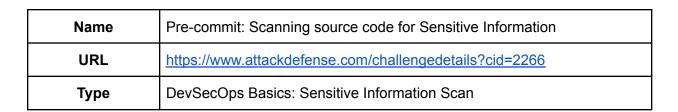
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Important Note: This document illustrates all the important steps required to complete this lab. This is by no means a comprehensive step-by-step solution for this exercise. This is only provided as a reference to various commands needed to complete this exercise and for your further research on this topic. Also, note that the IP addresses and domain names might be different in your lab.

Challenge Description

The <u>Pre-commit</u> tool is used to find sensitive data in the source code of the application using the defined plugins in the config.

A Kali CLI machine (kali-cli) is provided to the user with pre-commit installed on it. The source code for two sample applications is provided in the home directory of the root user.

Objective: Use the pre-commit utility to find sensitive information in the applications!

Instructions:

The source code of applications is provided at /root/github-repos

Solution

Step 1: Check the provided applications.

Command: Is -I github-repos

We will take one example at a time and run the tool on that.

Example 1: easyssh-proxy

Step 1: Navigate to the easyssh-proxy project directory

Commands:

cd ~/github-repos/easyssh-proxy ls

root@attackdefense:~# cd ~/github-repos/easyssh-proxy
root@attackdefense:~/github-repos/easyssh-proxy# ls
easyssh.go example go.sum Makefile README.md
easyssh_test.go go.mod LICENSE pipeline.libsonnet tests
root@attackdefense:~/github-repos/easyssh-proxy#

Step 2: Create the config file for pre-commit tool to detect the private keys.

Command: vim .pre-commit-config.yaml

repos:

 repo: https://github.com/pre-commit/pre-commit-hooks rev: v2.4.0 hooks:

- id: detect-private-key

Save the file

```
root@attackdefense:~/github-repos/easyssh-proxy# cat .pre-commit-config.yaml
repos:
    repo: https://github.com/pre-commit/pre-commit-hooks
    rev: v2.4.0
    hooks:
        - id: detect-private-key
root@attackdefense:~/github-repos/easyssh-proxy#
```

The configuration will check for the SSH private keys in the source code of the application

Step 3: Initialise the pre-commit in the repository

Command: pre-commit install

```
root@attackdefense:~/github-repos/easyssh-proxy#
root@attackdefense:~/github-repos/easyssh-proxy# pre-commit install
pre-commit installed at .git/hooks/pre-commit
root@attackdefense:~/github-repos/easyssh-proxy#
```

Step 4: Run the pre-commit tool on the repository to find the private keys.

Command: pre-commit run --all-files

The pre-commit tool identified multiple keys being exposed in the source code of the application

Issues Detected:

Private key exposed in multiple files

Example 2: wifi-password-cli

Step 1: Navigate to the wifi-password-cli directory.

Commands:

cd ~/github-repos/wifi-password-cli ls

```
root@attackdefense:~/github-repos/easyssh-proxy#
root@attackdefense:~/github-repos/easyssh-proxy# cd ~/github-repos/wifi-password-cli
root@attackdefense:~/github-repos/wifi-password-cli# ls
cli.js license package.json readme.md test.js
root@attackdefense:~/github-repos/wifi-password-cli#
```

Step 2: Create the config file for pre-commit tool to detect the aws credentials files and insecure configuration.

Command: vim .pre-commit-config.yaml

repos:

 repo: https://github.com/pre-commit/pre-commit-hooks rev: v2.4.0

hooks:

- id: detect-aws-credentials

args: [--credentials-file='.aws/credentials', --allow-missing-credentials]

Save the file

```
root@attackdefense:~/github-repos/wifi-password-cli# cat .pre-commit-config.yaml
repos:
    repo: https://github.com/pre-commit/pre-commit-hooks
    rev: v2.4.0
    hooks:
        id: detect-aws-credentials
        args: [--credentials-file='.aws/credentials', --allow-missing-credentials]
root@attackdefense:~/github-repos/wifi-password-cli#
```

The configuration will check for the AWS credentials in the source code of the application

Step 3: Initialise the pre-commit in the repository

Command: pre-commit install

```
root@attackdefense:~/github-repos/wifi-password-cli#
root@attackdefense:~/github-repos/wifi-password-cli# pre-commit install
pre-commit installed at .git/hooks/pre-commit
root@attackdefense:~/github-repos/wifi-password-cli#
```

Step 4: Add the changes to the local git repository.

Command: git add . && git commit -m "Add files"

While trying to commit the files, the pre-commit identified AWS credentials stored inside the source code which could be leaked publicly.

Issues Detected:

• AWS Credentials exposed

Learnings

Perform Sensitive Information Scan using the Pre-commit tool.