

Windows concerns in a Mac office

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Subtitle: Running Windows and other OS's on apple hardware

Why Windows?

- ✱ It's the software!
- ✱ Switchers
- ✱ The one piece of industry specific, mission critical software that your customer can't live without

Give examples:

Quickbooks

City of Heros

Exchange -- Kerio mail server, Zimbra are alternatives

Active Directory

You have options

- Boot Camp
- VMWare
- Parallels
- CrossOver
- Virtual Box

What you need

- *Intel Based Mac
- *Windows License(s)
- *Sufficient RAM

1. Show of hands for people on non intel hardware

Boot Camp

- * Boot your Mac to Windows
- * When you need full access to the hardware
- * Fully Supported From Apple
- * <http://www.apple.com/support/bootcamp/>

Boot Camp Advantages

- * Mac Becomes a PC
- * Functionality
 - * Full Processor Speed
 - * Full Video

Boot Camp Disadvantages

- * Have to reboot
- * The machine is now a PC, subject to malware and security issues
- * File transfer can be an issue
 - * No built in method for file transfer
 - * <http://www.macwindows.com/disks2.html>

Windows Bootcamp partition is NTFS

cannot read or even see the Mac partition

Mac OS

Requires 3rd party software to transfer files back and forth

can see the Boot camp partition but can't write to it.

Opensource software can fix both of these issues

MacFuse--read NTFS from MacOS

<http://code.google.com/p/macfuse/>

Opensource--nothing commercial yet

HFSExplorer 0.17--read Mac volumes from a PC

<http://hem.bredband.net/catacombae/hfsx.html>

Virtualization

- * Runs Windows like any application
- * A few products available
 - * VMWare
 - * Paralells
 - * VirtualBox

Virtualization Advantages

- * Runs Windows and Macs side by side - No reboot
- * Working with a disk image
- * Can run a number of VM's at once
- * Can more easily share files between a Mac and PC
- * Networking has more configuration options

1. Runs Windows and Macs side by side – No reboot necessary
 - a. Can run your Boot Camp partition as a VM
2. Can run a number of VM's at once – great for server implementations
3. Can Easily share files between a Mac and PC – no reboot
4. Working with a disk image
 - a. move images back and forth
 - b. useful for testing configurations and making backups
 - c. can import an existing PC into a VM
5. Networking has configuration options
 - a. host, bridged or not on the network

Virtualization Disadvantages

- * Still running windows
- * Graphics
- * Sharing an OS

1. Still running windows
 - a. Subject to virii, malware and whatnot
 - b. Subject to the same issues a PC would on your network
2. Graphics
 - a. using a graphics card in emulation
 - b. graphics intensive applications may run poorly
3. Sharing an OS
 - a. Running an OS may cause Mac applications to run very slowly

VM Ware

- * <http://www.vmware.com/products/fusion/overview.html>
- * Software giant
- * Huge appliance Library
 - * <http://www.vmware.com/appliances/>

Full disclosure: I flipped a coin
Pat Lee got me this gig

Parallels

- * <http://www.parallels.com/products/desktop/>
- * See the benchmark article
- * Has a mac server product for running multiple VM's

1. Full disclosure

- a. used to have the ability to change MAC address and not Vmware, now they both have it
- b. We host our Mac OS X servers on a parallels server

Compare!

- * <http://www.mactech.com/2011/01/05/virtualization-benchmarks>
- * <http://www.parallels.com/products/desktop/reviews/>
- * http://www.vmware.com/files/pdf/fusion_datasheet.pdf

Neil already did the work for me, so I will point you at the right place and you can make the comparison yourself.

Note that I don't have a slide on Virtual Box

3rd Option - Cross Over

- * <http://www.codeweavers.com/products/crossover/>
- * WINE implementation
- * NOT windows
 - * Will allow you to run windows applications
 - * Won't do windows things on your mac, like VPN or Directory integration

1. previous versions have been hard to work with, now a viable alternative

Mobility Options

- * All iOS all the time
 - * Terminal Services apps
 - * VNC apps
- * Different than ARD

Term services: remote login to a windows machines, multiple simultaneous logins
VNC is a console login

Windows Challenges

- * Viruses, malware, and other critters

- * <http://antivirus.about.com/od/antivirussoftwarereviews/tp/aamacvir.htm>

- * Security

- * Updating the OS

1. Viruses, malware, and other critters
 - a. Virtualization software comes with malware licenses
 - b. More licensing needed
 - c. check the reviews and plan accordingly
2. Security
 - a. come up with a plan, any plan
3. Updating the OS
 - a. time to run the updates and bandwidth issues
4. Don't be a snarky mac user, there will be virii

Best practices

- * Make an image of your Boot camp partition
- * Make a snapshot of your VM
- * Store your working data on a non-windows partition
- * Apply windows security best practices

1. Make an image of your Boot camp partition
 - a. winclone has been discontinued
 - b. clonezilla is an alternative
 - c. Deploystudio
2. Make a snapshot of your VM
3. Store your working data on a non-windows partition
 - a. Sometimes you can't do that
4. Apply windows security best practices

Q&A

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