**Personal Vulnerability Investigation**

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# **SCOPE**

The aim of this research is to investigate how vulnerable the modern routers are. I will be taking advantage of the available resources that my school offers (ISSD), and I will try to use online open-source tools to hack the router. The whole process can take up to 3 weeks.

# **Main Question**

### **How safe is it to only rely on routers to stay away from hackers?**

# **Sub Questions**

### What is the difference between router and modem?

### What are most popular routers used nowadays?

### How routers work?

### How can a hacker take over routers systems?

# **My Plan**

In this research, I will be using the DOT framework to answer my questions. (<https://ictresearchmethods.nl/Methods>)

DOT framework consists of 5 strategies:

1. Library
2. Field
3. Lab
4. Showroom
5. Workshop

Each strategy offers several methods.

Here is my plan for this research:

Table

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