

Lab 0

(Basics and overview)

To do this session

0) Fill in questionnaire on Moodle if you didn't already.

1) Get assigned to your demonstrator

1) Get your login details for Guacamole

2) [and check you can log into brutha0 via it]

2) Familiarise yourself with the desktop and Guacamole.

3) Have a look at the Lab 1 assignments.

**1) (And start on them if you want: but Lab 1 is allocated for them, so
this is a head start)**

Links for Account Management

**Account for brutha0 [not the same as the one for Guacamole!]
can be checked at the Physics and Astronomy identity page:**

<https://it.physics.gla.ac.uk/identity>

[Physics students should already have one, the same as their usual login name; others may want to check and self-enrol with link on page if not]

Guacamole details [remember you're connecting to brutha0, not the system mentioned in these documents]:

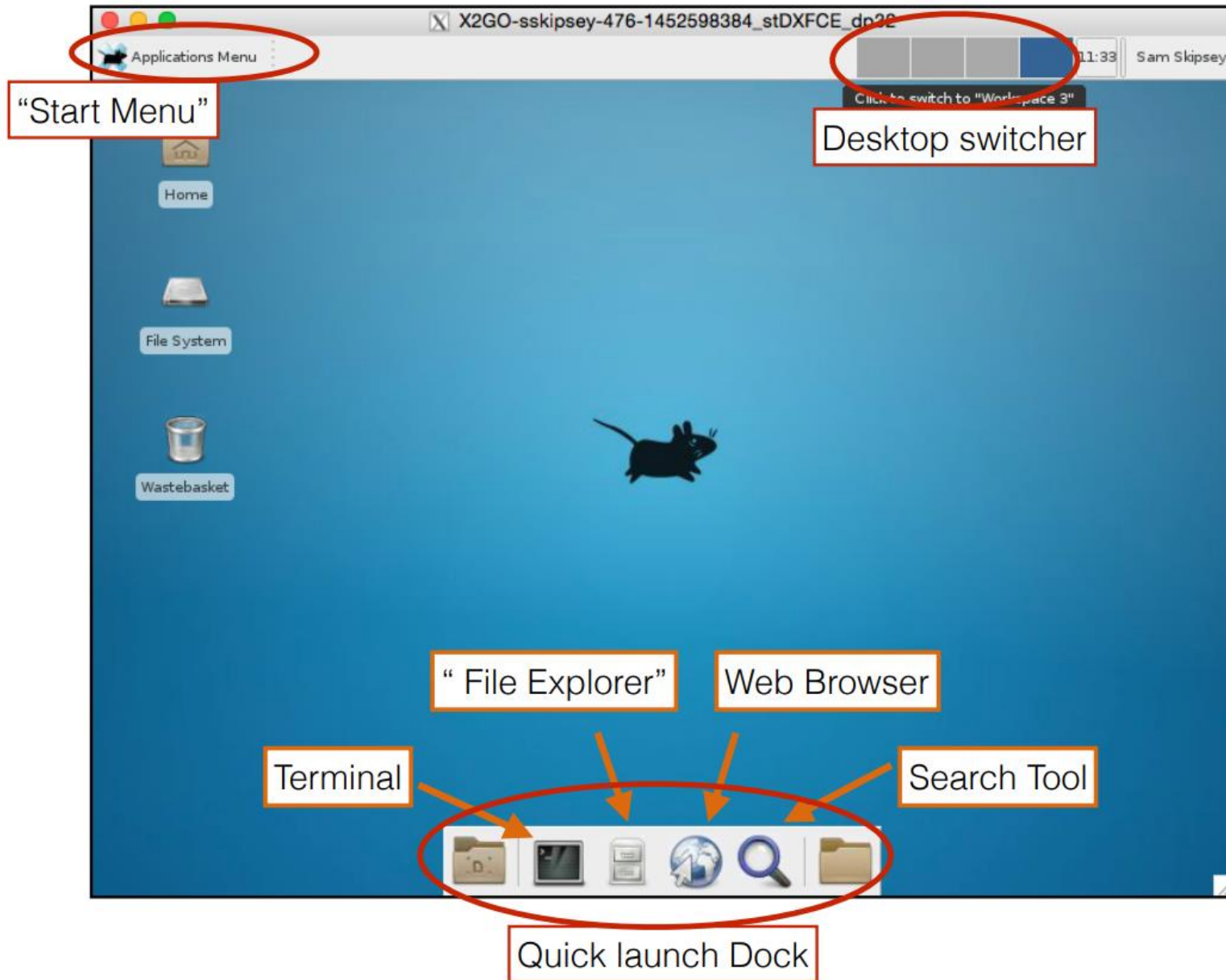
<https://it.physics.gla.ac.uk/notes/rdp/guacamole/>

Remember, you will need the University VPN set up and connected to connect to brutha0 at all.

See also, Gareth's video showing all the connection options:

<https://web.microsoftstream.com/video/e4c238f4-70e5-4847-86df-fbef0b75e2a5>

Quick reference for Linux desktops



Text Editors

If you want to use a terminal based text editor, then

`vim`

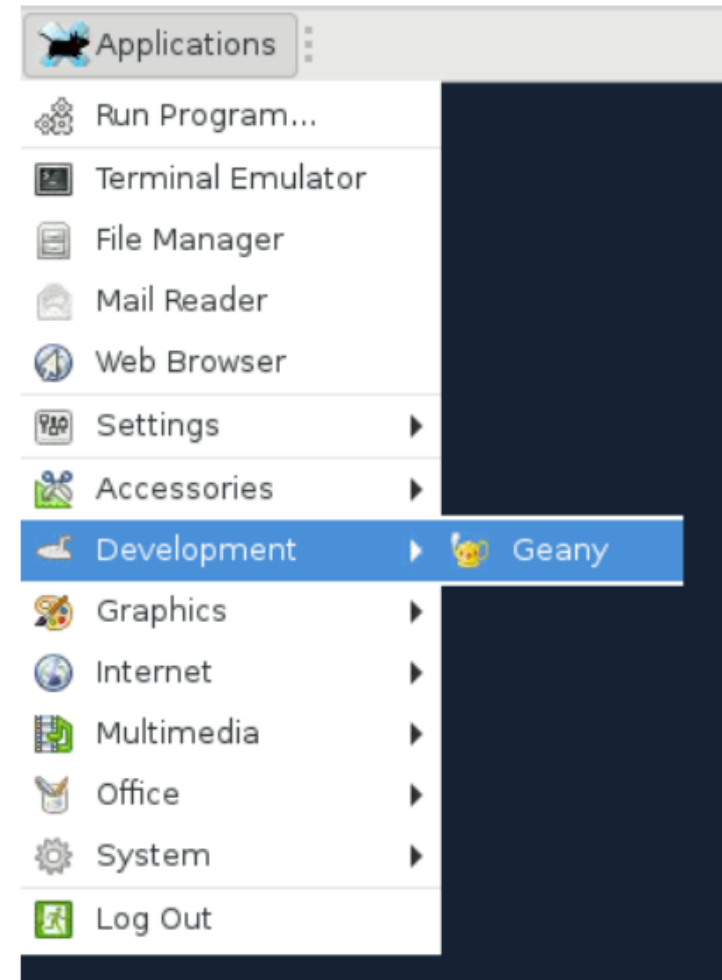
`emacs`

`nano`

Will all work [they all have a learning curve; ask your demonstrator which they prefer before trying them!]

With a nice GUI:

Geany [available via Applications -> Development -> Geany]



Logging out

You can end your Guacamole session on brutha two ways:

You can log out of brutha via the desktop menu [click your name at the top-right and choose "Log out", not any other option!]

You can access the Guacamole session controls by pressing:

Ctrl + Alt + Shift

Then click your name in the bar that's opened on the left, and select "disconnect" [or otherwise].

Assignments

Lab Work is submitted via Moodle, as uploaded files on the relevant assignment.

There's a deadline for each C and each Linux Lab. This is 1 week after the Monday edition of the lab.

The usual late submission penalties apply.

You will get marks and feedback from your demonstrator within 1 week of the submission deadline.

A brief note:

- **You are learning two languages at once in this course.**
- **C is a "medium-level" language - this means it's close to the idiot-savant level of the computer itself.**
- **BASH is a "high-level", "scripting" language - this means that it is far from the basic level of the computer, and is mostly "read like a script".**
- **In both cases, interpretation of your commands is exceptionally literal.**
- **You will mix up the two a lot, just like learning two natural languages at once.**

Further reading and links

For support in labs, email your demonstrator, or me (Samuel.Skipsey@glasgow.ac.uk) [and then up to Gareth and Prof Britton, but only after your demonstrator and me].

Additional notes are on the P2T Moodle [under "Useful Information". Much of this is not examinable, but is provided in case you want a little more on some of the topics in the lectures.

(The presentation on Layout and Comments, though is important – you will be graded partly on presentation for C source code submissions.)

Similarly, there will be some semi-optional videos on the P2T Labs bit of the Microsoft Streams channel.