

Week Report 2

Summary of Presentation

In this week's presentation we learned about the benefits of virtualization as well as if our computers can virtualize, we also learned about virtual box and exploring it's tools as well as its extension, and lastly we learned how to install virtual box.

What is virtualization

Virtualization is the replication of hardware to stimulate a virtual machine inside a physical one.

Types of virtualization

There are two types of virtualization,those are server side and client side

Installing Ubuntu in Virtualbox

Oracle VM VirtualBox Manager
File Machine Help

Tools

New Settings Discard Start

Preview

CIS-106-Ubuntu-18.04
Powered Off

General

Name: CIS-106-Ubuntu-18.04
Operating System: Ubuntu (64-bit)

System

Base Memory: 2048 MB
Processors: 2
Boot Order: Optical, Hard Disk
Acceleration: VT-x/AMD-V, Nested Paging, KVM Paravirtualization

Display

Video Memory: 128 MB
Graphics Controller: VMSVGA
Acceleration: 3D
Remote Desktop Server: Disabled
Recording: Disabled

Storage

Controller: IDE
IDE Secondary Device 0: [Optical Drive] ubuntu-20.04.3-desktop-amd64.iso (2.86 GB)
Controller: SATA
SATA Port 0: CIS-106-Ubuntu-18.04.vdi (Normal, 50.00 GB)

Audio

Host Driver: Windows DirectSound
Controller: ICH AC97

Network

Adapter 1: Intel PRO/1000 MT Desktop (NAT)

USB

USB Controller: OHCI
Device Filters: 0 (0 active)

Shared folders

None

Description

hostname: cis106vm
user: melgayar
password: pccc

Type here to search

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CIS-106-Ubuntu-18.04 [Running] - Oracle ...

File Machine View Input Devices Help

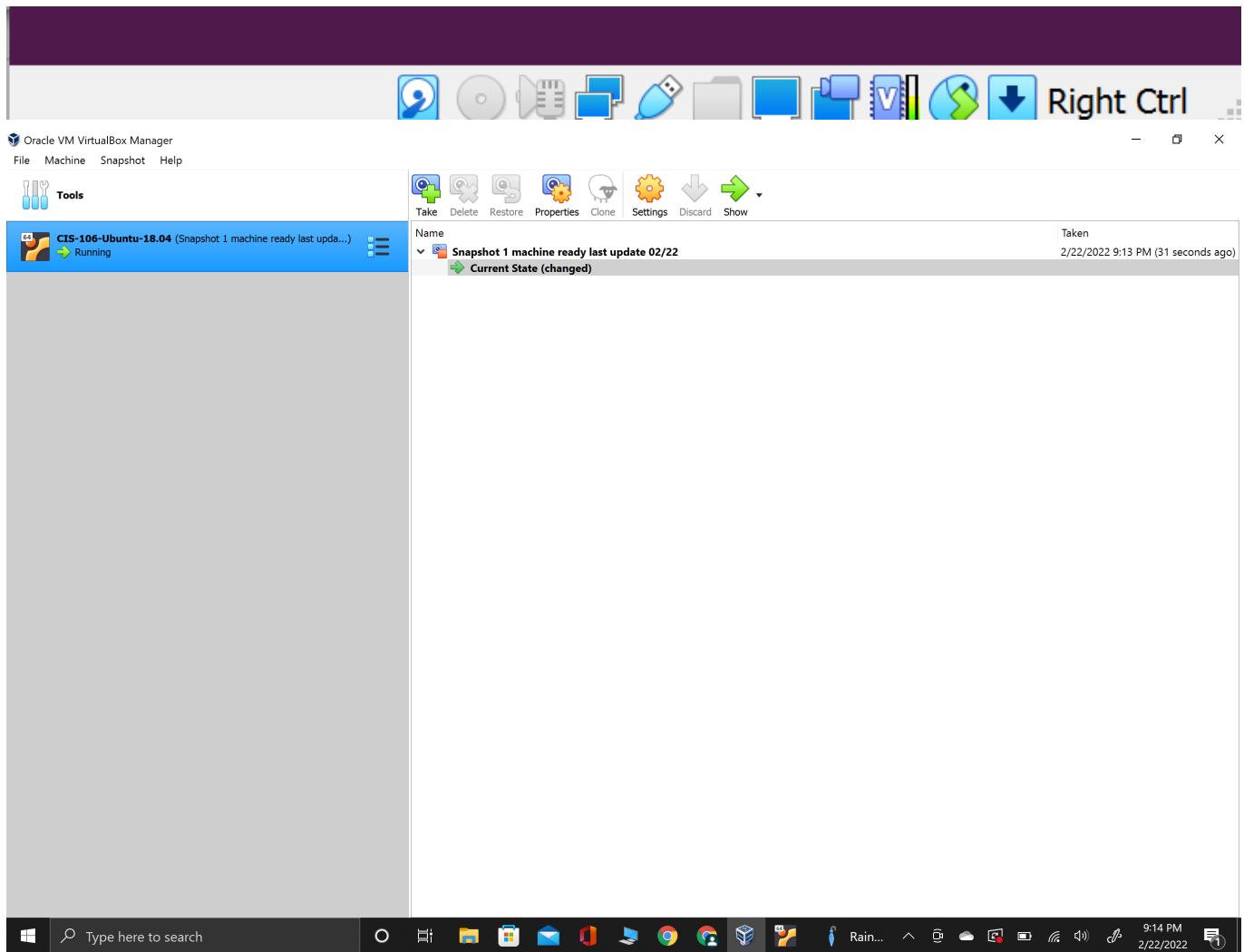
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Menna Elgayar

Not listed?

ubuntu



What is the raspberry pi

It is the smallest computer to exist, it can be used to build your own project from a robot to a security system camera.

A bulleted list of different models

- Raspberry Pi Zero
- Raspberry Pi Platform
- Raspberry Pi 2B
- Raspberry Pi 3B
- Raspberry Pi 3B+
- Raspberry Pi 4

Specs of the latest model (Raspberry pi 4 or 400)

- Broadcom BCM2711 quad-core Cortex-A72 (ARM v8) 64-bit SoC @ 1.8GHz.
- 4GB LPDDR4-3200.
- Dual-band (2.4GHz and 5.0GHz) IEEE 802.11b/g/n/ac wireless LAN.
- Bluetooth 5.0, BLE.
- Gigabit Ethernet.
- 2 × USB 3.0 and 1 × USB 2.0 ports.
- Horizontal 40-pin GPIO header.

- 2 × micro HDMI ports (supports up to 4Kp60)

Bulleted listed of 5 projects you can do with a raspberry pi.

- You can build a hacking machine using an applicable operating system
- You can build a printer
- You can build and control a robot
- you can use it as a media centers, game consoles, routers.
- you can build a solar powered bitcoin miner