

# Malware

## Malware Topics

- ▣ What is malware?
- ▣ What does it look like?
- ▣ How can you stop it?

## Types of Malware

- ▣ 6 types:
  - ▣ Viruses
  - ▣ Worms
  - ▣ Trojans
  - ▣ Rootkits
  - ▣ Spyware
  - ▣ Adware

## Types of Malware

- ▣ Virus
  - ▣ Attaches itself to existing files and runs the virus code whenever the host is accessed/run
  
- ▣ Worm
  - ▣ A standalone program that deliberately tries to exploit vulnerabilities in order to spread to more machines

## Types of Malware

- Trojans
  - A 'virus' that needs to be run in order to do damage
  
- Rootkit
  - Usually exists for the sake of hiding itself, and possibly opening some back doors
  
  - Might work with a trojan in order to help disguise itself and spread

## Types of Malware

- Spyware
  - Software that hides on your computer in order to 'spy' on you. Possibly monitor keystrokes, record websites, etc.
  
- Adware
  - Similar to spyware but designed to redirect you to certain websites (advertising) or display popups

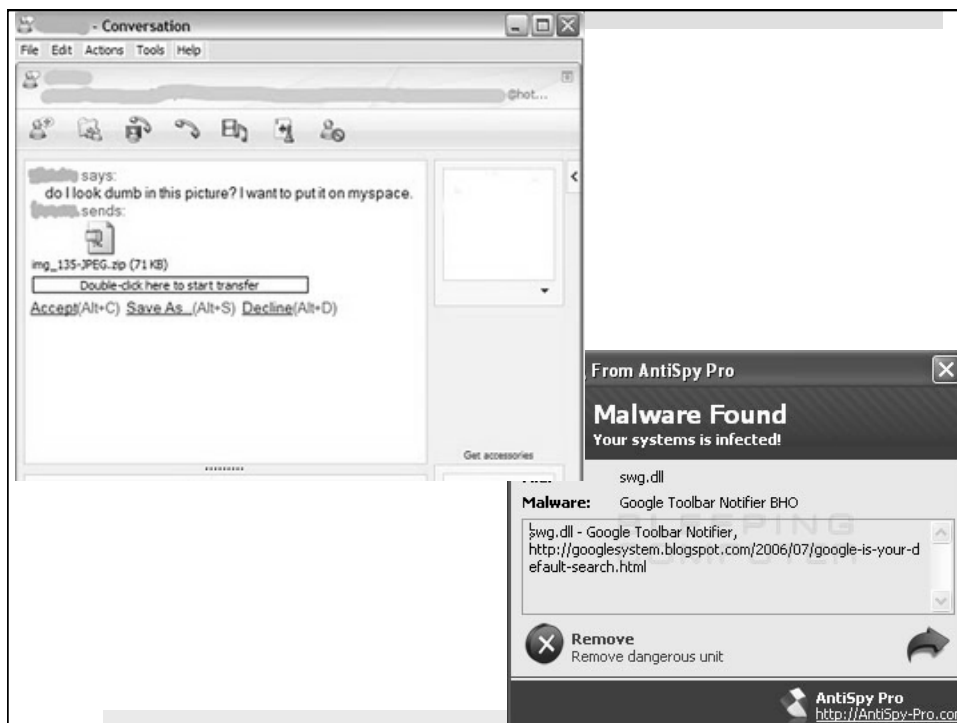
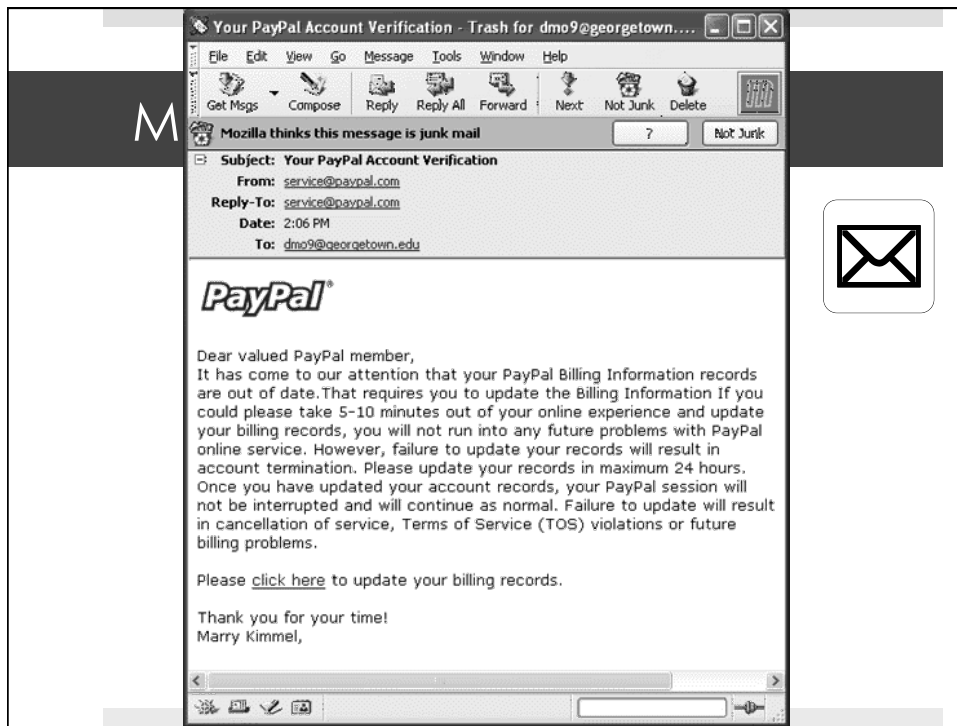
## What do they do?

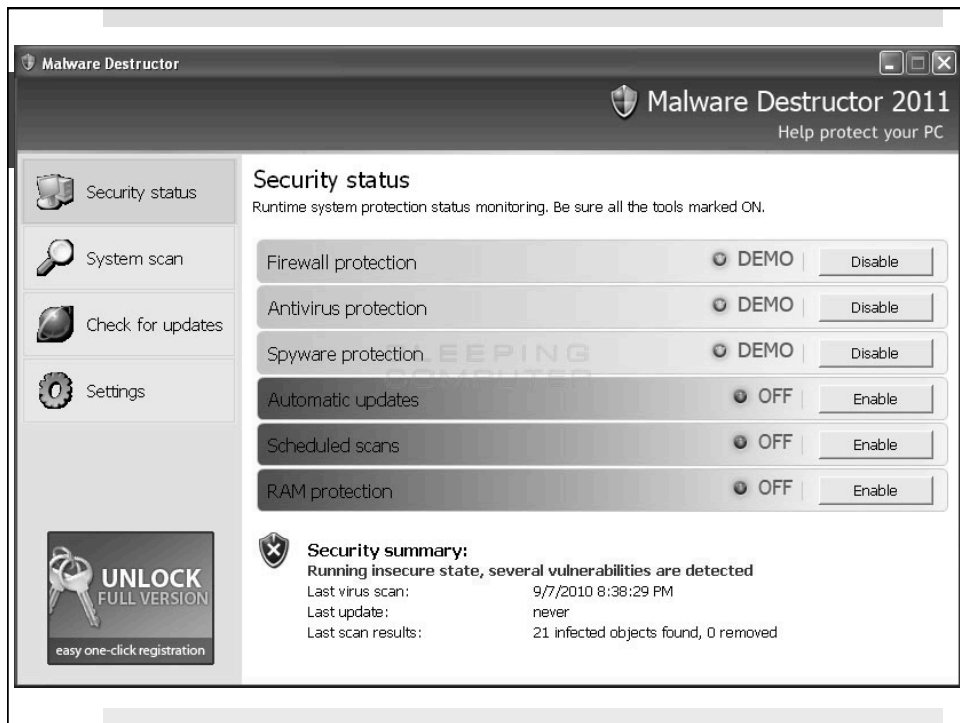
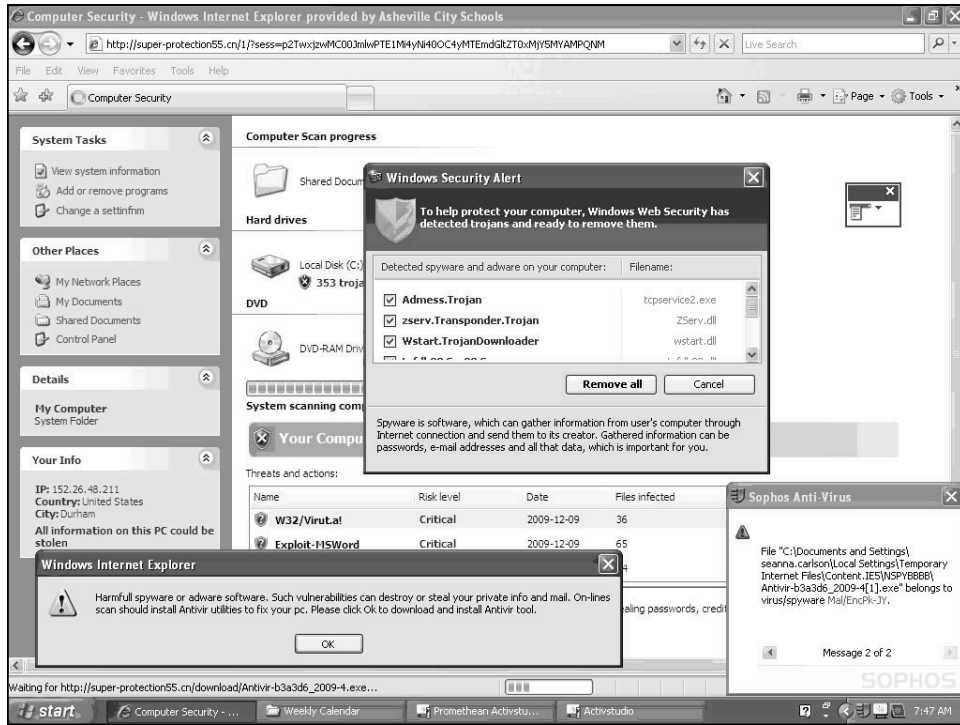
- ❑ Copy themselves into other files
- ❑ Execute various 'payloads'
- ❑ Delete files
- ❑ Do something on a particular day
- ❑ Spread themselves (worm, or email virus)

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## Prevent Malware

- ❑ How can you catch one?
  - ❑ Which way?
    - ❑ USB Thumb Drive
    - ❑ CD / DVD
    - ❑ Downloaded from Internet
    - ❑ From network (school or work)
    - ❑ In an email
    - ❑ In an instant message





## Prevent Malware

- ▣ Avoid downloading every little installer
  - ▣ Consider what you are installing
  
- ▣ Avoid programs downloaded via P2P networks (kazaa, limewire, torrents, etc)
  
- ▣ Install anti-virus, such as AVG
  
- ▣ Install anti-malware software such as MalwareBytes

## Other threats

- ▣ Hoax
  - ▣ Usually an email that gets passed along by unsuspecting computer users who receive and forward it on to their friends.
  
- ▣ Chain Letter

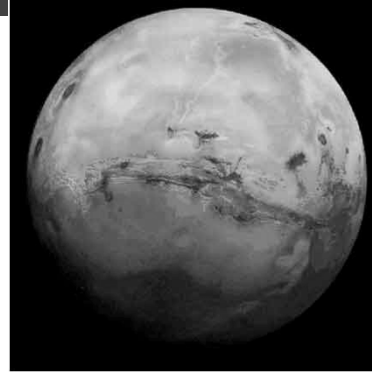




## Example Hoax Email

On ... Mars will look as large as the moon.

- ❑ Lots of technical detail
- ❑ All kinds of information
- ❑ Sensational
  - ❑ "Once in a 1000 years!"
  - ❑ "No one alive will see this again!"



## Worried?

- ❑ Check out [snopes.com](http://snopes.com)
- ❑ Check out [hoaxbusters.org](http://hoaxbusters.org)
- ❑ Contains info about
  - ❑ Hoax emails
  - ❑ Urban legends
  - ❑ Fake news reports
  - ❑ Chain Letters



## To Review

- ▣ 6 Different forms of malware
  - ▣ How are they different?
- ▣ Use Anti-virus
- ▣ Use Anti-malware
- ▣ Hoaxes / Chain Letters
  - ▣ Don't send them!