**Building Docker Containers**

**Building a Kali Linux Docker Container on Windows 10**

**1. Switch to Linux containers:**

By default, Docker Desktop for Windows might be running Windows containers. You'll need to switch to Linux containers:

* Right-click on the Docker icon in the system tray.
* Choose "Switch to Linux containers."

If you can't find the option in the system tray, you can also switch using the command line:

For Linux containers: & 'C:\Program Files\Docker\Docker\DockerCli.exe' -SwitchLinuxEngine

**2. Pull the Kali Linux base image:**

Open a terminal (like PowerShell or Command Prompt) and run:

$ docker pull kalilinux/kali-rolling

**3. Create a Docker file:**

Create a new file named Docker file and add the following:

Docker file:

FROM kalilinux/kali-rolling

# You can add any additional installation commands, for example:

RUN apt-get update && apt-get install -y metasploit-framework nmap tcpdump

# Allow passwordless sudo for simplicity in a container environment

RUN echo "root ALL=(ALL) NOPASSWD: ALL" > /etc/sudoers

CMD ["/bin/bash"]

**4. Build the Docker image:**

Navigate to the directory containing your Dockerfile and run:

$ docker build -t my-kali-image

**5. Run the Docker container:**

$ docker run -it my-kali-image

Building a Windows Docker Container on Windows 10

**Building Windows Docker Image:**

**1. Switch to Windows containers:**

Right-click on the Docker icon in the system tray.

Choose "Switch to Windows containers."

**2. Pull a Windows base image:**

docker pull mcr.microsoft.com/windows/servercore:ltsc2019

**3. Create a Dockerfile:**

Create a new file named Dockerfile and add the following:

Dockerfile:

FROM mcr.microsoft.com/windows/servercore:ltsc2019

# You can add any additional installation commands, for example:

# RUN powershell.exe -Command Install-WindowsFeature Web-Server

CMD ["cmd"]

**4. Build the Docker image:**

Navigate to the directory containing your Docker file and run:

$ docker build -t my-windows-image

**5. Run the Docker container:**

docker run -it my-windows-image