

Throw away your PC – run your desktop from a USB flash drive

John Whaley, Co-Founder and CTO

mokafive

Why carry your desktop on a USB drive?

- My laptop is:
- Too heavy
- Too bulky
- Too expensive
- Dangerous to lose
- Not powerful enough
- Storing everything on the web:
- Too cumbersome
- Can't use my normal applications
- Don't always have network connection
- Network is too slow
- I don't trust Google
- Solution: Carry your computer on a USB flash drive



Run anywhere using virtualization



- Use *virtualization* to use same image on any x86 hardware (PC or Mac)
- Carry your OS, applications, and data with you no network required



Compression

- Use image compression
- Decompress on-the-fly: improves flash performance
- Optimize virtual machine image
- Most drivers unnecessary
- System restore points, uninstall scripts redundant with VM snapshots
- Page file can be empty
- Zero free space
- End result of compression techniques:
- Barebones Windows XP: about 100MB
- XP plus Office 2007: about 1GB
- Windows Vista Ultimate: about 3GB



Security issues

- What if I lose my USB drive?
- Store the data encrypted so no one can access it
- Keep a backup of the contents on a machine or in the network
- Can remotely "self-destruct" data when USB drive is marked as lost
- Protection from malware
- Separate system and user data, revert to golden system state on every reboot
- Run in secure virtual environment not affected by malware on host
- Boot from USB drive into secure Linux avoid software keyloggers
- Keeping up-to-date
- Administrator posts updates to system state on server
- Automatically download updates in the background (only deltas)
- Start using latest version on every reboot



FREEDOM COMPUTING

Nomo

© Copyright 2008 Moka5 Inc.



Virtualization Use Cases



Disaster Recovery



Secure Remote Access

Provision users during disaster recovery operationsSet up temporary offices quickly and easily

•Enable remote and guest workers to gain access to corporate network



Secure Mobile Workforce

Work from anywhere, on any hardware, and any OSMaximize productivity without sacrificing security