DIGHEL4360 – Autumn 2023

Workshop - Security I
(no submission for these tasks required)

Task 1 – Password Cracking

Use case

A Norwegian website has been breached and several usernames and password hashes have been leaked. You can find a sample of the leaked data in the table below.

Username	Password hash
hans	$6$3pjqlzcJh1jAE0NF$lxUVS5oX/sj2iXMWxhXK0xlBgUaYg0il5UHeK9.RT.qJG.fLNpNkwJGs8dGGvGRiIsYN6pPcgsfIkc/i23E8/.
astrid	6WINCxQuuFxJFP9q5$f5yOtFb55BwlS2gwgzsNN/ZJmSzzbB./RfO3rsgu1Co4SBK7WF0IPu9fWBR4ePc7x7SzLHOub7yuvCLQkjplF/

Your goal is to sign-in to a given website with both users from the table above. Use the provided dictionary attack web tool to access their credentials and test them on a given website.

Note: The login website and the dictionary attack tool are only available during the workshop.

Task 2 – Account Security
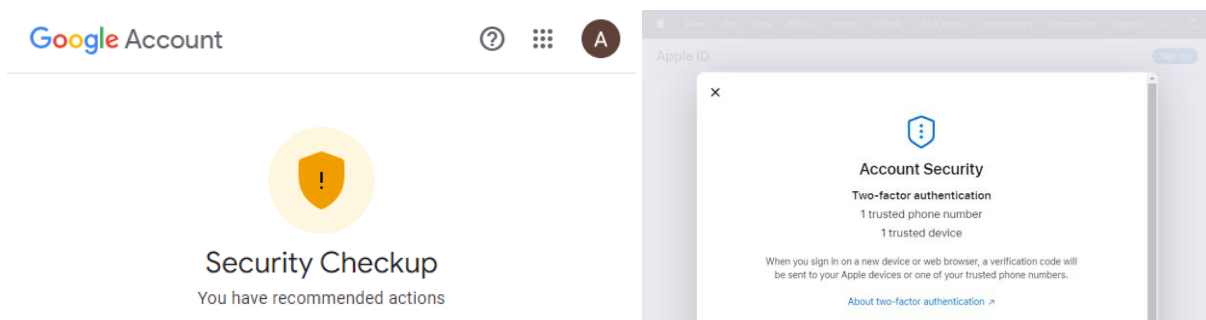
Sign-in to your Google account and

a) Make a list of the different authentication and recovery methods that you have enabled

- Have you enabled MFA? If yes, which methods?

- Did you set up a recovery account?

b) Check if Google suggests any improvements in your account set up in the "Security Checkup".

If you do not have a Google account, you can also check your Apple ID account instead.

Task 3 – Phishing quiz

Please do the phishing quiz on the following website:
https://phishingquiz.withgoogle.com/

Task 4 – Email Tracking

Check if any of your favorite websites that also provide a newsletter conduct Email Tracking. It is highly recommended NOT to use any of your personal or work email addresses for this task:

a) Get a temporary email address by opening: https://temp-mail.org/en/

b) Open a website with a newsletter and register using the temporary email address from a).

c) Upon receiving the newsletter, download the email "Source" and open it with a text editor, such as Notepad.

d) Observe the email source code and check if you find any tracking indicators in any of the images (`<img src="…">`) or other links.

You can compare the emails sent to two different email addresses by repeating the steps above. To get a different temporary email address, you can either delete the email address or do the steps above from another private browser session or a different browser.

Also, you can make use of the DuckDuckGo Email Protection feature. See the following website for more information: https://duckduckgo.com/duckduckgo-help-pages/email-protection/what-is-duckduckgo-email-protection/