



PRELIMINARY LABORATORY EXAMINATION

ITP111 – System Administration and Maintenance

First Semester, Academic Year 2025-2026

Instruction:

1. Download a Server and a Desktop Operating System (OS) in ISO image file.

2. Install the 2 OS as a Virtual Machine (VM) using Oracle Virtualbox or any virtualization software.

3. Set the VMs to the minimum system requirements of the OS.

4. On the installation, you must highlight the following:

a. Language/Keyboard Settings

b. Disk Partition and File System

c. Network Settings

d. Computer Name

5. After the installation, you must present the following performance monitoring:

On your host OS:

a. Identifying the network DNS

b. Traceroute the PnC website

c. Find the current CPU Utilization

d. Find the current Memory Utilization

e. Identify the application the uses most of your RAM.

f. Identify the application the uses most of your CPU.

g. Show the daemons/services on your host OS.

h. The IP address and MAC address

6. Save it in a PDF file and submit in the Pinnacle.

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|---|--------|--|------|-----------------------------|------|
| Prepared by: | Date | Checked and Reviewed by: | Date | Approved by : | Date |
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PRELIMINARY LABORATORY EXAMINATION - RUBRICS

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| Criteria | Excellent (100–90%) | Proficient (89–80%) | Developing (79–70%) | Needs Improvement (Below 70%) | Weight |
|---|--|---|---|---|--------|
| 1. OS Download (Server + Desktop ISO) | Both ISO files correctly downloaded, valid versions, organized in submission. | Both ISO files downloaded but not clearly documented or missing version detail. | Only one ISO downloaded or incorrect version. | No valid ISO files downloaded. | 10% |
| 2. VM Installation (Server + Desktop) | Both OS installed successfully in VirtualBox/other VM, fully functional. | Both OS installed but with minor issues/errors. | Only one OS installed successfully. | Installation incomplete or not functioning. | 15% |
| 3. VM Configuration (System Requirements) | VMs configured exactly to minimum system requirements. | VMs configured but with minor mismatch in requirements. | Only one VM correctly configured. | No proper VM configuration done. | 10% |
| 4. Installation Highlights (Language, Disk, Network, Computer Name) | All 4 aspects clearly shown and well-documented with screenshots. | 3 aspects shown correctly. | 2 aspects shown correctly. | 1 or none shown. | 15% |
| 5. Host OS Performance Monitoring | All 8 tasks (DNS, Traceroute, CPU, Memory, RAM app, CPU app, Daemons/Services , IP/MAC) done accurately with proof/screenshots . | 6–7 tasks done correctly. | 4–5 tasks done correctly. | 3 or fewer tasks done correctly. | 30% |
| 6. Documentation & Submission | Report is complete, clear, well-organized, saved as PDF, and submitted properly. | Report mostly complete, minor clarity/formatting issues, PDF submitted. | Report incomplete or poorly formatted, missing screenshots. | No report, or wrong format submitted. | 20% |
| | | | | TOTAL | 100% |