What is this about?

It is about How can we automate the recommendation of attack steps/sequences? How to quantify chances of success and impact of each step given preferences (e.g., stealth vs impact)?

In order to automate. Needs to have information first. Use EdRange as example and vulnerability scans such as OpenVAS for automation.

OpenVAS output the results as pdf and/or xml. It seems like xml is better to convert into machine understand language.

Use python for machine learning and xml converting.

For some unknown reason outlook unable to send xml files. Pdf files is fine. So, I will use GitHub to get the scans results to my real computer instead of the VM. Which does not work so I just use mega instead.

Note: the free version of OpenVAS is only able to use in VM.

Got a new PC. Setting everything up again….

At least it runs very smooth.

Found out that MITRE ATT&CK actually have a GitHub repo that can request up to date data from the website. [mitre-attack/mitreattack-python: A python module for working with ATT&CK](https://github.com/mitre-attack/mitreattack-python/)

Might be useful.

Script is disable by default in windows. Nice. [execution of scripts is disabled how do you enable? - Microsoft Community](https://answers.microsoft.com/en-us/windows/forum/all/execution-of-scripts-is-disabled-how-do-you-enable/e19d41b2-ab61-e011-8dfc-68b599b31bf5)

# 1

Watched a video about machine learning with python: [(1) Python Machine Learning Tutorial (Data Science) - YouTube](https://www.youtube.com/watch?v=7eh4d6sabA0&t=1861s)

Steps from the video:

Import Data

Clean the Data

Split the Data into Training /test sets

Create a Model

Train the Model

Make Predictions

Evaluate and improve

Import the Data! I need more data!!!!!!!