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turingpoint Pentest Box (TPBOX) Setup Guide

turingpoint GmbH

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Setup Manual

This document provides instructions for connecting the turingpoint Pentest Box in your environment.

Overview

The turingpoint Pentest Box is a pre-configured appliance used by turingpoint GmbH to conduct authorized security assessments and penetration testing within your network infrastructure. Depending on the agreed scope, it tests your network from the inside and, where a workstation assessment is part of the engagement, acts as a keyboard, mouse and display device attached to that workstation.

The box arrives ready to use. The authentication key is already stored on the device, so there is nothing to configure: once it has power and a network connection, it registers itself with the turingpoint Pentest Network and your turingpoint analyst confirms that it is online.

Prerequisites

Before connecting the box, ensure you have:

1. What is in the Box

- The turingpoint Pentest Box
- The supplied power adapter (USB-C, 5 V / 3 A)
- An Ethernet cable
- A USB-C cable and one or two HDMI cables, if the workstation assessment is part of the scope

2. Network Requirements

The box requires:

- **One Ethernet adapter** configured for DHCP
- **Internet access** for connecting to the turingpoint Pentest Network

Required Firewall Ports

Ensure the following outbound connections are permitted:

Protocol	Destination	Port	Purpose
UDP	Any	41641	Primary connection (direct)
TCP	Any	443	Fallback connection (HTTPS)

Recommended: Allow UDP port 3478 for optimal connection performance. For best results, allow the box unrestricted outbound internet access. The box does not require any inbound firewall rules.

3. Placement

Choose a location with a power socket and a network port on the segment to be assessed. If the workstation assessment is part of the scope, the box has to sit within cable reach of that workstation. The box needs no maintenance during the engagement and can stay where it is until the assessment ends.

Connecting the Box

All connectors are on one side of the device:

Connect them in the order below. **Steps 2 and 3 only apply if the assessment scope includes the workstation assessment**; if it does not, leave both connectors empty.

1. Power

Connect the supplied power adapter to the left USB-C connector, marked **5V 3A**.

Use the supplied adapter only. The box draws up to 3 A, and a weaker adapter leads to reboots under load. The box starts as soon as it has power, there is no power switch.

2. USB (KVM)

Connect the second USB-C connector to a free USB port of the workstation to be assessed.

The workstation recognises the box as a standard keyboard and mouse. No driver and no software installation is required, and no confirmation dialogue appears.

3. HDMI (KVM)

Connect **HDMI IN** to the graphics output of the workstation.

HDMI OUT is optional. Connect it to the monitor the workstation normally uses if the workstation stays in use during the assessment: the picture is then passed through and the workplace works as before. If the workstation is not being used, leave HDMI OUT empty.

4. Ethernet

Connect the Ethernet port to the network segment to be assessed.

The box obtains its address via DHCP. Make sure the port is active and that the segment meets the requirements listed under Network Requirements.

After Connecting

Once the box has power and a network address, it connects to the turingpoint Pentest Network on its own, usually within two minutes.

There is nothing to check on the device itself and no interface to log in to. Your turingpoint analyst sees the box come online and confirms it to you. If no confirmation arrives within the agreed time frame, please use the troubleshooting steps below.

Troubleshooting

The Analyst Does Not See the Box

1. Verify the power adapter is the supplied one and the box is powered
2. Verify the Ethernet port is active and the segment provides DHCP
3. Confirm internet connectivity is available from that segment
4. Check that the required firewall ports are open (UDP 41641, TCP 443)
5. Disconnect the power for ten seconds and reconnect it

No Network Address

- Ensure the Ethernet cable is connected to the intended segment
- Verify DHCP is enabled on that segment

- Check whether port security or network access control blocks unknown devices, and have the MAC address of the box allowed if required. Your turingpoint analyst can provide it

No Picture on the Monitor

This applies only where **HDMI OUT** is connected.

- Verify the monitor is connected to **HDMI OUT** and the workstation to **HDMI IN**
- Some workstations only output a picture once the monitor is detected: reconnect the cables in the order workstation, box, monitor
- Connect the monitor directly to the workstation to rule out a faulty cable

Security Notice

This box is provided solely for authorized security testing by turingpoint GmbH. The box:

- Contains proprietary turingpoint intellectual property
- Must not be opened, copied, modified, or reverse-engineered
- Remains the property of turingpoint GmbH and is returned after the engagement concludes

Support

For technical assistance or questions, contact turingpoint support:

- **Email:** support@turingpoint.de
- **Phone:** +49 (040) 52479155