

SFU

SIMON FRASER UNIVERSITY
ENGAGING THE WORLD

Cybersecurity Lab II

Lab 1

Three Goals

- Set up basic tools and software packages,
- Get familiar with basic Linux commands, and
- Refresh your memory about basic networking tools

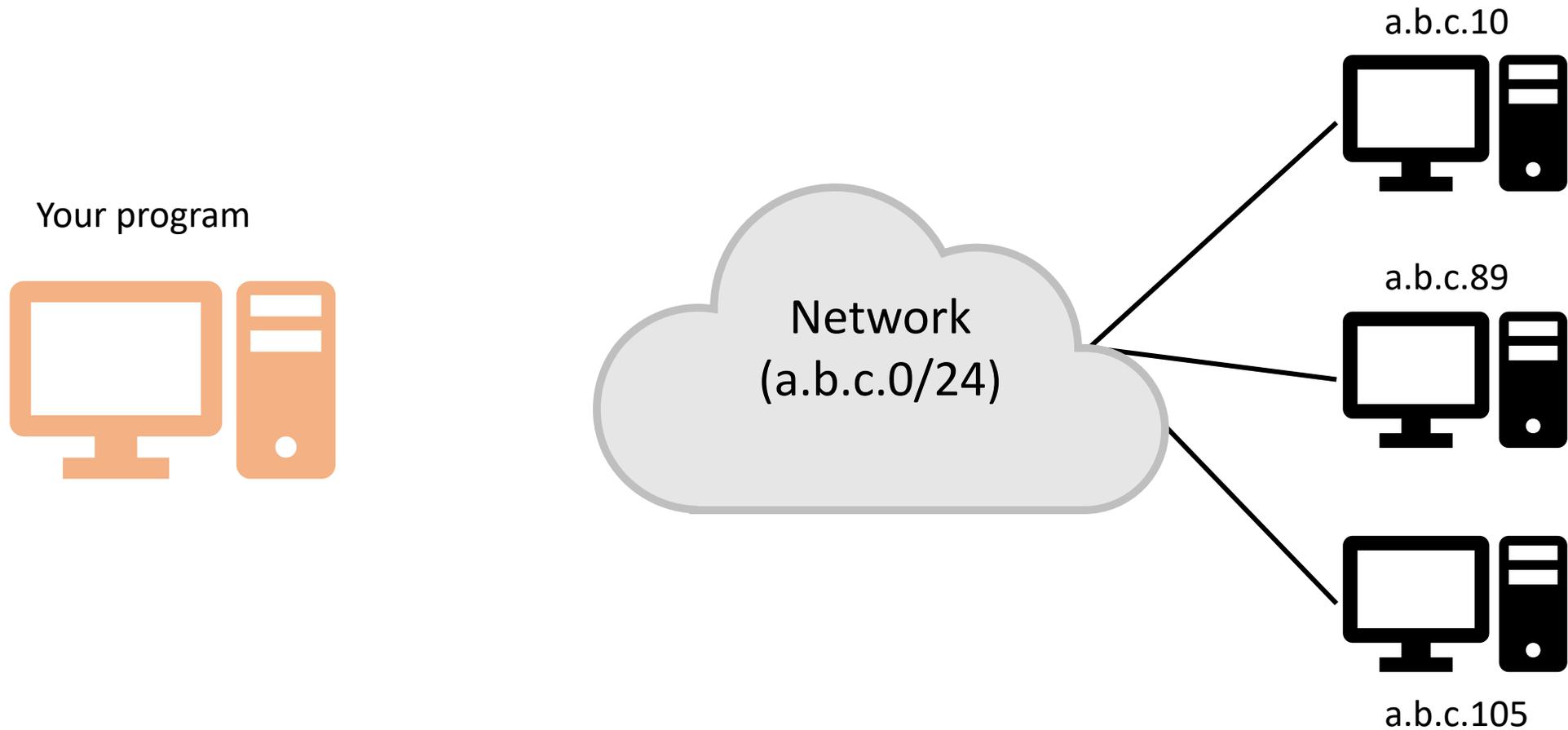
Goal 1: Setting up a VM

- 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



Using Wireshark

- Exploring the traffic after running a `dig` command

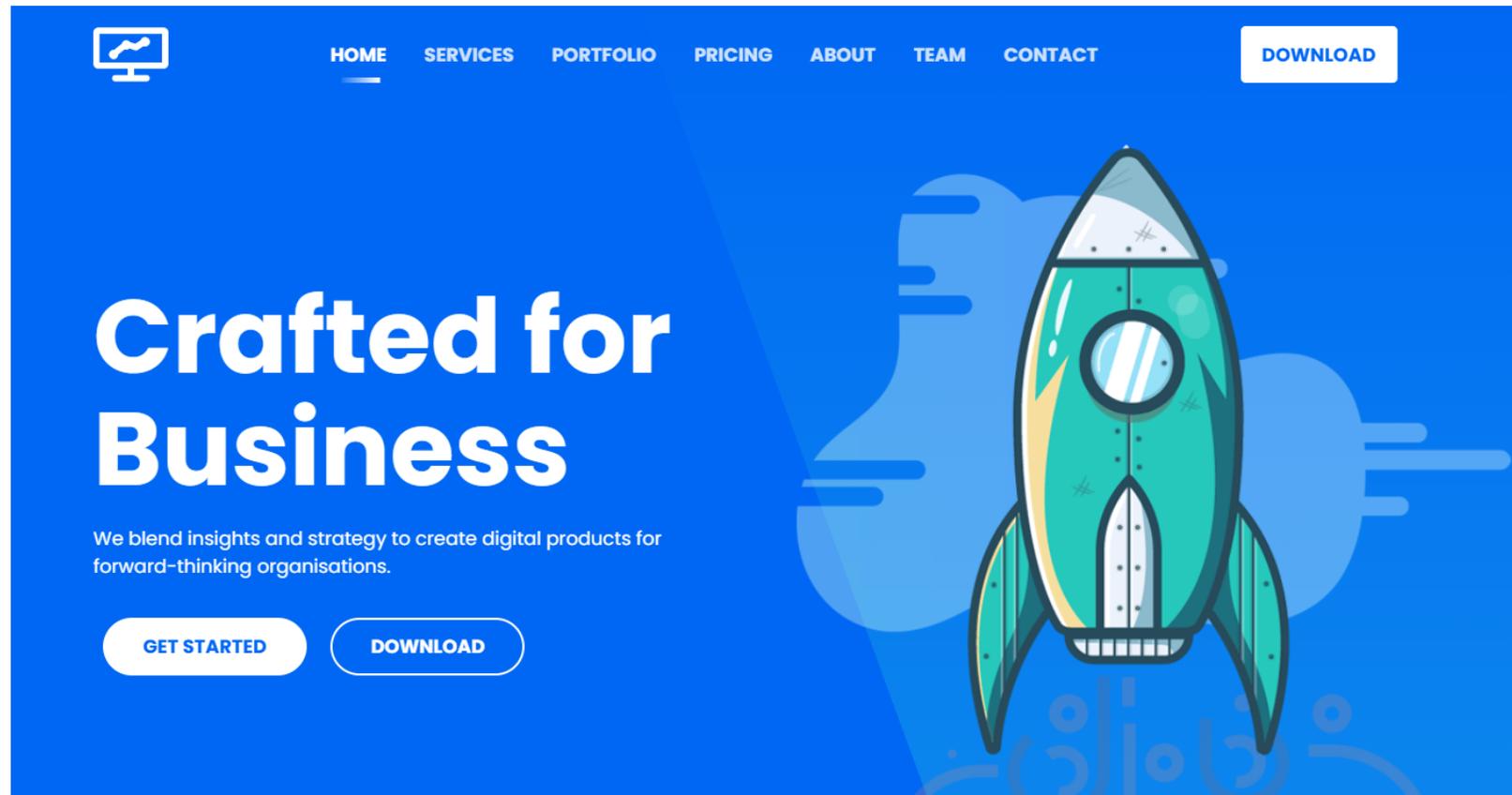
Running a Reverse Shell

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



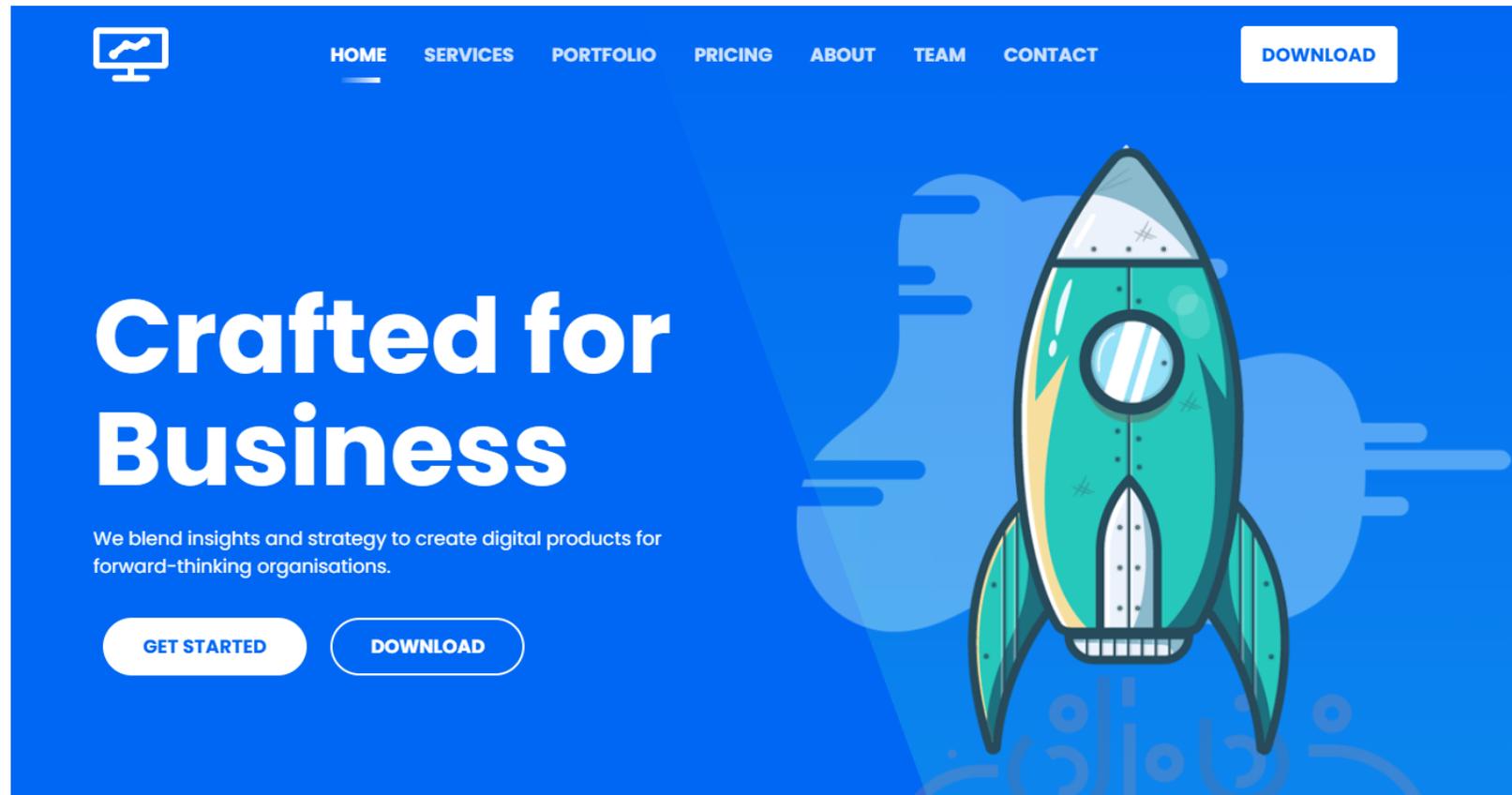
Goal 3: Some Networking Tools in Action

- 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?
