Hacking Phases

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What is the MOST secure system?

The one that is never built

You Can't Stop "Them"

Your job is to discourage, misdirect and slow them down

You Can't Stop "Them"

Time is NOT on your side

You Can't Stop "Them"

Attacker only has to find 1 opening

You have to cover all of them

The Phases

Reconnaissance

Scanning

Gaining access

Maintaining access

Clearing tracks

Phase 1) Reconnaissance

Passive

- No direct interaction with the target

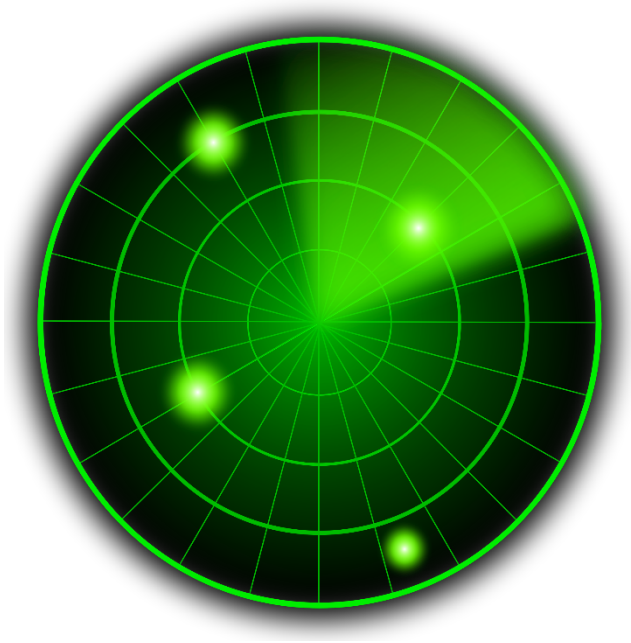
Active

- Direct interaction with the target

Which Type of Reconnaissance

- Port Scanning
- Checking Public Records
- View Facebook/LinkedIn Page
- Ping
- Calling the Office and Asking Questions
- Help Wanted Ads
- Dumpster Diving
- Doing a "Whois" Lookup
- Checking a Registrar for DNS
- Using the "WayBackMachine"
- Calling the HelpDesk as an Employee
- Social Engineering

Phase 2) Scanning



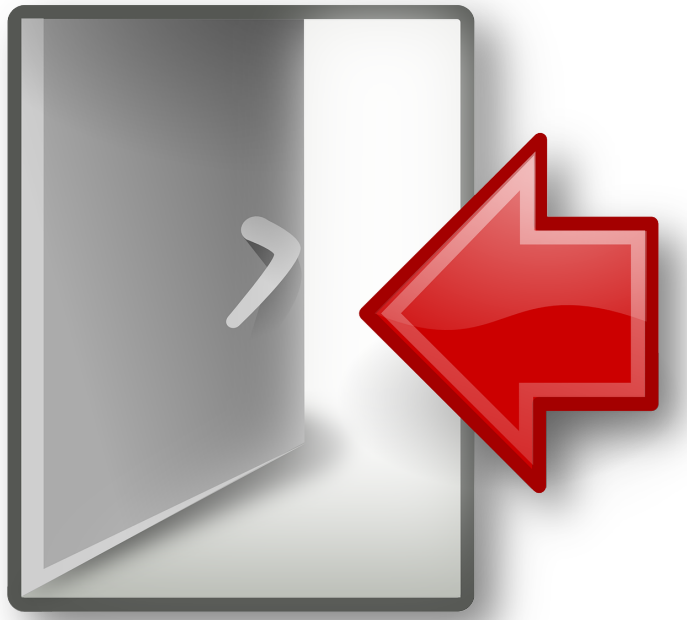
Gather Info

- ID systems
- Vulnerabilities

Tools Used

- Port Scanners
- Vulnerability Scanners

Phase 3) Gaining Access



Path

- Via network
- Via OS
- Via application
- Our goal?
  - To escalate privileges

Phase 4) Maintaining Access

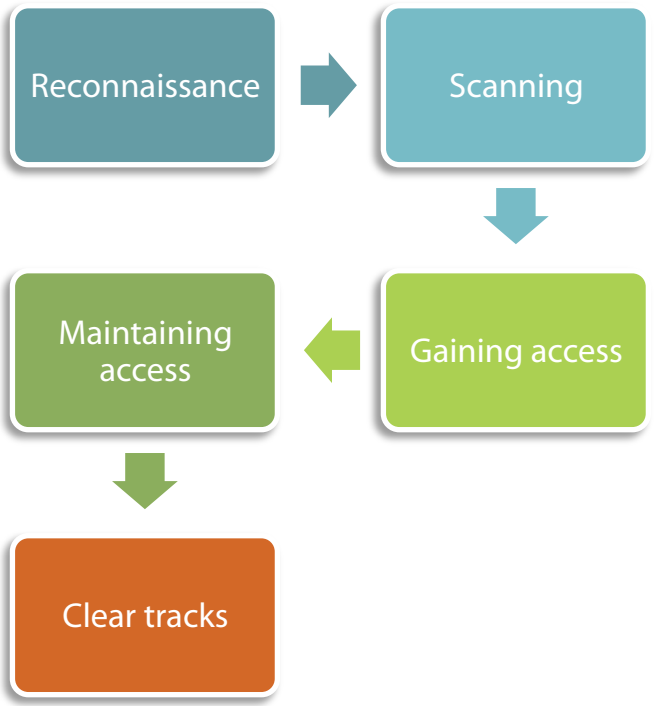
- PWNing the system
- Use system as a launch pad
- Inject Backdoor/Trojans
  - Used to revisit
  - Used to sniff/monitor network
- Use resources
- Harden up

Phase 5) Clearing Tracks

"These are not the drones that you were looking for…"

- Destroy proof
- Hide my stuff
- Cyber blind

Summary



- Reconnaissance
- Scanning
- Gaining access
- Maintaining access
- Clear tracks