

TryHackMe - Tutorial Machine Documentation

This document provides a comprehensive guide for setting up and completing the \*\*Tutorial\*\* machine on TryHackMe. The process includes configuring the VPN, securing the connection, and performing the required steps to complete the challenge.

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# 1. Prerequisites

Software and Hardware Requirements:

- \*\*Operating System: \*\* Kali Linux or Parrot Security OS.
- \*\*Network Access:\*\* Internet connection to access TryHackMe.
- \*\*TryHackMe Account:\*\* A registered account on [TryHackMe](https://tryhackme.com/).

# Required Tools:

- SSH access to the machine.
- Basic packages: `nano`, `curl`, `git`, `openvpn`.

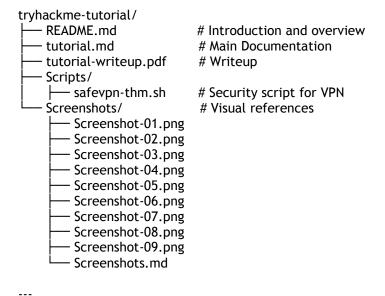
## Cloning the Repository

To access the scripts and documentation, clone this GitHub repository:

git clone https://github.com/fartaviao/tryhackme-tutorial/.git cd tryhackme-tutorial

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#### 2. Repository Structure



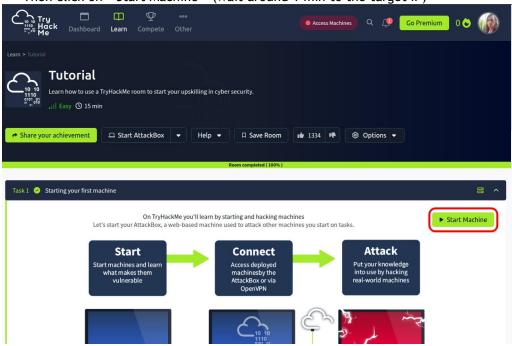
3. Step 1: Setting Up TryHackMe VPN

The first step is to establish a secure connection with the TryHackMe platform using OpenVPN.

\*\*Steps:

Access TryHackMe and Join the Tutorial Machine

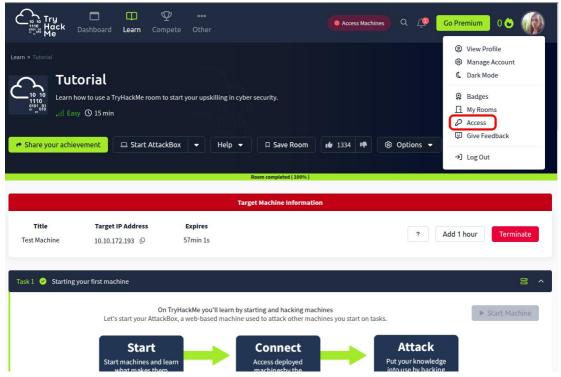
- 1. \*\*Log in to TryHackMe:\*\*
  - Visit [TryHackMe](https://tryhackme.com/) and log in.
- 2. \*\*Join the Tutorial Machine:\*\*
  - Search for the \*room\* named \*\*Tutorial\*\*.
  - Click on \*\*Join Room\*\* to participate.
  - Then click on \*\*Start Machine\*\* (wait around 1 min to the target IP)



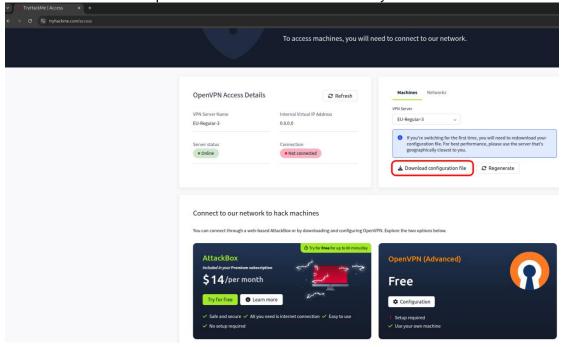
#### Download the VPN Configuration File

To connect to TryHackMe machines, we need a \*\*VPN\*\*. Follow these steps:

- 1. \*\*Access the VPN settings:\*\*
  - Click on your \*\*profile\*\* at the top-right corner of TryHackMe.
  - Select \*\*Access\*\*.



- 2. \*\*Download the configuration file: \*\*
  - In the VPN section, choose \*\*Download My Configuration File\*\*.
  - The file with the `.ovpn` extension will be downloaded to your `Downloads` folder.



Connect Kali Linux or Parrot Security to TryHackMe via VPN

- 1. \*\*Open a terminal.\*\*
- 2. \*\*Navigate to the folder where the file was downloaded:\*\*

```
cd ~/Downloads
ls
```

- You should see a file with the `.ovpn` extension (e.g., `<youruser.ovpn>` with the name of your user).
- 3. \*\*For be more organized we can crete the following structure
- ~/Downloads/TryHackMe/Tutorial/OpenVPN\*\*

```
mkdir -p TryHackMe/Tutorial/OpenVPN ls -R TryHackMe
```

- Move the .ovpn file to the OpenVPN location

```
mv youruser.ovpn TryHackMe/Tutorial/OpenVPN cd TryHackMe/Tutorial/OpenVPN ls
```

4. \*\*Run the following command to connect to the VPN:\*\*

```
sudo openvpn <youruser.ovpn>
```

- Enter your password when prompted.
- If the connection is successful, you will see a message indicating that a new network interface `tun0` has been created.

Verify Connectivity with the TryHackMe Machine

1. \*\*Open a new terminal and run:\*\*

ip a

- Look for the `tun0` interface, which should have an assigned IP address.
- 2. \*\*Check the connection to the machine:\*\*
  - Find the machine's IP address on TryHackMe.
  - Run a ping test:

```
ping -c4 <MACHINE_IP>
```

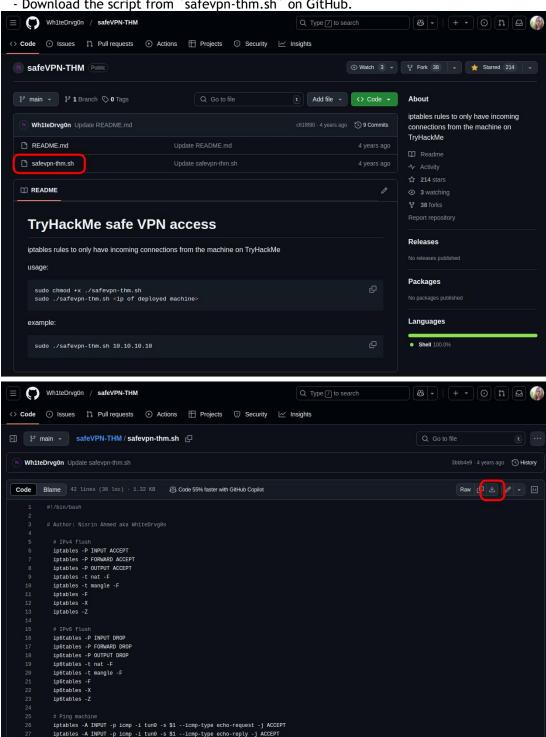
- If you receive responses, it means the  $\ensuremath{\mathsf{VPN}}$  is working correctly.

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## 4. Step 2: Securing Your Connection

For security reasons, we can restrict our machine's access to only the machine of TryHackMe VPN using `iptables`.

- 1. \*\*Download the security script:\*\*
  - Get the "Wh1teDrvgOn" Script on GitHub to ensure security in your network:
  - Open a browser and search for \*White Dragon VPN Safe\* on Google.
  - Download the script from `safevpn-thm.sh` on GitHub.



2. \*\*Move the script to the working folder\*\*

cd ~/Downloads mv safevpn-thm.sh TryHackMe/Tutorial/OpenVPN cd TryHackMe/Tutorial/OpenVPN ls

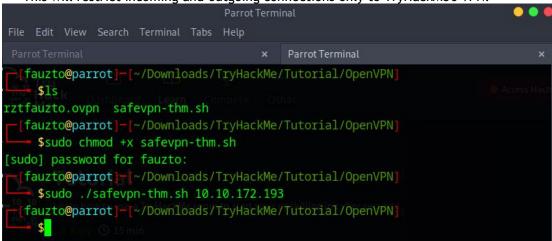
2. \*\*Grant execution permissions to the script:\*\*

sudo chmod +x safevpn-thm.sh

3. \*\*Run the script to configure firewall rules:\*\*

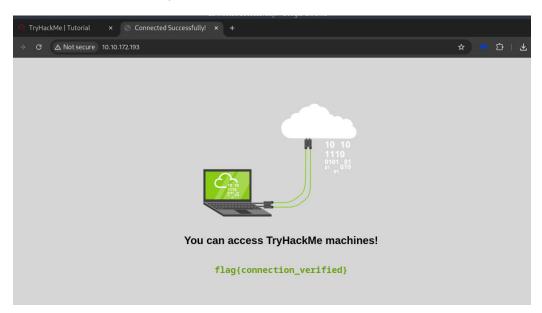
sudo ./safevpn-thm.sh <MACHINE\_IP>

- This will restrict incoming and outgoing connections only to TryHackMe's VPN.

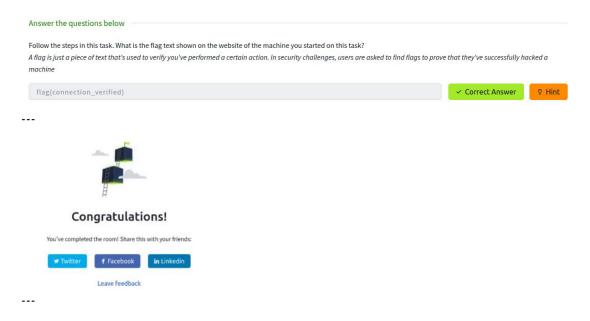


## 5. Step 3: Access the Machine and Complete the Challenge

- 1. \*\*Open a browser in Kali Linux or Parrot Security.\*\*
- 2. \*\*Enter the machine's IP address in the address bar. \*\*
- 3. \*\*Find the \*flag\* on the web page.\*\*
- 4. \*\*Copy the \*flag\* and paste it into TryHackMe.\*\*
- 5. \*\*Click \*Submit\* to complete the machine.\*\*



...



## ## 6. Validation and Testing

1. \*\*Verify VPN Connection:\*\*

ip a | grep tun0

2. \*\*Test Connectivity to the Target Machine:\*\*

ping -c 4 <MACHINE\_IP>

3. \*\*Check Firewall Rules:\*\*

sudo iptables -L

. . .

#### ## 7. Conclusion and Additional Resources

#### ### Summary

With this guide, you have successfully connected to TryHackMe via VPN, secured your connection, and completed the Tutorial machine.

## ### Recommended Resources:

- TryHackMe Official Documentation → <a href="https://tryhackme.com/">https://tryhackme.com/</a>
- OpenVPN Documentation → https://openvpn.net/
- TryHackMe safe VPN access → https://github.com/Wh1teDrvg0n/safeVPN-THM

#### ### Security Considerations

- Always \*\*disconnect the VPN\*\* after finishing a session.
- Use \*\*firewall rules\*\* to prevent unauthorized access.

#### ### Contributions

Contributions are welcome! Feel free to fork the repository, make improvements, and submit a pull request.

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