# LAB 9: WiFi security - homework

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On captures from

- offline dictionary attack and find the hidden password. Password was choosen from *rockyou* wordlist. SSID: *PA197-WPA-DICT2* 
  - rockyou wordlist is downloaded to root user home directory on lab laptops
- offline brute-force attac based on story on next slide. SSID: PA197-WPA-BF2
- data analysis of decrypted capture of brute-force attacked network. SSID: PA197-WPA-BF2

<u>Hint:</u> you should use **one** of the "air\*-ng" family tools and one other. It is recommended to read man pages of this tools before solving homework.

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- Imagine scenario: You had few oportunities to sneek when user typed in password for wpa encrypted wireless network. Noticed few details which will help reduce number of possible combinations:
  - Password contains exactly 8 characters
  - first 2 characters are "ue"
  - third character is digit
  - fourth character was written with left hand and is lowercase
  - fifth character is space
  - rest of password are lowercase letters

- Client on SSID PA197-WPA-BF2 is downloading from AP every minute 1 text file using unsecured protocol
- Your task is to decrypt captured data with password from BF attack and find following:
  - filename
  - file content
  - protocol used for transport
  - user credentials

Hint: this can be done all with very popular network analyzer

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## Homework: report

#### Deadline: May 7, 2020 23:59

#### Format: pdf file Your report must contain:

- Full command (with all options) which you use for solve assingned problems
- Screen-shots of used programs with found WPA2 pass-phrase (see example bellow)
- Data analysis

### Example:

To solve this problem I used command "airtun-ng -a 00:14:22:56:F3:4E -t 0 -p captured.cap wlan0"

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