Florida
Statewide Assessments

Configurations, Troubleshooting, and Advanced Secure Browser Installation Guide for Linux

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Updated 2/1/22

FSA
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Configurations, Troubleshooting, and Secure Browser Installation for Linux

This document contains instructions for installing the Secure Browser, as well as configurations, troubleshooting, and advanced Secure Browser installation instructions for your network and Linux devices.

Installing Secure Browser for Linux

Installing Secure Browser for Linux

This procedure installs Secure Browser on desktop computers running one of the Linux distributions listed on the Supported Systems & Requirements page. These instructions may vary for your individual Linux distribution.

1. Uninstall any previous versions of the secure browser by deleting the directory containing it.
2. Obtain the root or super-user password for the computer on which you are installing the secure browser.
3. Click the **Download Browser** on the Secure Browsers page. A dialog window opens. If prompted for a download location, select the desktop.
4. Open the terminal and do the following:
    a. Enter `cd ~/Desktop`
    b. Enter `tar xfjv CTSecureBrowserX.X-64bit.tar.bz2`
    c. Enter `cd ~/Desktop/CTSecureBrowser`
    d. Enter `su [UserName]` to switch to a super-user or root user. When prompted, enter the super-user or root user password you obtained in step 2.
    e. Enter `./install-icon.sh to run the ./install-icon.sh` file as an executable. When prompted, enter the super-user or root user password obtained in step 2.
    f. Enter `su [UserName]` to switch back to the standard user. When prompted, enter the standard user password.
    g. Enter `./install-icon.sh` to install icons for the standard user.
5. The script installs all dependent libraries and supported voice packs and creates a FLSecureBrowser icon on the desktop. In Fedora, the icon is installed in the Charm.

6. Ensure all backgrounds jobs, such as virus scans or software updates, are scheduled outside of test windows. For example, if your testing takes place between 8:00 a.m. and 3:00 p.m., schedule background jobs outside of these hours.

7. If text-to-speech testing is performed on this computer, reboot it.

8. From the desktop, double-click the **FLSecureBrowser** icon to launch the browser. An **Untrusted App Launcher** error message appears.

9. Click **Trust and Launch**. The student login screen appears. The browser fills the entire screen and hides any panels or launchers.

10. To exit the browser, click **X** in the upper-right corner of the screen.

Extracting the Secure Browser TAR File

The following procedure explains how Fedora 29–30 or Ubuntu 18.04 users can extract the Secure Browser TAR file manually to the Desktop using terminal commands.

To extract the Secure Browser manually using terminal commands:

1. Launch **Terminal**.
2. Type the following:

```
tar xfjv FLSecureBrowser.tar.bz2
```

   Press **Enter**.

Additional Configurations for Linux

This section contains additional configurations for Linux.

Required Libraries & Packages

The following libraries and packages are required to be installed on all Linux workstations:

- GTK+ 3.14 or higher
- X.Org 1.0 or higher (1.7+ recommended)
- libstdc++ 4.8.1 or higher
- glibc 2.17 or higher

The following libraries and packages are recommended to be installed on all Linux workstations:

- NetworkManager 0.7 or higher
- DBus 1.0 or higher
- GNOME 2.16 or higher
- PulseAudio

Adding Verdana Font

Some tests have content that requires the Verdana TrueType font. Therefore, ensure that Verdana is installed on Linux machines used for testing. The easiest way to do this is to install the Microsoft core fonts package for your distribution.

- Fedora—Follow the steps in the "How to Install" section of the following website: http://corefonts.sourceforge.net/.

- Ubuntu—In a terminal window, enter the following command to install the msttcorefonts package:
  ```
  sudo apt-get install msttcorefonts
  ```

Disabling On-Screen Keyboard

Fedora and Ubuntu feature an on-screen keyboard that should be disabled before online testing. This section describes how to disable the on-screen keyboard.

To disable the on-screen keyboard:

1. Open **System Settings**.
2. Select **Universal Access**.
3. In the *Typing* section, toggle **Screen Keyboard** to **Off**.

Troubleshooting for Linux

This section contains troubleshooting tips for Linux.

Resetting Secure Browser Profiles on Linux

If the Florida Help Desk advises you to reset the Secure Browser profile, use the instructions in this section.

1. Log on as a superuser or as the user who installed the Secure Browser and close any open Secure Browsers.
2. Open a terminal, and delete the contents of the following directories:

`/home/username/.cai`

`/home/username/.cache/cai`

where `username` is the user account where the Secure Browser is installed. (Keep the directories, just delete their contents.)

3. Restart the Secure Browser.

Text-to-Speech and Linux

Text-to-speech with tracking does not function correctly on Linux OS. If students require the use of this accommodation, they must use a different operating system.

Linux Technology Coordinator Checklist

This checklist can be printed out and referred to during review of networks and computers used for testing.

	Activity	Target Completion Date	Reference
For all Operating Systems			
☐	Verify that all of your school's computers/devices that will be used for online testing meet the operating system requirements.	3–4 weeks before testing begins in your school	Supported Systems & Requirements
☐	Install the secure browser on all computers/devices that will be used for testing.	3–4 weeks before testing begins in your school	Configurations, Troubleshooting, and Secure Browser Installation for Linux
☐	Verify that your school's network and Internet are properly configured for testing, including Allowlist procedures, conducting network diagnostics, and resolving any issues.	3–4 weeks before testing begins in your school	Technology Setup for Online Testing
☐	Enable pop-up windows and review configuration requirements for each operating system.	1–2 weeks before testing begins in your school	Configurations, Troubleshooting, and Secure Browser Installation for Linux
For Linux			
☐	Add Veranda font and disable on-screen keyboard.	3–4 weeks before testing begins in your school	Adding Verdana Font, Disabling On-Screen Keyboard

Florida Help Desk and User Support

If this document does not answer your questions, please contact the Florida Help Desk.

The Help Desk will be open **Monday–Friday from 7:00 a.m. to 8:30 p.m. Eastern Time** (except holidays or as otherwise indicated on the Florida Statewide Assessments Portal).

Toll-Free Phone Support: 1-866-815-7246

Email Support: FloridaHelpDesk@CambiumAssessment.com

In order to help us effectively assist you with your issue or question, please be ready to provide the Help Desk with detailed information that may include the following:

- Device, operating system, and browser version information
- Any error messages and codes that appeared, if applicable
- Information about your network configuration:
    - Secure browser installation (to individual machines or network)
    - Wired or wireless Internet network setup

Change Log

Location	Change	Date
Throughout Guide	Updated links to new portal.	9/2/21
Throughout Guide	Removed references to 32-bit Linux.	9/2/21