Linux For Embedded Systems

For Arabs

Course 101:

Introduction to Embedded Linux

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Lecture 6:
Installing Ubuntu

Choices for Ubuntu Installation

1. Booting from Ubuntu DVD
2. Installing Ubuntu alone on the machine
3. Installing Ubuntu along with Windows in a dual boot configuration
4. Installing Ubuntu inside a virtual machine
5. Other choices….

Virtualization
What ??

Virtualization Why??

Virtualization is used for:

- Running Multiple Operating Systems simultaneously
- Easier Software Installations
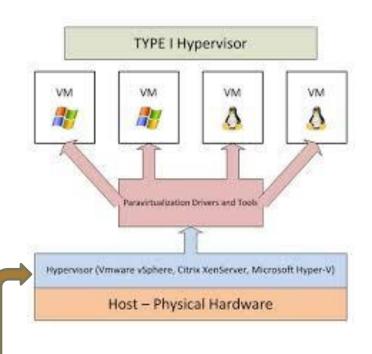- Testing and Disaster Recovery
- Infrastructure Consolidation
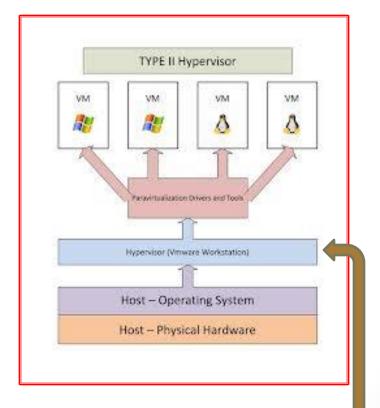
Virtualization How ?

- We can achieve virtualization via the use of a Hyper-visor
- Hyper-Visor is a software that can accommodate multiple virtual machines. Each VM can have its own OS
- There are two types of Hyper-visors,
  - Type One (Bare-Metal Hyper-Visor)
  - Type Two (Use of host OS)

Virtualization How ?

Hyper-Visor Acts as a light host OS   Hyper-Visor Acts as an Application

Installing Ubuntu

http://www.wikihow.com/Install-Ubuntu-on-VirtualBox

Download & Install Oracle Virtual Box

https://www.virtualbox.org/

Download Ubuntu

http://www.ubuntu.com/download/desktop

Create a New VM on VirtualBox

Start the VM and Install Ubuntu

Exploring Ubuntu GUI

http://Linux4EmbeddedSystems.com