Combing the Desert

Forensic Analysis to Identify Malware Infections

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Overview

- Malware Definitions
- Identifying Symptoms
- Containing the Threat
- When to ask for help
Malware Definitions

• Spyware
  o Gathers information for advertisement purposes
  o Sometimes called adware
  o Created by businesses that want to know their customers' browsing habits
Malware Definitions

- Viruses / Worms
  - Self-replicating applications
  - Created by malicious programmers for a variety of nefarious purposes
Malware Definitions

- Remote Access Trojans
  - Server applications that operate covertly
  - Created by malicious programmers to give them a means to get back in to a system once compromised
Malware Definitions

- Rootkits
  - Hard to detect
  - Created by programmers with advanced knowledge of system internals
  - Known to run for years unnoticed
Infection Symptoms

- Slow system performance
- Home page hijacking
- Excessive pop-up ads
- Crashes
- Some websites don't work (Antivirus sites)
- Unexplained hard drive activity
Detection Tools

- Task Manager
- Regedit
- Process Explorer
- Netstat
- Rootkit Detectors
Malware Demonstration
Containment

- Remove the system from the network
- If the system contains sensitive data, STOP!
  - Call your Information Security Officer
- Back-up critical data to external storage
- Reformat Hard Drive
- Reinstall Operating System