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**TEMASEK POLYTECHNIC**

**SCHOOL OF INFORMATICS & IT**

**DIPLOMA IN INFOCOMM AND DIGITAL MEDIA**

**ICT SYSTEMS, SERVICES & SUPPORT**

**VIRTUAL DESKTOP TECHNOLOGY (VRDT) CIML015**

**AY 2024/25 OCTOBER SEMESTER**

**PROJECT**

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| --- |
| **Date:**  **“By submitting this work, I am / we are declaring that I am / we are the originator(s) of this work and that all other original sources used in this work has been appropriately acknowledged.**  **I / We understand that plagiarism is the act of taking and using the whole or any part of another person’s work and presenting it as my/ our own without proper acknowledgement.**  **I / We also understand that plagiarism is an academic offence, and that disciplinary action will be taken for plagiarism.”**  **STEPS ID:**  **………….…**    **NAME AND SIGNATURE OF STUDENTS: ………….… ……………** |

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**Project Documentation - 50%**

**Requirement: Between 30-50 pages**

**Proof of Concept (POC) scope**

This report describes the proof of concept for running a nested virtualization environment on a Windows laptop using Virtual Box with nested VM enabled. Ubuntu is used as a VDI hypervisor. Multiple guest VMs using Windows and Ubuntu clients are used for different users.

**POC summary**

**A screenshot of a phone

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**POC setup process with screenshots and commands**

## Setting up Ubuntu VM

|  |  |
| --- | --- |
| A screenshot of a computer  Description automatically generated | Step 1:  Create virtual machine for Ubuntu in VirtualBox. |
| A screenshot of a computer  Description automatically generated | Step 2:  Configure memory size. |
| A screenshot of a computer  Description automatically generated | Step 3:  Create virtual hard disk. |
| A screenshot of a computer  Description automatically generated | Step 4:  Attach Ubuntu image to IDE controller. |
| A screenshot of a computer  Description automatically generated | Step 5:  Press the start button to install Ubuntu VM. |
| A screenshot of a computer  Description automatically generated | Step 6:  Setting up Ubuntu VM by configuring the keyboard layout, installation type, and other specifications. |
| A screenshot of a computer  Description automatically generated | Step 7:  Configure username and password. |
| A screenshot of a computer  Description automatically generated | Step 8:  Installation completed and power on the Ubuntu VM. |
| A screenshot of a computer  Description automatically generated | Step 9:  Update the Ubuntu with the following commands:   * *sudo apt update* * *sudo apt upgrade* |
| A screenshot of a computer  Description automatically generated | Step 10:  Enable nested VT-x / AMD-v.  If the checkbox option is greyed out, continue the following step. |

**Conclusion**

**References Links**

**Screen shot of Completed Survey**