Managing and Presenting Test Results

In this lab, we will cover the following topics:

- Managing and presenting test results
- Approach - generating a professional pentest report with Serpico

Approach - generate a professional pentest report with Serpico

A summary of the security testing documentation will help you to communicate with stakeholders. The report should not only list the security findings but also how they were identified, the testing scope, the methodology, and also mitigation suggestions. It's a common practice for an independent security testing firm to produce such documentation. The PCI DSS Penetration Test Guidance suggests a Penetration Test Report Outline as follows:

- Executive summary
- Statement of Scope
- Statement of methodology
- Segmentation test results
- Findings
- Tools used

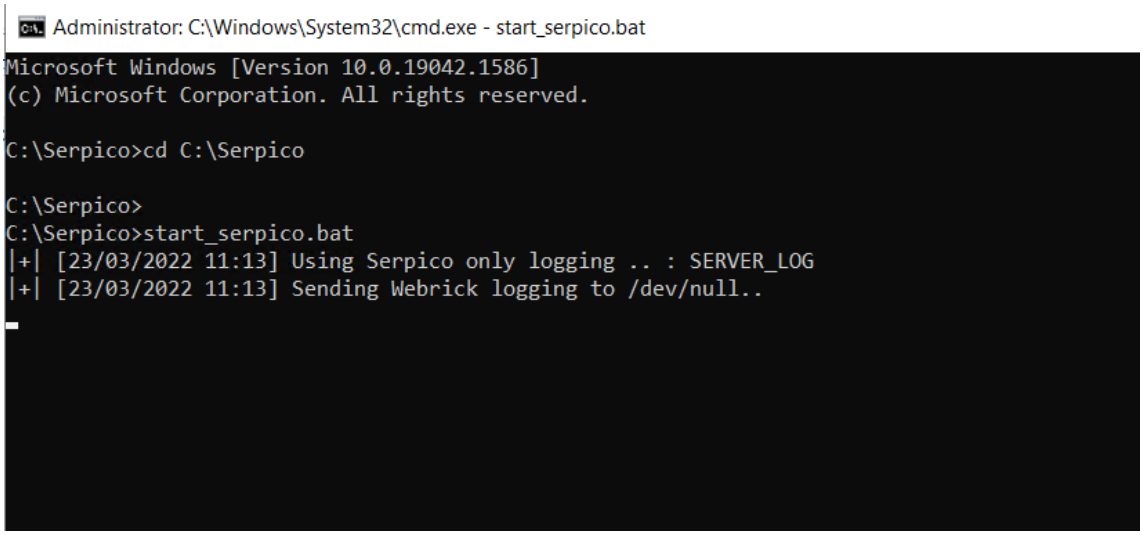
Serpico is a penetration testing report generator, which can help to produce such a document. Although Serpico doesn't import the security testing results from tools, it allows users to select security findings/mitigation's based on templates. Follow the steps in the next sectionto generate your own penetration testing document.

Step 1 -- Start Serpico

Serpico has been installed in the lab environment. Serpico can be launched with the [start_serpico.bat] script:

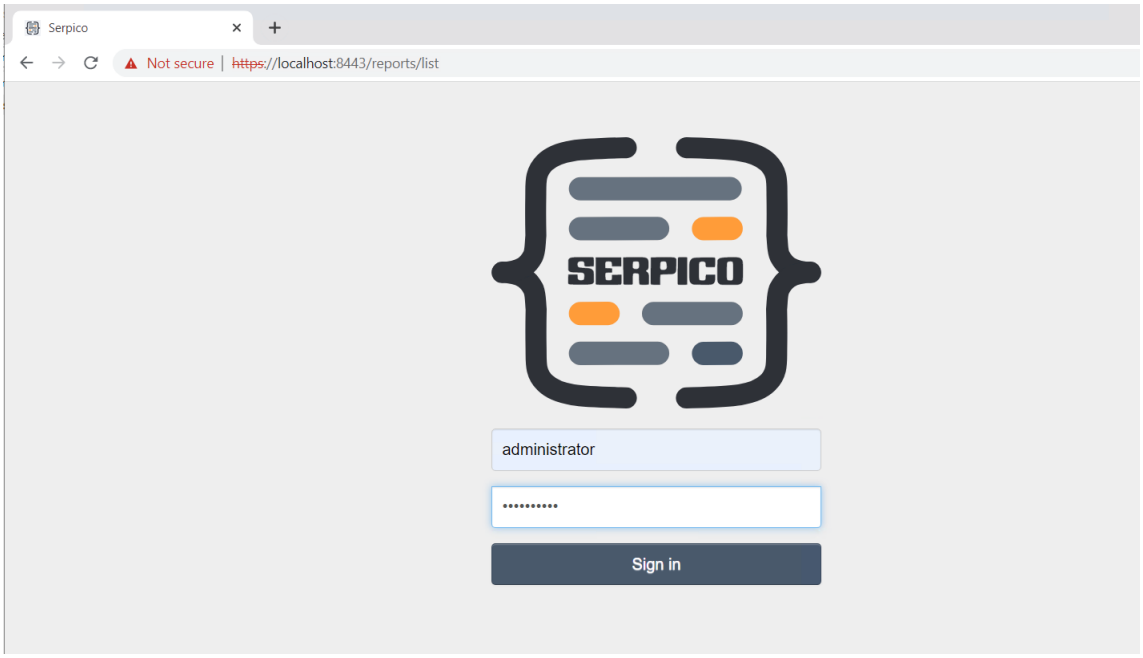
```
cd C:\Serpico

start_serpico.bat
```



Run the above script and press `Enter` key. Then, use a browser to visit [https://localhost:8443/].

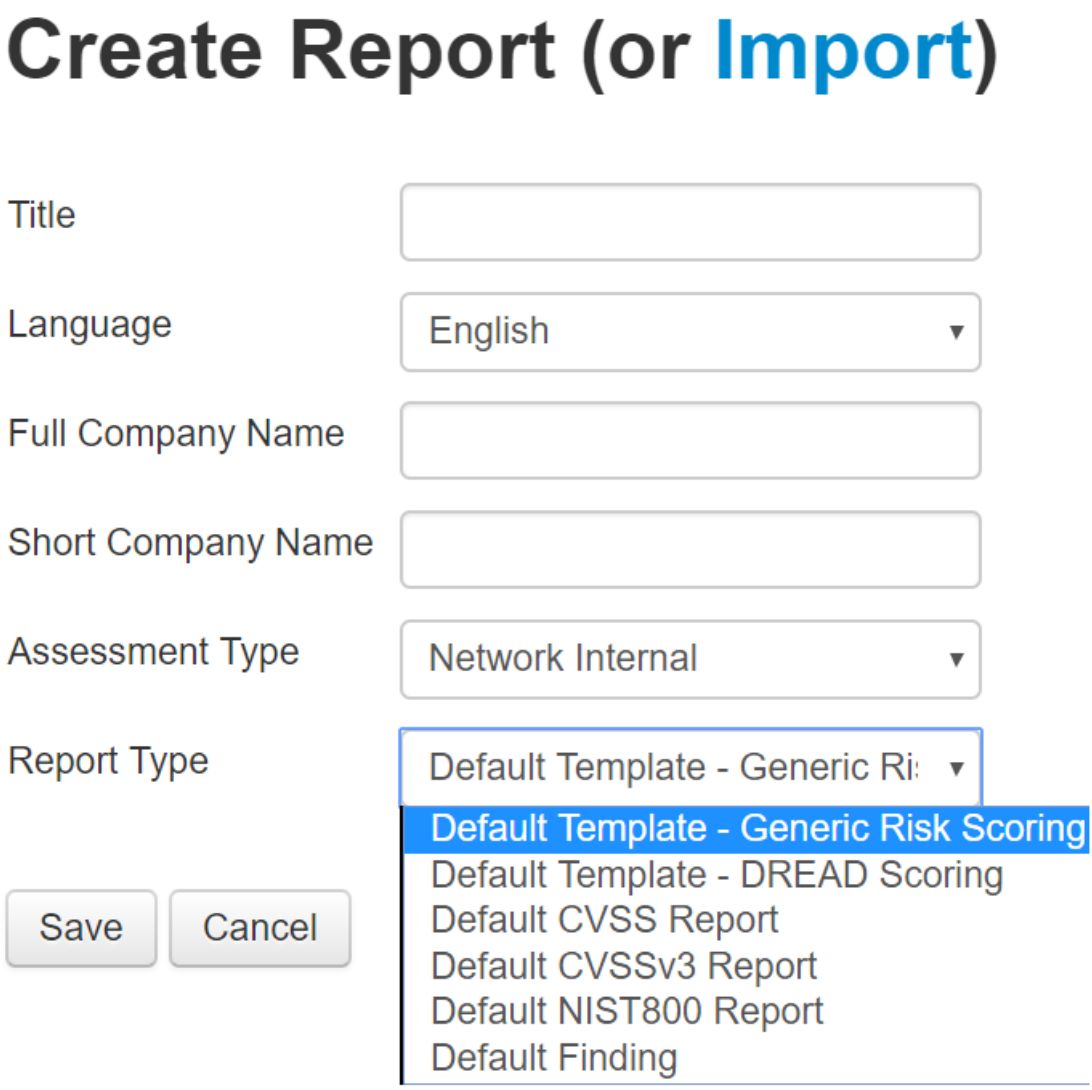
Username: administrator *Password:* oaqqtbai0a



Step 2 -- Create a Report based on Templates

To create a report, click `New Report` from the menu at the top. There are some report templates you may select, such as assessment type, and also report types such as DREAD, CVSS, and NIST 800.

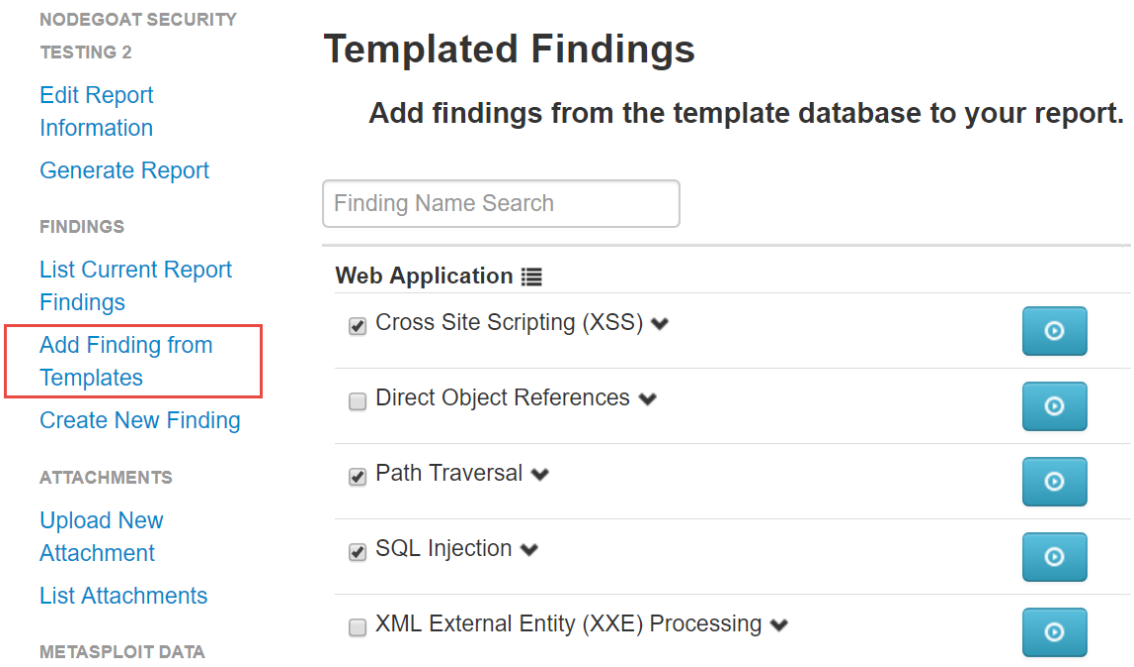
This screenshot shows `Create Report` in Serpico:



Step 3 -- Add Finding from Templates

After creating a report with basic project information, it's suggested to [Add Finding From Templates] instead of add every finding from scratch. The finding templates include some common attacks and mitigation information. We may edit the security findings based on these templates and project testing results.

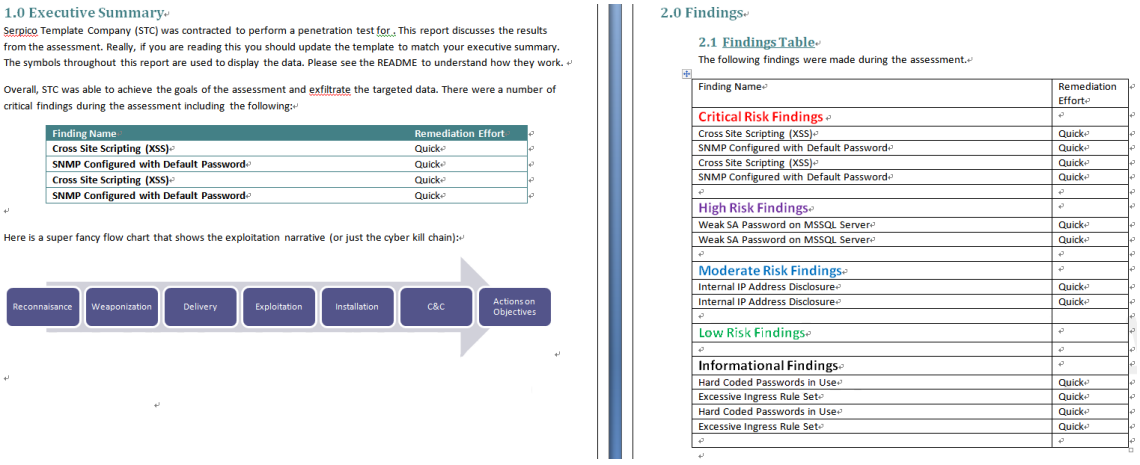
This screenshot shows `Add Finding from Templates`:



Step 4 -- generate a report

To generate a report, click [Generate Report] on the left menu. One Word document will be automatically generated based on your selected information and security findings.

This screenshot shows a sample of a generated report in Word format:



Summary

In this lab, we have introduced approaches to managing the testing results. First, we can use the script to integrate all the testing results. We demonstrated the uses of a Python script, RapidScan, which executes several security testing tools and presents the security findings in a console with highlighted colors. Secondly, we also introduced the

document generator Serpico, which can help to generate professional penetration testing documentation, which includes the summary, security findings, risk ratings, and mitigations.