapshotting
 - Live Migration
 - Cloning
 - Summarize Be able to explain each type of virtualization feature
 - Assignment
 - In a text box
 - Explain the list of virtualization features provided above in your own words and its purpose.
- <u>Virtualization</u> Assignment #3 Virtualization Concepts Golden Image
 - Tasks
 - Explain what a Golden Image is, and how it's used
 - o Purpose
 - Summarize Be able to explain what a Golden Image is
 - Assignment
 - In a text box
 - Explain what a Golden Image is, and how it's used in your own words.

- Virtualization Assignment #4 Virtualization Concepts ISO File
 - Tasks
 - Explain what an ISO File is, and how it's used
 - Purpose
 - Summarize Be able to explain what an ISO File is
 - Assignment
 - In a text box
 - Explain what an ISO File is, and how it's used in your own words.
- <u>Virtualization</u> Assignment #5— Live Class Exercise Deploy Ubuntu 22.04 Linux Server (NO GUI)
 - o Tasks
 - Deploy an Ubuntu 22.04 Linux Server in VirtualBox
 - o Purpose
 - Apply Using the in class guidance, install and deploy a Linux Server
 - Construct Build a Virtual Machine
 - Assignment
 - Show Screenshots of
 - The Instructions you followed
 - Each step of the Installation process
 - Linux Server native commands and outputs
 - In a text box
 - Explain in your own words encryption, each step, what it means and what you accomplished.
- Virtualization Assignment #4 Live Class Exercise Discovery
 - o Tasks
 - Demonstrate switching Virtual Network Modes in VirtualBox
 - Purpose
 - Clarify Discover the difference between NAT and Bridged Modes
 - Apply Be able to modify Network Modes in VirtualBox
 - Assignment
 - Show Screenshots of
 - The Instructions you followed
 - Each Step of the Process
 - The changes that occurred in Linux, especially the IP Addresses
 - In a text box
 - Explain in your own words Network Modes, its purpose, and the experience of using VirtualBox to change the virtual location of the Virtual Linux Server in your systems.