# Lab 1 Assignment – Physical Security Vulnerability with PoC

## Grade Value

* 6% of total grade.

## Guidelines

* You are allowed to reference the course materials and online content to complete the assignment.

## Requirements

* This is an individual assignment.
* The submission should be uploaded to Brightspace in video format.
* Assignment due date will be listed in Brightspace.
* Video must be playable in VLC Player.

## Assignment

Choose one of the following options:

* Option 1: Find a public CCTV camera on Shodan.io or using the Google Hacking Database. **This is going to be a recon mission only.**
  + Do not attempt malicious activities.
  + Do not crack passwords.
  + Do not attempt to log in.
  + Demonstrate
    - The search term used
    - Make and model of the camera
    - Firmware or software version
    - Geographical Location and documented location if provided by the camera
    - Proof of authorization
      * Login credentials were not required to access the camera feed or details
* Option 2: Access a locked/restricted area from an unrestricted area **Do NOT break into doors or go anywhere with this method without authorization. Do NOT cause any lasting damage**. For example:
  + Opening or unlocking a door without the proper key/authorization.
  + Cloning a card and using the cloned card to access the secure space.
  + Describe the process in the video.
  + Description of some risks, based upon the method demonstrated.
  + Proof of authorization in the video
    - If it is not your own property, have the owner or supervisor with authorization stated their name, your name, and you are allowed to perform the action before proceeding. Or a letter from the owner or supervisor on company letterhead with authorization.
    - If it is your own property, it must be stated in the video

Option 3: Clone a card. **Devices and software will not be provided.**

* Clone with either a hardware cloner or pull the details from an access card reader.
  + Determine the card number and the facility code.
  + Proof of authorization
    - If it is not your own property, have the owner or supervisor with authorization stated their name, your name, and you are allowed to perform the action before proceeding. Or a letter from the owner or supervisor on company letterhead with authorization.
    - If it is your own property, it must be stated in the video
* Option 4: come up with another item not covered in this assignment and get approval from the instructor. Outcome may be different than the above three options.
  + Training locks/tools will not be accepted.

## Additional Resources

* <https://www.youtube.com/watch?v=4YYvBLAF4T8>
* <https://www.exploit-db.com/google-hacking-database>

## Grading Rubric

The marking rubric is available alongside the assignment in Brightspace.

Please consult the rubric both prior to and throughout the report-writing process to ensure your work aligns with the stated evaluation criteria.

For assignment 2, choosing option 1, all you want us to do is get a screenrecording of us visiting shoden and finding open cctv?

 Display the search used, showcase the camera including the view from the camera, and any details you can (for example camera hardware and software, version, geolocation data, etc.)

More on this ^, How long do you want the recording to last?

and is there an example video to watch; to see what you are looking for?

As long as needed to show the details or the hack

Oct 8, 2025 lesson:

<https://www.youtube.com/@lockpickinglawyer/videos>

<https://www.youtube.com/shorts/xenMlhdvyYE>

<https://www.lockpickworld.com/blogs/news/mcnallyofficial-sued-by-proven-industries-for-lock-bypass-video>

Oct 10, 2025:

Sohaib Roy10/10/2025 5:19 PMso we can fine any open camera feed?

Sohaib && CYBR3020 - Vulnerabilities and Exploits (E01,E02.1251) While any open camera will work, please use discretion.

For example: If it is a nanny cam filming a baby's room, please avoid using that.

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i have a question what if you can not find Firmware or software version or make model of the camera used

Can you message me and show me an example (screenshots) of what you're seeing?

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The idea for the cameras is to find a camera that is not setup to be publicly accessible

For example; <https://edmontontrafficcam.com/> - this lists cameras anyone on the Internet can access

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Oct 17, 2025:

Kole S Toma10/17/2025 6:25 PMFor assignment 2, choosing option 1, all you want us to do is get a screenrecording of us visiting shoden and finding open cctv?

Display the search used, showcase the camera including the view from the camera, and any details you can (for example camera hardware and software, version, geolocation data, etc.)

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More on this ^, How long do you want the recording to last?

and is there an example video to watch; to see what you are looking for?

As long as needed to show the details or the hack

Unfortunately I do not have an example video

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I've wasted so much time trying to find make and model Im going to have to find another option

and just submit the video right

Yes, just the video

no report needed

Oct 27, 2025

**For assignment2 Physical Security Vulnerability**

**Google search: how to use Shodan.io to find CCTV public camera?**

<https://www.youtube.com/watch?v=C_S7rpFKZxY>

Type this on shodans search panel:

Shodan.io search: country:"TT" Hikvision

Webcam - ("webcam 7" OR "webcamXP") http.component:"mootools" -401

https://null-byte.wonderhowto.com/how-to/find-vulnerable-webcams-across-globe-using-shodan-0154830/

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<https://www.youtube.com/watch?v=UhW7dI1Wu44>

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10/27/2025

Hello Clayton, just want to confirm if this is what's needed for assign2 Physical Security Vulnerability?

Clicking that IP, it would give me info like this.

That is some of the stuff required, you'll need to demonstrate unauthenticated access to the camera

Base on Signal pinoy group: video should be open, no login credentials

* On shodan.io, type IP camera or network camera