

Oh RATs!!

A look at Remote Access Trojans

What about RATs?

No, we're not talking about the Animal.

We are talking about:

- Remote Access Trojans
- Remote Access Tools
- Remote Administration Tools
- Backdoors
- Trojan Horses

Commonly referred to as RATs



So what is a RAT?

Piece of software that allows a remote operator access to and/or control over a computer system as if physically present with the system.

https://en.wikipedia.org/wiki/Remote_administration_software

So these things are bad?

Nope

- Virtual Network Computing (VNC)
- PCAnywhere
- GoToMyPc
- Remote Desktop Connection
- Net Cat
- ETC ...

So they are ... good?

Nope

- NetBus
- Back Orifice
- Sub Seven
- Poison Ivy
- Dark Comet
- Meterpreter
- Net Cat
- ETC ...

Okay, but what do they do?

Common Functionality:

- Screen/Camera capture
- File Management
- Command Prompt Access
- Power Control (Shutdown / Restart)
- Registry Editing / Querying
- And More ...

How Do They Work?

Client / Server Architecture

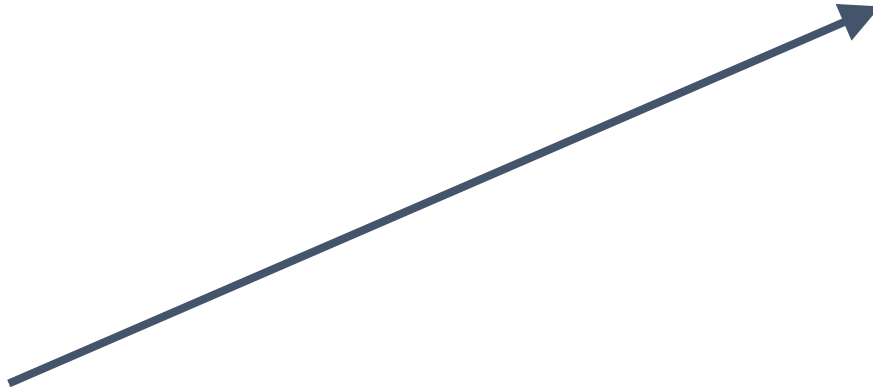
Hacker

- Command & Control
- Client



VICTIM

- Malicious Application
- Server



NetBus “NetPrank”

- Keystroke logging
- Keystroke injection
- Screen captures
- Program launching
- File browsing
- Shutting down the system
- Opening / closing CD-tray
- Tunneling protocol

Back Orifice / BO2k

- GUI Client Interface
- Authored by Cult of the Dead Cow
- Debuted at DEFCON 6 and 7
- Plugin Architecture (BO2k)
 - Encrypted communication
 - File and Registry Control
 - Desktop viewing (Streaming Video)
 - Chat
 - Tunneling
 - Mouse and Keyboard Control / Logging
 - Hiding things from the system (based on FU Rootkit)



Sub Seven (Sub7)

- GUI Client
- Recording
 - Audio
 - Screen
 - Webcam
- Cached / Recorded Passwords
- Take over ICQ account
- Pranks:
 - changing desktop colors
 - opening and closing the optical drive
 - swapping the mouse buttons
 - turning the monitor off/on
 - “text2speech” voice synthesizer
 - Matrix style chat “Hello Neo”



Dark Comet

- Spy Functions
 - Webcam Capture
 - Sound Capture
 - Remote Desktop
 - Keylogger
- Network Functions
 - Active Ports
 - Network Shares
 - Server Socks5
 - LAN Computers
 - Net Gateway
 - IP Scanner
 - Url Download
 - Browse Page
 - Redirect IP/Port
 - WiFi Access Points
- Computer Power
 - Poweroff
 - Shutdown
 - Restart
 - Logoff
- Server Actions
 - Lock Computer
 - Restart Server
 - Close Server
 - Uninstall Server
 - Upload and Execute
 - Remote Edit Service
- Update Server
 - From URL
 - From File

Dark Comet

- Fun Features
 - Fun Manager
 - Piano
 - Message Box
 - Microsoft Reader
 - Remote Chat

History

- Syria
- Target Gamers, Military and Governments
- Miss Teen America
- Je Suis Charlie

Poison Ivy

- Typical Windows RAT abilities
- Encrypted Communications
- Poison Ivy builder kit
 - Custom Password
 - Custom Port

History

- admin@338
- th3bug
- menuPass
- RSA / SecureID
- Nitro
- “strategic web compromise”

DEMO TIME

Thank You!

Any Questions?

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