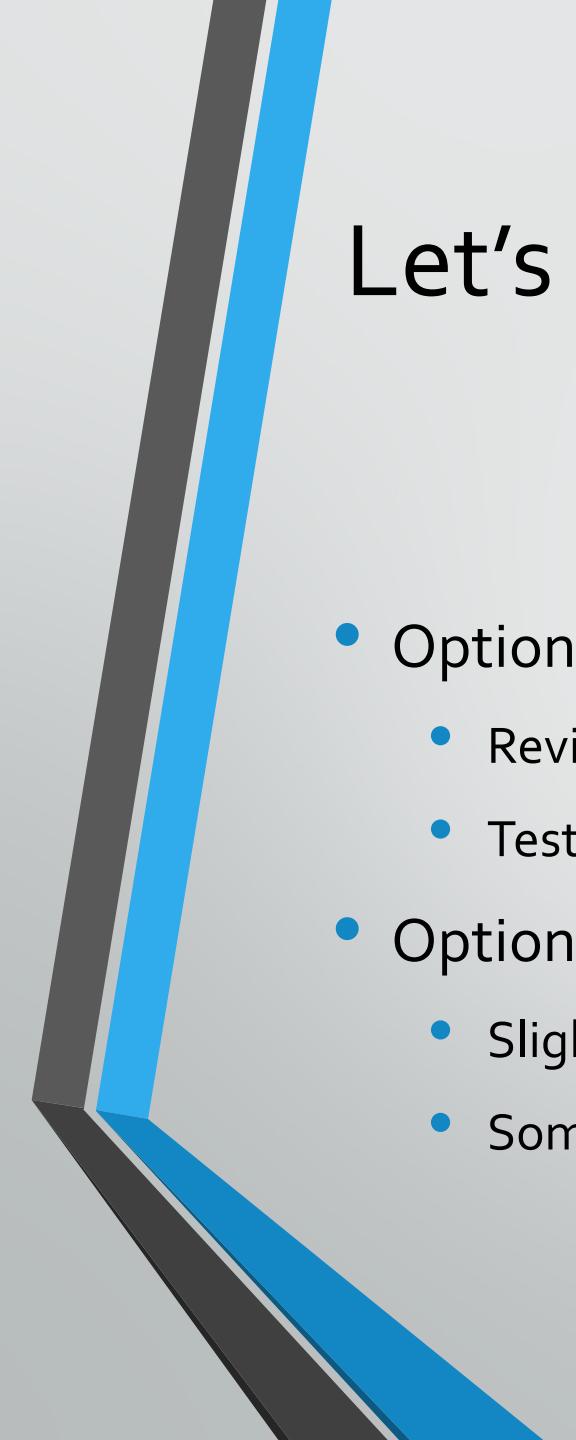




Please open your **CSC436_Environment Kali VM!!**

Vulnerability Scanning

Part 2



Let's pretend we have an exam/quiz thing next week...

- Option 1:
 - Review Tuesday
 - Test Thursday
- Option 2:
 - Slightly smaller test Tuesday
 - Something else Thursday

Scan Templates

[Back to Scans](#)

Scanner

Search Library



Advanced Scan

Configure a scan without using any recommendations.



Audit Cloud Infrastructure

Audit the configuration of third-party cloud services.



Badlock Detection

Remote and local checks for CVE-2016-2118 and CVE-2016-0128.



Bash Shellshock Detection

Remote and local checks for CVE-2014-6271 and CVE-2014-7169.



Basic Network Scan

A full system scan suitable for any host.



Credentialed Patch Audit

Authenticate to hosts and enumerate missing updates.



DROWN Detection

Remote checks for CVE-2016-0800.



Host Discovery

A simple scan to discover live hosts and open ports.



Intel AMT Security Bypass

Remote and local checks for CVE-2017-5689.



Internal PCI Network Scan

Perform an internal PCI DSS (11.2.1) vulnerability scan.



Malware Scan

Scan for malware on Windows and Unix systems.



MDM Config Audit

Audit the configuration of mobile device managers.



Mobile Device Scan

Assess mobile devices via Microsoft Exchange or an MDM.



Offline Config Audit

Audit the configuration of network devices.



PCI Quarterly External Scan

Approved for quarterly external scanning as required by PCI.



Policy Compliance Auditing

Audit system configurations against a known baseline.



SCAP and OVAL Auditing

Audit systems using SCAP and OVAL definitions.



Shadow Brokers Scan

Scan for vulnerabilities disclosed in the Shadow Brokers leaks.



WannaCry Ransomware

Remote and local checks for MS17-010.



Web Application Tests

Scan for published and unknown web vulnerabilities.

Scanning With Nessus

- First, we create a scan
 - Can specify hosts
 - What do we want to do in the scan?
- Launch the scan
- 10.10.20.56

Ok, So Nessus is Great And All...

- ...but you should run multiple vulnerability scanners.

OpenVAS

- Part of Greenbone Networks' commercial vulnerability management solution
- Open Source

Installing OpenVAS

- apt-get update
- apt-get install openvas

- openvas-setup
- openvas-start

OpenVAS

- `https://localhost:9392`
- User: admin
- Password: given on the command line
 - Can create users by using `openvasad` on the command line

NVT Feed

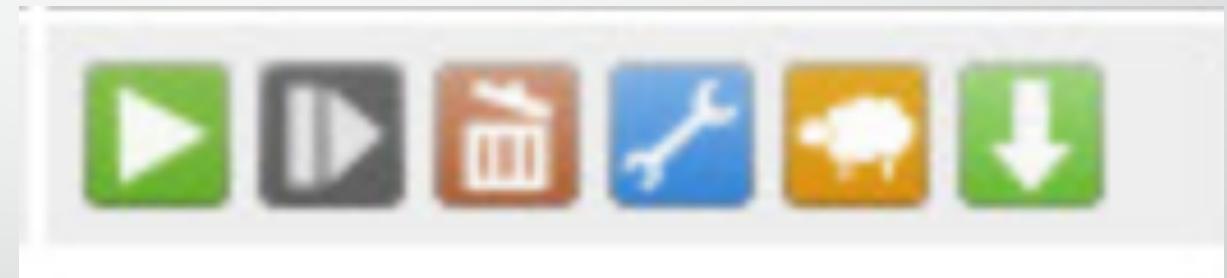
- NVT – Network Vulnerability Test
- Public feed maintained by Greenbone for OpenVAS
- Currently more than 50,000 NVTs
- Extras -> Feed Status
 - Keep these up to date

Scan With OpenVAS

- Create a target
 - Configuration -> Targets
 - IP (Target List)
 - Ports to Scan
 - Creds (If you want)

Scan With OpenVas

- Create New Task
 - Scans -> Tasks
 - (There's also a wizard)
- Start the scan (Play button)



Report

- Scans -> Reports
 - Choose Task/Scan
 - Can download report

| Vulnerability | + | ? | Severity | QoD | Host | Location |
|---|---|---|-------------|-----|-------------|-------------|
| Microsoft Windows Multiple Vulnerabilities (KB4038782) | | | 10.0 (High) | 80% | 10.10.20.56 | general/tcp |
| Microsoft Windows Multiple Vulnerabilities (KB4022715) | | | 10.0 (High) | 80% | 10.10.20.56 | general/tcp |
| Microsoft Windows Multiple Vulnerabilities (KB4025339) | | | 10.0 (High) | 80% | 10.10.20.56 | general/tcp |
| Microsoft Windows Multiple Vulnerabilities (KB4034658) | | | 9.3 (High) | 80% | 10.10.20.56 | general/tcp |
| Microsoft Windows SMB Server Multiple Vulnerabilities (4013389) | | | 9.3 (High) | 80% | 10.10.20.56 | general/tcp |
| Microsoft Graphics Component Multiple Vulnerabilities (4013075) | | | 9.3 (High) | 80% | 10.10.20.56 | general/tcp |

Nexpose

- Built by Rapid7
 - Same company that maintains Metasploit
- Vulnerability Management Software
- Not free, but there is a free trial

Downloading and Installing

- Register for an account/license (Free Trial)
- Download .bin file
- chmod +x Nexpose.bin
- ./Nexpose.bin



Extracting files...

Welcome

License agreement

Type and destination

Requirements

Account details

Shortcut location

Confirm selections

• Installation progress

Console details

Installation success

Extracting files...

plugins/java/1/AdobeReaderScanner/1/l10n-jp-jp.jar



Cancel

Next



Installation is complete!

Installation is complete!

1. If you chose to start the Security Console as part of the installation, then it will be started upon installer completion.
2. You can log onto the Security Console at <https://localhost:3780>. Use **the credentials you created during installation.**
3. Wait **10 to 30** minutes for the Security Console to initialize during first time startup depending on your system capabilities.

To start the service run: `sudo systemctl start nexposeconsole.service`

The Security Console is configured to automatically run at startup. See the installation guide if you wish to modify start modes.

- Welcome
- License agreement
- Type and destination
- Requirements
- Account details
- Shortcut location
- Confirm selections
- Installation progress
- Console details
- Installation success

Finish

Starting Nmap

- `systemctl start nmapconsole.service`