

Cyber Security Professional Program

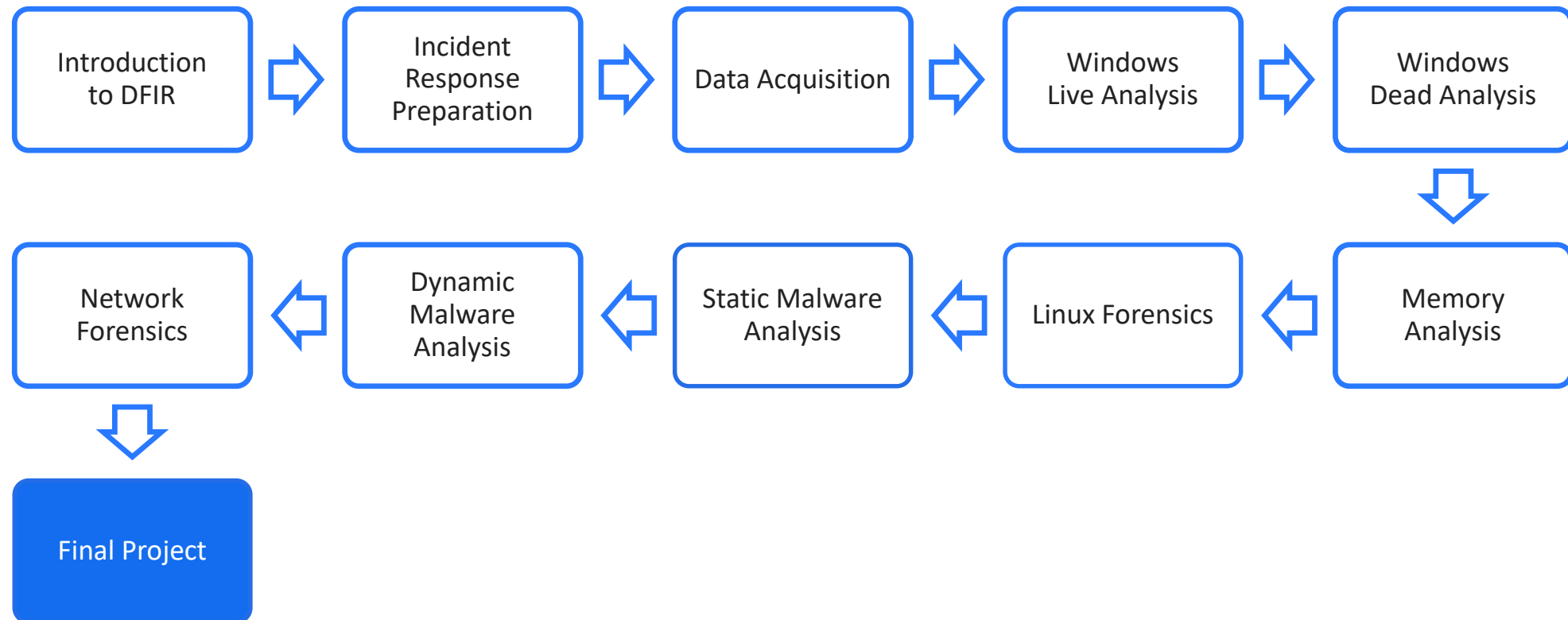

Final Project

Digital Forensics & Incident Response



Digital Forensics & Incident Response

Course Path



The logo features three hexagons. The top-left hexagon is white with a blue outline. The bottom-left hexagon is white with a blue outline. The bottom-right hexagon is solid blue with a white target icon. To the right of the hexagons, the text "DFIR Final Project" is in a small, grey, sans-serif font, and "Objectives" is in a large, bold, blue, sans-serif font.

DFIR Final Project Objectives

This is a presentation for the final project of the course.
The project focuses on using multiple forensics techniques to solve the challenge of investigating malware and its activity.

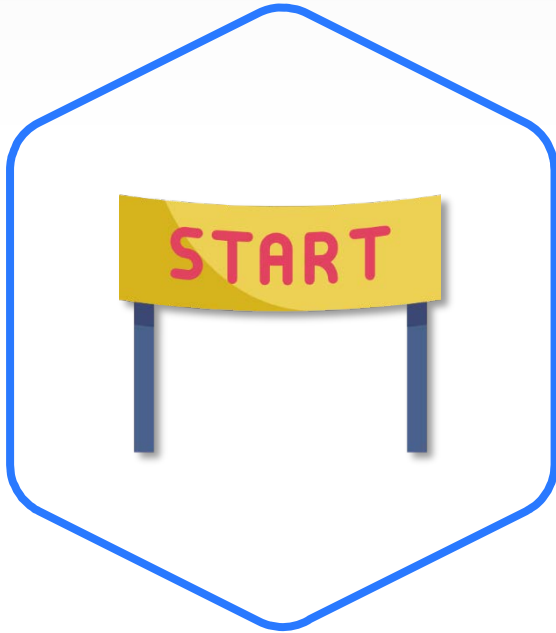
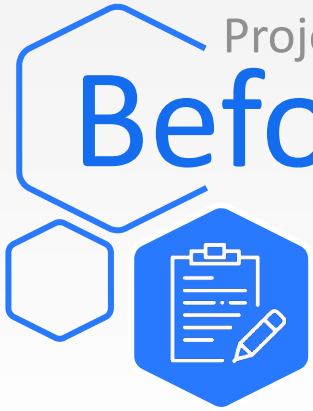
- ◆ Project Requirements
- ◆ Project Steps



Final Project

Project Requirements

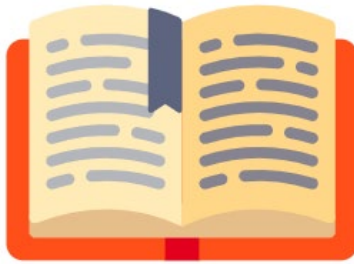
Before You Start



- Download all the necessary files (3).
- Make sure your investigation environment is set up and ready.

Virtual machines in the environment should have snapshots of all the major stages.





The challenge includes three stages:

- ◆ Identify the beginning of the attack.
- ◆ Identify malicious activity in the VM.
- ◆ Unlock the final file.

Each stage in the challenge must be solved before moving on to the next stage.



Final Project

Project Steps

Pcap Investigation



Investigate the pcap file.
Did you find anything suspicious?



Extracting Logs



Use Zeek to extract valuable information from the pcap file.



Locate the Malware



Locate the malicious file in the captured data.

Identify the Malware



Study and identify the nature of the malicious file.



Discover how the Attack Began



Find evidence of malicious activity in the pcap file, and find the first packet of the attack.

Investigate the VM



Start investigating the infected machine (192.168.23.130) in VMWare Player (download and install the free version).

The sequence of the first malicious packet is the password.

Identify Backdoors



Identify any backdoors the attacker may have left.




Identify the Malware 2



Investigate the second malware.

Project Steps

Follow the Hint

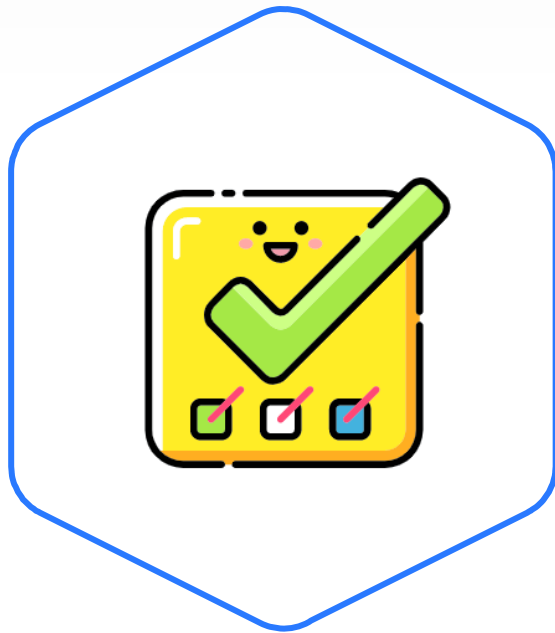


Follow the hint in the executable.



Project Steps

Finish Part 2



Finish the investigation of the second part.

Complete the Challenge



Use the information obtained from the investigation to unlock the last piece of the challenge (investigate_me3.bin).



Thank You

Questions?