Three Goals

• Set up basic tools and software packages,
• Get familiar with basic Linux commands, and
• Refresh your memory about basic networking tools
Goal 1: Setting up a VM

• This activity mentions some software packages to be installed.

• Note:
  • You don’t need to install gef or nasm for this lab, but they need to be ready by next lab.
Goal 2: Exploring Linux Commands

• Explain the functionality of some Linux commands
• Then, running/implementing some programs:
  • Ping Sweep
  • Using Wireshark
  • Running a Reverse Shell
Ping Sweep

Your program

Network
(a.b.c.0/24)

a.b.c.10

a.b.c.89

a.b.c.105
Using Wireshark

- Exploring the traffic after running a `dig` command
Running a Reverse Shell

- After gaining an access, an attacker wants to control the victim machine remotely.

```bash
$ ls ~/Desktop
file1 file2 ...
```
Goal 3: Some Networking Tools in Action

• This activity has a machine deployed on the Internet.
• Your task is to gain a secret key from that machine without logging to that machine.
Goal 3: Some Networking Tools in Action

- Visit this web page: http://34.125.87.88:8080/
Questions?