CompTIA Linux+

Accessibility

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Introduction

Welcome to the **Accessibility** Practice Lab. In this module you will be provided with the instructions and devices needed to develop your hands-on skills.

Accessibility
AccessX
Linux System

Learning Outcomes

In this module, you will complete the following exercise:

- Exercise 1 - Configure Accessibility

After completing this lab, you will be able to:

- Configure Typing Assist (AccessX)
- Configure Various Accessibility Settings

Exam Objectives

The following exam objectives are covered in this lab:

- **LPI:** 106.3 Accessibility
- **CompTIA:** 2.8 Compare and contrast Linux graphical user interfaces.

> ***Note:*** *Our main focus is to cover the practical, hands-on aspects of the exam objectives. We recommend referring to course material or a search engine to*

Lab Duration

It will take approximately **1 hour** to complete this lab.

Help and Support

For more information on using Practice Labs, please see our **Help and Support** page. You can also raise a technical support ticket from this page.

Click Next to view the Lab topology used in this module.

Lab Topology

During your session, you will have access to the following lab configuration.

PLABSA01
Windows Server 2016
192.168.0.1

PLABLINUX01
CentOS Server
192.168.0.2

PLABLINUX02
Ubuntu Server
192.168.0.3

Depending on the exercises you may or may not use all of the devices, but they are shown here in the layout to get an overall understanding of the topology of the lab.

- **PLABSA01** (Windows Server 2016)
- **PLABLINUX01** (CentOS Server)
- **PLABLINUX02** (Ubuntu Server)

Exercise 1 - Configure Accessibility

In this exercise, you will understand how to maintain system time.

Learning Outcomes

After completing this exercise, you will be able to:

- Log into a Linux System
- Configure Typing Assist (AccessX)
- Configure Various Accessibility Settings

Your Devices

You will be using the following device in this lab. Please power these on now.

- **PLABLINUX01** (CentOS Server)

PLABLINUX01
CentOS Server
192.168.0.2

Task 1 - Configure Typing Assist (AccessX)

Keyboard accessibility is very important for differently enabled users. These users might be facing a lack of vision, lack of motor skills, or a complete lack of hands. Such users are unable to use a mouse; hence, the keyboard becomes their main means of interacting with the computer. Linux provides settings that can help differently enabled users to either use screen readers if they are not able to view the screen properly or use screen magnifier to enlarge the screen text and graphics. In this task, you will enable keyboard accessibility settings.

To enable keyboard accessibility settings, perform the following steps:

Step 1

Connect to **PLABLINUX01**.

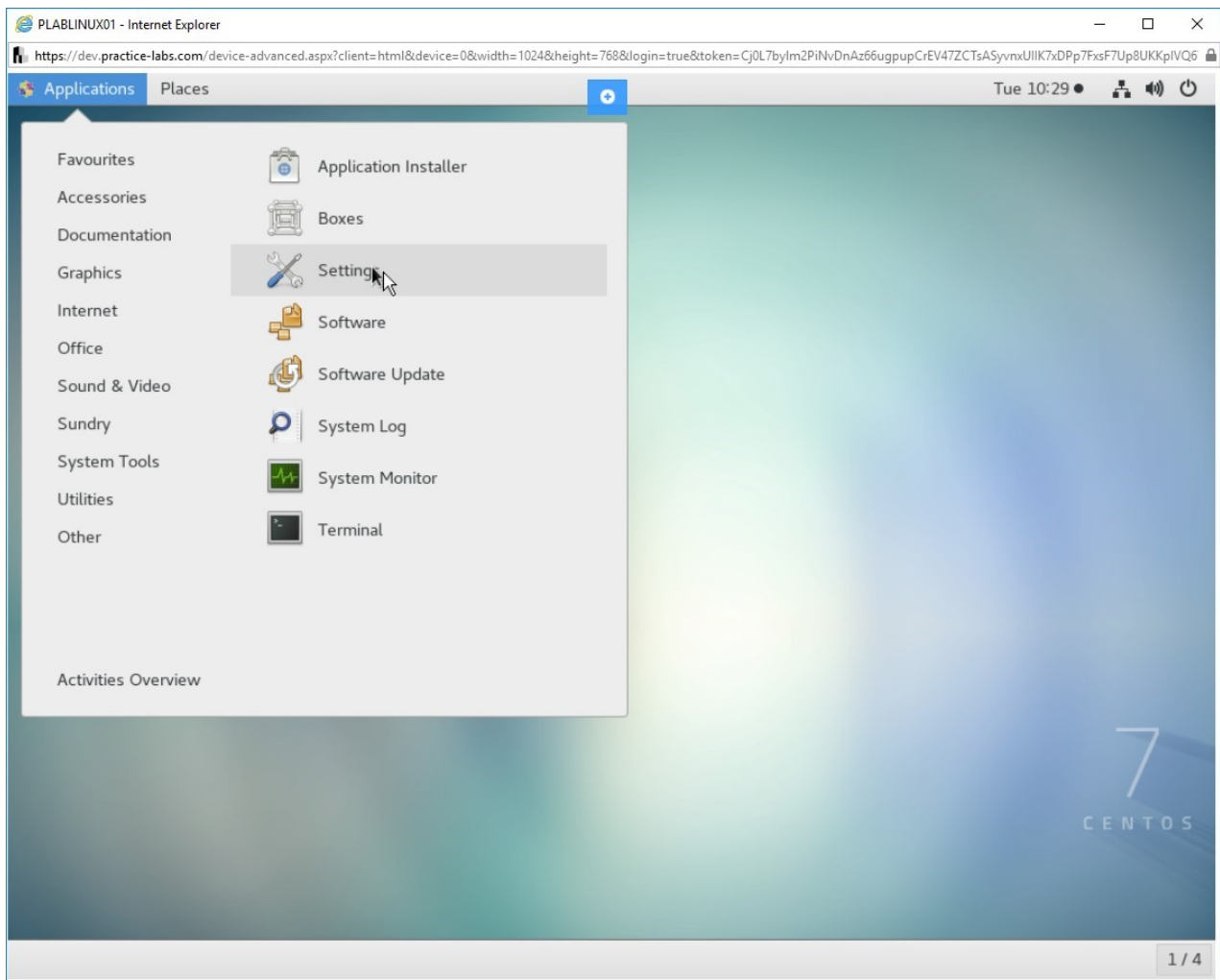Click **Applications**, select **System Tools**, and then select **Settings**.

Figure 1.1 Screenshot of PLABLINUX01: Selecting the Settings option from the Applications > System Tools menu.

Step 2

From the **Settings** window, click **Universal Access** in the left pane. The accessibility options are now displayed.
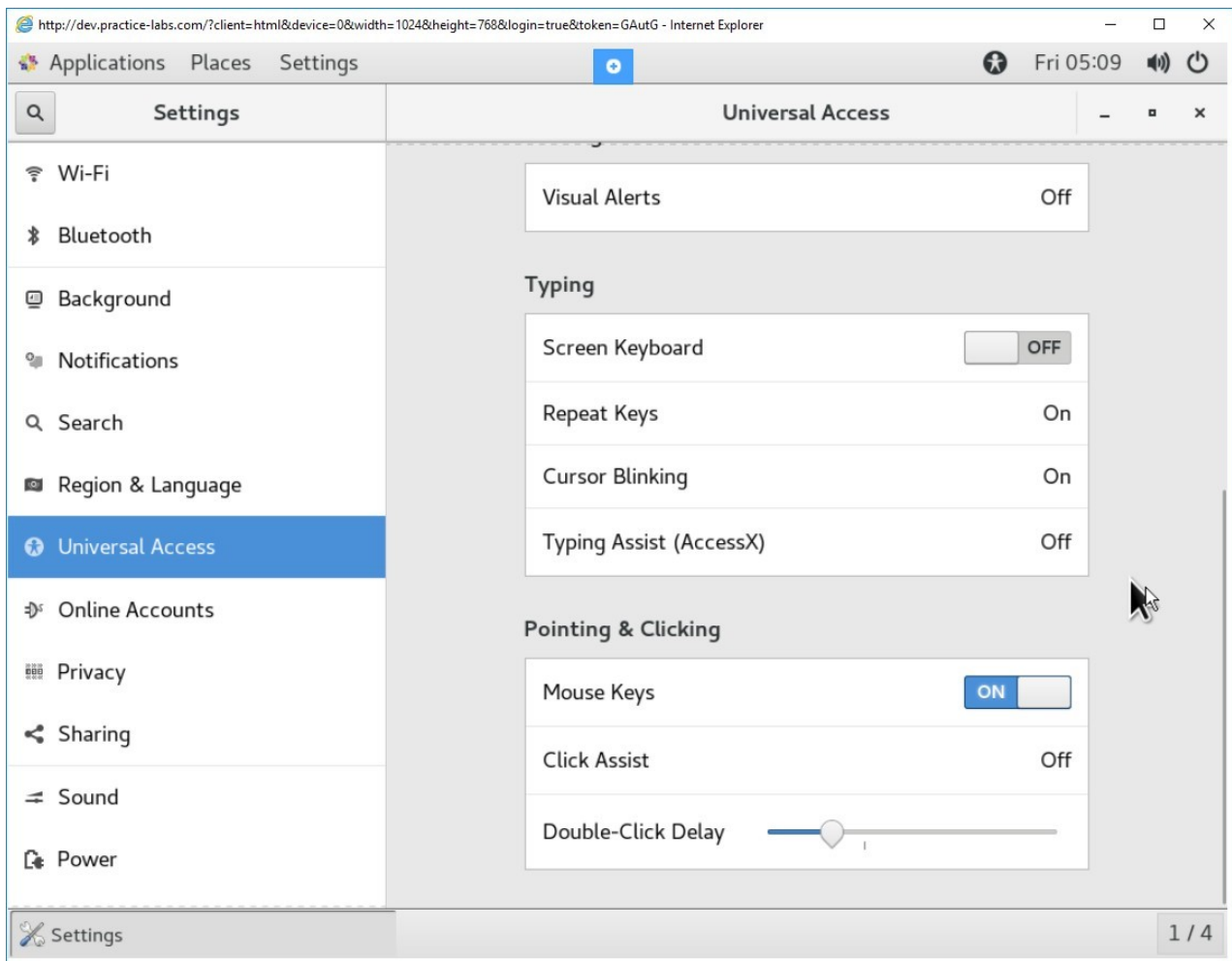
Figure 1.2 Screenshot of PLABLINUX01: Selecting the Universal Access option from the left pane.

Step 3

In the **Typing** section, click **Typing Assist (AccessX)**.
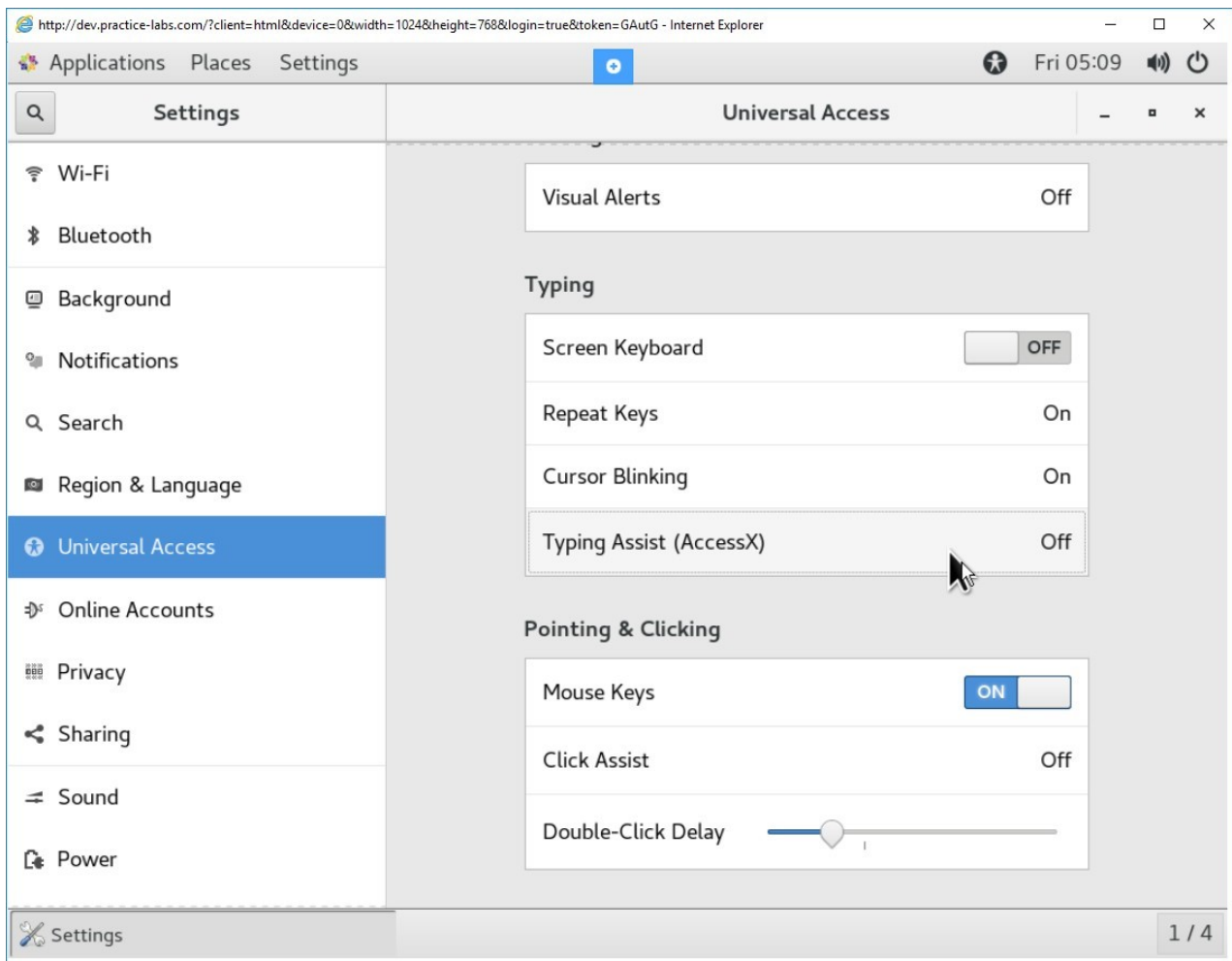
Figure 1.3 Screenshot of PLABLINUX01: Clicking typing Assist (AccessX) option in the Typing section.

Step 4

The **Typing Assist** dialog box is displayed. You can configure various keyboard settings here.
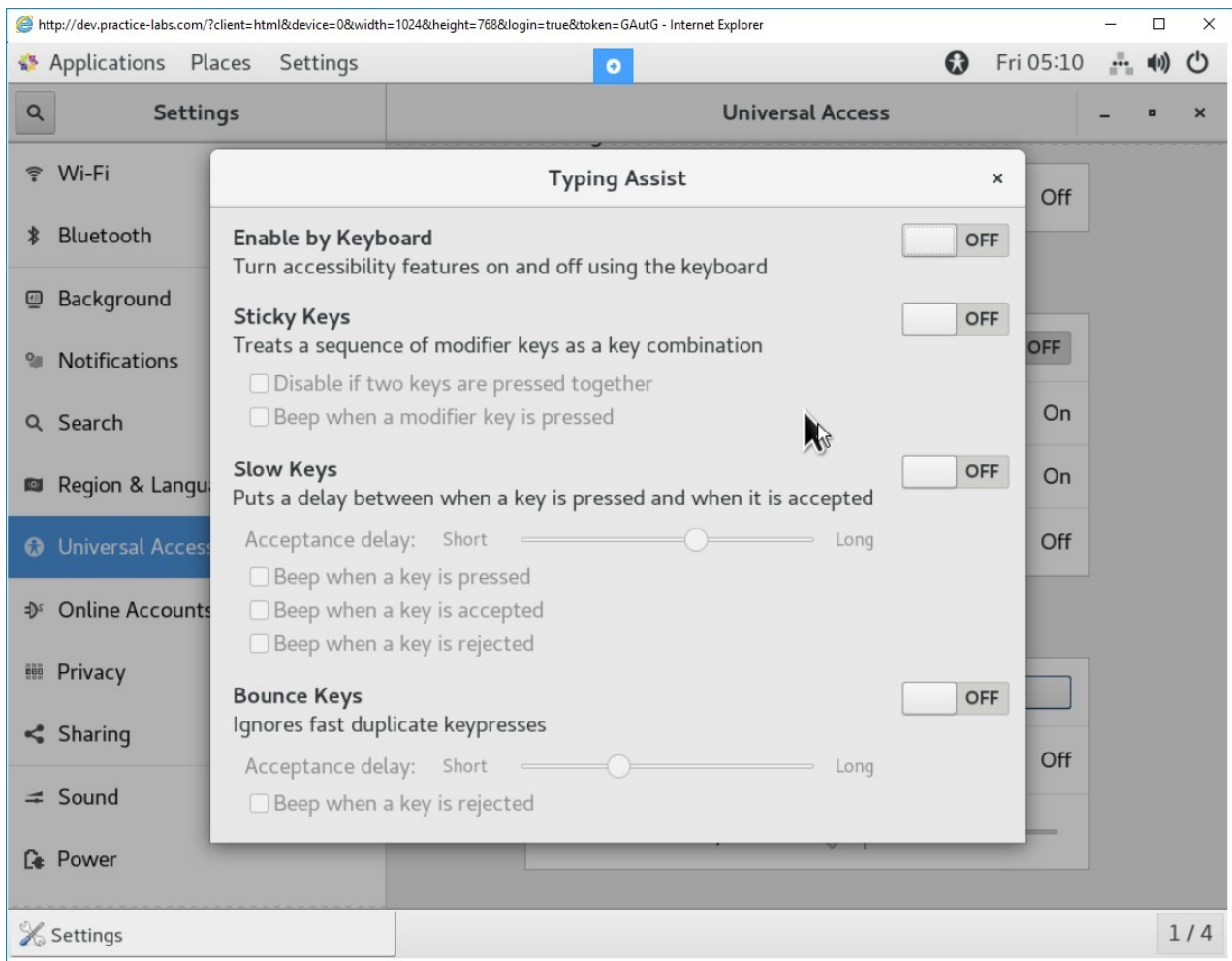
Figure 1.4 Screenshot of PLABLINUX01: Displaying the Typing Assist dialog box.

Step 5

Click **OFF** next to **Enable by Keyboard**.

Notice that the **OFF** is now hidden. **ON** is now visible.
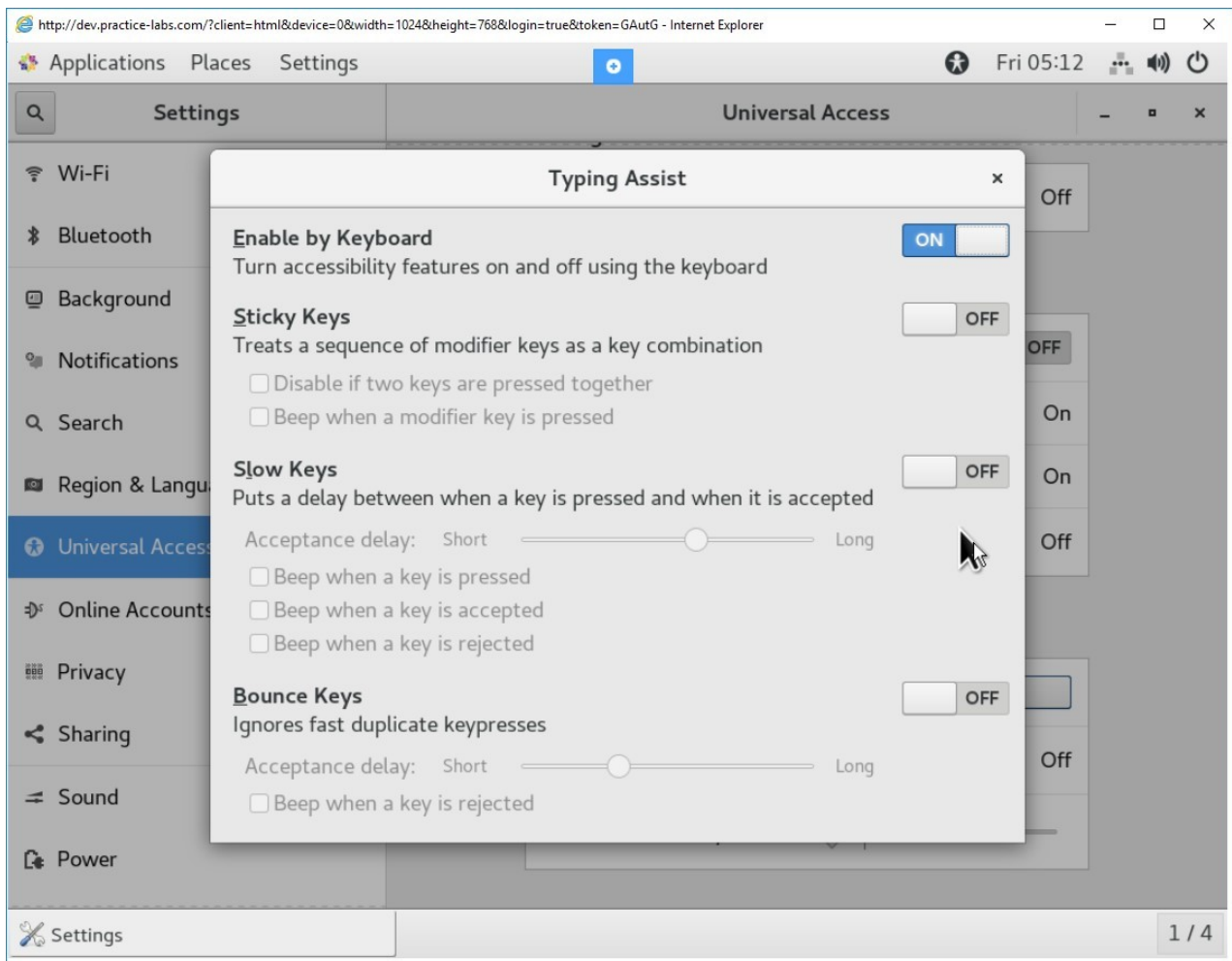
Figure 1.5 Screenshot of PLABLINUX01: Enabling the Enable by Keyboard option.

Step 6

Click **OFF** next to **Sticky Keys**.

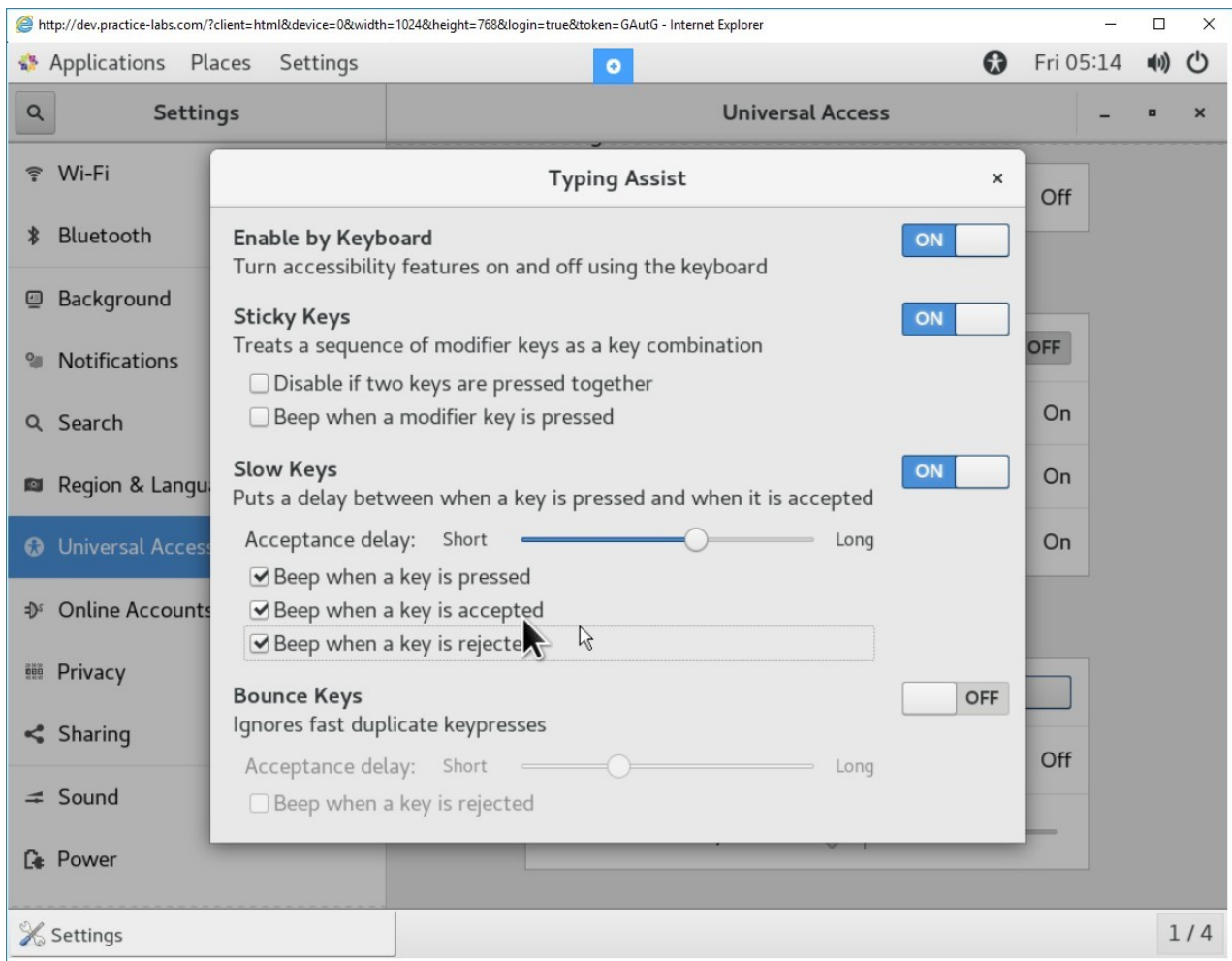Notice that the **OFF** is now hidden. **ON** is now visible.
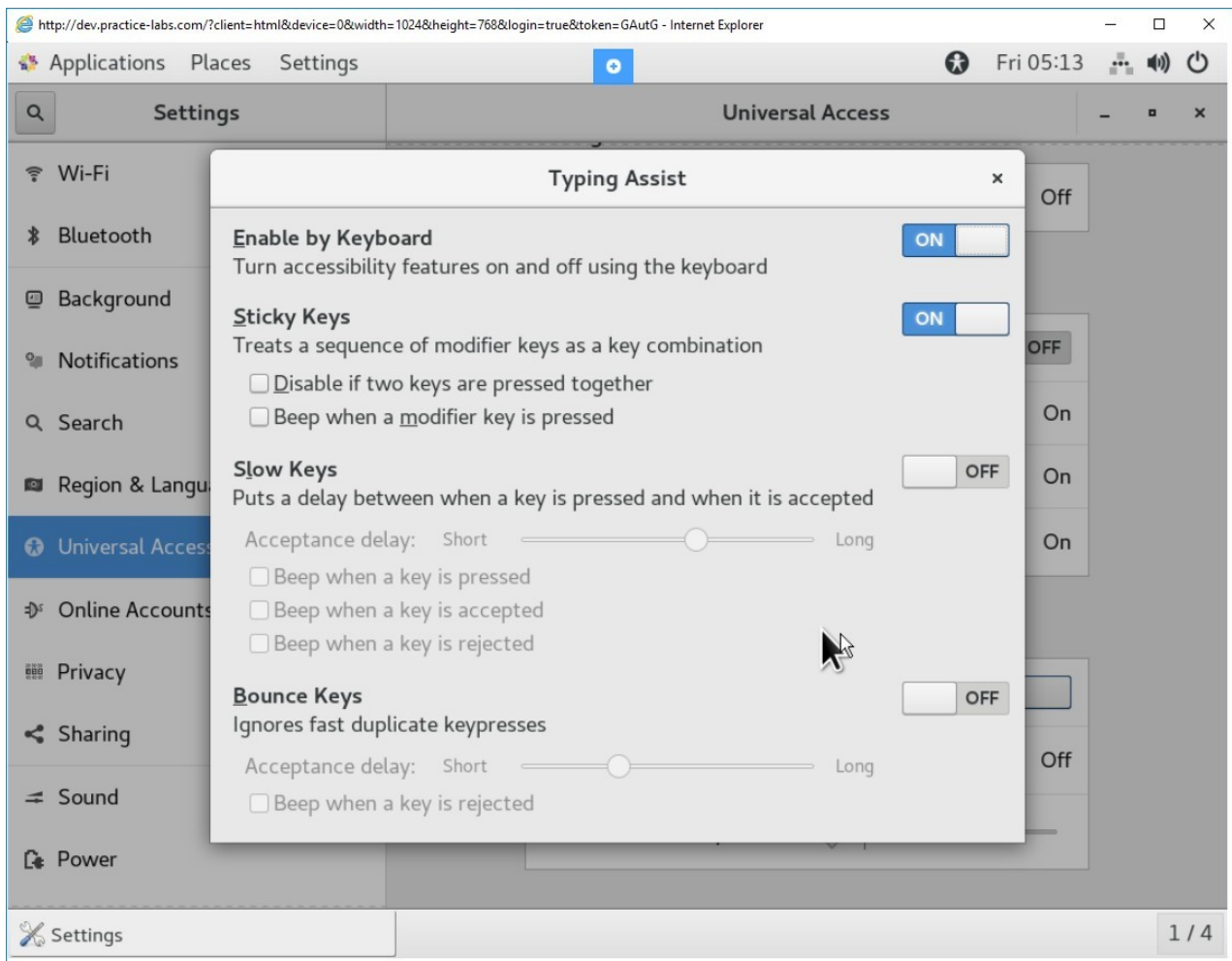
Figure 1.6 Screenshot of PLABLINUX01: Enabling the Sticky Keys option.

Step 7

Click **OFF** next to **Slow Keys**.

Notice that the **OFF** is now hidden. **ON** is now visible.

Select the following checkboxes:

- Beep when a key is pressed
- Beep when a key is accepted
- Beep when a key is rejected

Figure 1.7 Screenshot of PLABLINUX01: Enabling the Slow Keys option.

Step 8

Click **OFF** next to **Bounce Keys**.

Notice that the **OFF** is now hidden. **ON** is now visible.

Close the **Typing Assist** dialog box.
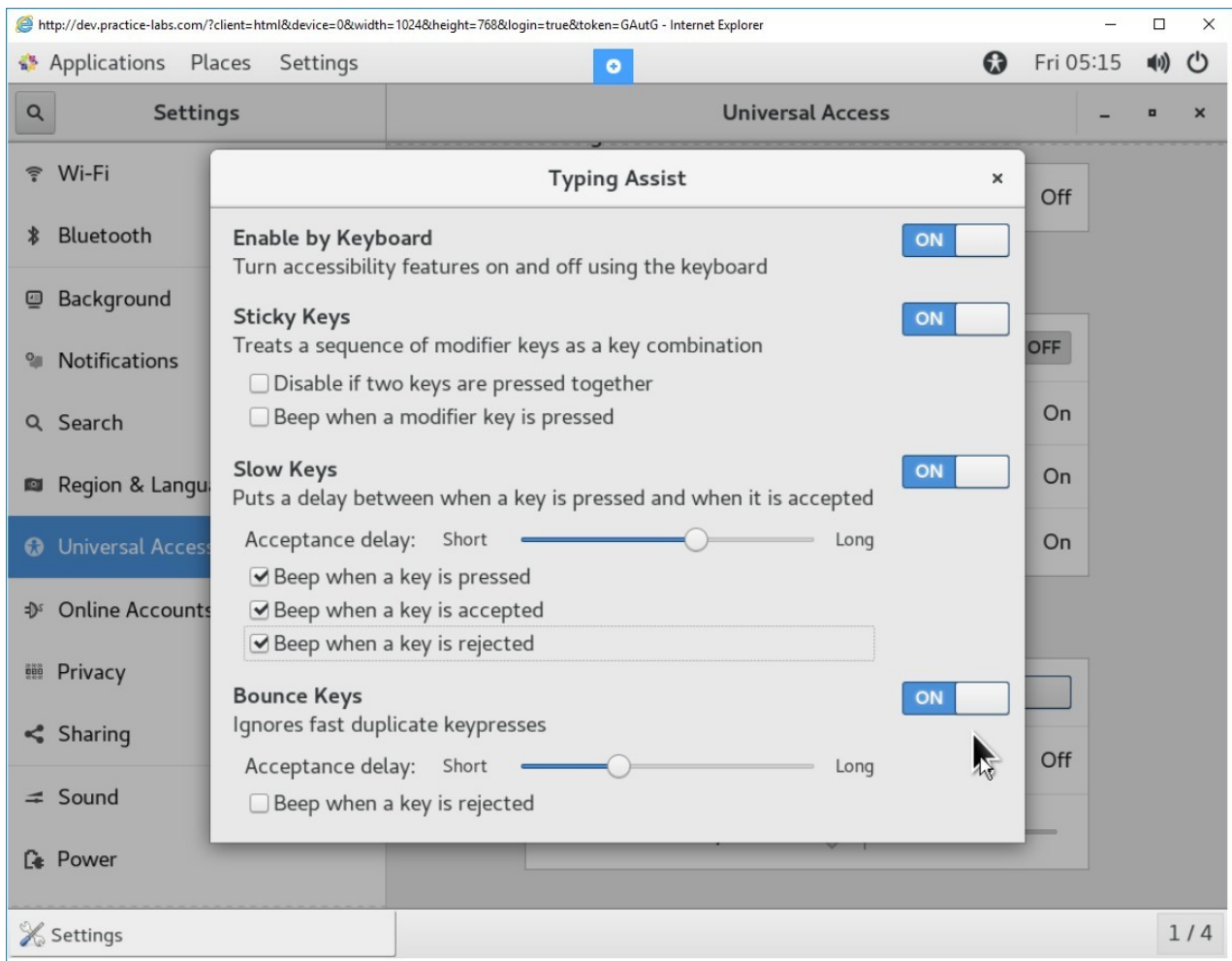
Figure 1.8 Screenshot of PLABLINUX01: Enabling the Bounce Keys option.

Step 9

You can also enable various mouse specific settings. Scroll down to the **Pointing & Clicking** section.
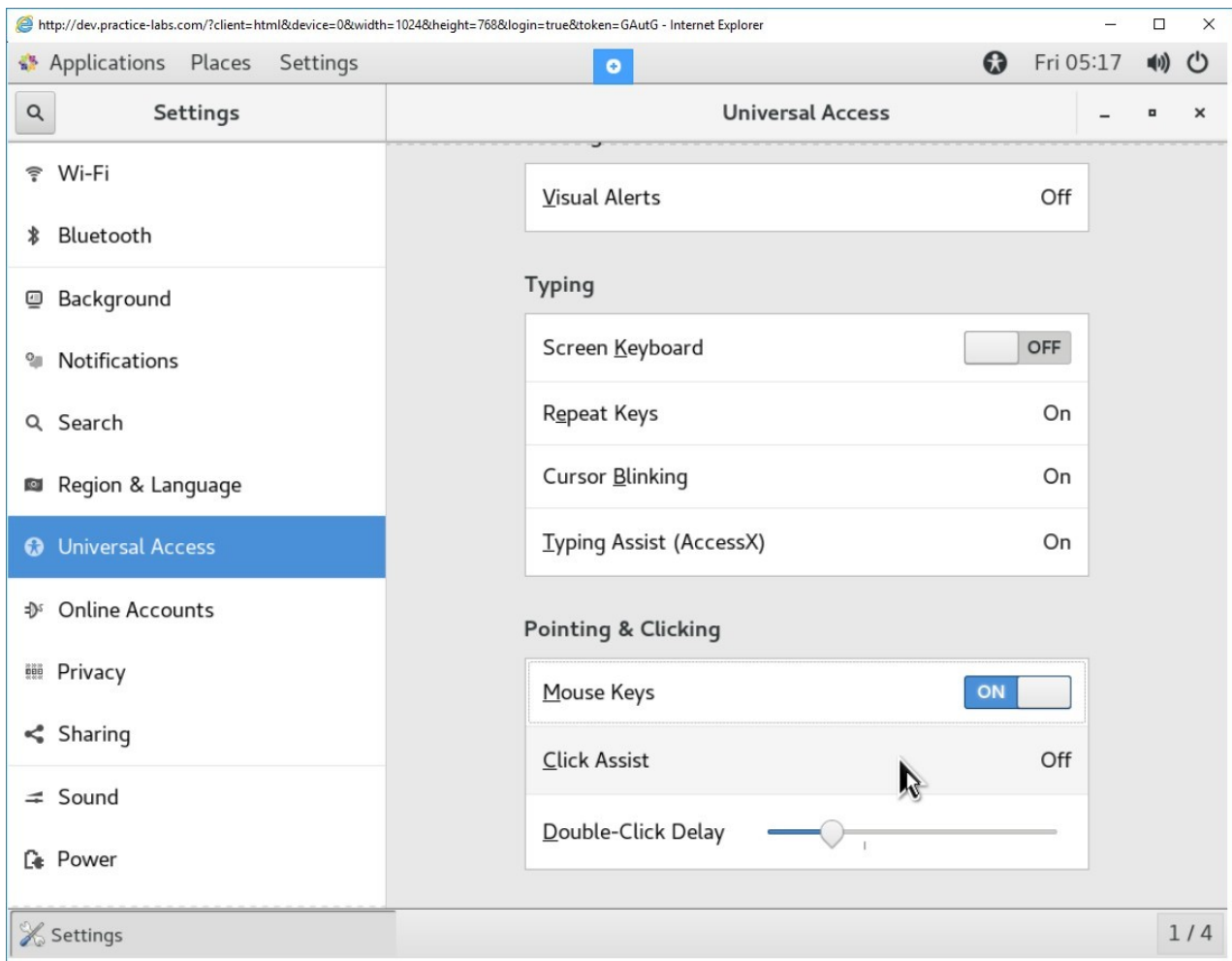
Click the **Click Assist** option.

Figure 1.9 Screenshot of PLABLINUX01: Clicking the Click Assist option.

Step 10

Click **OFF** next to **Hover Click**.

Notice that the **OFF** is now hidden. **ON** is now visible. Another small **Hover Click** dialog box is displayed.

When you switch on this option, the user does not have to click an option on the screen. When the mouse hovers over a link or button, it will automatically get clicked.
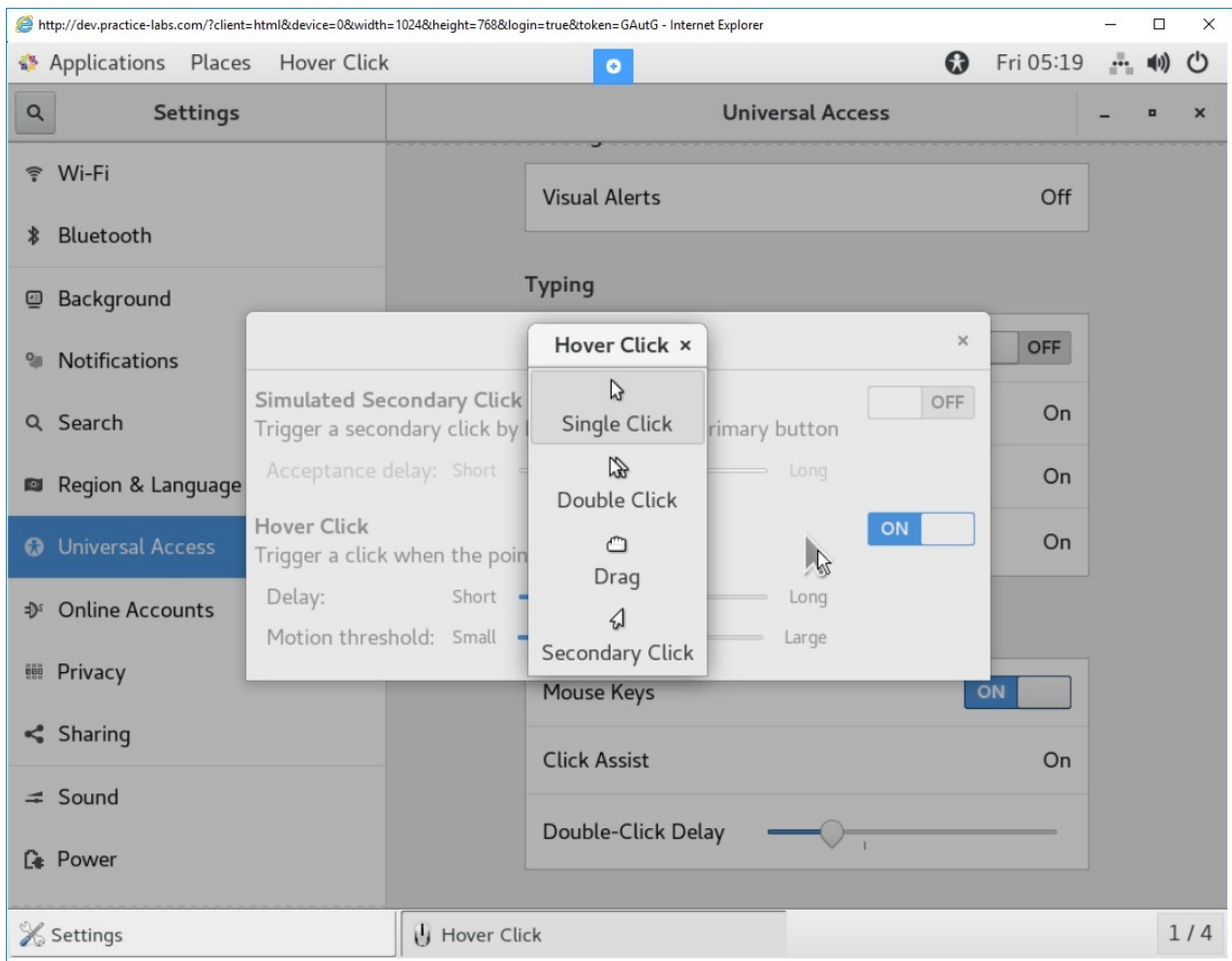
Close the small **Hover Click** dialog box.

Figure 1.10 Screenshot of PLABLINUX01: Enabling the Hover Click option.

Step 11

Hover the mouse over **OFF** next to **Simulated Secondary Click**. Keep the mouse on **OFF** for a few seconds without clicking. Notice that this option is now set to **ON**. You did not have to click.
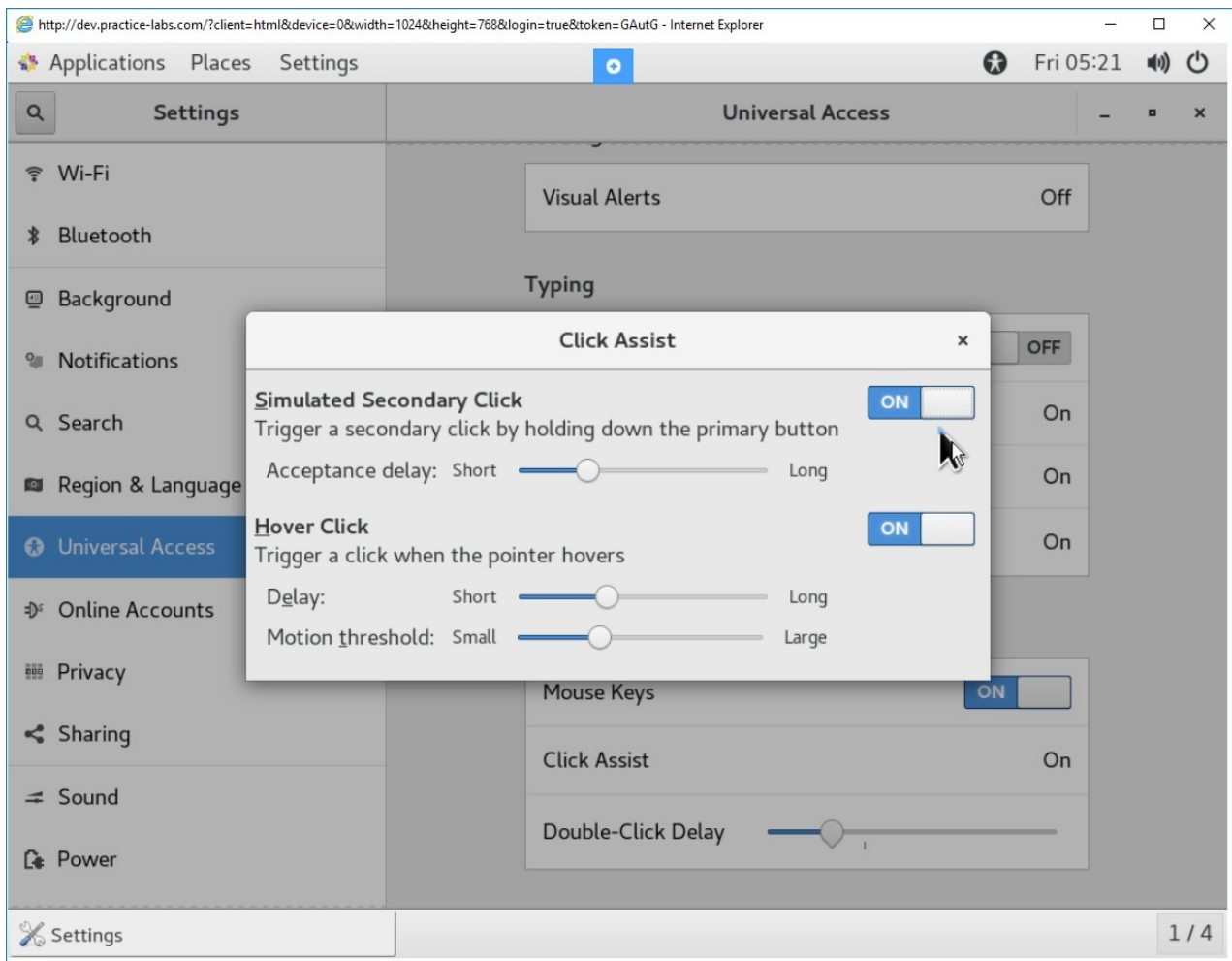
Figure 1.11 Screenshot of PLABLINUX01: Enabling the Simulated Secondary Click option.

Step 12

Switch off both the options. **OFF** should be visible for **Simulated Secondary Click** and **Hover Click**.

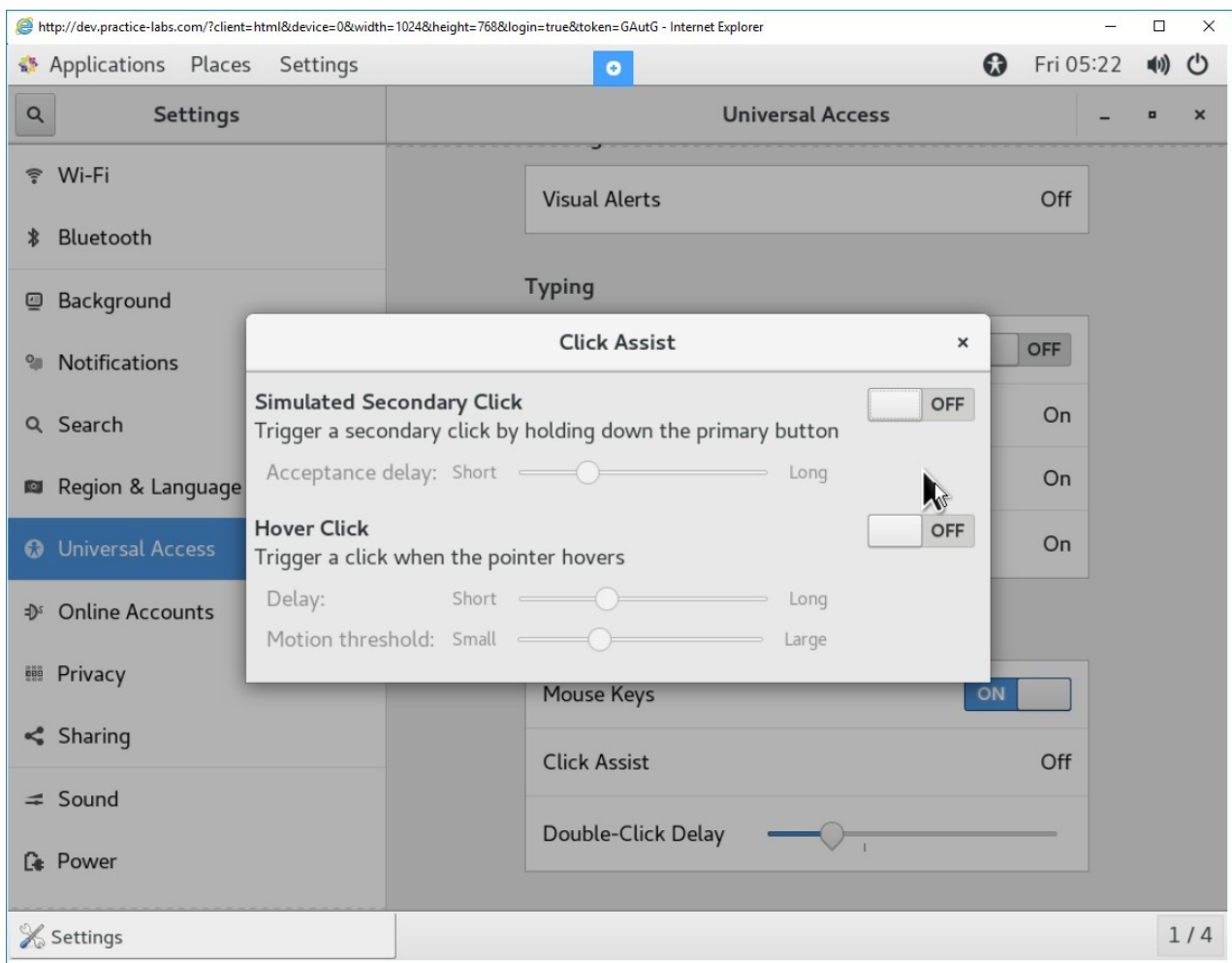Close the **Click Assist** dialog box.

Figure 1.12 Screenshot of PLABLINUX01: Disabling the Simulated Secondary Click and Hover Click options.

Task 2 - Configure Various Accessibility Settings

Other than keyboard and mouse settings, there are accessibility settings that fall in the Seeing and Hearing sections. In this task, you will configure these settings.

To configure accessibility settings related to Seeing and Hearing, perform the following steps:

Step 1

Click **OFF** next to **Large Text** in the **Seeing** section.

Notice that the **OFF** is now hidden. **ON** is now visible. Notice that the font size changes.
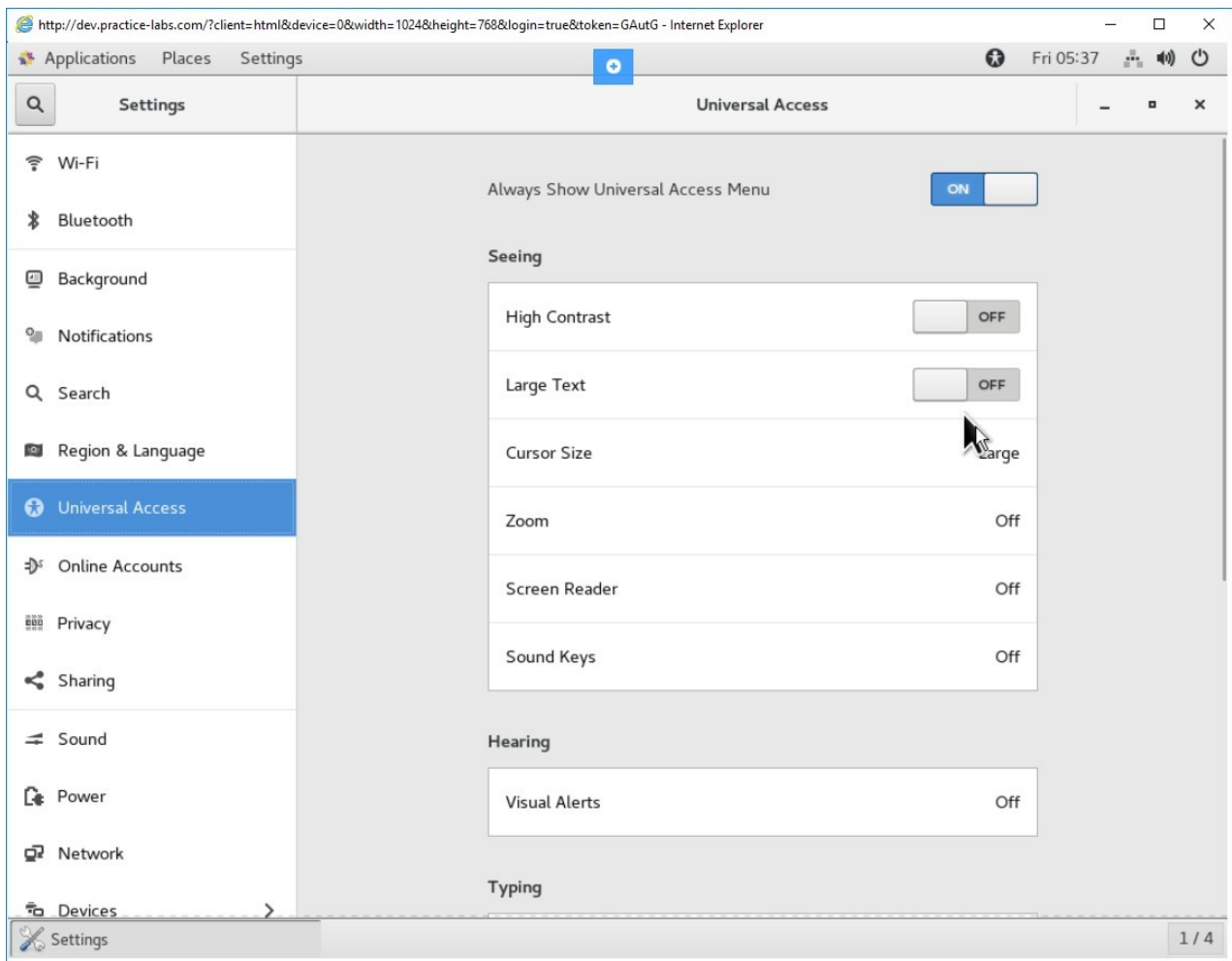
Figure 1.13 Screenshot of PLABLINUX01: Switching off the Large Text option.
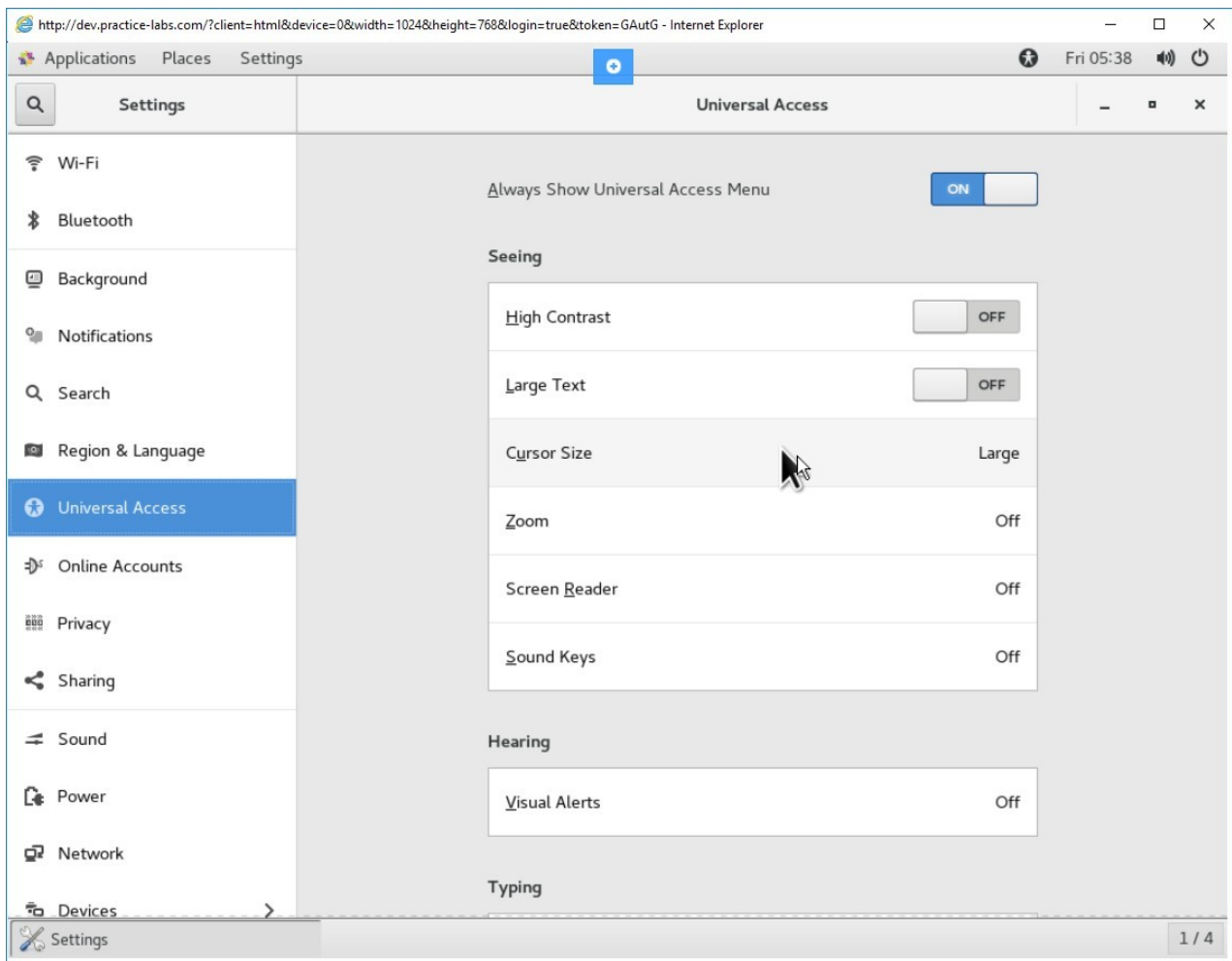
Step 2

Click **Cursor Size**.

Figure 1.14 Screenshot of PLABLINUX01: Clicking the Cursor Size option.

Step 3

In the **Cursor Size** dialog box, click the second box from the left. Notice that the cursor size is now changed.
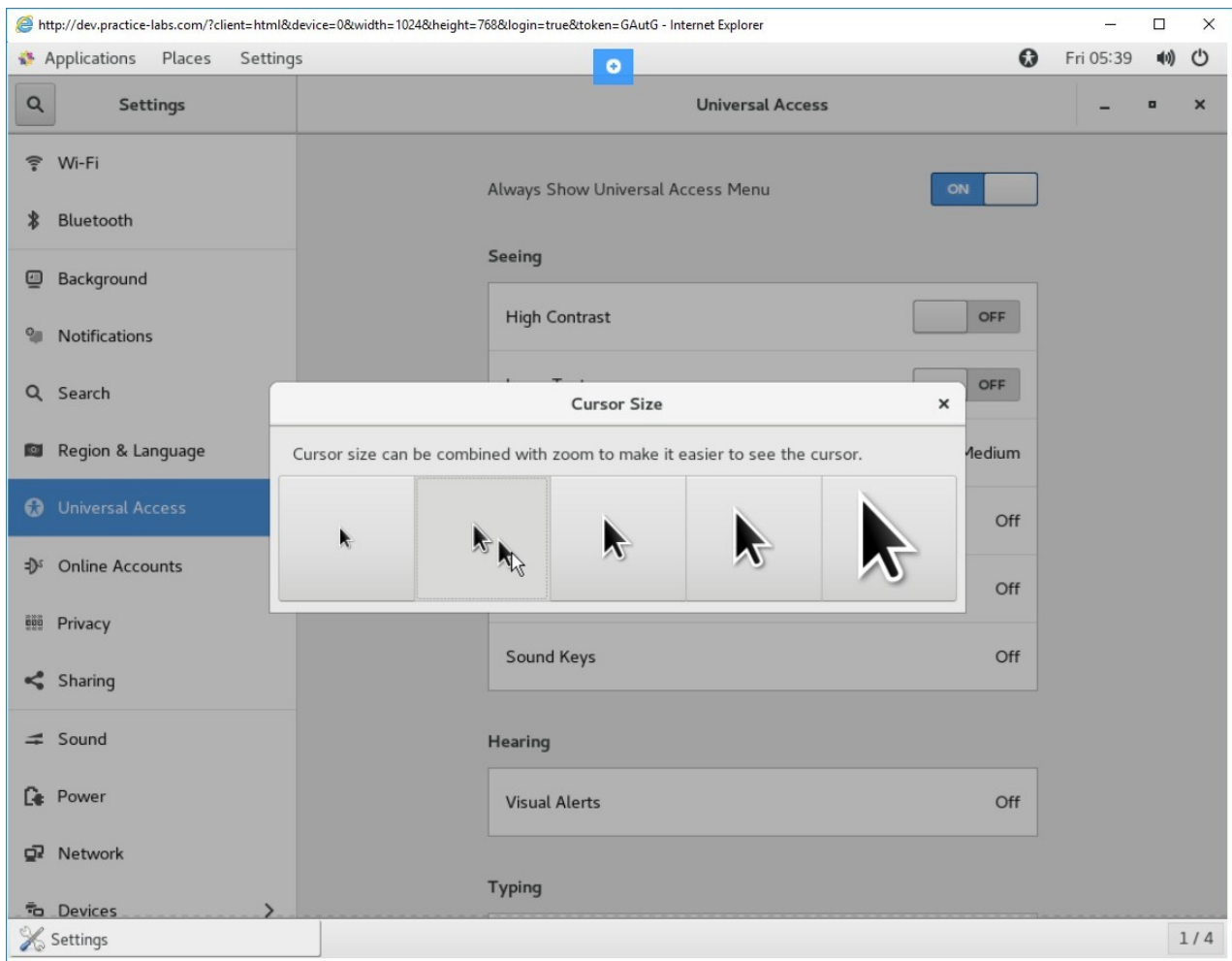
Close the **Cursor Size** dialog box.

Figure 1.15 Screenshot of PLABLINUX01: Selecting the cursor size option.

Step 4

On the **Universal Access** screen, notice that the cursor size is now set to **Medium**.
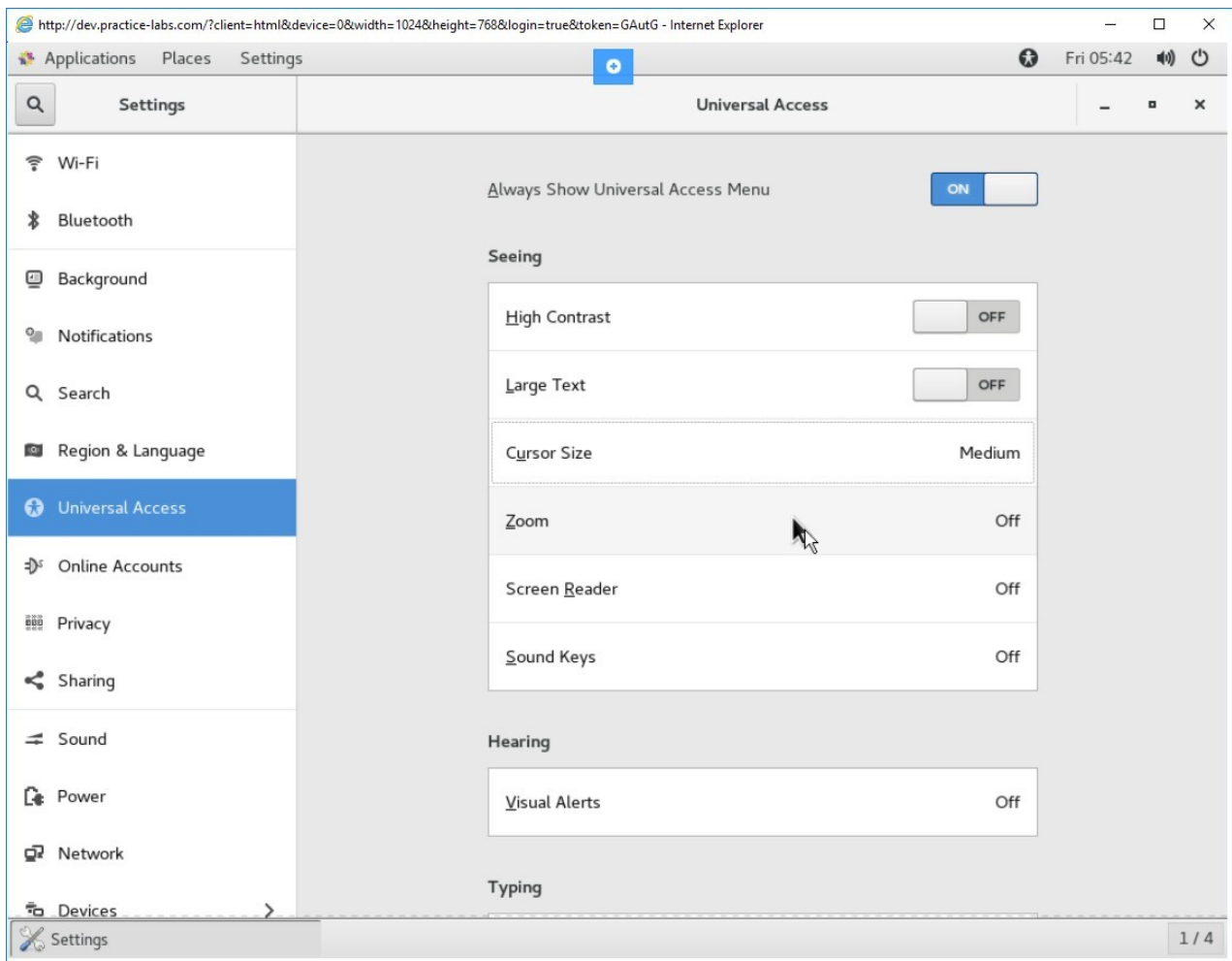
Figure 1.16 Screenshot of PLABLINUX01: Setting the cursor size to Medium

Step 5

On the **Universal Access** screen, click **Sound Keys.**
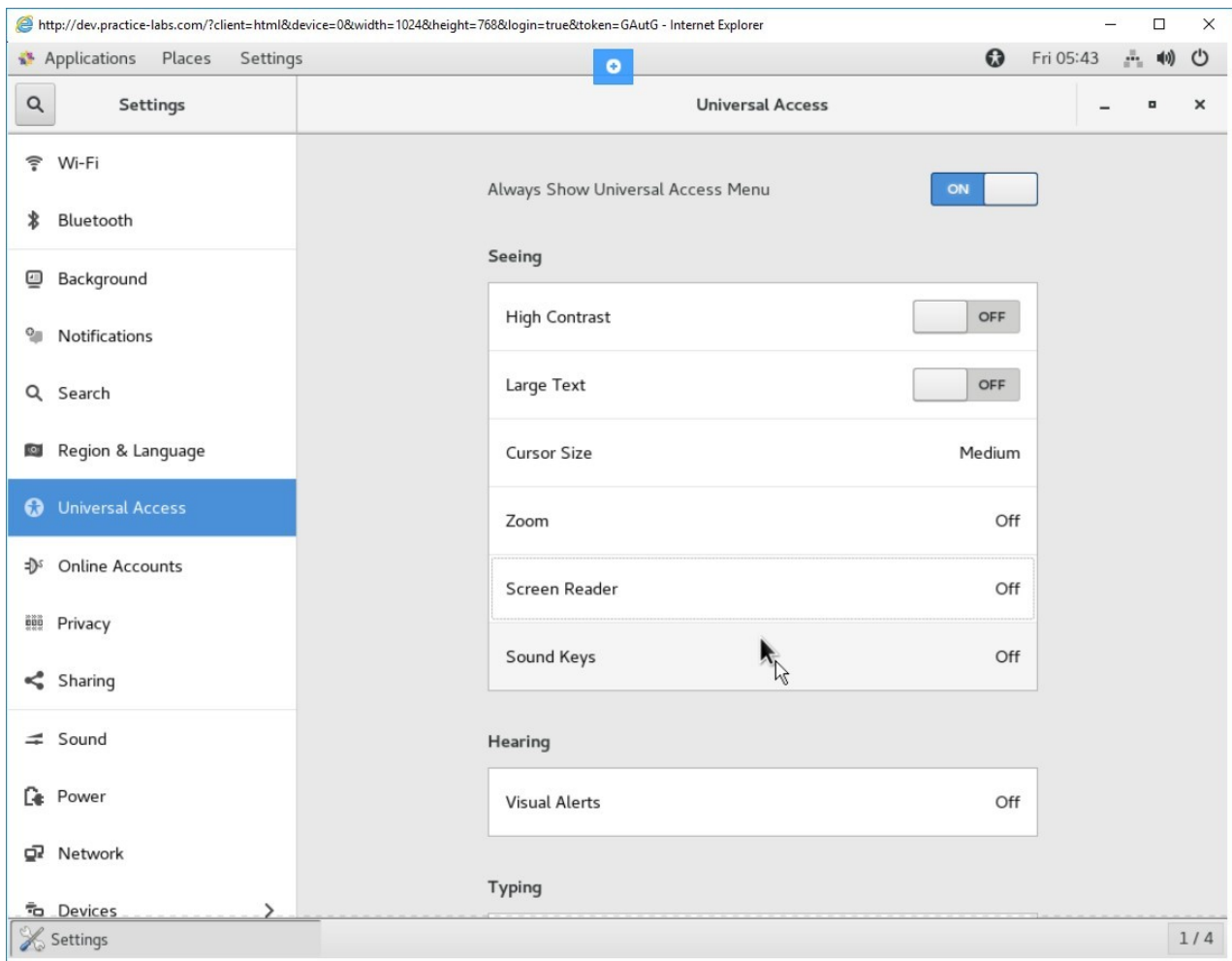
Figure 1.17 Screenshot of PLABLINUX01: Clicking the Sound Keys option.

Step 6

In the **Sound Keys** dialog box, click **OFF**.

Notice that the **OFF** is now hidden. **ON** is now visible.
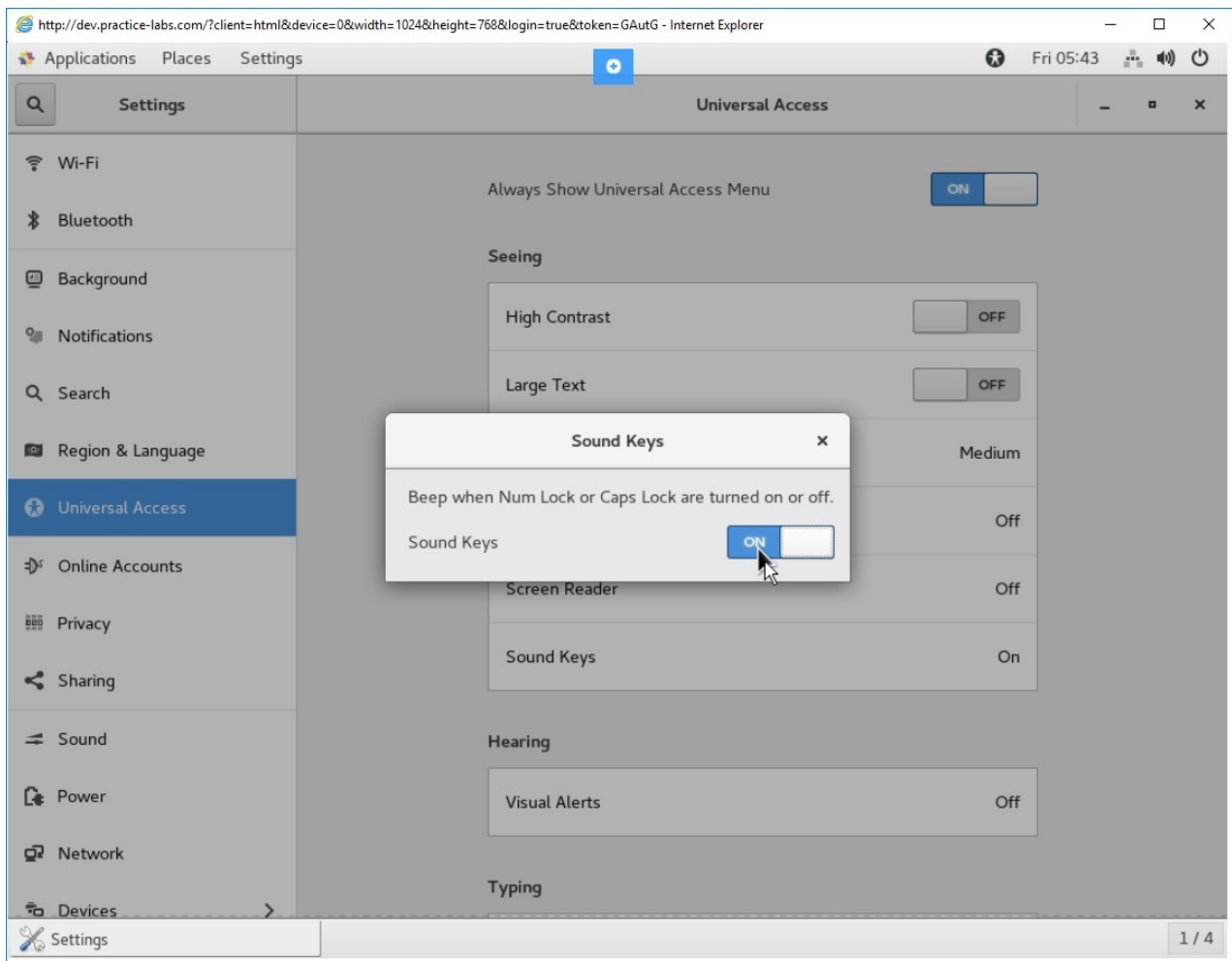
Close the **Sound Keys** dialog box.

Figure 1.18 Screenshot of PLABLINUX01: Enabling the Sound Keys option.

Step 7

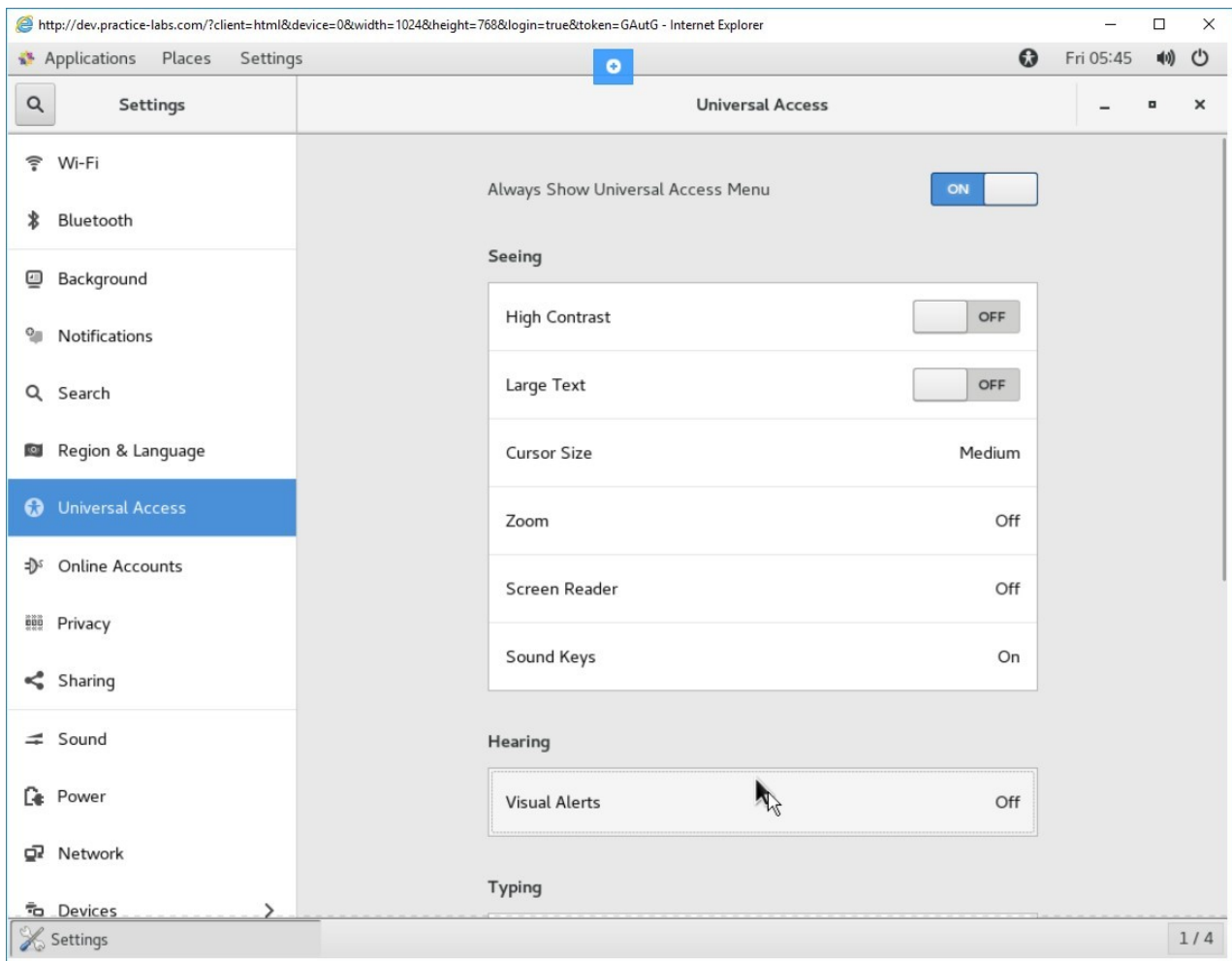In the **Hearing** section, click **Visual Alerts**.

Figure 1.19 Screenshot of PLABLINUX01: Clicking the Visual Alerts option.

Step 8

In the **Visual Alerts** dialog box, click **OFF**.

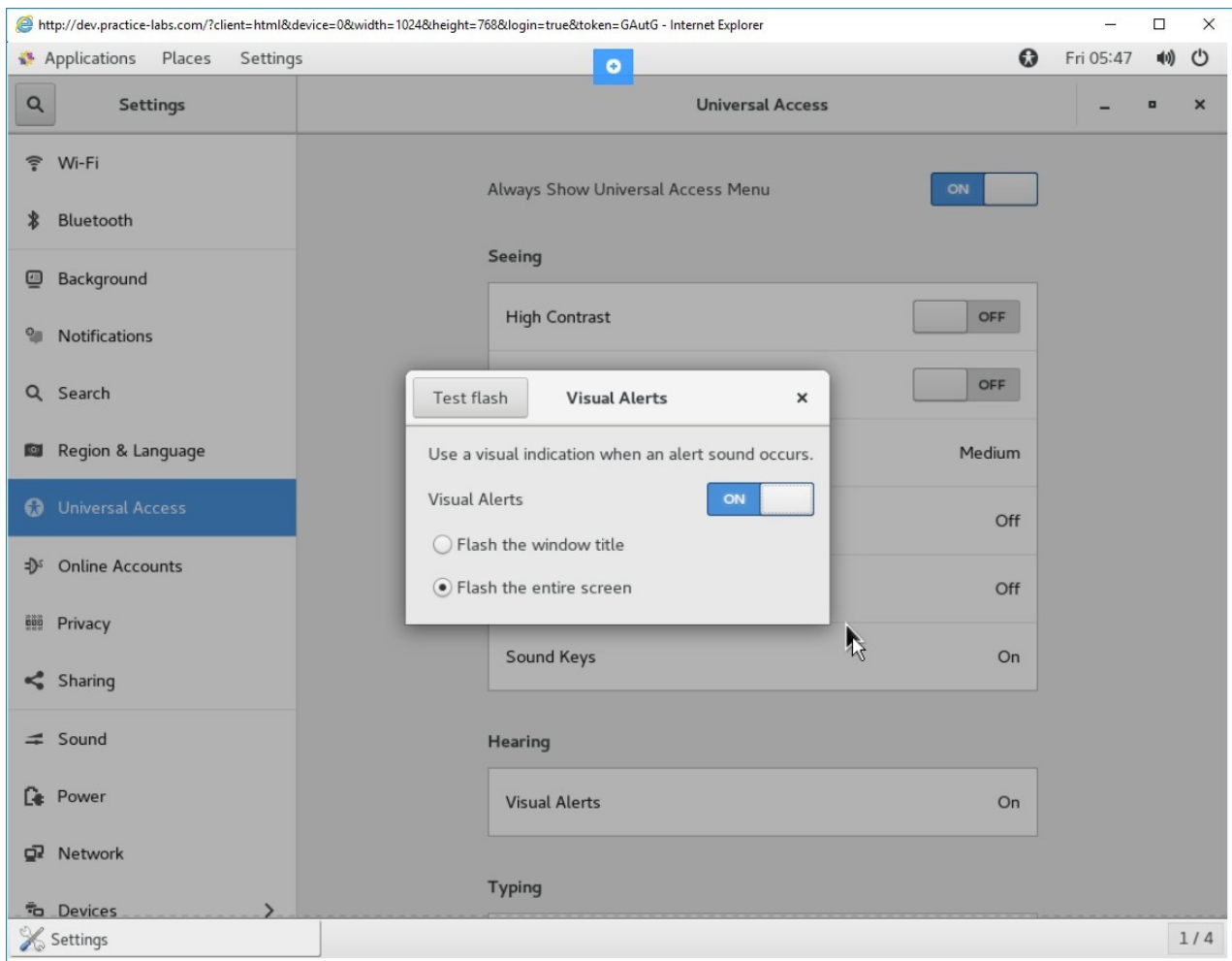Notice that the **OFF** is now hidden. **ON** is now visible.

Figure 1.20 Screenshot of PLABLINUX01: Enabling the Visual Alerts option.

Step 9

You have the option to flash only the window title or the entire screen. By default, the **Flash the entire screen** option is selected.

Select **Flash the window** title and click **Test Flash**. The window color dims for a second.
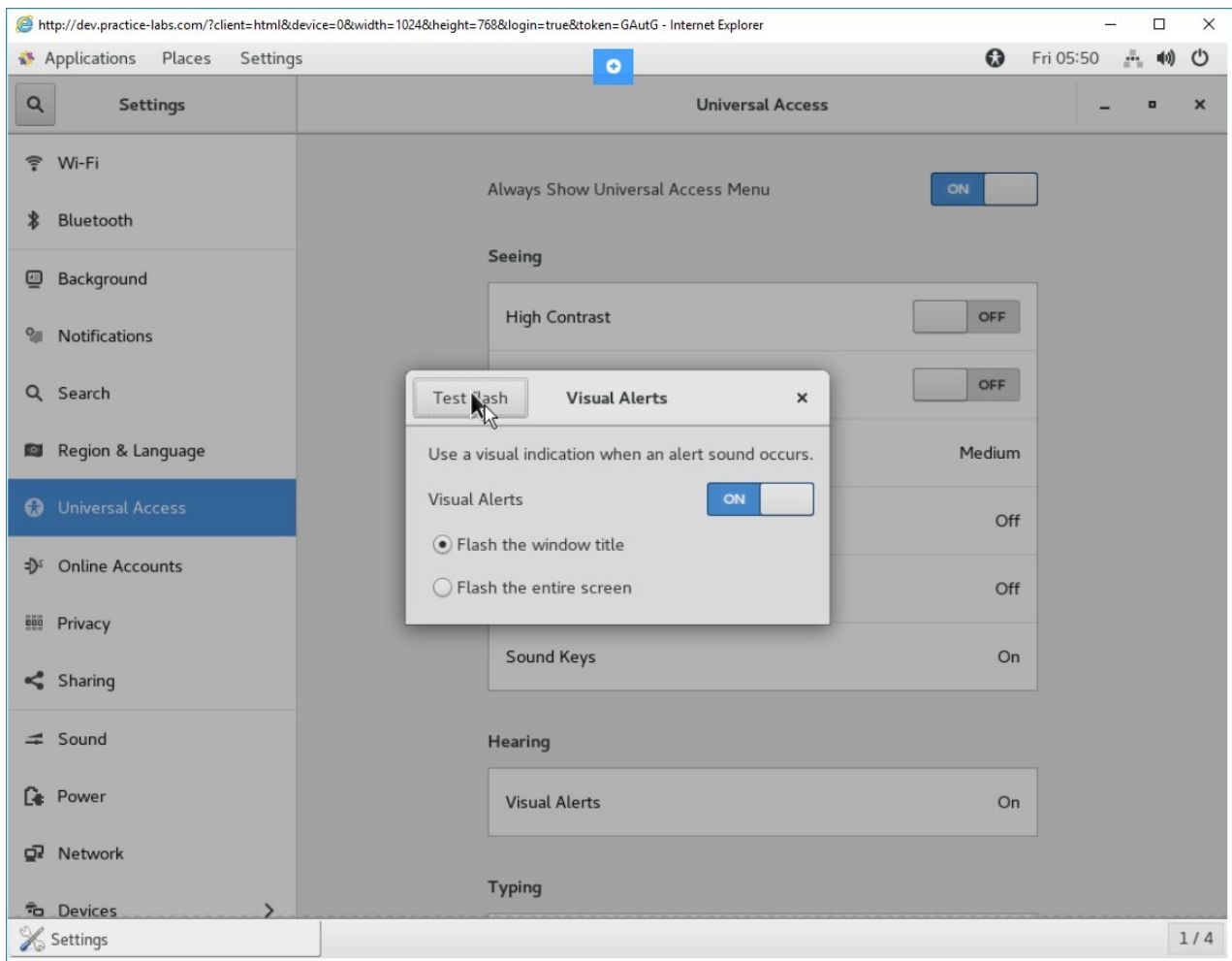
Close the **Visual Alerts** dialog box.

Figure 1.21 Screenshot of PLABLINUX01: Clicking the Test Flash button.

Step 10

Similar to the other options, you can also configure **Zoom** options, which helps the user magnify the screen content.
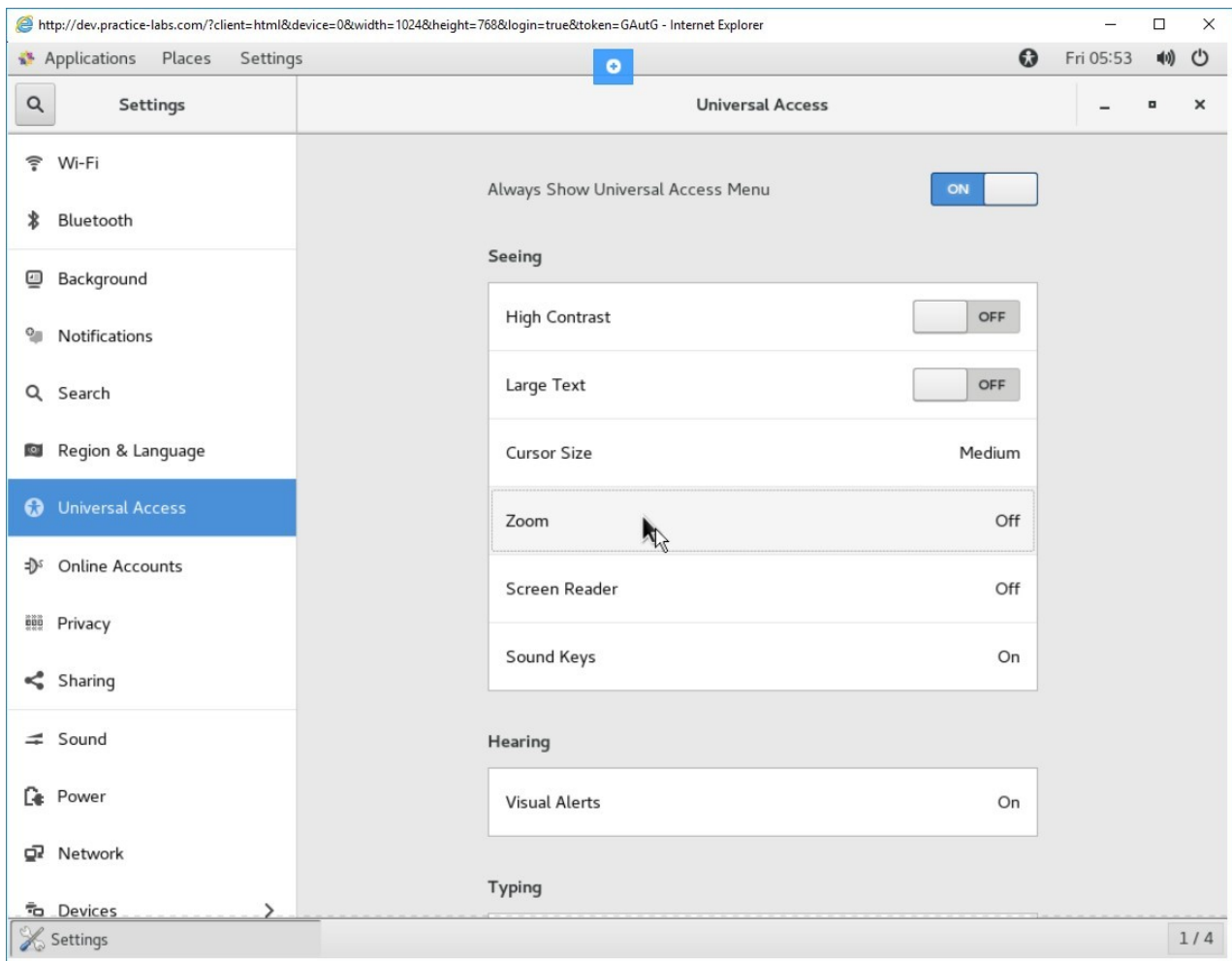
Click **Zoom**.

Figure 1.22 Screenshot of PLABLINUX01: Clicking the Zoom option.

Step 11

In the **Zoom** dialog box, you can configure the following settings:

- Magnifier
- Crosshairs
- Color Effects

Close the **Zoom** dialog box.

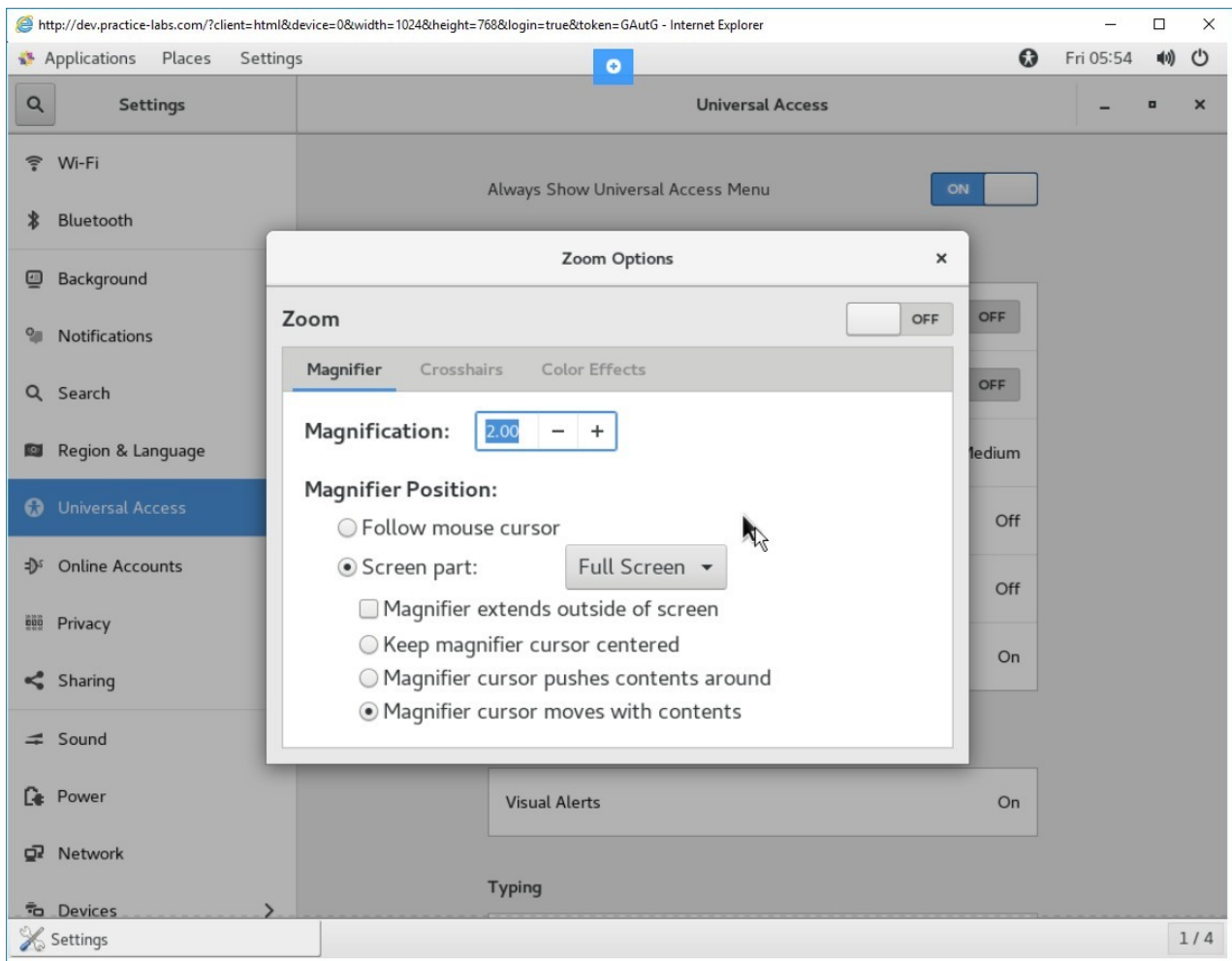> ***Note:*** *If lab time permits, you can try using these accessibility options.*

Figure 1.23 Screenshot of PLABLINUX01: Closing the Zoom dialog box.

Step 12

Close the **Universal Access** window.

In the top menu bar, the first icon on the right is a person look alike figure in a black circle. Click this icon.
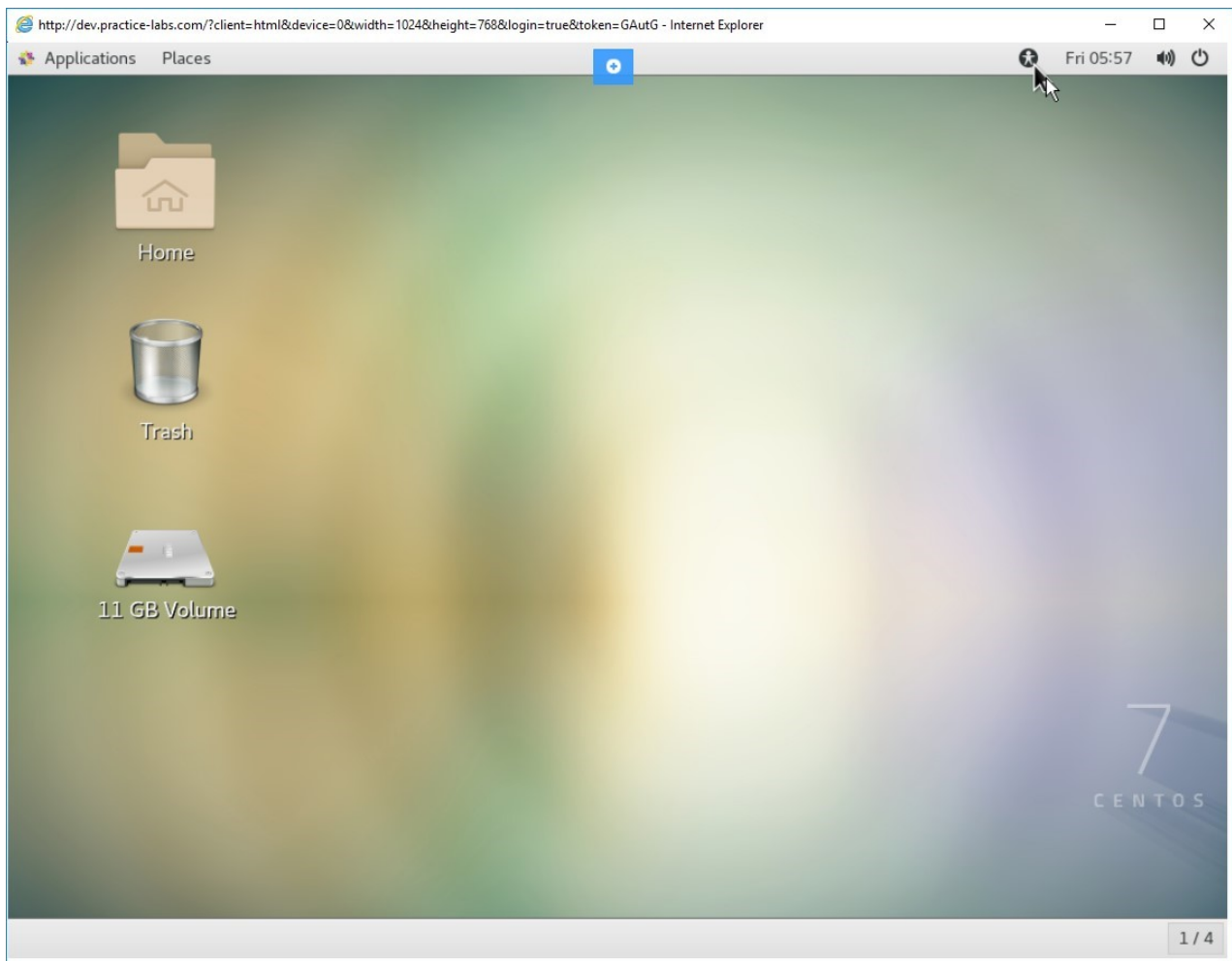
Figure 1.24 Screenshot of PLABLINUX01: Clicking the Universal Access options from the menu bar.

Notice that the accessibility settings are displayed. The settings that you enabled in the **Universal Access** window are now enabled here.

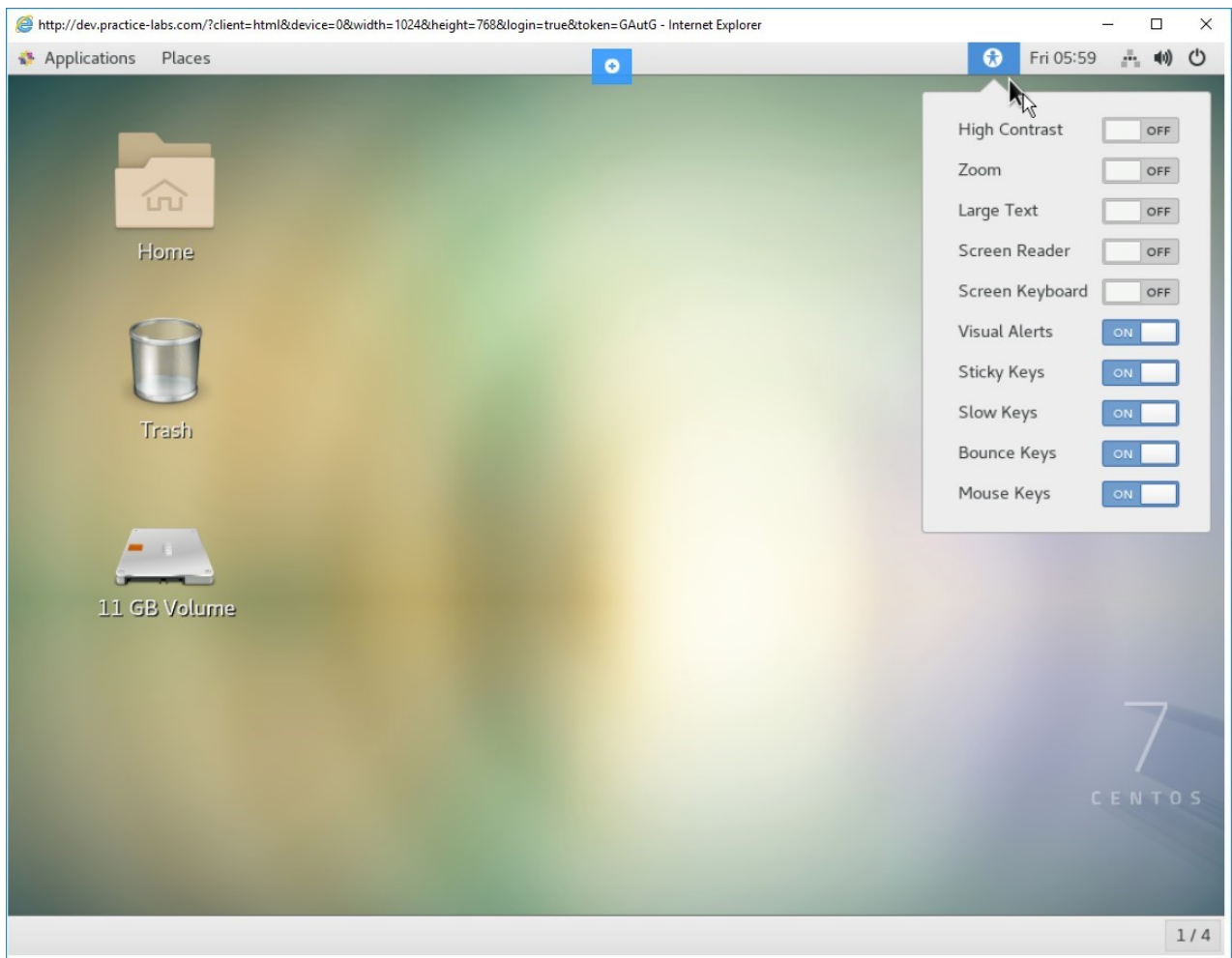*Note: If lab time permits, you can try using these accessibility options.*

Figure 1.25 Screenshot of PLABLINUX01: Displaying the Universal Access options.

Please reset all devices or log off if moving onto another module.

Review

Well done, you have completed the **Accessibility** Practice Lab.

Summary

You completed the following exercise:

- Exercise 1 - Configure Accessibility

You should now be able to:

- Configure Typing Assist (AccessX)

- Configure Various Accessibility Settings

Feedback

Shutdown all virtual machines used in this lab. Alternatively, you can log out of the lab platform.