

Technology in Action



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Technology in Focus:
Protecting Your Computer and
Backing Up Your Data

Physically Protecting Your Computer

- Environmental factors
 - Falls
 - Excessive heat
 - Dust and other particles
- Power surges
 - Surge protectors
- Power outages
 - Uninterruptible power supply (UPS)



Deterring Theft

- Motion alarms
- Locks
- Surrounds (cages)
- “Phone home” computers



Keeping PDAs and Cell Phones Safe

- PDA Bomb Software
 - Thief steals PDA
 - Thief launches a brute force attack on device to get access
 - PDA senses attack and erases data
- Bluetooth Vulnerability
 - Bluesnarfing
 - Exploits an access flaw in Bluetooth software making data vulnerable
 - Bluebugging
 - Hacker takes actual control of the Bluetooth device



Protecting Your Computer from Unauthorized Access

- Access privileges
- Password protection
 - Passwords should
 - Contain 5 to 8 alphanumeric characters
 - Not be a word found in a dictionary
 - Not be easily associated with you
 - Include special characters
 - Never be given to anyone

GOOD AND BAD PASSWORD CANDIDATES			
GOOD PASSWORD	REASON	BAD PASSWORD	REASON
L8t2me	Uses letters and numbers to come up with memorable phrase "Late to me"	Jsmith	Combination of first initial, last name
IWALR	First initials of first line of Green Day song <i>I Walk a Lonely Road</i>	4smithkids	Even though this has alphanumeric combination, it is too descriptive of a family
P1zzA	Easily remembered alphanumeric word with mix of characters and upper-/ lowercase letters	Brown5512	Last name and last four digits of phone number is easily decoded
S0da&IC	Mix of numbers, characters, and letters. Stands for "Soda and Ice Cream"	123Main	Your street address is an easily decoded password

Protecting Your Computer from Unauthorized Access

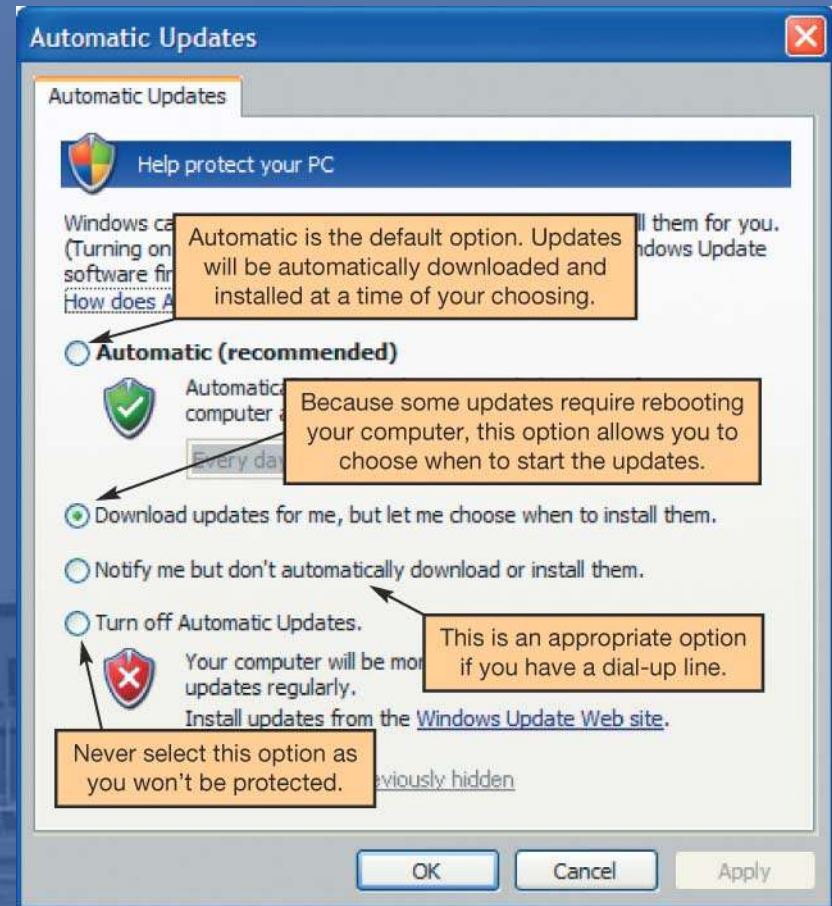
- Biometric authentication devices
 - Read unique personal characteristics
 - Fingerprint
 - Iris patterns
 - Voice patterns
 - Face patterns
- Firewalls
 - Prevent unauthorized access when connected to the Internet

Mouse fingerprint reader



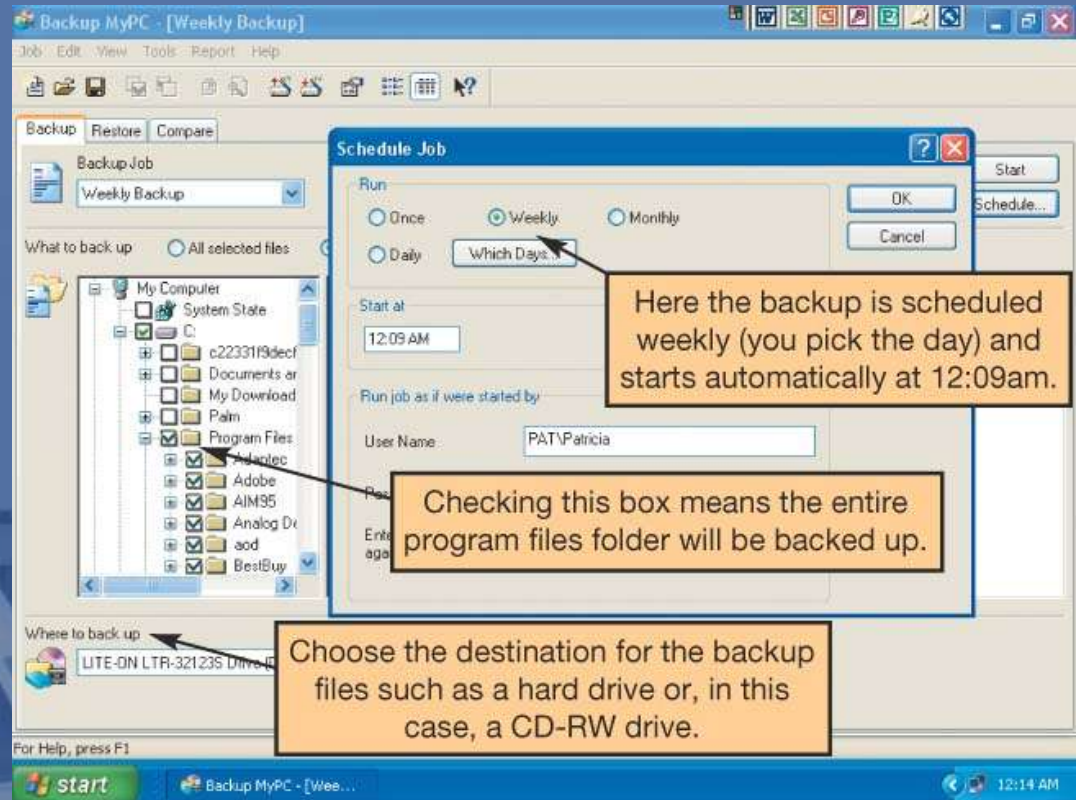
Windows Updates

- Microsoft frequently issues updates to patch security holes
- In Windows XP, updates can be automatically loaded



Backing Up Your Data

- Backup
 - A copy of a file that can be used to replace the original
- Types of files to backup
 - Program
 - Data
- Backup routine
 - Frequency
 - Changed files



Protection from Phishing

- Phishing attacks lure you to Web sites that look legitimate
- Free tools identify suspicious sites.
- Credit card providers offer services like “Virtual Account Numbers” for their customers

The Cloudmark SafetyBar shows this site's rating here. Because the rating is a green smiley face, it means it is trusted by the Cloudmark Community.

Found a suspicious site? Click the block button to vote to block it from others' view.

Sites can have three different ratings: good, unknown, or unsafe.

Be wary of sites rated Unknown or Unsafe. The SafetyBar will block Unsafe sites from being loaded in your browser.

Site Ratings
Cloudmark's anti-fraud toolbar provides you with a rating so you know if the page is

What Each Site Rating Means

- Good**
A "Good" rating means that the Cloudmark Community and Service have evaluated this page and found its content to be safe.
- Unknown**
An "Unknown" rating means that this page had not yet been evaluated by the Cloudmark Community or Service and you should proceed with caution.
- Unsafe**
An "Unsafe" rating means that the Cloudmark Community and Service have found that this page could be dangerous and harmful to your computer. We do not advise that you open this page or exchange any personal or confidential information.

Backing Up Your Data

- Backup software
 - Schedule automatic backups using XP backup program
- You can make a complete image of your hard disk also by using Norton "Ghost"

