## Lab #0

## Ankit Goyal

September 10, 2014

## 1 Setup

#### 1.1 Hardware

Guest Processor: 64 bit 8 core Intel(R) Xeon(R) CPU E3-1270 V2 @ 3.50GHz

**Guest Memory**: 16GB

VM guests run with single 64-bit virtual CPU and 114.54MB of memory (obtained using /proc/meminfo)

#### 1.2 Software

**Host Operating System**: Ubuntu with 3.13.0-34-generic 64 bit kernel.

Guest Operating System: Ubuntu with 3.16.1 64 bit kernel.

Qemu-kvm is used to run guest operating system.

### 2 Qemu command

# 3 dmesg output

A standard PC console screen being detected.

### Registering the USB interface.

```
[ 0.590510] ACPI: bus type USB registered
[ 0.591061] usbcore: registered new interface driver usbfs
[ 0.591538] usbcore: registered new interface driver hub
[ 0.592148] usbcore: registered new device driver usb
```

**Detecting plug and play device interfaces**. I don't believe these are actual devices, since I don't have Wacom Penabled attached.

PNP0b00	CMOS/real time clock
PNP0303	Keyboard
PNP0f13	Alps Pointing-device
PNP0700	floppy disk controller.
PNP0400	printer
PNP0501	Wacom Penabled HID

```
0.698814] pnp: PnP ACPI init
0.699139] ACPI: bus type PNP registered
    0.701140] pnp 00:00: Plug and Play ACPI device, IDs PNP0b00 (active)
0.701586] pnp 00:01: Plug and Play ACPI device, IDs PNP0303 (active)
0.701930] pnp 00:02: Plug and Play ACPI device, IDs PNP0f13 (active)
0.702334] pnp 00:03: [dma 2]
0.702549] pnp 00:03: Plug and Play ACPI device, IDs PNP0700 (active)
    0.703010] pnp 00:04: Plug and Play ACPI device, IDs PNP0400 (active)
Γ
    0.703427] pnp 00:05: Plug and Play ACPI device, IDs PNP0501 (active)
Γ
    0.705823] pnp: PnP ACPI: found 6 devices
```

#### Keyboard and mouse actually getting detected

```
[ 0.904011] uhci_hcd: USB Universal Host Controller Interface driver 0.905559] i8042: PNP: PS/2 Controller [PNP0303:KBD,PNP0f13:MOU] \
at 0x60,0x64 irq 1,12
```

#### **Detecting ATA devices** - Discovered two ATA devices.

#### ATA devices identified as DVD-ROM and HARDDISK

```
[ 1.050827] ata2.01: NODEV after polling detection
[ 1.053424] ata2.00: ATAPI: QEMU DVD-ROM, 2.0.0, max UDMA/100
[ 1.055532] ata1.01: NODEV after polling detection
```

```
[ 1.056661] ata1.00: ATA-7: QEMU HARDDISK, 2.0.0, max UDMA/100
[ 1.057076] ata1.00: 10485760 sectors, multi 16: LBA48
[ 1.058028] ata2.00: configured for MWDMA2
[ 1.058844] ata1.00: configured for MWDMA2
```

#### A SCSI interface to ATA devices is emulated.

```
[ 1.065295] scsi 0:0:0:0:0 Direct-Access ATA QEMU HARDDISK 0 PQ: 0 ANSI: 5
[ 1.075428] scsi 1:0:0:0: CD-ROM QEMU QEMU DVD-ROM 2.0. PQ: 0 ANSI: 5
[ 1.087248] sr 1:0:0:0: Attached scsi CD-ROM sr0
[ 1.088424] sr 1:0:0:0: Attached scsi generic sg1 type 5
[ 1.095130] sd 0:0:0:0: [sda] Attached SCSI disk
```

### Detecting RAID devices and no devices were found.

```
[ 1.098346] md: Autodetecting RAID arrays.
[ 1.098541] md: Scanned 0 and added 0 devices.
```

Heading on level 4 (paragraph) Suspendisse vel felis. Ut lorem lorem, interdum eu, tincidunt sit amet, laoreet vitae, arcu. Aenean faucibus pede eu ante. Praesent enim elit, rutrum at, molestie non, nonummy vel, nisl. Ut lectus eros, malesuada sit amet, fermentum eu, sodales cursus, magna. Donec eu purus. Quisque vehicula, urna sed ultricies auctor, pede lorem egestas dui, et convallis elit erat sed nulla. Donec luctus. Curabitur et nunc. Aliquam dolor odio, commodo pretium, ultricies non, pharetra in, velit. Integer arcu est, nonummy in, fermentum faucibus, egestas vel, odio.

#### 4 Lists

## 4.1 Example of list (3\*itemize)

- First item in a list
  - First item in a list
    - \* First item in a list
    - \* Second item in a list
  - Second item in a list
- Second item in a list

#### 4.2 Example of list (enumerate)

- 1. First item in a list
- 2. Second item in a list
- 3. Third item in a list