Digital Camouflage CTF Writeup

This document is a walkthrough on one way to solve the **Digital Camouflage CTF** on **CTFLearn**. The objective is to explain how I was able to solve this CTF to my future self.

General Information

Difficulty: Easy / Medium Category: Forensics

• Link: Challenge - Digital Camouflage - CTFlearn - CTF Practice

Introduction

Digital Camouflage

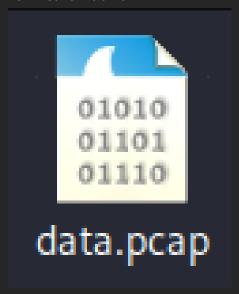
40 points



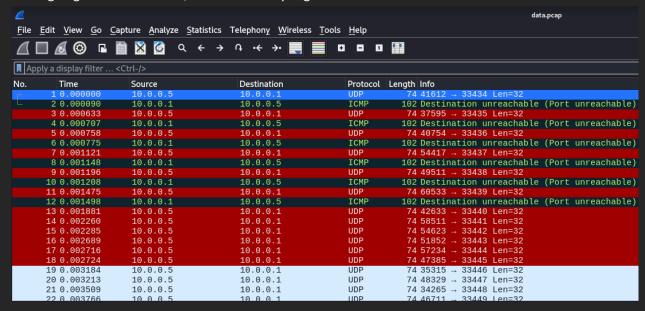
We need to gain access to some routers. Let's try and see if we can find the password in the captured network data: https://mega.nz /#!XDBDRAQD!4jRcJvAhMkaVaZCOT3z3zkyHre2KHfmkbCN5lYpiEoY Hint 1: It looks like someone logged in with their password earlier. Where would log in data be located in a network capture?
br /> Hint 2: If you think you found the flag, but it doesn't work, consider that the data may be encrypted.

Credit: picoCTF 2017

The link sends us to the download of a PCAP file, which contains packet capture data, which stems from network traffic.



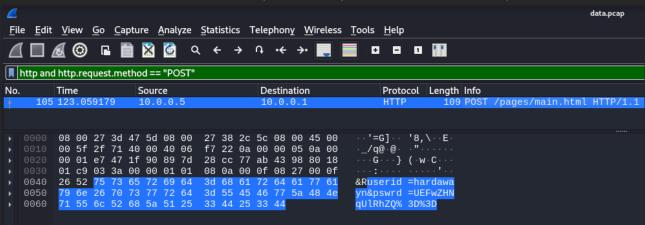
We're going to use Wireshark, a network-analysing tool to view the contents of this file



The challenge indicates that the packet data contains information about someone logging in their password, and received by the router.

Now, this is very commonly done via the HTTP protocol, using the POST method, which basically requests the server (in this case the router) to accept its data.

It is under this context that we will filter the packet to only HTTP via POST method requests



Taking a closer look:

- Hypertext Transfer Protocol
- HTML Form URL Encoded: application/x-www-form-urlencoded
 - Form item: "userid" = "hardawayn"
 - Form item: "pswrd" = "UEFwZHNqUlRhZQ=="

UEFwZHNqUIRhZQ== looks like a base64-encrypted string, let's decode it:

```
(alexandre⊕ vbox)-[~/Documents/CTF Files]
$ echo 'UEFwZHNqUlRhZQ=' | base64 -d
PApdsjRTae
```

And there you have it, the flag is **PApdsjRTae**.