

HackerFrogs Afterschool

Digital Forensics Intro

Class:
Digital Forensics

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None



Welcome to HackerFrogs Afterschool!

HackerFrogs Afterschool is a cybersecurity program for learning beginner cybersecurity skill across a wide variety of subjects.

This is the intro to digital forensics.



What is Digital Forensics?

According to Wikipedia, digital forensics is a branch of forensic science encompassing the recovery, investigation, examination and analysis of material found in digital devices, often in relation to mobile devices and computer crime.



What is Digital Forensics?

The study of digital forensics (sometimes called dfir, or forensics) in cybersecurity often deals with locating and analyzing important data contained within specific types of files, entire filesystems, or within computer memory storage



What is Digital Forensics?

In our workshops, we'll be learning how to conduct forensics on different file types, including digital picture files, system memory files, and disk image files



What are CTFs?

HackerFrogs
Afterschool classes
prefer to incorporate
CTF games into
classes for a more
interactive
experience, but
what are CTFs?



What are CTFs?

Cybersecurity Capture The Flag (CTF) games are training exercises where the goal of the exercise is to “capture the flag” through use of cybersecurity skills



What are CTFs?

In this context,
“capture” means to
gain access to a file
or other resource,
and “flag” refers to
a secret phrase
or password



Pico CTF

The CTF game we will be playing to learn basic digital forensics is called Pico CTF, which is one of the most well-known and well-respected CTF games, and is affiliated with Carnegie Mellon University



Pico CTF

The Pico CTF game is made up of many challenges across different categories and difficulty levels. For our purposes, we'll be looking at Pico CTF challenges in the forensics category



What's Next?

In the next HackerFrogs
Afterschool digital forensics
workshop, we'll start
learning digital forensics
skills with Pico CTF



Until Next Time, HackerFrogs!

