

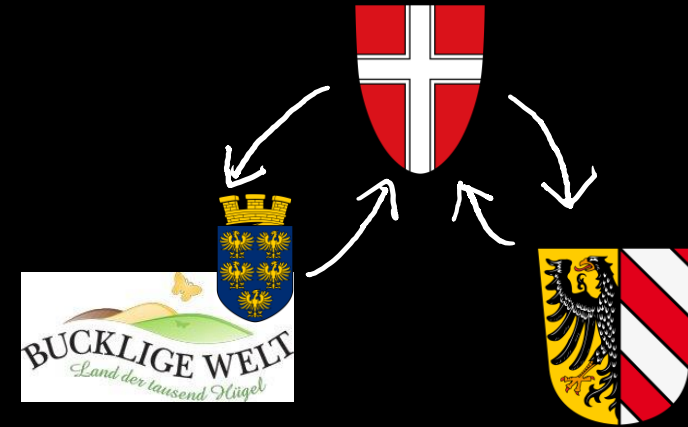
Web (and) Application Security

WUAPS

whoami

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Education:



Prof. Exp.:



Who are you?

Hacking webapplications is illegal

(https://www.oesterreich.gv.at/themen/bildung_und_neue_medien/internet_und_handy____sicher_durch_die_digitale_welt/3/Seite.1720213.html)

But it's also fun!

just become a whitehat and get
legally paid for it

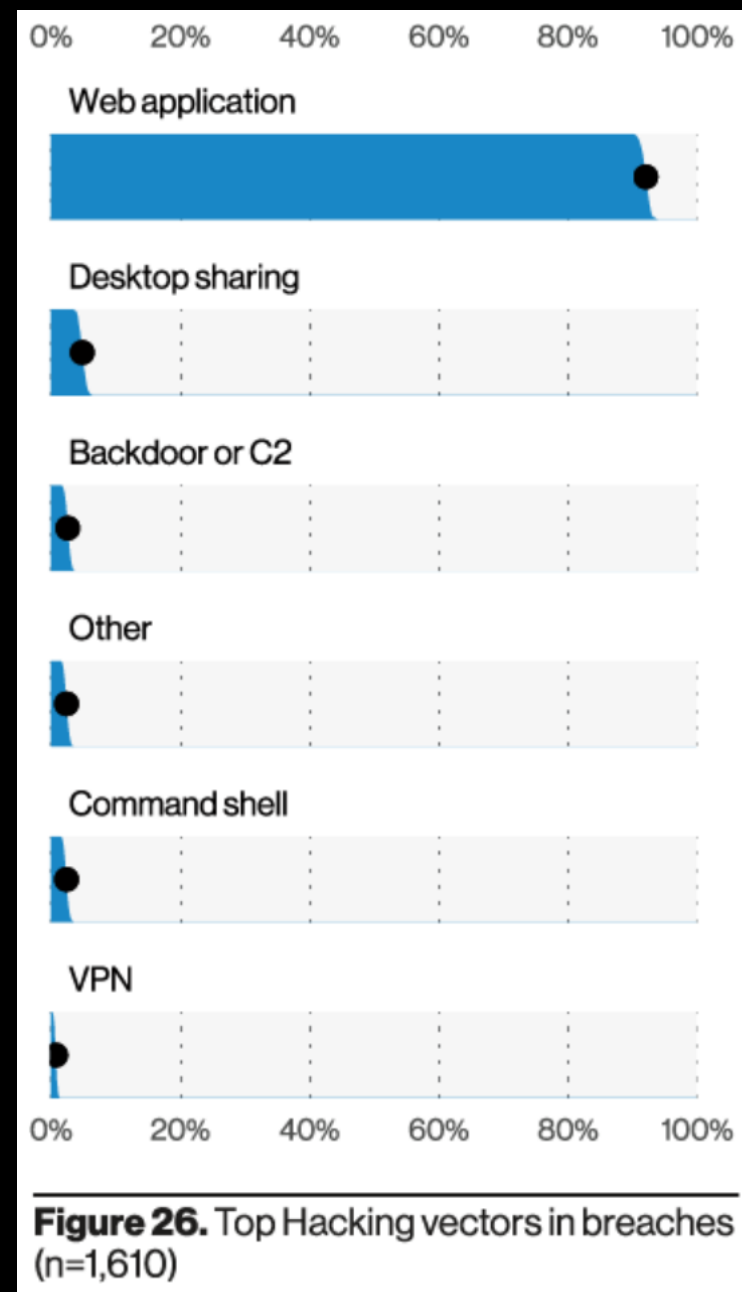
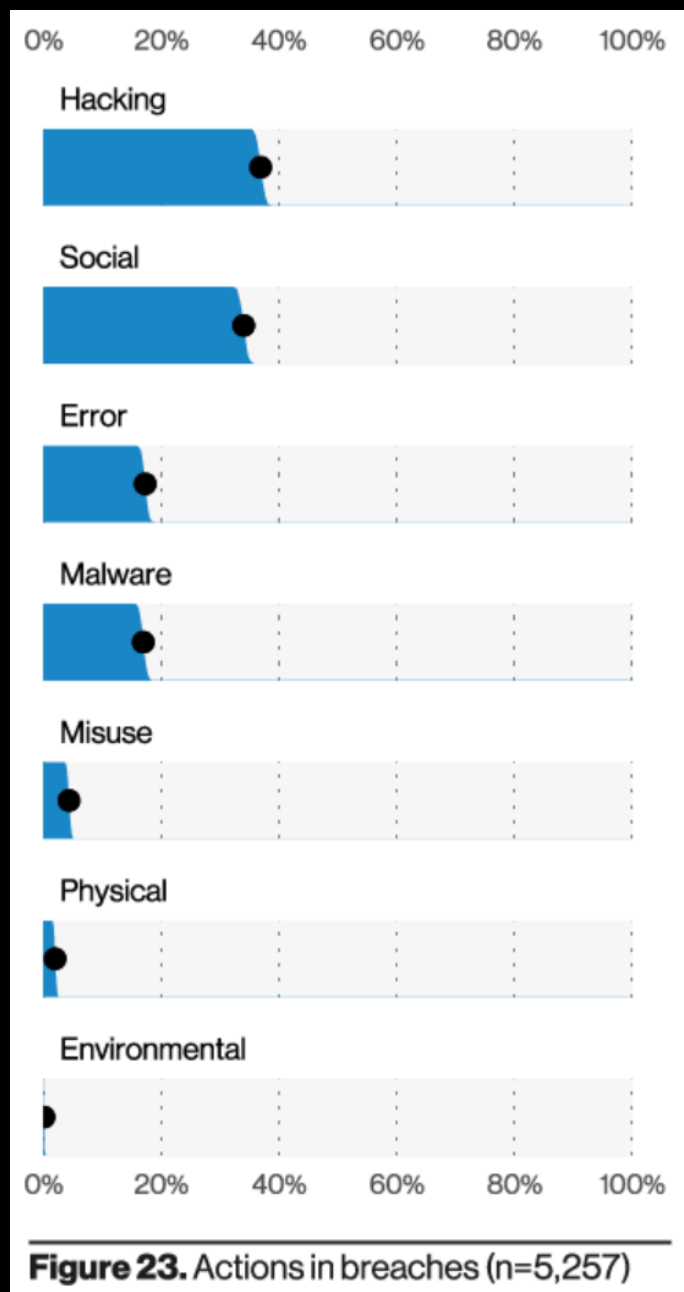
and help making the internet a
safer place

Why is web (application) security
important?

interesting
story

Last updated: 11th June 2020





Source: Verizon 2021 Data Breach Investigation Report

Why is it so hard to do it right?
= secure

The web is a complex combination of different technologies which evolved over time

You have to care about:

server-side code
gets untrusted input

browser
runs different applications at the same time

client-side code
runs in an untrusted environment

the user
well... we all know them...

Rough Overview

1. >> Introduction <<
2. Basic Principles and Resources
3. Architecture & Basic Web Procedure
4. Authentication and Session Management
5. Authorization
6. Server and Backend Attacks
7. Remaining Client Attacks
8. General Topics
9. Conclusions

Overall Conditions

- Grading
 - 50% Lab
 - more about that in the first lab session
 - 50% Theory
 - eCampus exam at the end of this course
 - You need to collect more than 25 of 50 points for a positive grade
- Attendance
 - Needs to be recorded on eCampus
- Breaks
- Camera
- Recording
- Material
 - Released under CC Attribution-ShareAlike 4.0 International (CC BY-SA 4.0)
 - <https://creativecommons.org/licenses/by-sa/4.0/>
 - <https://github.com/dschwarz91/websec-lecture>

After this course, you will be able to...

- ... explain the most common vulnerabilities in today's web applications

- ... identify vulnerabilities in web applications and give recommendations how to fix them

- ... use some of the most important tools to efficiently examine web applications

Any questions before we start?