Week Report 2
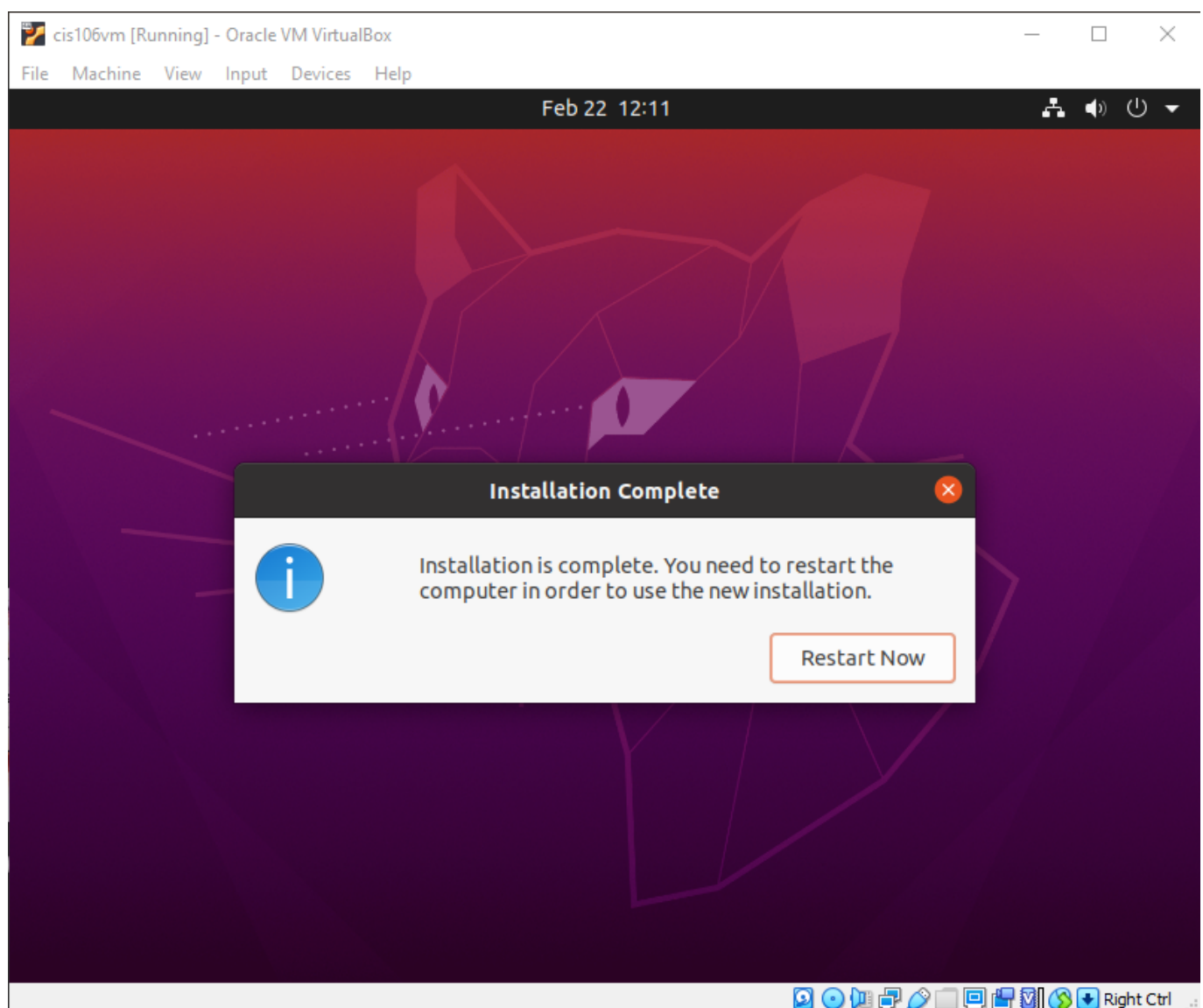
Summary of Presentations

In the week 2 lecture, we learned about virtualization. Virtualization is simulating a machine inside another machine. There are two types of virtualization: server-side and client-side. The virtualization we work with is client-side. Client-side virtualization is software installed on a computer to manage virtual machines on the client physical machine. Virtualizing requires a hypervisor, which is the software that manages the virtual machines. Type 1 hypervisors run on hardware and type 2 hypervisors run on the host OS.

Installing Ubuntu

Raspberry Pi

A Raspberry Pi is a small computer that can plug into a display and uses regular peripherals. It can do everything a regular computer can do. Since they are so small, they do not have the same hardware

capabilities as a full size machine. Current Pi models include: - Raspberry Pi 4 - Raspberry Pi 3 - Raspberry Pi Zero W - Raspberry Pi 3 A+ - Raspberry Pi 400

The most current models of the Pi are the Pi 4 and the Pi 400, which is the same as the Pi 4 with a built in keyboard. The Pi 4 has 4 USB ports, type C power, a micro SD card slot, wifi and bluetooth, and a quad core processor.

There are many projects you can do with a Raspberry Pi including: - Make a network wide adblocker - Make a media server - Use it as an emulation machine - Use it as a game server - Run Android TV