NOT FOR SALE

Republic of the Philippines
Department of Education
National Capital Region
Division of Pasig City
STA LUCIA HIGH SCHOOL
City of Pasig

DepED
DEPARTMENT OF EDUCATION

Technical-Vocational and Livelihood Track
Information and Communications Technology (ICT) Strand

Grade 12

Computer Systems Servicing NC II

QUARTER 1

LO 1: SET UP USER ACCESS

SELF- LEARNING MODULE 4:

Installing VMware Workstation 12 for Server-Client Virtualization

Writer/ Illustrator / Layout Artist : Mr. Cyrus N. Caruz
Reviewer/ Editor : Ms. Virgie A. Baylon

COC 3 : SET UP COMPUTER SERVERS

Introductory Message

For the facilitator:

Welcome to Technical Vocational Livelihood Education ICT Grade 12 CSS NC II Module on **Set Up User Access**: <u>**Installing VMware Workstation 12 for Server-Client Virtualization.**</u>

This module was collaboratively designed, developed and reviewed by educators from Schools Division Office of Pasig City headed by its Officer-In-Charge Schools Division Superintendent, Ma. Evalou Concepcion A. Agustin in partnership with the Local Government of Pasig through its Mayor, Honorable Victor Ma. Regis N. Sotto. The writers utilized the standards set by the K to 12 Curriculum using the Most Essential Learning Competencies (MELC) while overcoming their personal, social, and economic constraints in schooling.

This learning material hopes to engage the learners into guided and independent learning activities at their own pace and time. Further, this also aims to help learners acquire the needed 21st century skills especially the 5 Cs namely: Communication, Collaboration, Creativity, Critical Thinking and Character while taking into consideration their needs and circumstances.

In addition to the material in the main text, you will also see this box in the body of the module:

Notes to the Teacher

This contains helpful tips or strategies that will help you in guiding the learners.

As a facilitator you are expected to orient the learners on how to use this module. You also need to keep track of the learners' progress while allowing them to manage their own learning. Moreover, you are expected to encourage and assist the learners as they do the tasks included in the module.
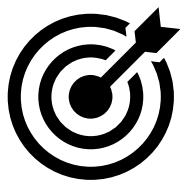
EXPECTATION

After completing the lesson the learners should be able to:

A. define Virtualization Software;

B. demonstrate the process of installing VMware Workstation 12; and

C. give importance of Virtualization in these trying times

PRE–TEST

Chronology

Directions: Arrange the steps in installing VMware Workstation 12 for virtualization in alphabetical order from A to F.

_____1. Double click the executable file for VMware workstation 12. Allow the program to install in your device and click next.

_____2. Find the VMware Workstation 12 Pro from the list of program and execute.

_____3. Select Install from installer disk image file (iso). Browse for your Windows Server 2008 R2 ISO image file.From the Easy Install Information, select Windows Server 2008 R2 Standard version.DO NOT ENTER PRODUCT KEY. Click YES to continue.

_____4. Select Create a New Virtual Machine from the Home Tab. Select Typical (Recommended) as type of configuration and click NEXT.

_____5. Let the installation continue. Enter the license key from the crack folder and click FINISH.

_____6. Specify disk capacity from 40 Gb to 100 Gb. Select Store virtual disk as a single file. Click NEXT and click FINISH.
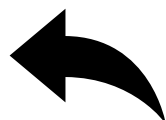
RECAP

Directions: Read each statement below carefully. Write **T** if the statement is correct and **F** if not in the space provided before each number.

_____ 1 Client/server network operating systems allow the network to centralize functions and applications in one or more dedicated file servers.

_____ 2. Client/Server is centralized because resources and data security are controlled through the server.

_____ 3. One of the disadvantages of a peer to peer network is security.
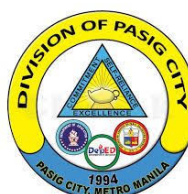
_____4. Peer-to-peer network operating systems allow users to share resources and files located on their computers and to access shared resources found on other computers.

_____ 5. Windows Server 2008 R2 can be used as NOS.

L E S S O N

Installing VMware Workstation 12 for Server-Client Virtualization

Introduction

VMware Workstation Pro allows you to run multiple operating systems at once on the same Windows or Linux PC. Create real Linux and Windows VMs and other desktop, server, and tablet environments, complete with configurable virtual networking and network condition simulation, for use in code development, solution architecting, application testing, product demonstrations and more.

Illustration below shows a logo of **VMware Workstation 12 Pro** to be used as Virtual Machine for the series of hands on activities:

Fig.1. Logo of VMware workstation 12 Pro

What is VIRTUALIZATION SOFTWARE?

Virtualization software allows you to run two or more operating systems using only one PC. So it's like two (or more) computers in one. One is physical, and the others are virtual. More broadly, virtualization can refer to any instance of one IT resource hosting multiple other IT resources, including applications, servers, clients, storage capacities, or networks.

Virtualization software, also called a hypervisor, is what allows one computer or server to host multiple operating systems.

Virtual networking enables communication between multiple computers, virtual machines (VMs), virtual servers, or other devices across different office and data center locations. While physical networking connects computers through cabling and other hardware, virtual networking extends these capabilities by using software management to connect computers and servers over the Internet. It uses virtualized versions of
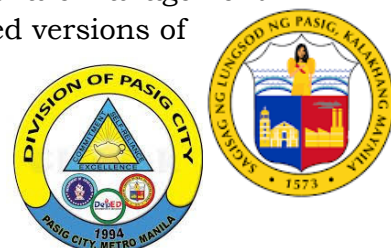
traditional network tools, like switches and network adapters, allowing for more efficient routing and easier network configuration changes.

How to install VMware Workstation 12 Pro?

With these trying times, we do not allow to have face-to -face classroom set up so we will not be able to have an actual PC or in virtualization process, called physical machine. Virtual machine is our own little way to practice and have a bit of knowledge and skills to virtualize server-client set up.

The following steps are illustrated so as to follow completely the process:

With the given software, double click the executable file located inside the installation folder. In this case, VMware installation folder is securely save at the important file storage (depending on the location where it is saved).

Fig. 1. Finding the location of installlation folder
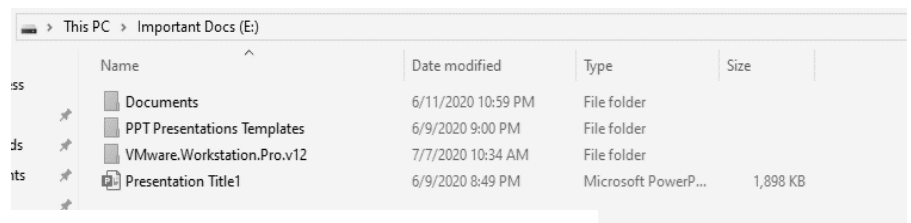
Fig. 2. Double click the executable file

Fig. 3. Allow the program to install
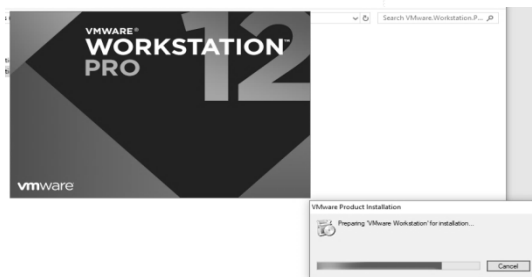
Fig. 4. Accept the license agreemen in your device. Then a welcome screen by ticking the checkbox. will appear, just click NEXT...
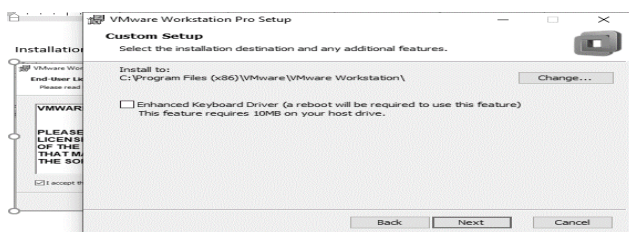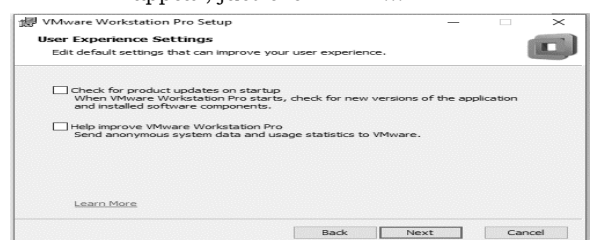

Fig. 5. Let the Enhanced Keyboard

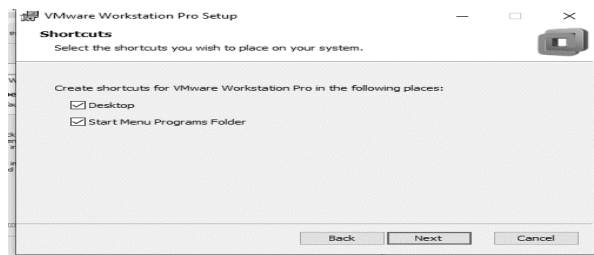Fig. 6. Uncheck the checkboxes...NEXT, remain unchecked then NEXT....

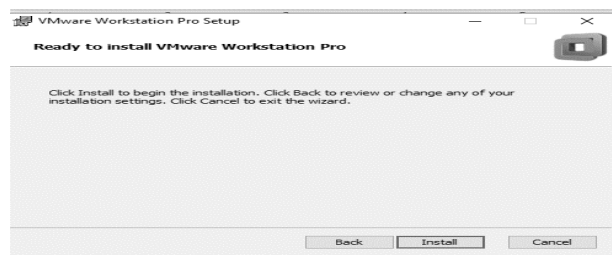Fig. 7. Let the shortcuts remain selected . . button..

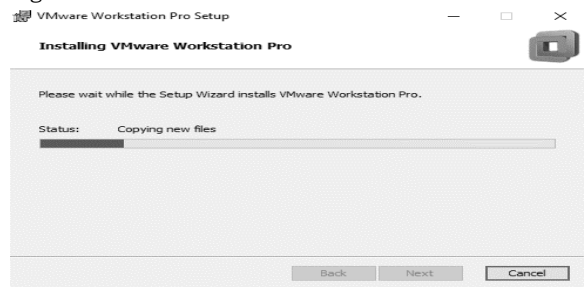Fig.8. Commence installation by clicking INSTALL Click NEXT…..
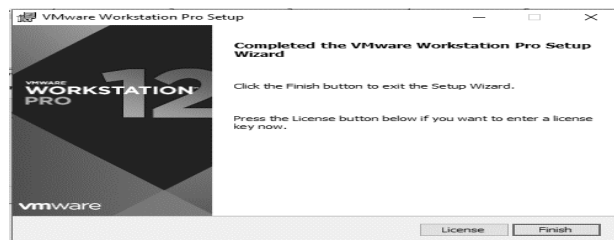

Fig. 9. Installing software . . . .

Fig. 10. Press LICENSE button ..

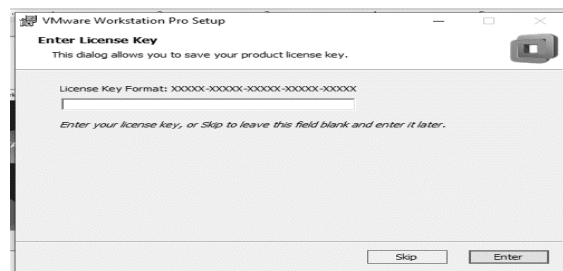Fig. 11. Go to the installation folder and open the crack folder to see the license keys


```
AG31K-0GD5P-08ERP-TEQZV-WG09A
UA7T0-2HF5L-080FP-MMPZ9-PKAC6
VA3RR-4HF4Q-M89DY-G7PG9-PVUY2
ZG1TK-DQE8L-H882Q-PFW7G-ZC0EF
YA5N8-DAFD1-085FY-RFZE9-N62U6
GZ1D0-8WZ93-H881Y-WGZGV-ZZ0A2
CY5HR-A0E94-489UZ-TZZX9-NPH9A
FZ11A-F3YDK-084WZ-HYWZT-W30A8
5A02H-AU243-TZJ49-GTC7K-3C61N
VF5XA-FNDDJ-085GZ-4NXZ9-N20E6
UC5MR-8NE16-H81WY-R7QGV-QG2D8
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AA3E0-0VDE1-0893Z-KGZ59-QGAVF
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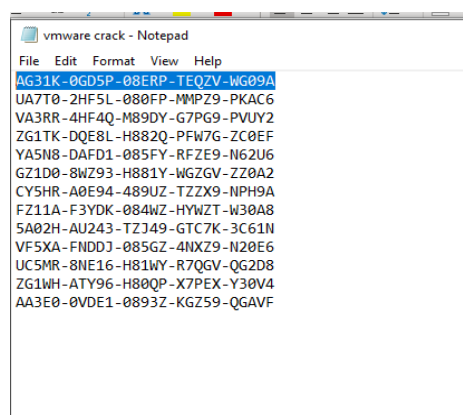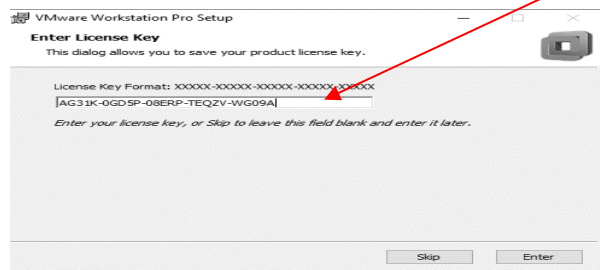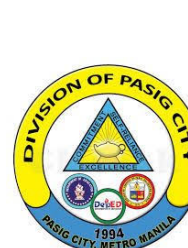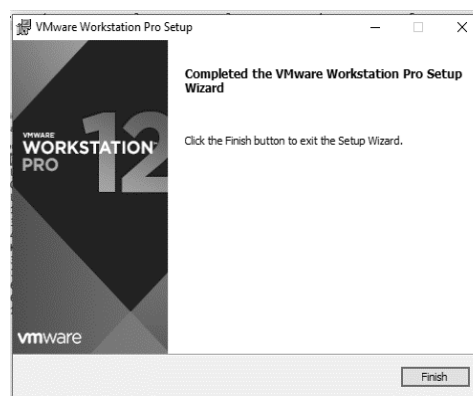
Fig. 12. Copy the first license key and past it to the textbox…press enter toexecute…. and click FINISH …
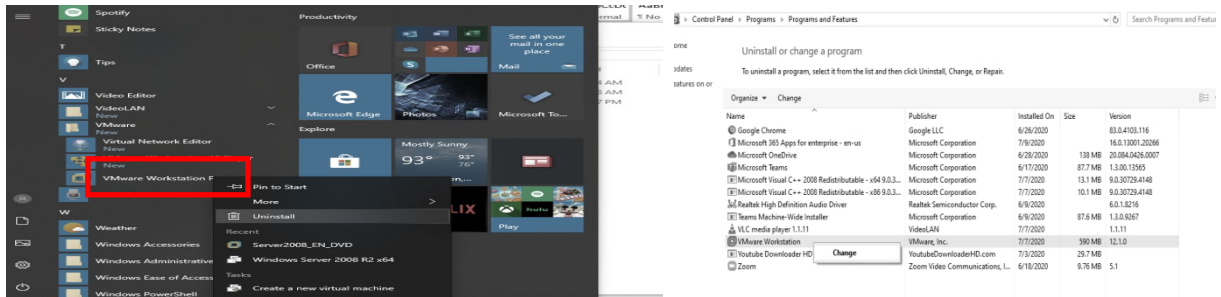
ACTIVITIES

Activity 1. Hands-on Activity

Let us try to uninstall the VMware Workstation 12 Pro. Follow these steps:

1. From the list of program, find the VMware Workstation Pro. Right Click
   RMB and click **UNINSTALL . . .**

2. By clicking uninstall brings you to control panel. Find VMware Workstation
   program, press RMB and click CHANGE. A welcome screen will appear, then
   click NEXT..
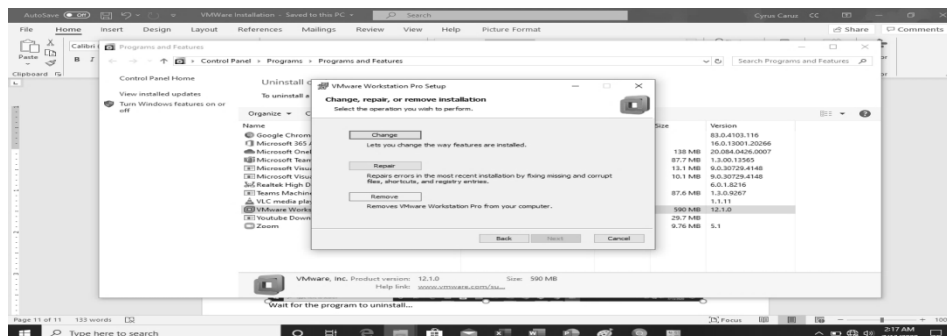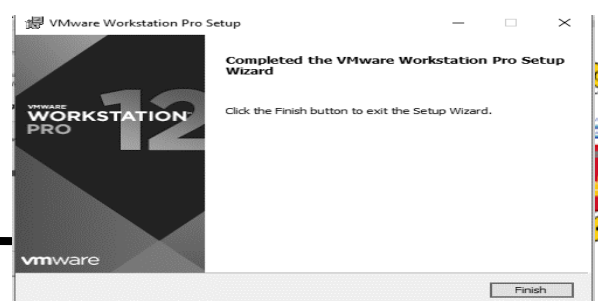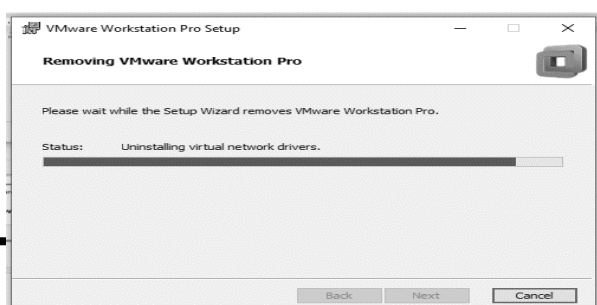

3. Choose the operation you want to perform. Choose **CHANGE.** Wait until the program
is uninstallation is finished.
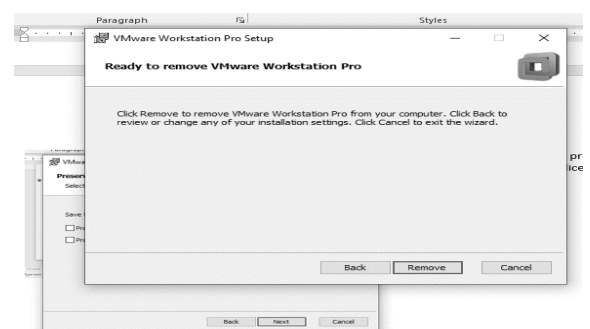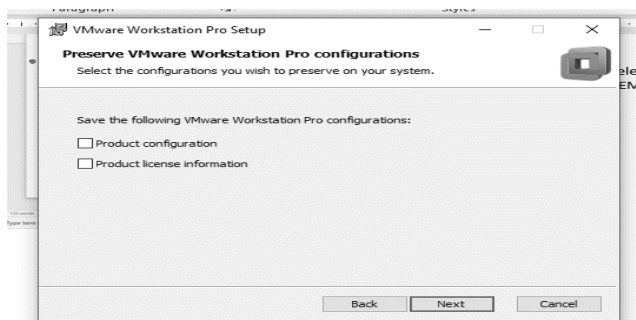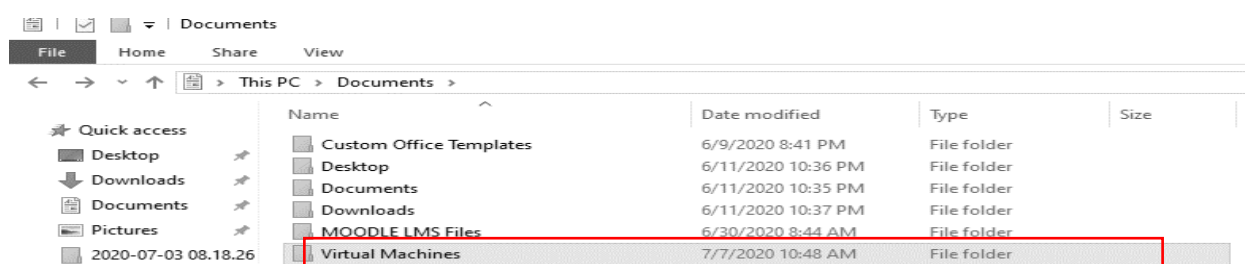

4. Uncheck the textboxes...   5. Click REMOVE button . . . .

6. Wait for the process to remove the   7. Click FINISH . . . .
   program…

8. Look for the default location of your Virtual Machine folder where vm is saved. Delete
   the virtual machine folder completely **IF THE FOLDER IS STILL UNDELETED**.

9. Restart your computer/laptop and do the installation all over again. Do figures 1 to
   12. Then try uninstalling procedures.

10. Answer the Self-Assessment Guide to assess yourself how far have you gone through
    with our activity.

 W R A P – U P

Directions: Complete the missing statement.

     Virtualization on VMWare Workstation allows you to run multiple operating
systems at once on the same Windows or Linux PC. Virtualization software gives you to
have one or more PC in one, that is physical and the others are virtual. Virtualization
software, also called hypervisor is what allows one computer or server to host multiple
operating systems.

VALUING

As ICT/CSS student, what can you say about the use of VMware in these trying times?

_____

_____

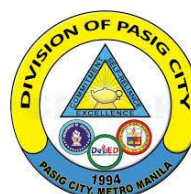_____

_____

_____

POST TEST

Chronology.

Directions: Arrange the following steps in installing and uninstalling VMware Workstation 12 Pro by writing the letters from A to E before each number. Answer this activity in a separate worksheet provided to this module.

_____ 1. Execute the VMware application file (exe).

_____ 2. Wait for the process until to finish the installation.

_____ 3. Press the license button and enter license key from the crack folder and paste it into the textbox, then press finish.

_____ 4. To uninstall the software, select vmware workstation from the list of programs and select uninstall.

_____ 5. From the control panel, click RMB and click change. Wait until uninstallation process is finished. Delete the default folder of virtual machine completely.

KEY TO CORRECTION

POST TEST	RECAP	PRE TEST
1. A	1. T	1. A
2. B	2. T	2. F
3. C	3. T	3. C
4. D	4. T	4. B
5. E	5. T	5. E
		6. D

ACTIVITY

Since the activity is a Hands-On activity, the give students ample time to self-learn the procedures.

Let the student repeat the process installing and uninstalling the VMware Workstation 12 Pro.

After mastering the process, let the students self-assess their knowledge and skills. Rate themselves in the scale from **1 to 5.**, 1 as the lowest and five as the highest.

Can I:

1. Execute the application file?
2. Start the installation process?
3. Enter the license key to textbox and finish the installation process?
4. Uninstall the VMware software?
5. Delete the default folder of VMware completely IF THE FOLDER IS STILL UNDELETED and restart the PC?

R E F E R E N C E S

Online Site:
https://www.vmware.com/asean/products/workstation-pro.html
(accessed July 13, 2020)
https://www.vmware.com/topics/glossary/content/virtual-networking
(accessed July 13, 2020)

Images:
Set Up Computer Servers
Cover Page was designed using Adobe Photoshop 2018 photo manipulation.
https://www.computerhope.com/jargon/s/server.htm
(accessed June 20, 2020)

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