

# Analysis.utk.edu Details for Linux

The Statistical Consulting Center

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This document is a companion to *How to Use Analysis.utk.edu*. It contains installation instructions for the Citrix ICA Client for Linux. For Windows installation of the client and for more complete information about using the Citrix server from any operating system, including how to log on, what software is available and where to save your files, read the document at <http://oit.utk.edu/scc/HowToUseAnalysis.utk.edu.pdf>.

Before you can use the software on the Citrix server from your Linux computer, you must install the Linux version of the Citrix ICA Client. The Citrix ICA Client for Linux is a software program that runs on your computer and allows you to access the OIT Citrix server (analysis) using your favorite browser. Citrix offers both the Red Hat Package Manager (RPM) and tarball formats for download. Compared to .tar.gz files, RPM packages assist you in installing, upgrading and uninstalling software. However, if you use the RPM package for the client, you cannot specify the directory where the Client for Linux is installed and not all flavors of Linux support RPM packages. Hence, the following instructions are based on the tarball download.

The installation of the Citrix ICA Client for Linux includes the following steps:

- Download and unpack the installation files
- Run the installation program as superuser or root
- Reboot your computer so the changes take effect
- Use a Web browser to access analysis.utk.edu
- Remove unnecessary installation files
- Mount your Linux local drive, if necessary

## Download the Installation Files

1. Point your browser to <http://analysis.utk.edu> .
2. In the *MetaFrame XP Login* window, click the link on the lower right of the screen to download the ICA Client for Linux that is appropriate for your computer. For x86 computers, click on **ICA Client for Linux x86** and download the file called **linuxx86.tar.gz**. For ARM processors, click on **ICA Client for Linux ARM** and download the file called **linuxarm.tar.gz**. The following instructions assume you have an x86 processor and you have downloaded the file called **linuxx86.tar.gz** to your **Desktop**. Instructions for installation on an ARM processor are similar.

## Unpack the Installation Files

You can unpack the installation files using either the terminal window or the GUI instructions below.

### Terminal window instructions for unpacking

1. Open a terminal window and create a temporary location to unpack the tarball, move the tarball to that directory and change into that directory:

```
mkdir /tmp/ICAtemp
```

```
mv linuxx86.tar.gz /tmp/ICAtemp/
```

```
cd /tmp/ICAtemp
```

2. To unpack the tarball, type

```
gzip --decompress linuxx86.tar.gz
```

```
tar xf linuxx86.tar
```

### **GUI instructions for unpacking**

1. Double-click on the **linuxx86.tar.gz** file and a window called *linuxx86.tar.gz* will appear.
2. In the *linuxx86.tar.gz* window, click on the **Folder** icon, then click on the **Extract** button and a window called *Extract* will appear.
3. In the *Extract* window, click on **Create Folder** and name the folder ICAtemp and then click on the **Extract** button. The files will be unzipped and extracted in the new folder ICAtemp on your Desktop.
4. Close the window *linuxx86.tar.gz*.

### **Run the installation program as SuperUser or Root from a terminal window**

1. In a terminal window type the **su** command and enter your superuser password.
2. Change the directory to the location of your unzipped installation files. For example, type **cd /Desktop/ICAtemp**
3. Type the command **ls** and you should see the program setupwfc.
4. Type **./setupwfc** to run the setupwfc installation program and follow the on-screen prompts:
  - a. Select a setup option: Choose **1** to install the CITRIX ICA Client.
  - b. Enter directory in which CITRIX ICA Client is to be installed: Choose **/usr/lib/ICAClient**. If you choose a different directory, you will have to read the *install.txt* file to figure out what environment variables need to be set to get the client to work.
  - c. You have chosen to install CITRIX ICA Client in /usr/lib/ICAClient. Proceed with installation? Type **y** (default is n).
  - d. Scroll through the License Agreement using the Space Bar and type **1** to accept (do not accept [2] is the default).
  - e. Do you want to integrate the ICA Client with KDE and GNOME? Type **y**.
  - f. Select a setup option: Choose **3** to quit the setup program.

### **Reboot your computer so the changes take effect**

1. In the terminal window, type **exit** to fall back to a general user.
2. Close the terminal window and close the MetaFrame XP Login window.
3. Restart your computer and log back on as a general user.

## Use a Web browser to access analysis.utk.edu

1. Point your favorite Web browser to <http://analysis.utk.edu>.
2. In the *MetaFrame XP Login* window, type your NetID Username and Password. The Domain should be UTK-DS.
3. To test your ICA client installation, click on a category from the *Application* box and then click on an application icon. If the client starts, your installation is complete.
4. Exit from the application you are using and click on the **Logout** button below the *Application* icon list.
5. After you have logged off of analysis.utk.edu, close your Web browser.
6. If your installation does not work and you want to try a different version of the client, go to the web site <http://www.citrix.com/download>. This site also has the Administrator's Guide with detailed installation instructions. Note that the installation program setupwfc can also be used to remove a client from your computer.

## Remove Installation Files

1. Delete the file linuxx86.tar.gz that you downloaded.
2. Delete the temporary folder where you unpacked the ICA client.

## Mount your Linux local drive

Initially, within the Citrix appserver, a drive should be mapped to your local home directory. If not, you need to add a drive mapping manually so that you can read and save files on your computer. To test your installation, use the Explorer application on analysis.utk.edu and look for your local files. If they are not accessible, do the following steps.

1. Open a terminal window and type **/usr/lib/ICAClient/wfcmgr**.
2. In the *Citrix Presentation Server Client for Linux* window, select **Tools>Settings>Preferences>Drive Mapping**.
3. Select a drive letter you want mapped by pressing the radio button (the little square) to the right of the text editing box.
4. In the text box, type the Linux directory you want to map, such as **/home/yourlinuxusername**. Of course, substitute "yourlinuxusername" with your Linux logon name.
5. Specify the access for the drive by clicking the corresponding **read** (glasses) and **write** (pencil) icons. The read/write access options have three settings: **enable**, **disable (X)** and **prompt (?)**.
6. Make sure the **Enable Drive Mapping** is selected.
7. Click **Apply**, click **OK** and then close the wfcmgr.
8. Log off of any ICA connections already established and then reconnect. Your local directory should be mapped as the drive letter you selected, enabling you to read and save your work locally.