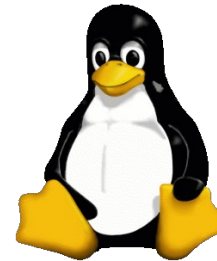Free Technology Workshop

BYO Server

Build your own virtual server for web hosting, email, VPN, gaming and more using:

Organised by Steven Gordon
SIIT Bangkadi Network Lab
1pm-4pm Friday 1 August 2014
http://ict.siit.tu.ac.th/moodle/

Virtual Private Server

- Server
  - Hardware: computer with main purpose of running server software
  - Software: applications that respond to client across Internet, e.g. Apache Web Server, MS Exchange Email Server, OpenVPN, SSH daemon, ...
- Web Hosting
  - Computer shared by multiple users to host websites
  - One computer, one OS, one web server, many websites
- Virtual Private Server
  - Virtual machine dedicated to single user
  - Real hardware is shared amongst multiple users, but effectively single user has a single real computer

VPS Providers

- Cost: Per month, Per hour

- Location of datacentres (real hardware)

- Network connectivity: Mb/s in and out

- Virtualized Hardware: CPUs, RAM, Disk space, HDD/SSD, Network Transfer

- Operating Systems

  – Most support Linux/BSD

  – Some also support Windows

- Applications/Images/Pre-built Systems

  – E.g. Wordpress already installed

- Support, Reliability, Contention, ...

- We will use DigitalOcean   (I also use linode)

Tasks Today

- I have created fresh droplets for each of you
  - Ubuntu Linux 14.04 with LAMP
- Together we will:
  - Setup the droplet, add a user
  - Setup Apache Web, MySQL servers
  - Install Tor relay, PPTP server, OpenVPN server
  - Test and play!

Price of a Droplet

- $5 = B160 per month
- < 25 satang per hour

- Today your droplet is free (for at least 2 weeks)
- All droplets created under my account
  - Don't use it for bad things
- If you want to keep using, you need to create your own account