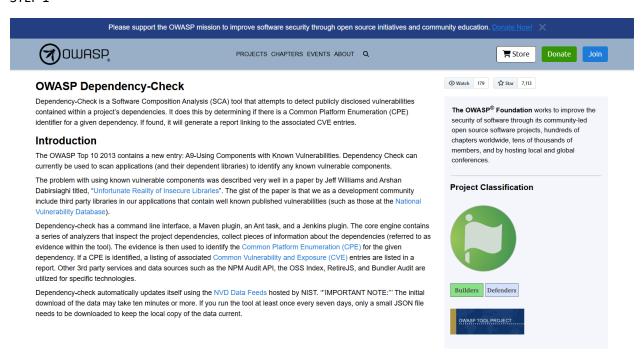
STEP 1



STEP 2

Downloads

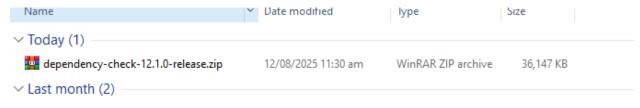
Version 12.1.0

Command Line
Ant Task
Maven Plugin
Gradle Plugin
Mac Homebrew:

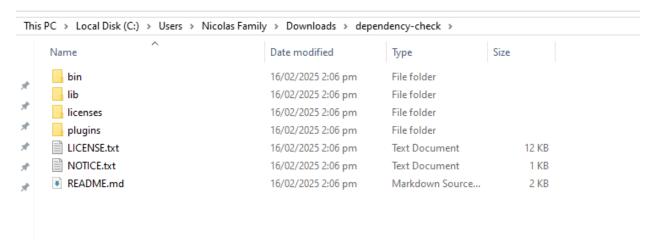
brew update && brew install dependencycheck

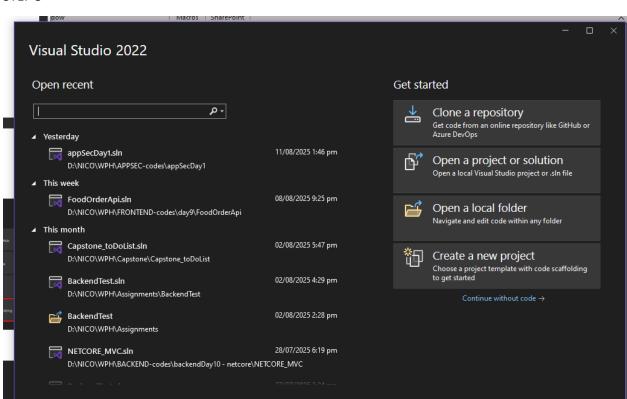
O41--- D1....!--

STEP 3

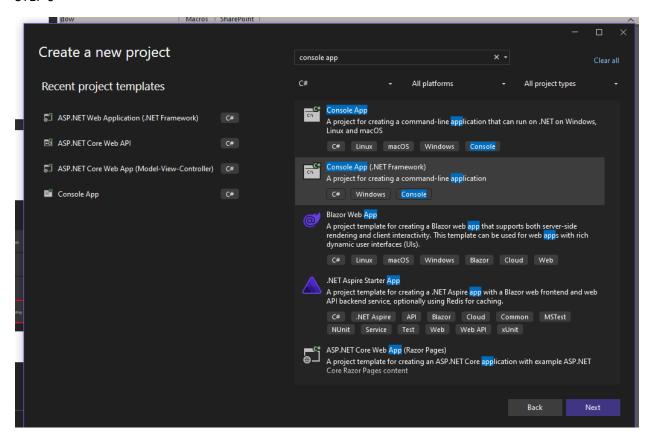


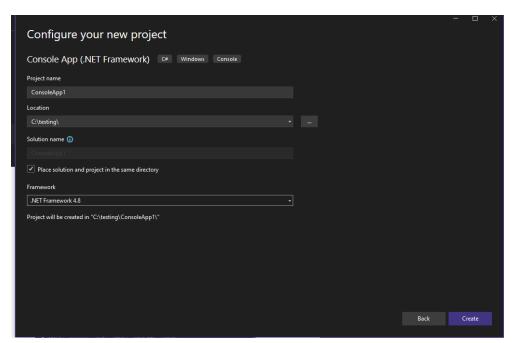
STEP 4





STEP 6





John Rich Nicolas

APP SEC

DAY 2

STEP 8

```
Command Prompt

Microsoft Windows [Version 10.0.19045.6093]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Nicolas Family>____
```

John Rich Nicolas

APP SEC

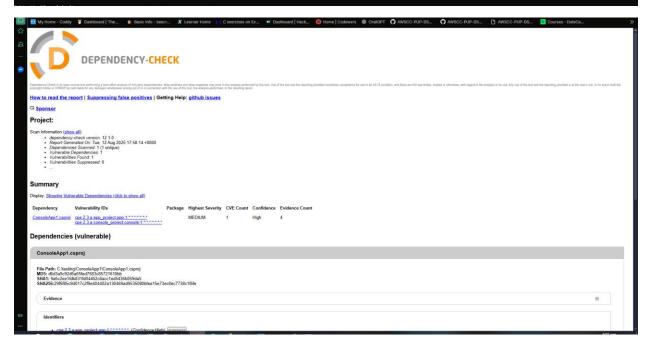
DAY 2

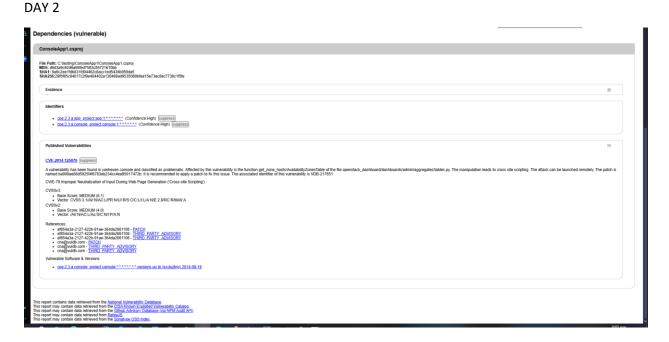
```
C:\cd testing
C:\testing>cd ConsoleApp1
C:\testing>cd ConsoleApp1>C:\dependency-check\bin\dependency-check.bat --nvdApiKey YOUR_KEY_HERE -s .

^CTerminate batch job (Y/N)? y

C:\testing\ConsoleApp1>C:\dependency-check\bin\dependency-check.bat --nvdApiKey e3ac20fc-a782-436b-ab08-73171ac8336a -s
[INFO] Checking for updates
[INFO] NVD API has 304,869 records in this update
[INFO] Downloaded 10,000/304,869 (3%)
[INFO] Downloaded 20,000/304,869 (7%)
[INFO] Downloaded 30,000/304,869 (10%)
[INFO] Downloaded 40,000/304,869 (10%)
[INFO] Downloaded 50,000/304,869 (13%)
[INFO] Downloaded 50,000/304,869 (16%)
```

```
| Completed processing batch 180/153 (cmt) in times
| Completed processing batch 180/153 (cmt) in times
| Completed processing batch 180/153 (cmt) in times
| Completed processing batch 180/153 (cmt) in 20me
| C
```





RELFECTION

I executed the Dependency-Check scan from the command line by navigating to my project folder using the cd command and running the dependency-check.bat script located in the C:\dependency-check\bin directory. Initially, I tried running the scan without an NVD API key, but the update process was extremely slow because it was downloading a large number of records with long pauses in between. I decided to stop the process, register my email with the NVD, and obtain an API key to speed up the database update. After some research, I learned how to pass the key as a parameter using the --nvdApiKey flag in the command. Once I restarted the scan with the API key, the download progressed steadily in increments of 10,000 records, which was much faster than before. The scan generated a report in the same directory as my project, listing detected vulnerabilities along with their severity and the files or dependencies where they were found. From reviewing the report, I noticed specific vulnerabilities tied to outdated libraries, which could potentially be addressed by upgrading dependencies to newer, patched versions or replacing them with secure alternatives. One of the main challenges I faced was understanding the update process and why it was slow without a key, but through trial, error, and research, I learned the importance of using the NVD API key for efficiency and the value of keeping the vulnerability database up to date before scanning.