



## Mission Name

CameraForensics

## History Background

Background for this chapter is Ethan got from the datacard, passwords, access codes and in particular some Skytech maps to look for his brother. In this case, there are security cameras installed inside Skytech and Claire has to analyse them.

## Technical High-Level Overview

An IP Camera firmware is provided to the player, in order get which is the Gateway IP address of the IP Camera. Player must analyse the firmware provided.

## Short Description

You're going to analyse an IP camera Firmware. Your goal is to find out which is the gateway IP address of the IP camera

## Mission Description

There are security cameras installed inside Skytech and Claire has to analyse them. You're going to analyse an IP camera Firmware. Your goal is to find out which is the gateway IP address of the IP camera.

## Location

- SYLVARCON | SKYTECH HQ

## Tools

- Strings
- binwalk

## Questions

Which version of U-Boot uses the camera? Please insert XXXX.YY

- 2013.01

Which is the common word of the WiFi connections that was used by the camera?

- Free

Which is the IP address of the camera?

- 192.168.1.10

## Hints

1. Check if the camera has any partition.
2. User binwalk or strings to search.
3. Launch the strings command using grep.

## Write Up

### Linux Method

Player could use both tools: binwalk or strings from Kali (Windows SubSystem) . The easy way would be use strings and grep command to filter the output:

```
kali@Sylvaracon:~/Desktop/camara$ strings ipcam.bin | grep gateway
gatewayip=192.168.1.1
gatewayip
## Warning: gatewayip needed but not set
; sending through gateway %pI4
kali@Sylvaracon:~/Desktop/camara$
```

Figure 1

Finally player will able to gateway ip Address: 192.168.1.1

### Flag Information

flag{192.168.1.1}