



# eJPT

Lab Guidelines - V1.0

## Lab Guidelines

### In-Browser Kali Linux System

- The eJPT Exam environment is an in-browser lab environment that provides you with access to a pre-configured Kali Linux system with all tools, scripts and wordlists required to successfully answer and complete the questions/challenges associated with the exam.
- The Kali Linux system provided to you during the exam doesn't have an internet connection, as a result, you can utilize your host operating system's browser for research.
- All required exploit modules and exploit code are accessible on the Kali Linux system via the Metasploit Framework and the Exploit Database (Exploit-DB).
- You do not need to download or install any custom scripts or tools onto the in-browser Kali Linux system you have been provided access to. The Kali Linux system has everything you need to successfully complete the exam.

### What Happens If I Reset My Lab

# Environment?

- **Resetting your lab environment will result in all data stored on the Kali Linux system being deleted, as a result, please ensure that you save your scan results, notes and any other data on your local system as opposed to the Kali Linux system.**
- We recommend using note taking tools like:
  - <https://www.giuspen.net/cherrytree/>
  - <http://keepnote.org/>

## Interacting With The Kali Linux In-Browser Lab

The RDP connection to the in-browser Kali Linux system is facilitated by Apache Guacamole.

Apache Guacamole provides access to much of the functionality of a desktop from within your web browser.

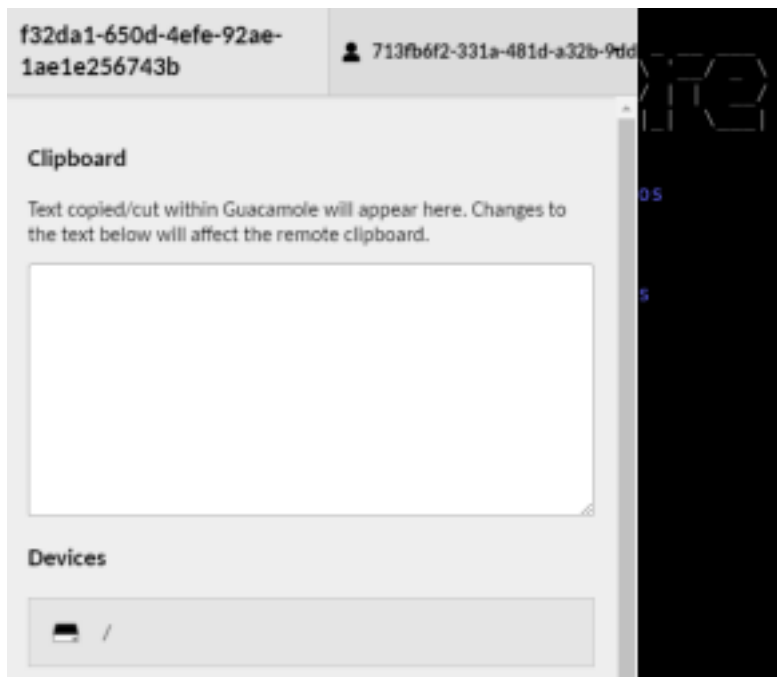
Once you launch your Kali Linux system, you will see a real-time view of the remote display. You can interact with this display just as you would your normal desktop. Your mouse and keyboard will function as if they were connected directly to the remote machine.

The remote display will take up the entire browser window, with no buttons or menus to disturb the view. With the intent of providing a seamless experience, options specific to remote desktop are hidden within the Guacamole menu, which can be opened as needed.

## Copying/Pasting Text

The Guacamole menu is a sidebar which is hidden until explicitly shown. On a desktop or

other device which has a hardware keyboard, you can show this menu by pressing Ctrl+Alt+Shift. If you are using a mobile or touchscreen device that lacks a keyboard, you can also show the menu by swiping right from the left edge of the screen. To hide the menu, you press Ctrl+Alt+Shift again or swipe left across the screen.



At the top of the Guacamole menu is a text area labeled “clipboard” along with some basic instructions.

Text copied/cut within Guacamole will appear here. Changes to the text below will affect the remote clipboard.

The text area functions as an interface between the remote clipboard and the local clipboard. Text from the local clipboard can be pasted into the text area, causing that text to be sent to the clipboard of the remote desktop. Similarly, if you copy or cut text within the remote desktop, you will see that text within the text area, and can manually copy it into the local clipboard if desired.

## Apache Guacamole Keyboard Locales

Guacamole is actually independent of keyboard layout, and will send the true local identity of the key pressed. The behavior of each key within the remote desktop should identically match the local behavior of that key.

If you attempt to use a keyboard with a different layout from the default (en-us), Guacamole will translate pressed keys as necessary to match the layout of the RDP server. If the user attempts to press keys which are not present in the keyboard layout of the RDP server, Guacamole will send those keys in the form of Unicode events. In case of issues with your keyboard locale, please utilize the on-screen keyboard or temporarily change your locale in your operating system settings.

## How Dynamic Flags Work

Dynamic flags are dynamic and randomly generated flags injected into the exam environment and are unique for every exam lab session.

When answering dynamic flag questions, the flag you submit will be directly associated with the value of the flag associated with your lab session at the time of submission.

**Don't worry, if you reset your lab environment, you don't need to update your flag questions.**

## Lab Connectivity

- When interacting with the in-browser Kali Linux system, please ensure you are working from an environment with a stable internet connection.
- Your lab environment will continue running for the entirety of the duration of the exam (48 Hours) unless reset by you.

- If you experience any lab connectivity issues, please ensure you launch the lab from a geographic region that is closest to you.