

ECS 150 Discussion Section

Setting up FreeBSD and Virtual Machines

What's FreeBSD

- ▶ A free derivative Operating System from BSD. (A flavor of UNIX® OS developed at UC Berkeley)
- ▶ <http://www.freebsd.org>
- ▶ Latest version is 6.2 or 5.5 In this class we'll use 5.4 (used in the last 150 taught)
 - ▶ Get ISO image at <http://www.cs.ucdavis.edu/~wu/freebsd/>



Virtual Machines?

- ▶ Virtual machine is a software that mimics hardware device.
- ▶ VM software allows you to have a virtual computer hosted inside another computer. (For example, having Windows machine running inside a Xen VM in Linux)



Why do we use Virtual Machine?

- ▶ Because in this class, we will be modifying FreeBSD kernel.
- ▶ Not all of you have an extra computer you can do a clean install of FreeBSD every other time you accidentally destroy your kernel.



Available Virtual Machine

- ▶ Windows VM software: VirtualPC (Free download from Microsoft)
 - ▶ <http://www.microsoft.com/windows/downloads/virtualpc/>
 - ▶ Linux VM software: XenExpress (Free download from Xensource)
 - ▶ http://www.xensource.com/products/xen_express/
 - ▶ Windows/Linux: VMware Player (Free download from VMware)
 - ▶ http://www.vmware.com/products/free_virtualization.html
 - ▶ Intel-Mac user: Parallels desktop (\$79.99)
 - ▶ <http://www.parallels.com/en/products/workstation/mac/>
 - ▶ Intel-Mac user: VMware Fusion Beta.
 - ▶ <http://www.vmware.com/products/beta/fusion/>
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VMwarePlayer Demo

- ▶ Get FreeBSD image at
 - ▶ <https://mu.cs.ucdavis.edu/~fhsu/freebsd/freebsd-img.zip>

