

PHISHING WORKSHOP PREPARATION GUIDE



A. VMWare Workstation Installation Guide

Step 1: Check System Requirements

Ensure your system meets the minimum requirements to install VMware Workstation:

1. **Processor:** 64-bit x86 Intel or AMD processor.
2. **RAM:** At least 4GB of RAM; 8GB or more is recommended for better performance.
3. **Disk Space:** Minimum of 1.5GB of free disk space for installation, plus additional space for virtual machines.

Step 2: Download VMware Workstation

1. Go to the VMware Workstation download page (<https://softwareupdate.vmware.com/cds/vmw-desktop/ws/>).
2. Select the latest version and download based on your operating system.
3. Save the installer file to your computer.

Step 3: Run the Installer

1. Locate the downloaded installer file.
2. Double-click the installer to start the installation process.
3. If prompted by the User Account Control (UAC), click **Yes** to allow the installer to make changes.

Step 4: Install VMware Workstation

1. On the Welcome screen, click **Next** to start the setup.
2. **Accept the License Agreement** by selecting the checkbox, then click **Next**.
3. **Choose the Installation Folder:**
 - By default, VMware Workstation will be installed in C:\Program Files (x86)\VMware\VMware Workstation.
 - To install it in a different location, click **Change...** and select the desired folder.
4. Click **Next** after choosing your folder.

Step 5: Configure Installation Options

1. **Check for Product Updates:** Select whether you want VMware Workstation to check for updates each time it starts.
2. **Join the VMware Customer Experience Improvement Program** (optional): Select this if you wish to help improve VMware products.
3. Click **Next** to proceed.

Step 6: Shortcut Options

1. **Create Desktop Shortcut:** Select if you want a shortcut on your desktop.
2. **Add to Start Menu:** Select if you want VMware Workstation in the Start Menu for easy access.
3. Click **Next** to continue.

Step 7: Begin Installation

1. Review your selected options.
2. Click **Install** to start installing VMware Workstation on your computer.
3. The installation may take a few minutes. Wait for it to complete.

Step 8: Activate VMware Workstation (for Pro version)

1. If you purchased VMware Workstation Pro, you'll need to enter your license key.
 - When prompted, enter the license key in the provided field.
2. For the free VMware Workstation Player version, select **Use VMware Workstation Player for free for non-commercial use**.

Step 9: Finish Installation

1. Once the installation is complete, click **Finish**.
2. You may be prompted to restart your computer to complete the installation. If so, save any work, then click **Restart Now**.

Step 10: Launch VMware Workstation

1. Double-click the VMware Workstation shortcut on your desktop or open it from the Start Menu.
2. VMware Workstation will launch, and you'll be ready to create and manage virtual machines.

Step 11: Create a New Virtual Machine (Optional)

1. Click **Create a New Virtual Machine** on the VMware Workstation main screen.
2. Follow the prompts to select your installation source, operating system type, and other settings.
3. Once configured, start your virtual machine.

Your VMware Workstation is now fully installed and ready to use!

For more information:

Visit https://knowledge.broadcom.com/external/article/344595/downloading-and-installing-vmware-workst.html#mcetoc_1htuurlgpi

B. Installing Kali Linux as a virtual machine

Step 1: Download the Kali Linux VMware Image

1. Go to the [Kali Linux Virtual Machines download page](#).
2. Scroll down and select the **VMware** option to download the prebuilt Kali Linux VMware image.
3. Choose the appropriate file (typically **64-bit** for most modern computers), and select **Download**.
4. After downloading, locate the compressed .7z file in your downloads folder.

Step 2: Extract the Kali Linux VMware Image

1. To extract the .7z file, you'll need software like [7-Zip](#) or [WinRAR](#).
2. Right-click the .7z file and choose **Extract Here** (with 7-Zip) or **Extract files...** (with WinRAR).
3. Wait for the extraction to complete. You should now see a folder containing the Kali Linux VMware files, including a .vmx file (the VMware configuration file).

Step 3: Open VMware Workstation and Import the Kali VM

1. Open **VMware Workstation** on your computer.
2. Go to **File > Open...** or click **Open a Virtual Machine** on the VMware Workstation home screen.
3. Navigate to the folder where you extracted the Kali Linux files and select the .vmx file.
4. Click **Open** to import the Kali Linux virtual machine into VMware Workstation.

Step 4: Configure VM Settings (Optional)

1. Select the newly imported **Kali Linux** virtual machine from the list in VMware Workstation.
2. Click on **Edit virtual machine settings**.
3. **Adjust Hardware Resources** (Optional):
 - **Memory:** Allocate at least 2GB (2048MB) of RAM, although 4GB or more is recommended for better performance.
 - **Processors:** Set the number of processors and cores per processor. A minimum of 2 cores is recommended.
 - **Network Adapter:** Choose **NAT** if you want the VM to access the internet through your host machine's connection, or **Bridged** if you want the VM to act as if it's directly on the network.
4. Click **OK** to save any changes.

Step 5: Power On the Kali Linux Virtual Machine

1. With the Kali Linux VM selected, click **Power on this virtual machine**.
2. The virtual machine will start, and you should see the Kali Linux login screen.

Step 6: Log In to Kali Linux

1. By default, the Kali Linux image from Offensive Security typically uses the following default credentials:
 - **Username:** kali
 - **Password:** kali
2. Enter the credentials and press **Enter** to log in.

For more information:

Visit <https://www.kali.org/docs/virtualization/install-vmware-guest-vm/>

C. Installing Windows as a virtual machine

Step 1: Download the Windows 10 ISO

1. Go to the [Windows 10 download page](#).
2. Scroll down and select **Download Tool Now** to download the **Media Creation Tool** or download the ISO if using non Windows based browser.
3. Run the Media Creation Tool and choose the **Create installation media** option.
4. Select the **language**, **edition** (Windows 10), and **architecture** (64-bit or 32-bit).
5. Choose **ISO file** as the media type and save it to your computer.
6. Once the download completes, locate the Windows 10 ISO file.

Step 2: Open VMware Workstation and Create a New Virtual Machine

1. Open **VMware Workstation**.
2. Go to **File > New Virtual Machine...** or click **Create a New Virtual Machine** on the home screen.

Step 3: Select the Installation Method

1. In the **New Virtual Machine Wizard**, select **Typical (recommended)** and click **Next**.
2. Choose **Installer disc image file (iso)** and browse to the downloaded Windows 10 ISO file.
3. Select the ISO file and click **Open**, then **Next**.

Step 4: Enter Windows Product Key and Version

1. VMware will prompt you to enter a product key (optional). You can skip this step if you plan to activate Windows later.
2. Select the **Windows version** you wish to install (e.g., Home, Pro) and click **Next**.

Step 5: Set Up the Windows User Information

1. Enter a **Username** and **Password** (optional) for the Windows 10 setup and click **Next**.

Step 6: Name the Virtual Machine and Choose Location

1. Enter a name for the virtual machine (e.g., "Windows 10").
2. Choose a location to save the virtual machine files on your computer, then click **Next**.

Step 7: Specify Disk Capacity

1. Set the maximum disk size for the virtual machine. A recommended size is **60GB** or more.
2. Choose **Store virtual disk as a single file** for better performance, then click **Next**.

Step 8: Customize Hardware (Optional)

1. In the summary window, click **Customize Hardware...** to adjust settings if needed.

- **Memory:** Allocate at least 4GB of RAM (4096MB) for Windows 10, though 8GB is ideal.
 - **Processors:** Set to 2 processors if your system allows it.
 - **Network Adapter:** Set to **NAT** if you want the VM to use the host machine's network, or **Bridged** to give it a direct connection.
2. Click **Close** after configuring hardware, then **Finish** to create the virtual machine.

Step 9: Power On the Virtual Machine and Begin Installation

1. Select the Windows 10 VM from the list and click **Power on this virtual machine**.
2. Windows 10 setup will begin. Choose your **language, time and currency format**, and **keyboard layout**, then click **Next**.
3. Click **Install Now** to start the installation.

Step 10: Enter Product Key (Optional)

1. If you haven't already entered a product key, you'll be prompted here. You can skip this step and choose **I don't have a product key** to proceed.

Step 11: Accept the License Agreement and Choose Installation Type

1. Accept the **license terms** and click **Next**.
2. Choose **Custom: Install Windows only (advanced)**.

Step 12: Select the Virtual Disk for Installation

1. You'll see a list of partitions (likely just one unallocated space). Select it and click **Next**.
2. Windows will start copying files, and the installation process will begin. This may take several minutes.

Step 13: Complete Windows Setup

1. After installation, the VM will reboot, and the Windows setup screen will appear.
2. Follow the prompts to customize settings, choose a **timezone**, and configure **privacy settings**.
3. Set up your **user account** (if you haven't already) and **password**.

Step 14: Install VMware Tools (Optional but Recommended)

1. Once Windows 10 is installed, go to **VM > Install VMware Tools** in the VMware menu.
2. Follow the prompts in Windows to install VMware Tools, which improves VM performance, display resolution, and device compatibility.
3. Restart the VM after VMware Tools installation.

Step 15: Take a Snapshot (Optional)

1. To save the current state of your clean Windows 10 install, go to **VM > Snapshot > Take Snapshot**.

2. Name the snapshot (e.g., “Clean Install”) and click **Take Snapshot**.

Your Windows 10 virtual machine is now fully installed and ready to use in VMware Workstation!

For more information:

Visit <https://knowledge.broadcom.com/external/article/314940/installing-windows-10-as-a-guest-operati.html#:~:text=From%20the%20VMware%20Fusion%20top,Virtual%20Disk%20and%20Click%20Continue.>

D. Disable firewall and real time protection on Windows guest

Turn Off Real-Time Protection

1. Open Windows Security:

- Click on the **Start Menu** and type **Windows Security** in the search bar. Select **Windows Security** from the results.

2. Go to Virus & Threat Protection:

- In the Windows Security window, click on **Virus & threat protection** on the left sidebar.

3. Manage Settings:

- Under **Virus & threat protection settings**, click on **Manage settings**.

4. Turn Off Real-Time Protection:

- Toggle the **Real-time protection** switch to **Off**. Confirm any prompts or warnings that may appear.

Note: Real-time protection will automatically turn back on after a while or after a system restart. To keep it off permanently, consider using group policy settings (available on Windows 10 Pro and Enterprise editions).

Step 2: Turn Off Windows Firewall

1. Open Windows Security:

- From the Start Menu, type **Windows Security** and select it.

2. Go to Firewall & Network Protection:

- In Windows Security, select **Firewall & network protection** from the left sidebar.

3. Select Network Type:

- Choose the type of network you are connected to (e.g., **Domain network**, **Private network**, or **Public network**).

4. Turn Off Firewall:

- Toggle the **Microsoft Defender Firewall** switch to **Off** for each network type you want to disable the firewall on.
- Confirm any prompts or warnings that appear.

Note: Turning off the firewall can make your device more vulnerable. Only disable it temporarily and re-enable it as soon as possible.

E. Installing Visual Studio Code

Step 1: Download the Visual Studio Code Installer

1. Go to the official Visual Studio Code download page:
<https://code.visualstudio.com/download>
2. The website will automatically suggest the appropriate download for your operating system (Windows, macOS, or Linux).
3. Click the **Download** button under your operating system. For Windows users, this will typically download a .exe file.
4. Once the download is complete, locate the installer in your **Downloads** folder.

Step 2: Run the Installer

1. Double-click the downloaded .exe file (on Windows) or the appropriate installer file for your OS.
2. If prompted by User Account Control (UAC), click **Yes** to allow the installation.

Step 3: Accept the License Agreement

1. Read through the **License Agreement** and select **I accept the agreement**.
2. Click **Next** to proceed.

Step 4: Choose Installation Location

1. Choose the destination folder where you want to install Visual Studio Code (or leave it as the default).
2. Click **Next** to continue.

Step 5: Select Additional Tasks (Optional but Recommended)

1. Check the following options for convenience (optional but recommended):
 - **Add "Open with Code" action to Windows Explorer file context menu**
 - **Add "Open with Code" action to Windows Explorer directory context menu**
 - **Register Code as an editor for supported file types**
 - **Add to PATH (available after restart)**
2. Click **Next**, then **Install** to begin the installation.

Step 6: Complete the Installation

1. Wait for the installation to finish.
2. Once done, you can choose to **Launch Visual Studio Code** immediately by keeping the checkbox selected.
3. Click **Finish** to complete the setup.

Step 7: Launch Visual Studio Code

1. If not already launched, open **Visual Studio Code** from your **Start Menu** or Desktop shortcut.
2. On the first launch, you may be prompted to install recommended extensions—feel free to explore them based on your programming needs.

For more information:

Visit the official documentation at <https://code.visualstudio.com/docs>

F. Creating a Chrome Profile and Setting Up for Evilginx

Step 1: Create a New Chrome Profile

1. Open **Google Chrome**.
2. Click on the **Profile icon** in the top right corner of the Chrome window (next to the three-dot menu).
3. Click on **Add**.
4. In the "**Set up your new Chrome profile**" window:
 - Click "**Continue without an account**" at the bottom.
 - Enter a name, e.g., evilginx.
 - Choose a theme color (optional).
 - Click **Done**.
5. A new Chrome window will open with your **evilginx** profile.

Step 2: Download and Install the Required Chrome Extensions

1. Open each of the following links in the evilginx Chrome profile window and click **Add to Chrome** for each:
 - **EditThisCookieV3**
<https://chromewebstore.google.com/detail/editthiscookie-v3/ojfebgpkimhlhcbalbfjblapadhbol>
 - **LocalStorageManager**
<https://chromewebstore.google.com/detail/local-storage-manager/gblgaabfeickfogegnkgbehmbbnbnbpn>
 - **ManageLocalStorage**
<https://chromewebstore.google.com/detail/manage-localstorage/hjbkmghihndbbjggaiocmlihachebmcn>
 - **StorageAce**
<https://chromewebstore.google.com/detail/storageace/cpbgcbbmddckpmhfbdkceolkkhkjjumplo>

Step 3: Enable the Bookmarks Bar

1. Click the **three-dot menu (burger icon)** in the top-right corner.
2. Go to **Bookmarks > Show bookmarks bar** and click it to enable.
3. The bookmarks bar should now be visible under the address bar.

Step 4: Bookmark the Clear Browser Data Page

1. In the address bar, type or paste:
chrome://settings/clearBrowserData
2. Press **Enter** to open the page.
3. Click the **star icon** on the right side of the address bar to bookmark the page.
4. Name the bookmark something like ClearData and ensure it's saved to the **Bookmarks Bar**.

G. Installing Go on Windows (via .msi Installer)

Step 1: Visit the Official Go Download Page

1. Open **Google Chrome** (or any browser).
2. Navigate to the official Go download page:

<https://go.dev/dl/>

(Tip: You can type or paste it directly into the address bar)

Step 2: Download the Windows .msi Installer

1. Once on the download page, look for the section titled "**Featured downloads**".
2. Under **Windows**, click the link that ends with .msi (e.g., go1.23.0.windows-amd64.msi).
3. Your browser will begin downloading the .msi installer.

Step 3: Run the Installer

1. Once the download is complete, click on the downloaded file (bottom-left of Chrome or from your Downloads folder).
2. The **Go Setup Wizard** will open.
3. Click **Next**.
4. Choose the default installation path (or change it if you have a preference).
5. Click **Next**, then **Install**.
6. If prompted by **User Account Control**, click **Yes**.
7. Wait for installation to complete, then click **Finish**.

Step 4: Verify Go Installation

1. Press Win + R to open **Run**, type cmd, then press **Enter**.
2. In the Command Prompt, type:

go or **go version**

3. You should see output like:

go version go1.23.0 windows/amd64

H. Installing Git on Windows

Step 1: Visit the Official Git Download Page

1. Open **Google Chrome** (or any browser).
2. Navigate to the official Git download page:

<https://git-scm.com/download/win>

(Tip: You can type or paste the link directly into the address bar.)

Step 2: Download the Git Installer

1. On the download page, you'll automatically see the download link for the **Windows** version of Git.
2. Click on the **Download** button (it will typically say something like "**Git for Windows**"). This will download the .exe installer.
3. The download of the .exe file will begin.

Step 3: Run the Installer

1. Once the download is complete, open the **Downloads** folder or click the file from the bottom of your browser to run the installer.
2. The **Git Setup Wizard** will open.
3. Click **Next** to proceed with the default settings.

Step 4: Choose Installation Settings (Optional)

1. Select the installation options as follows (you can go with the defaults unless you have specific needs):
 - **Select components:** Leave all the options checked unless you don't need them.
 - **Choose the default editor:** You can keep the default Vim editor or select another like Notepad++.
 - **Adjust your PATH environment:** Choose "**Use Git from the command line and also from 3rd-party software**" for easier use of Git from the Command Prompt.
 - **HTTPS transport backend:** Choose "**Use the OpenSSL library**" for most setups.
 - **Configuring the line ending conversions:** Select "**Checkout Windows-style, commit Unix-style line endings**".
2. Click **Next** to continue, and then **Install**.

Step 5: Complete the Installation

1. Wait for the installation to complete.
2. When finished, click **Finish** to close the installation window.

Step 6: Verify Git Installation

1. Press Win + R to open **Run**, type cmd, then press **Enter** to open the Command Prompt.
2. In the Command Prompt, type:

git --version

3. You should see output similar to:

git version 2.x.x.windows.x

I. Installing Evilginx on Windows

Step 1: Open Command Prompt

1. Press Win + R to open **Run**, type **cmd**, and press **Enter** to open the **Command Prompt**.

Step 2: Create a Directory for Evilginx

1. In the Command Prompt, navigate to your **Desktop** by typing:

cd Desktop

and press **Enter**.

2. Now, create a directory called **phishing** to store Evilginx files:

mkdir phishing

and press **Enter**.

Step 3: Clone the Evilginx Repository

1. In the same Command Prompt window, navigate to the **phishing** folder:

cd phishing

and press **Enter**.

2. Clone the Evilginx repository from GitHub:

git clone https://github.com/kgretzky/evilginx2

and press **Enter**.

This will download the Evilginx files into a folder called evilginx2.

Step 4: Navigate to the Evilginx Directory

1. Now, navigate to the evilginx2 directory:

cd evilginx2

and press **Enter**.

Step 5: Run the Evilginx Setup Script

1. Run the Evilginx build and start script by typing:

build_run.bat

and press **Enter**.

2. The script will begin to build Evilginx and start it.

Step 6: Allow Firewall Access (If Prompted)

1. If you see a **Windows Firewall** prompt asking for permission, click **Allow access** to let Evilginx communicate through your firewall.

J. Installing ProtonMail Desktop on Windows

Step 1: Visit the ProtonMail Download Page

1. Open **Google Chrome** (or any browser).
2. Navigate to the official ProtonMail download page:
<https://proton.me/mail/download>.

Step 2: Download the ProtonMail Desktop Installer

1. On the download page, you'll see options for various operating systems.
2. Click the **Download** button under the **Windows** section. This will download the **ProtonMail Desktop installer**.

Step 3: Run the ProtonMail Installer

1. Once the download is complete, open your **Downloads** folder or click the file from the browser's bottom-left corner to run the installer.
2. The **ProtonMail Desktop Setup Wizard** will open.
3. Click **Next** to proceed.

Step 4: Choose Installation Settings

1. Choose the default installation path or select a different location if desired.
2. Click **Next** and then **Install**.
3. Wait for the installation to complete, then click **Finish**.

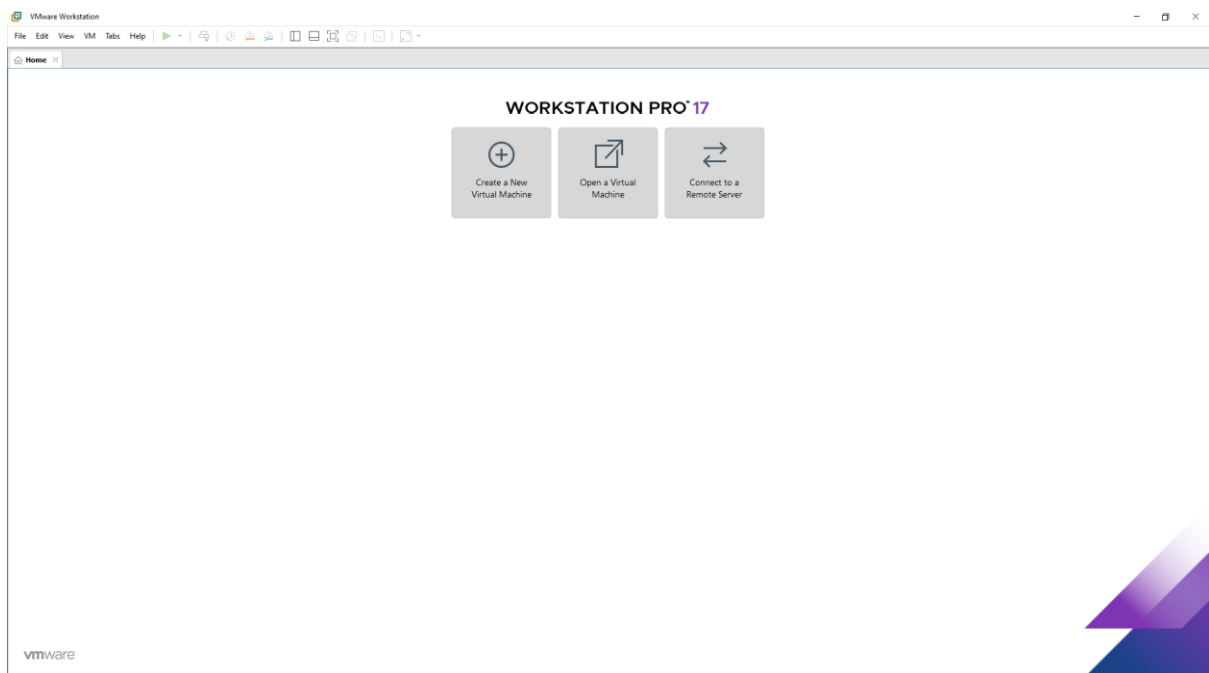
Step 5: Launch ProtonMail Desktop

1. After installation, ProtonMail Desktop should automatically launch. If not, search for **ProtonMail** in the Start Menu and open it.
2. The **ProtonMail login screen** will appear.

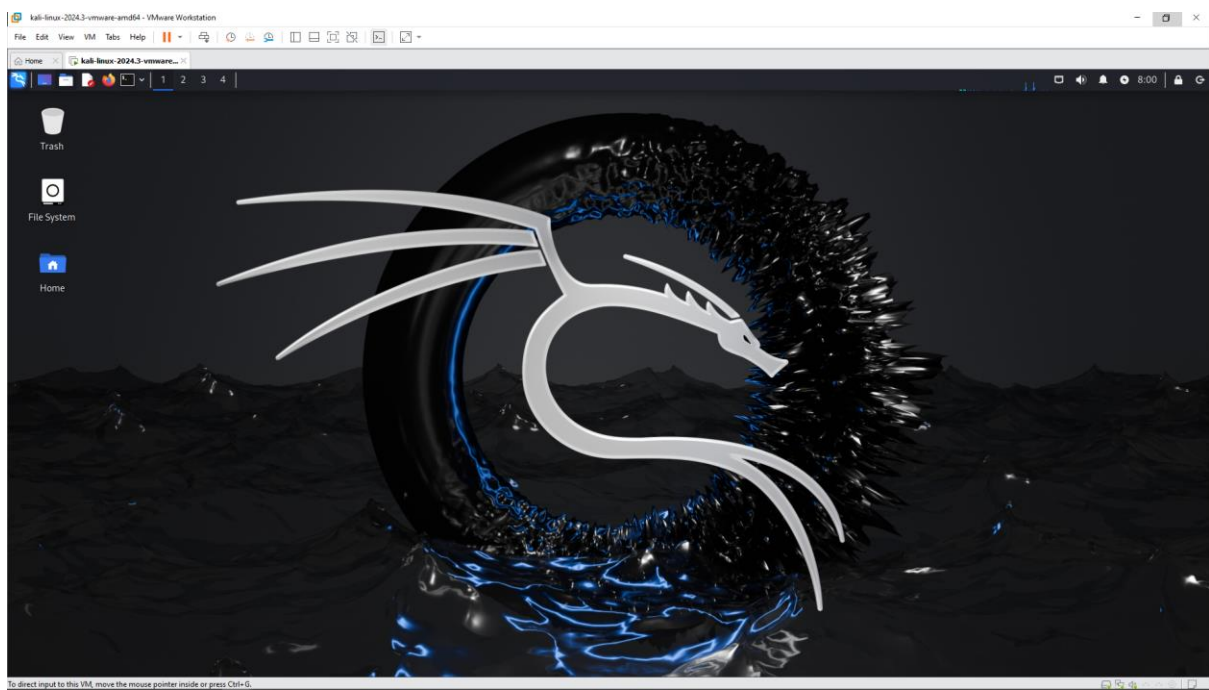
Step 6: Create two accounts in ProtonMail

1. For this workshop, you will need to create two accounts, one account for the 'victim' and one account for the 'attacker'.
2. Ensure that both accounts can send and receive emails from each other.

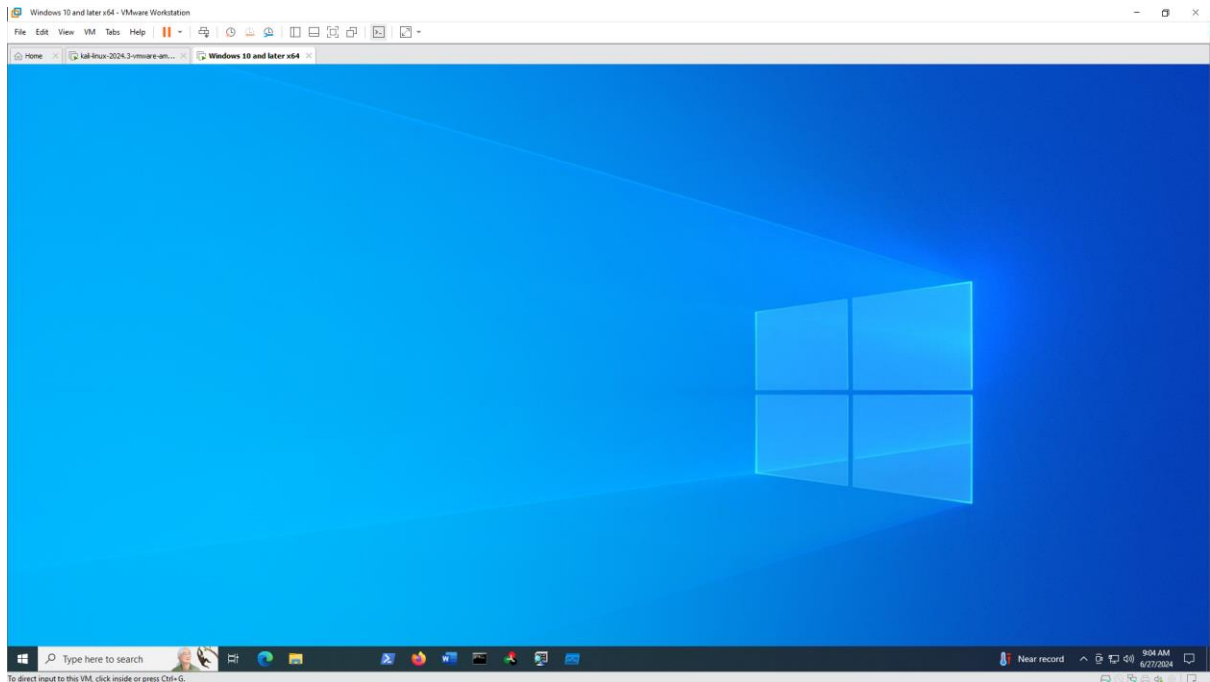
Appendix



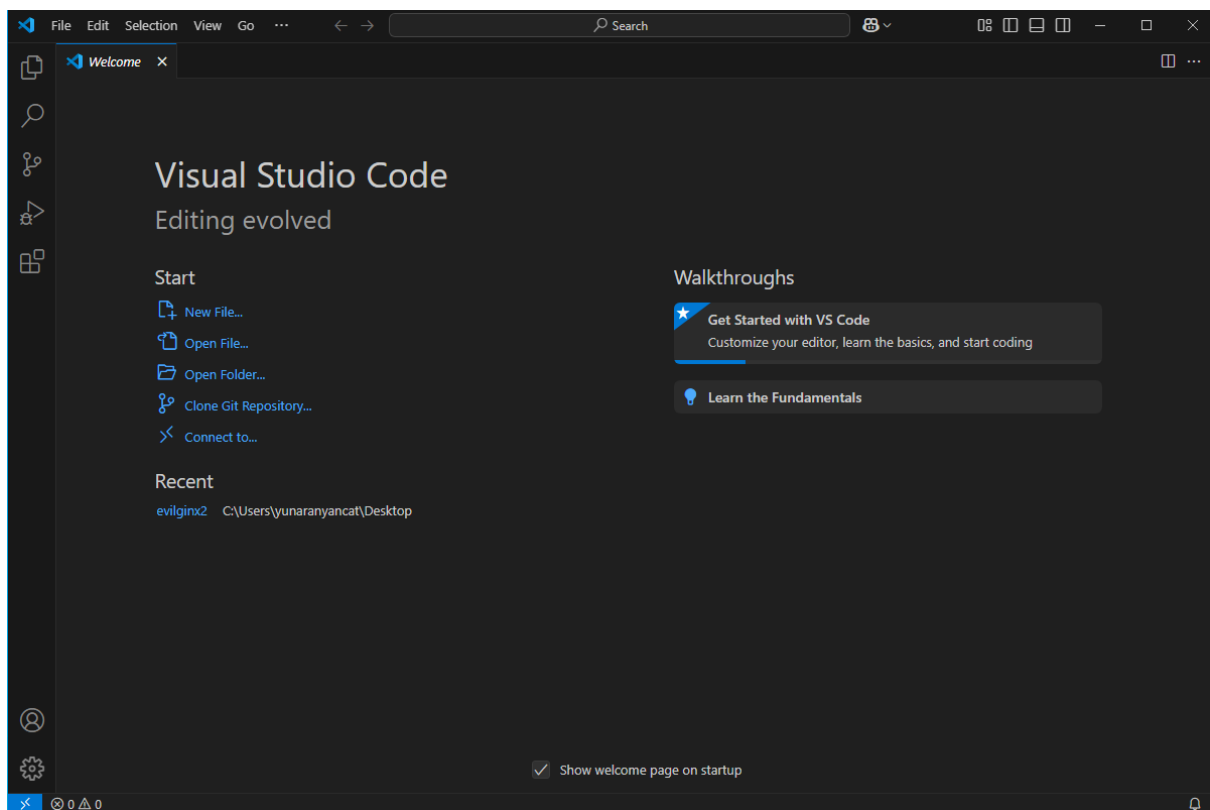
Fresh install of VMware Workstation Pro



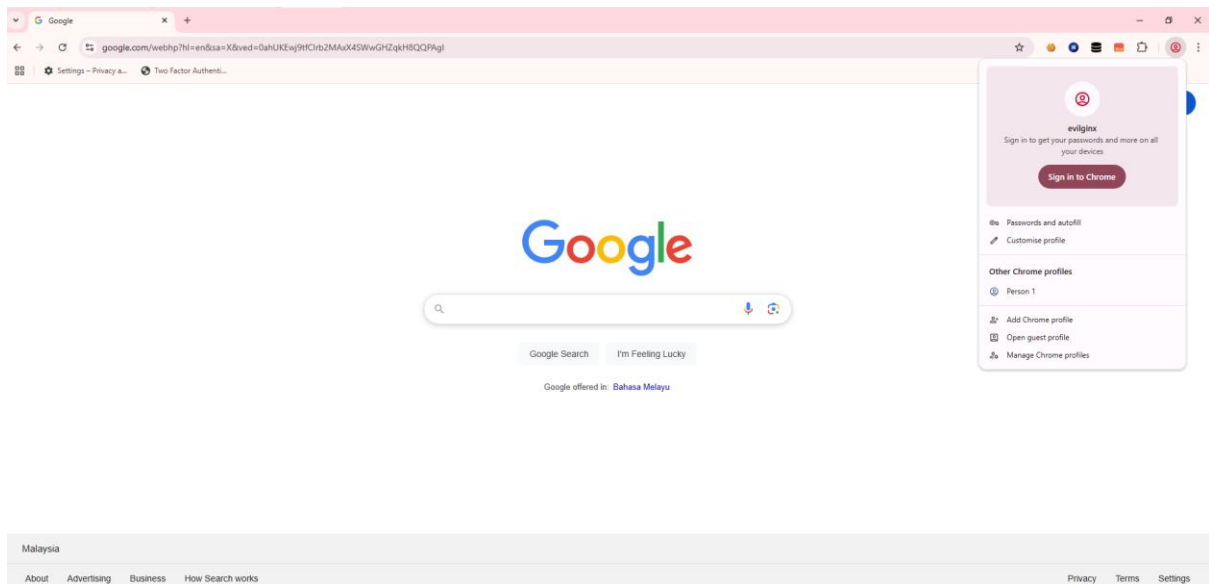
Fresh install of Kali Linux as virtual machine



Fresh install Windows 10 as virtual machine



Fresh install Visual Studio Code in Windows virtual machine



Chrome profile creation with all of the extensions + bookmark

```
C:\Users\yunaranyancat>go version
go version go1.24.0 windows/amd64

C:\Users\yunaranyancat>
```

Go installation on Windows

```
C:\> Command Prompt

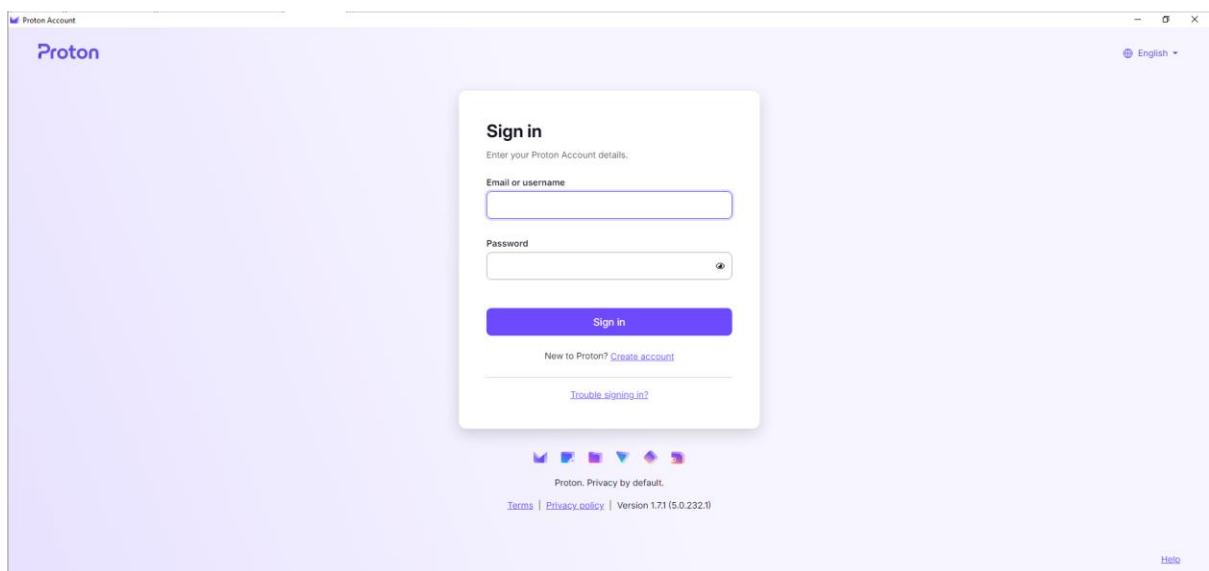
C:\Users\yunaranyancat>git --version
git version 2.48.1.windows.1

C:\Users\yunaranyancat>_
```

Git installation on Windows



Fresh evilginx installation on Windows



ProtonMail Desktop on Windows