Hervey Allen

Network Startup Resource Center

PacNOG 6: Nadi, Fiji

Installing Ubuntu Server 9.04

Default Installation

If you do a default install of “Jaunty Jackalope” (Ubuntu 9.04) you will end up with the following:

- Dynamic network address via DHCP
- A file system of the form:
  - / (root) → All of disk minus 3xRAM
  - <swap> → 3xRAM
- Minimum software installation

Our Installation

- **Manual network setup**
  - Fixed IP address
  - Correct host name
  - Domain
  - Add username *inst* with password given in class
- **After the initial install**
  - You will add the Ubuntu Desktop meta-package (GNOME 2.x and X.Org)
  - Configure (if necessary) graphics hardware
- **Disk configuration**
  - Default partition scheme, but we will demo a more complex partitioning scheme

Information You Will Need

You can write these down below:

IP Address: _____

Netmask: _____

Gateway: _____

DNS Server: _____

Hostname: _____

Keyboard Layout: _____

If you have questions during installation ask your instructor or an assistant for help!

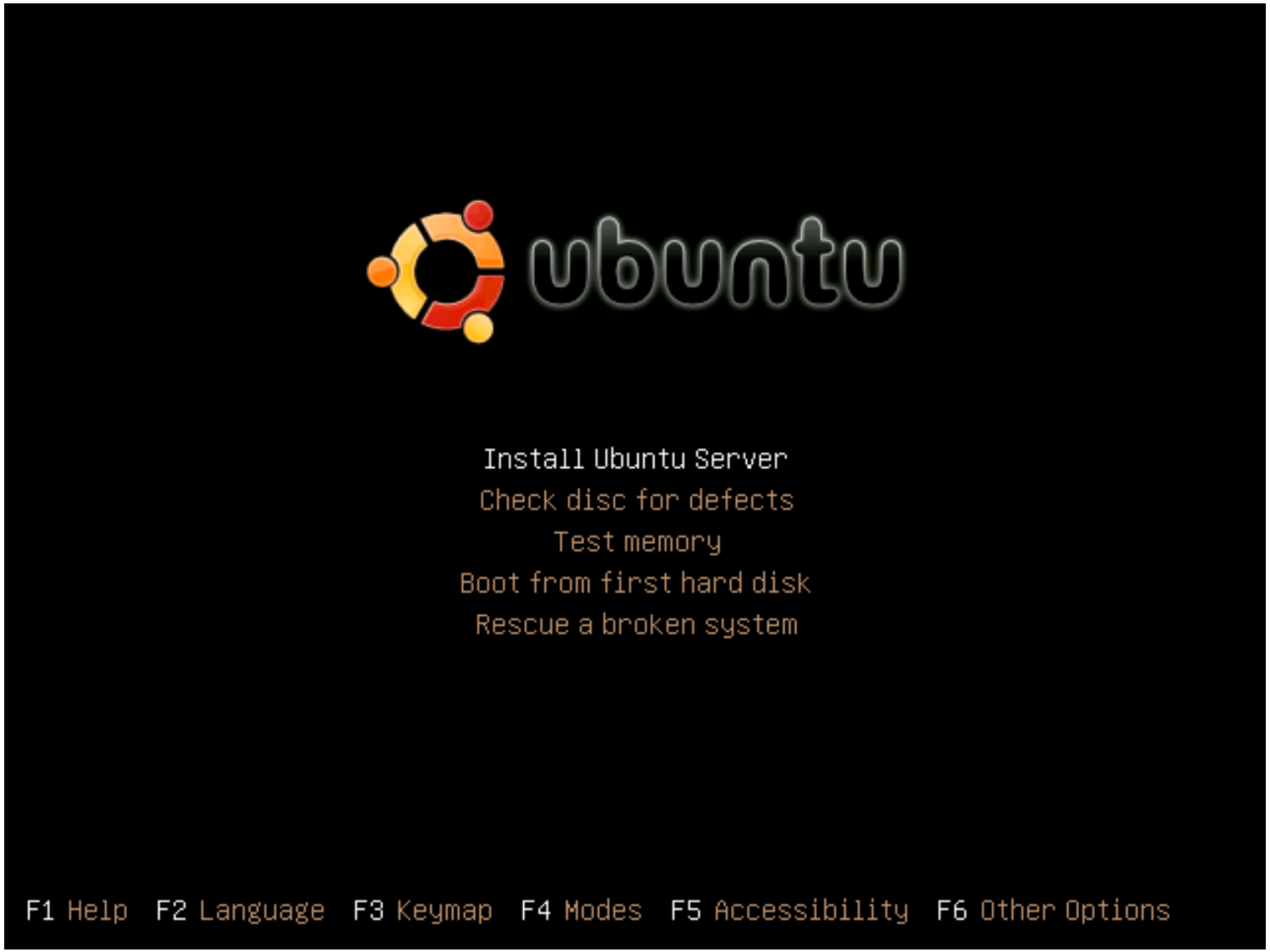
Step-by-step install of Ubuntu 9.04

1.) Insert Ubuntu installation CD-ROM

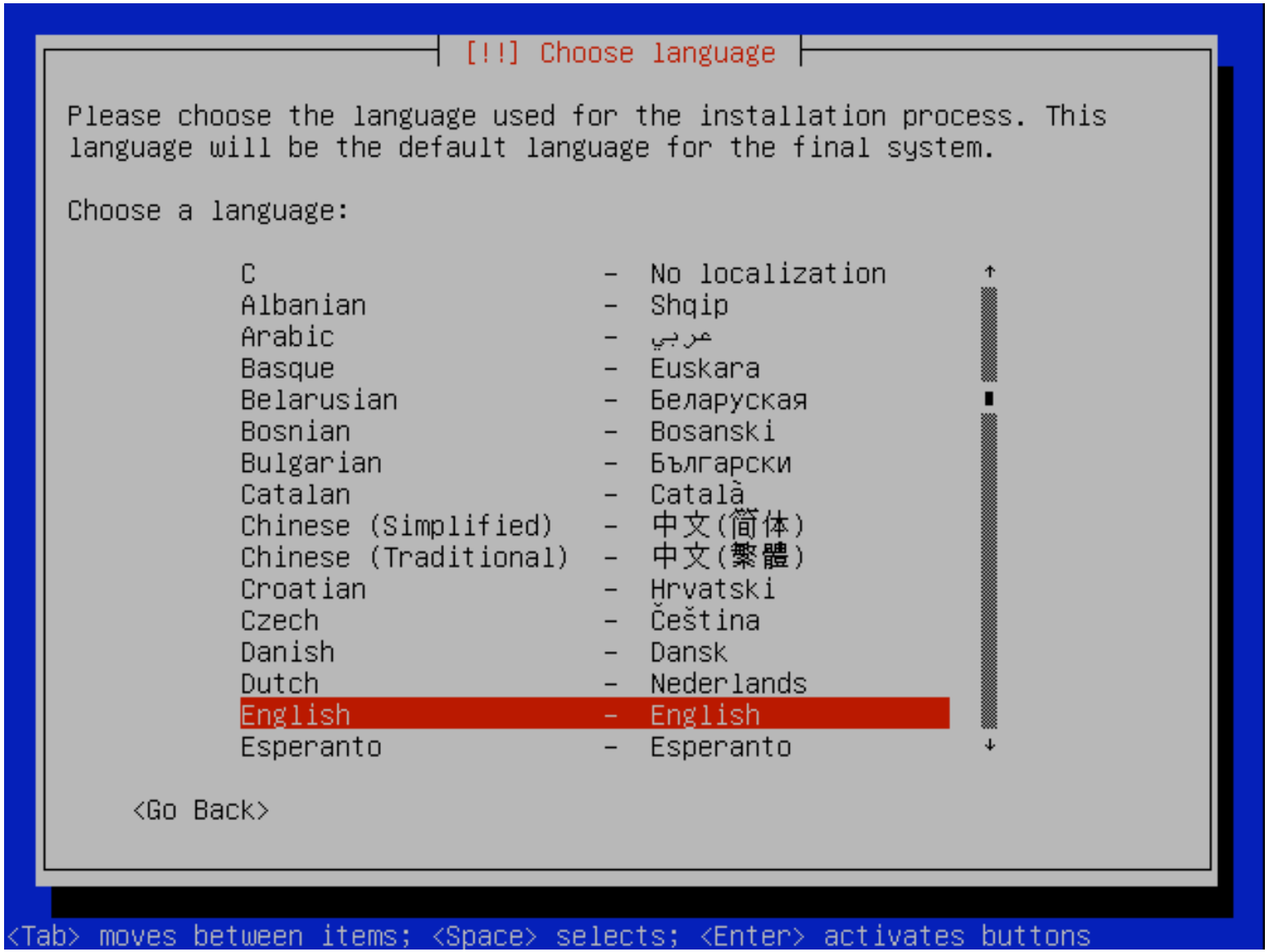
2.) Boot your machine from CD-ROM

3.) Choose your installation language:

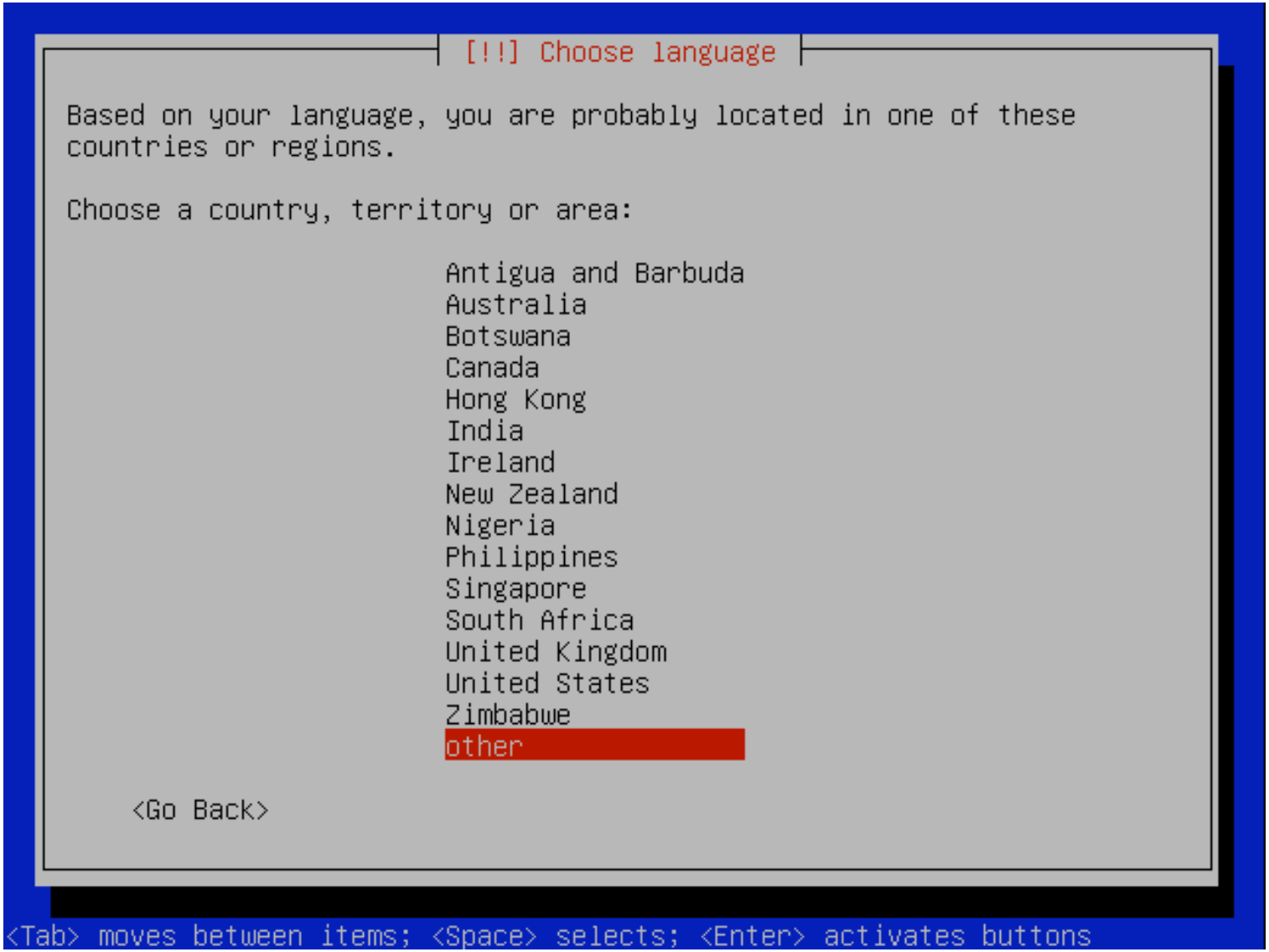
Press <ENTER>


ubuntu
Install Ubuntu Server
Check disc for defects
Test memory
Boot from first hard disk
Rescue a broken system
F1 Help F2 Language F3 Keymap F4 Modes F5 Accessibility F6 Other Options

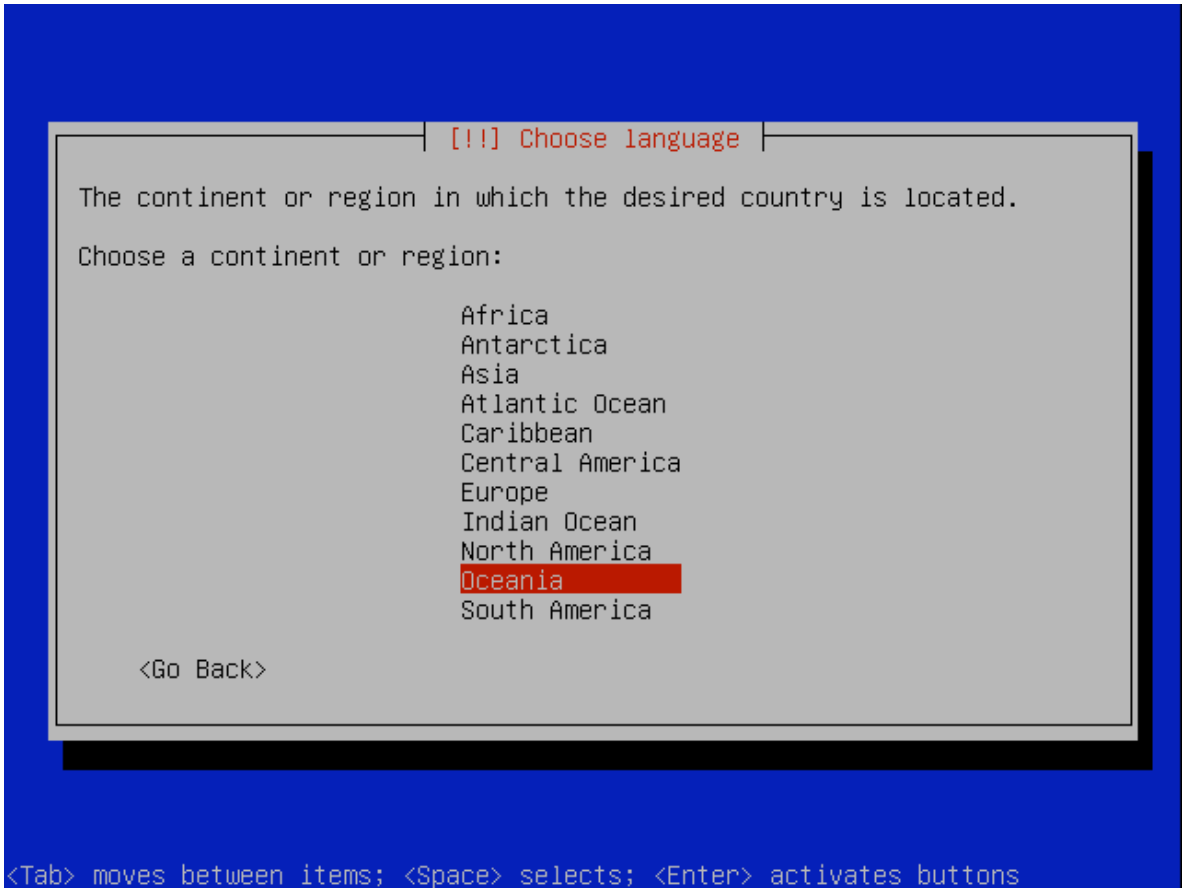
Choose installation language (again)



Choose your region or country

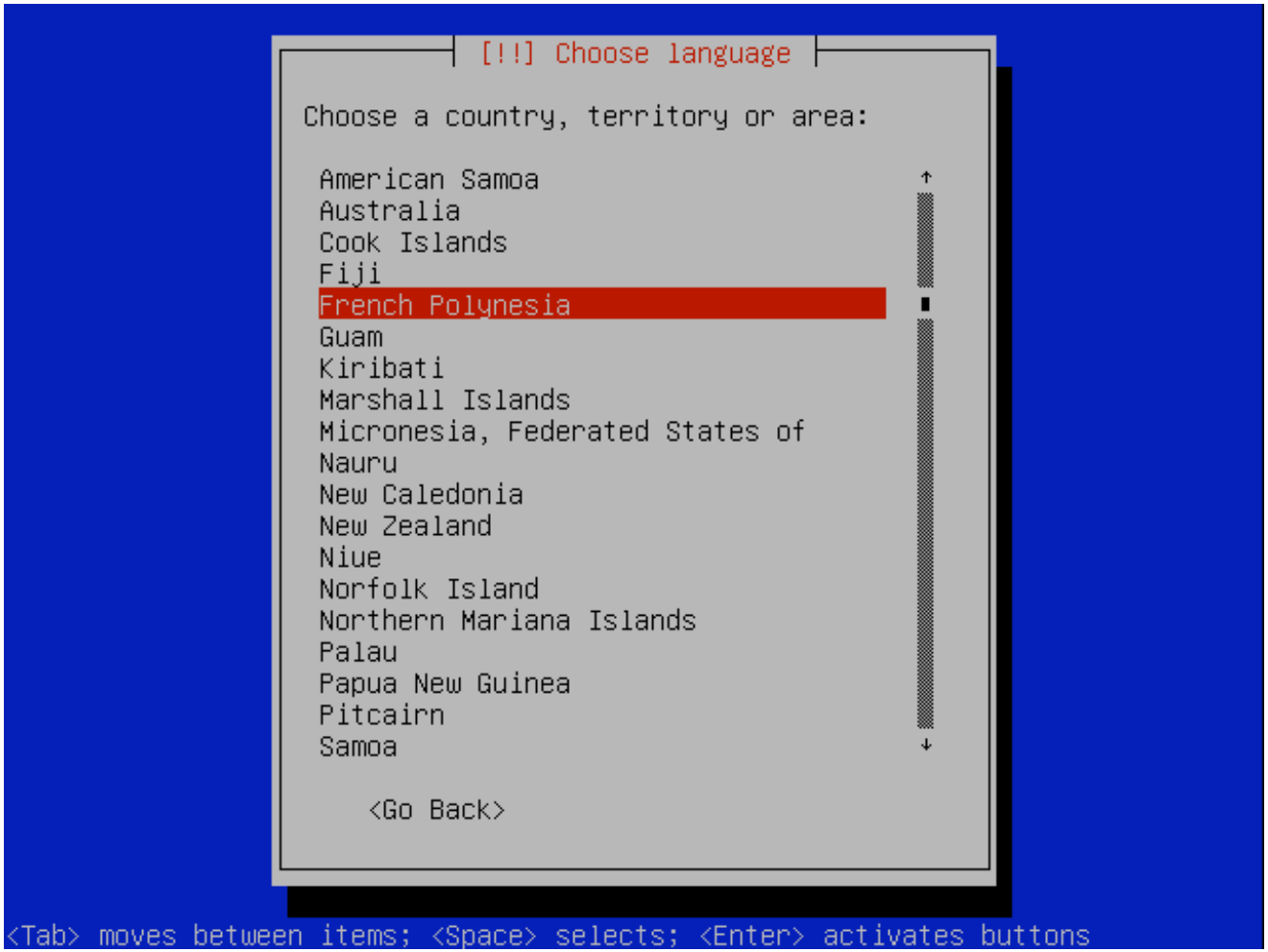


Choose continent or region (example only!)



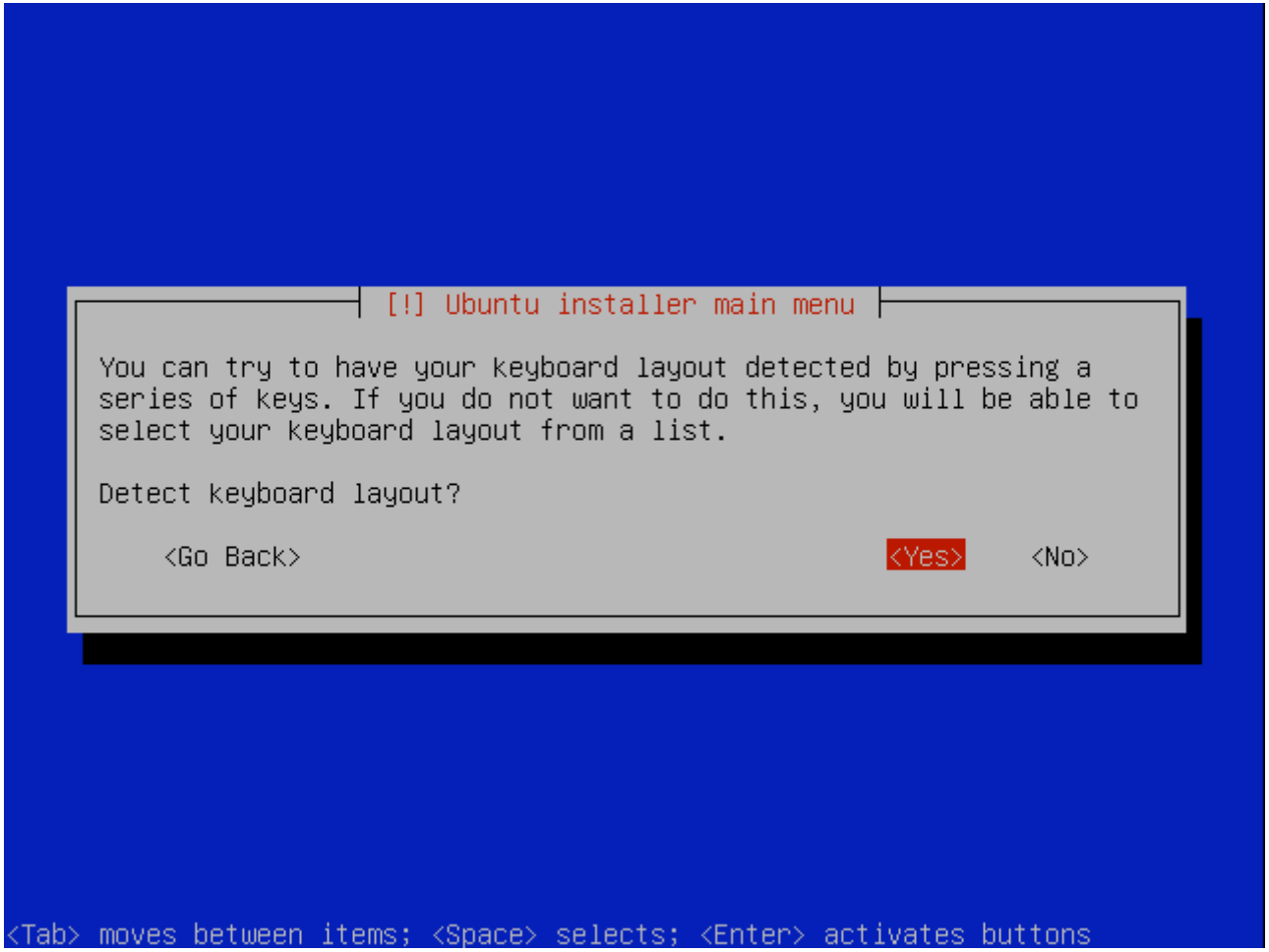
PLEASE READ!!! **This is an example only! Please choose your correct region, continent and country. It is important that you do this for the country where this workshop is taking place!**

Choose your country (example!)



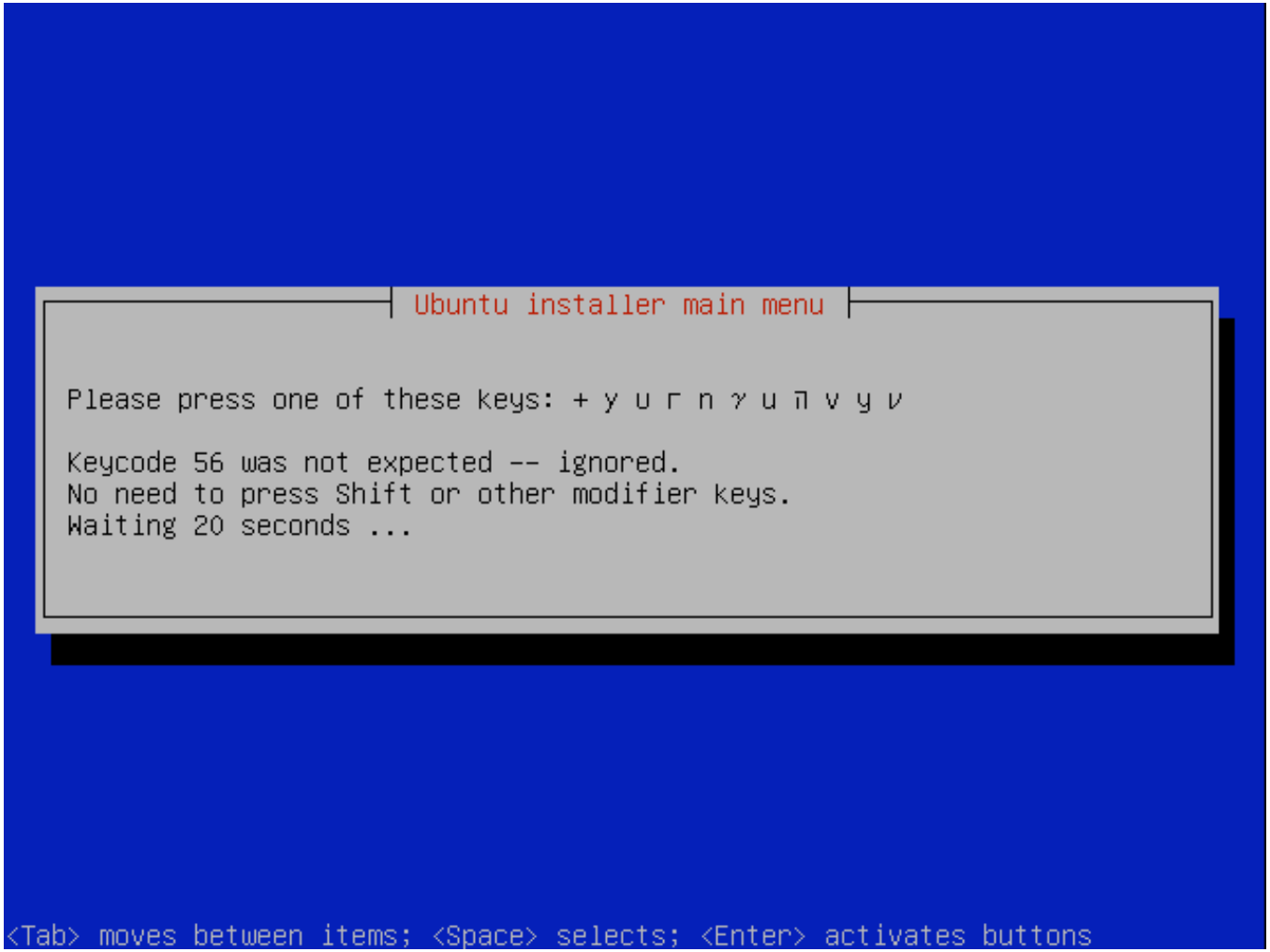
PLEASE READ!!! **This is an example only! Please choose the country where this workshop is taking place!**

Auto-detection of Keyboard

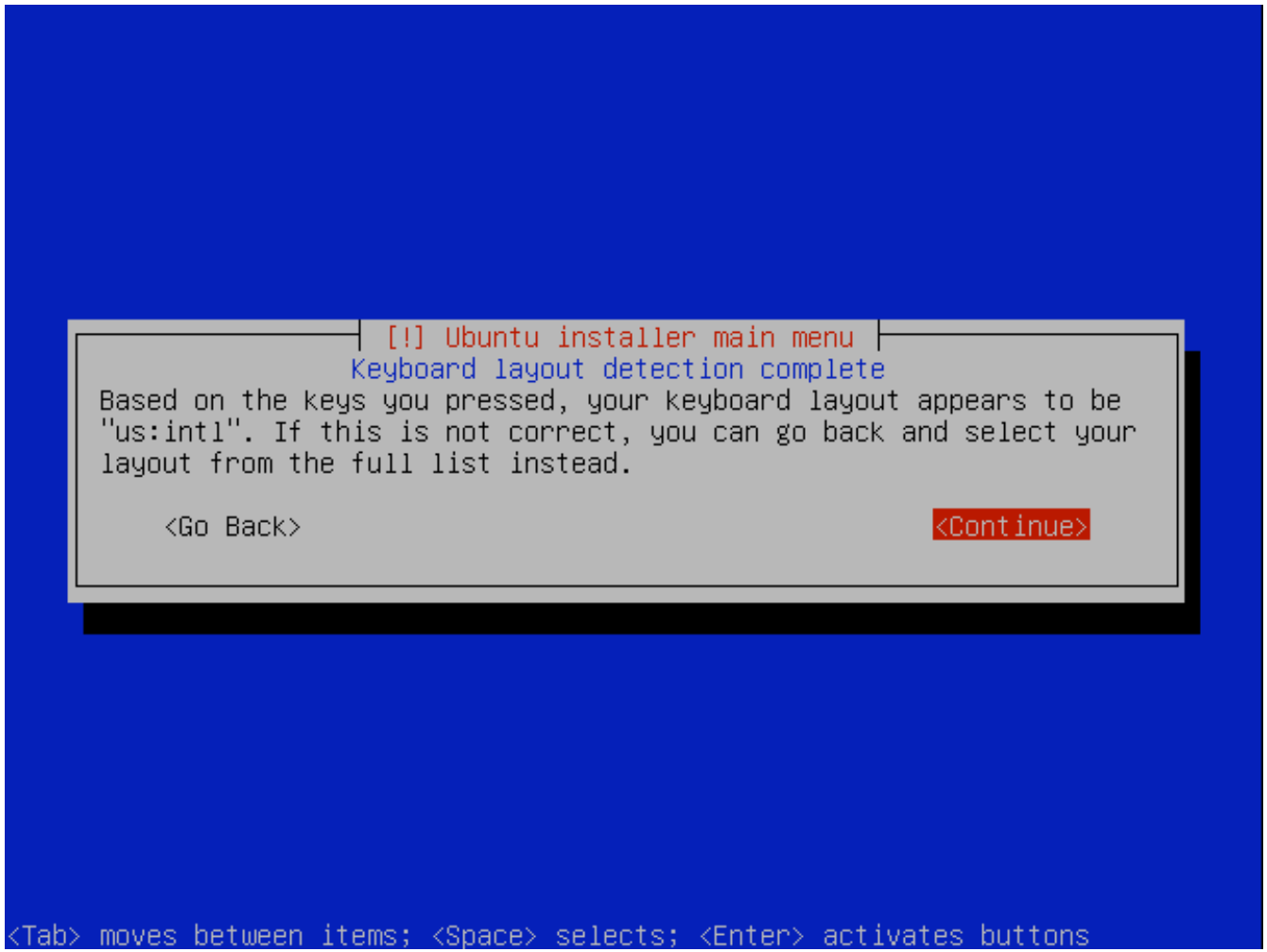


PLEASE READ!!! **If you wish to use a different keyboard than is detected we can change this after installation.**

Auto-detection of keyboard cont.

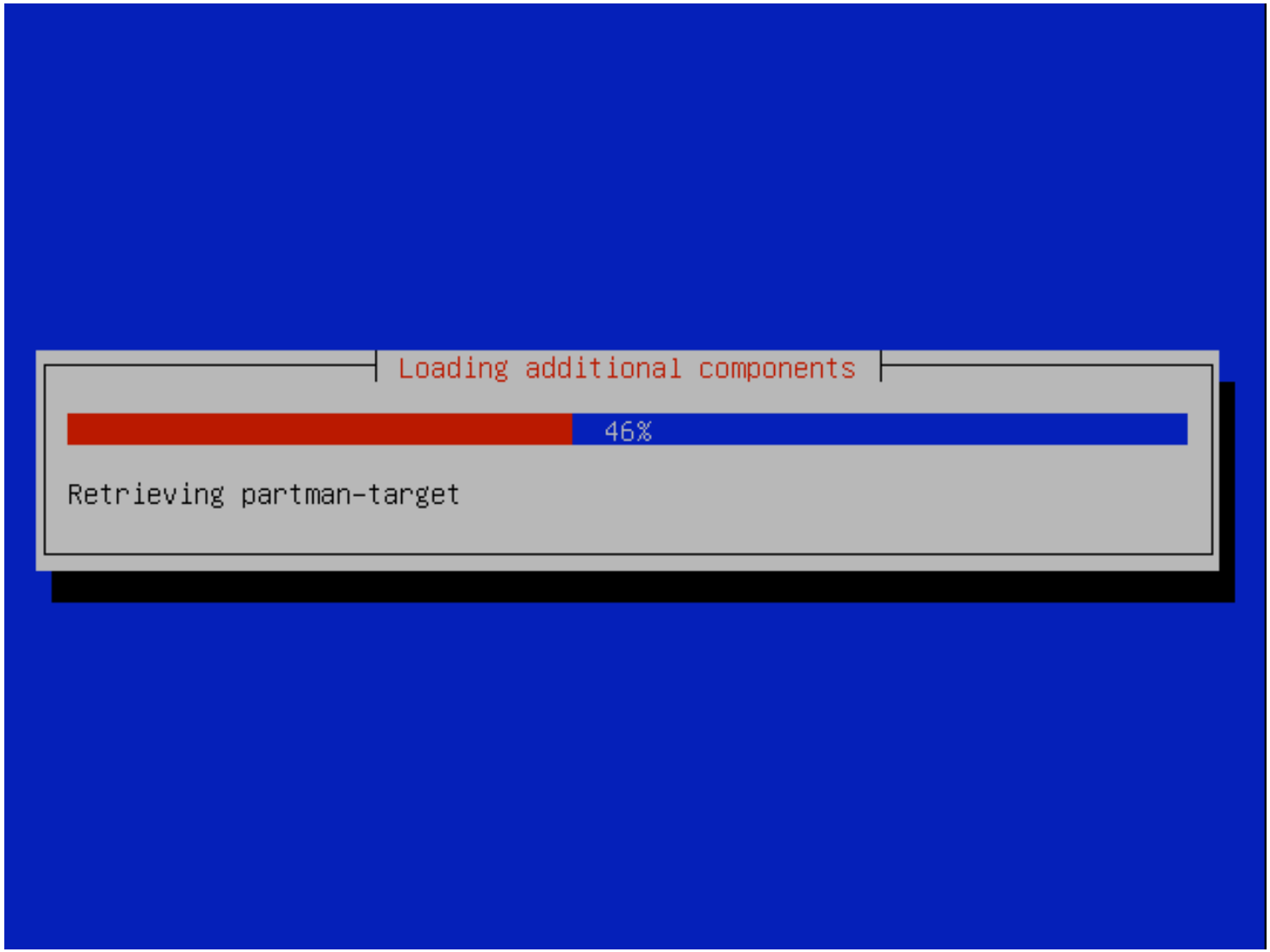


Keyboard choice (example only!)

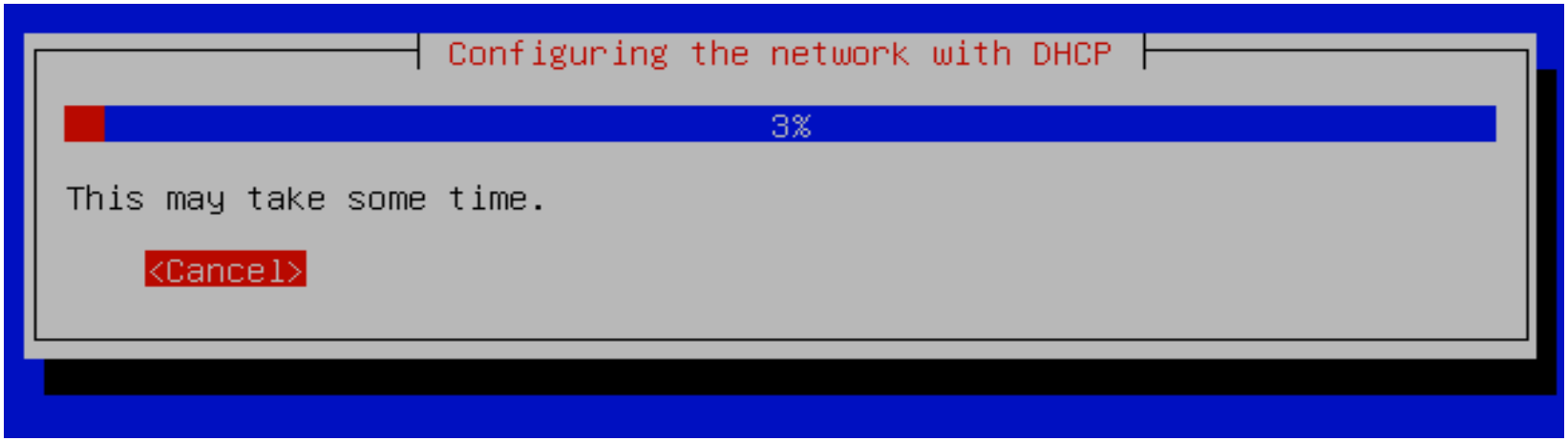


If you wish to use a different keyboard than is detected we can change this after installation. Press “Continue”.

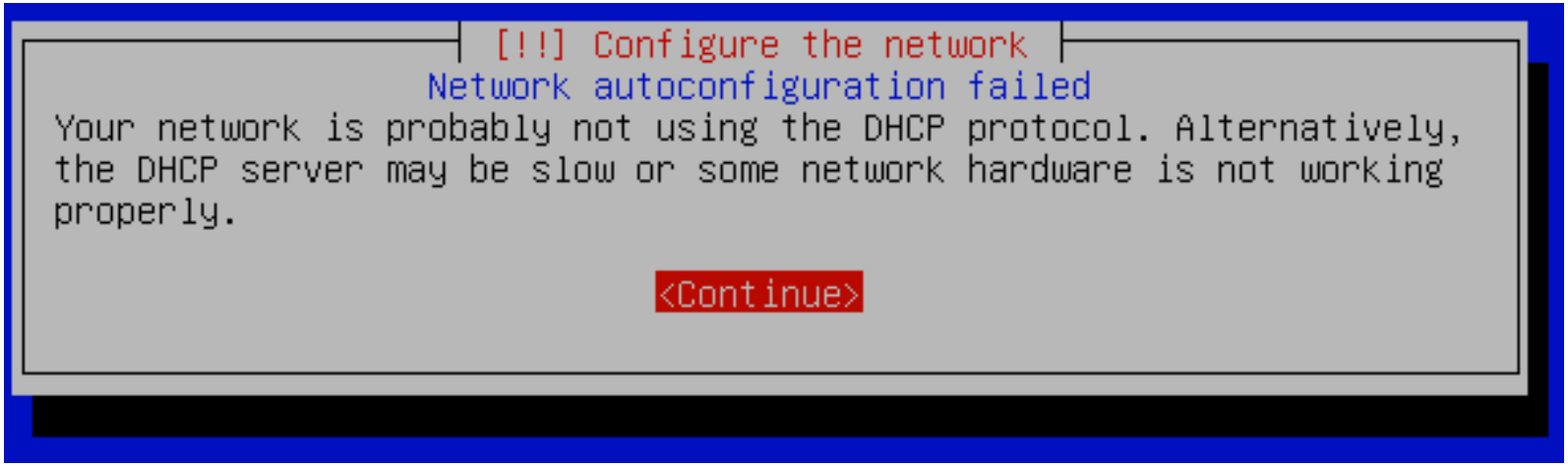
After keyboard selection…



Detecting Network…

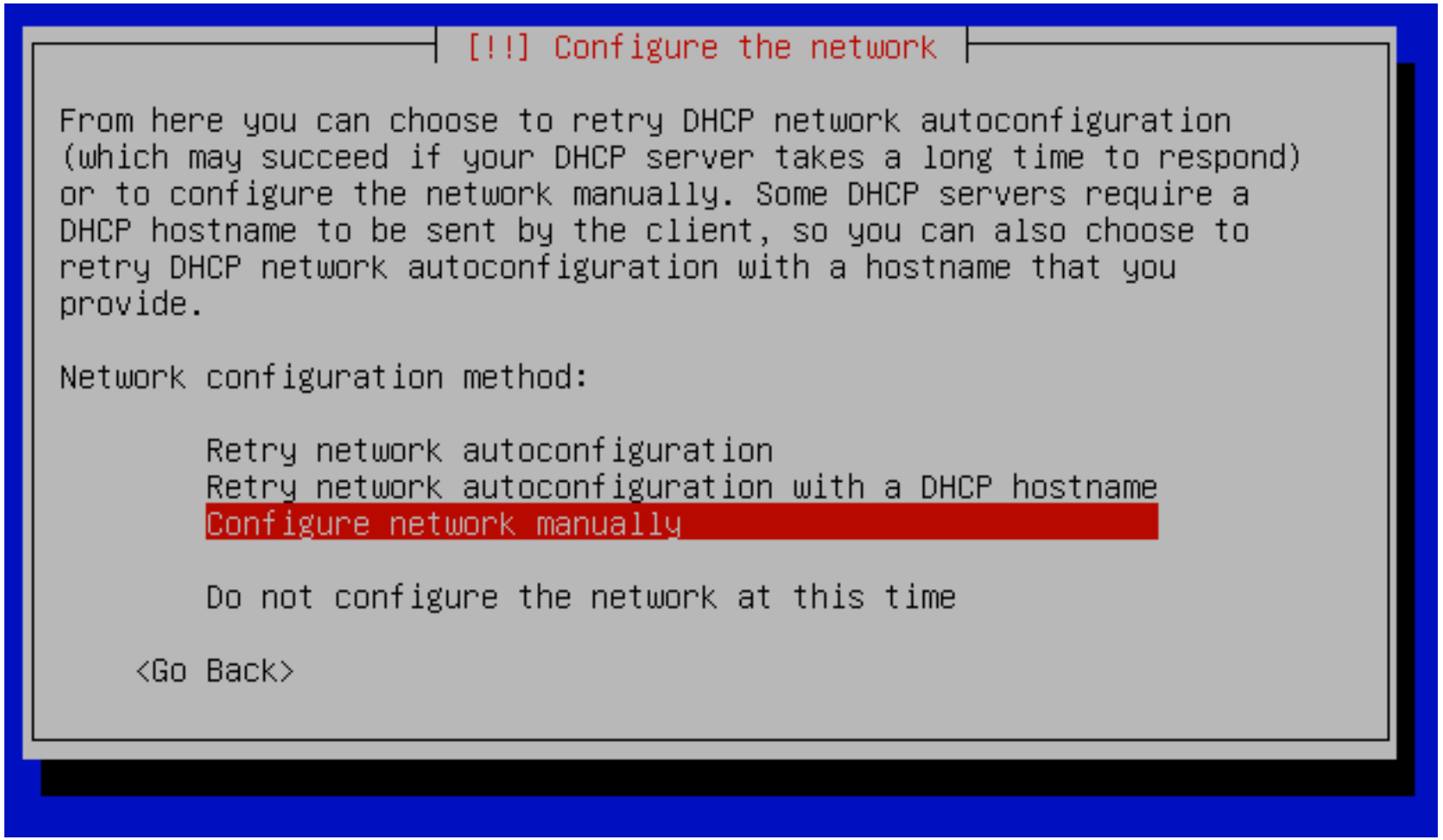


Press “Cancel” to configure your network manually.



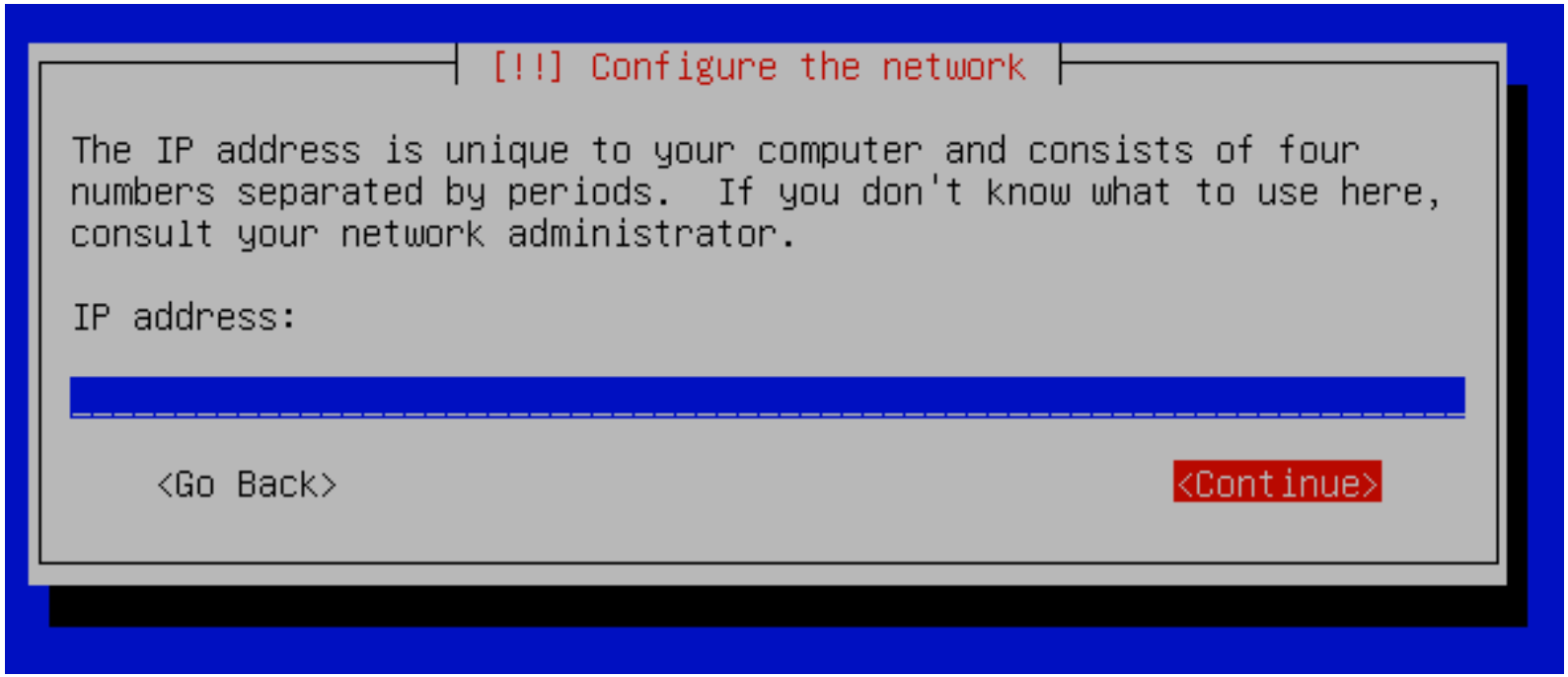
Press “Continue” to continue.

Configuring Network



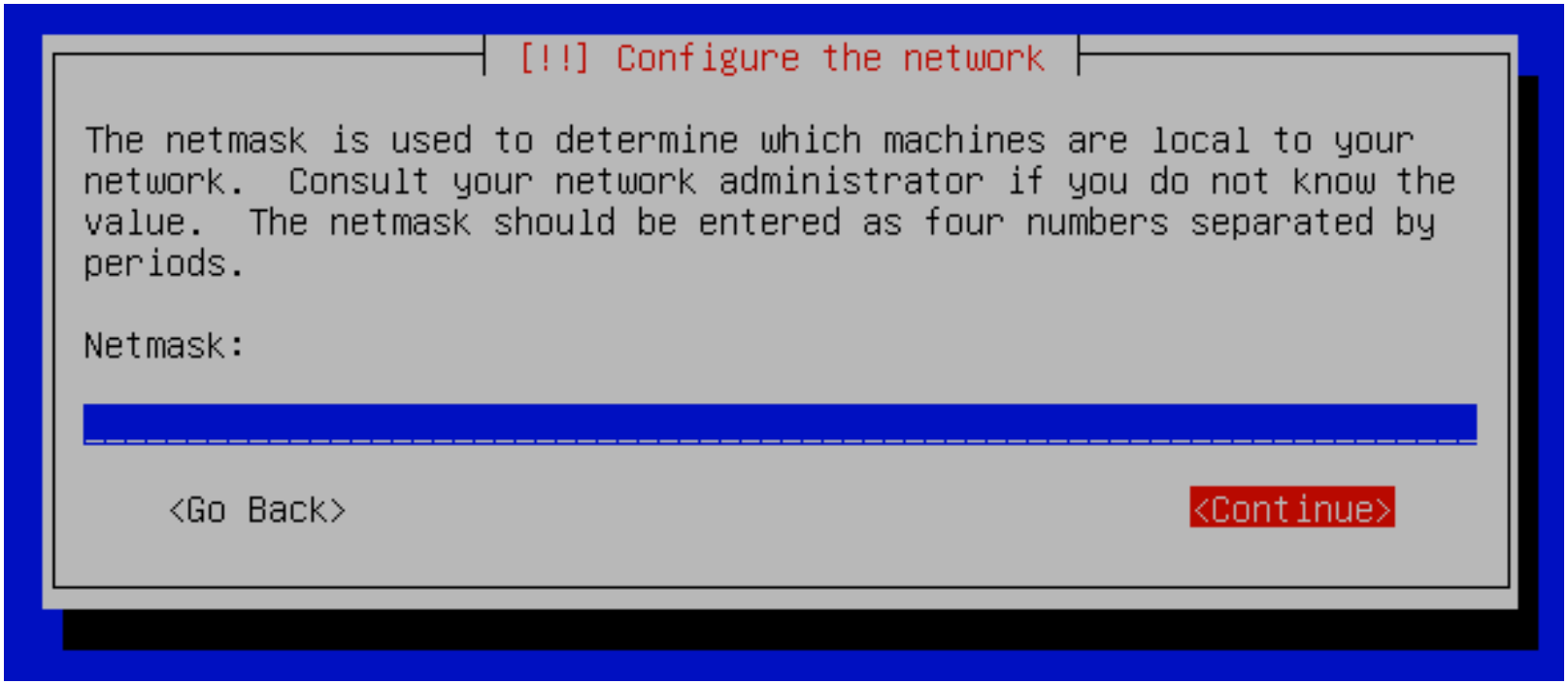
Be sure to select manual configuration

Static IP Address



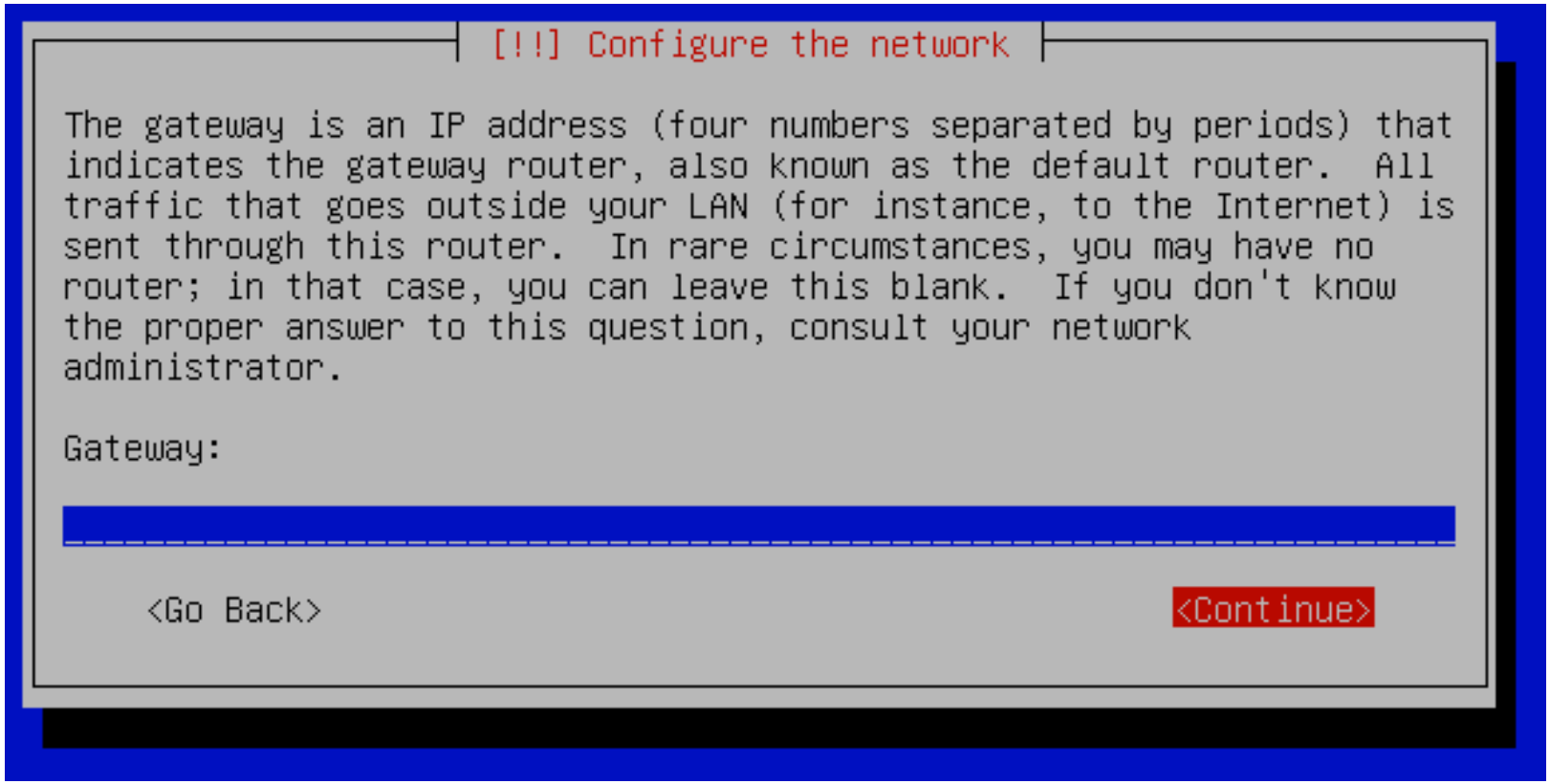
Refer to your network information you gathered at the start of this exercise. If you are not sure of any information ask your instructor or an assistant for help.

Network Mask (netmask)



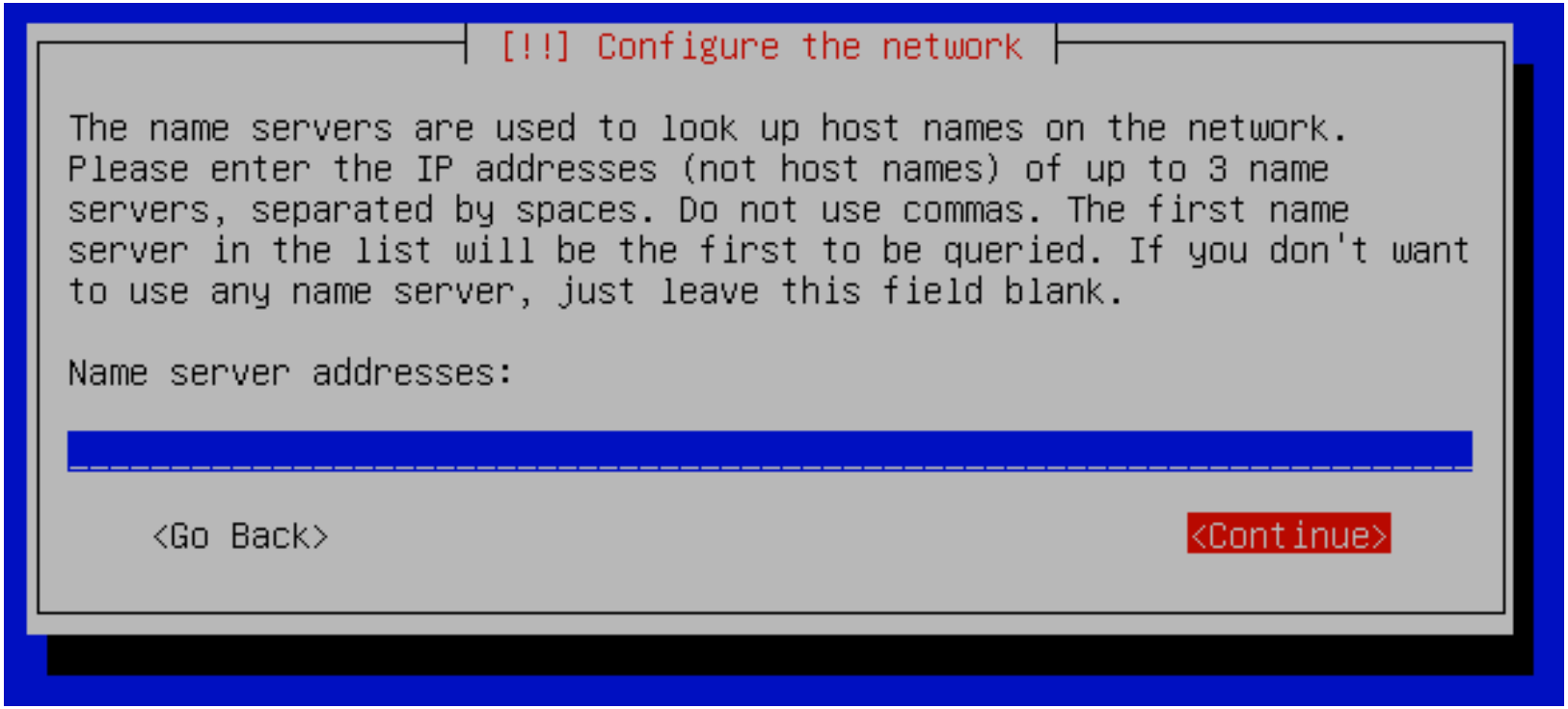
The installer wants netmasks in the form: nnn.nnn.nnn.nnn
For instance, a '/24' is represented as 255.255.255.0

Network Gateway



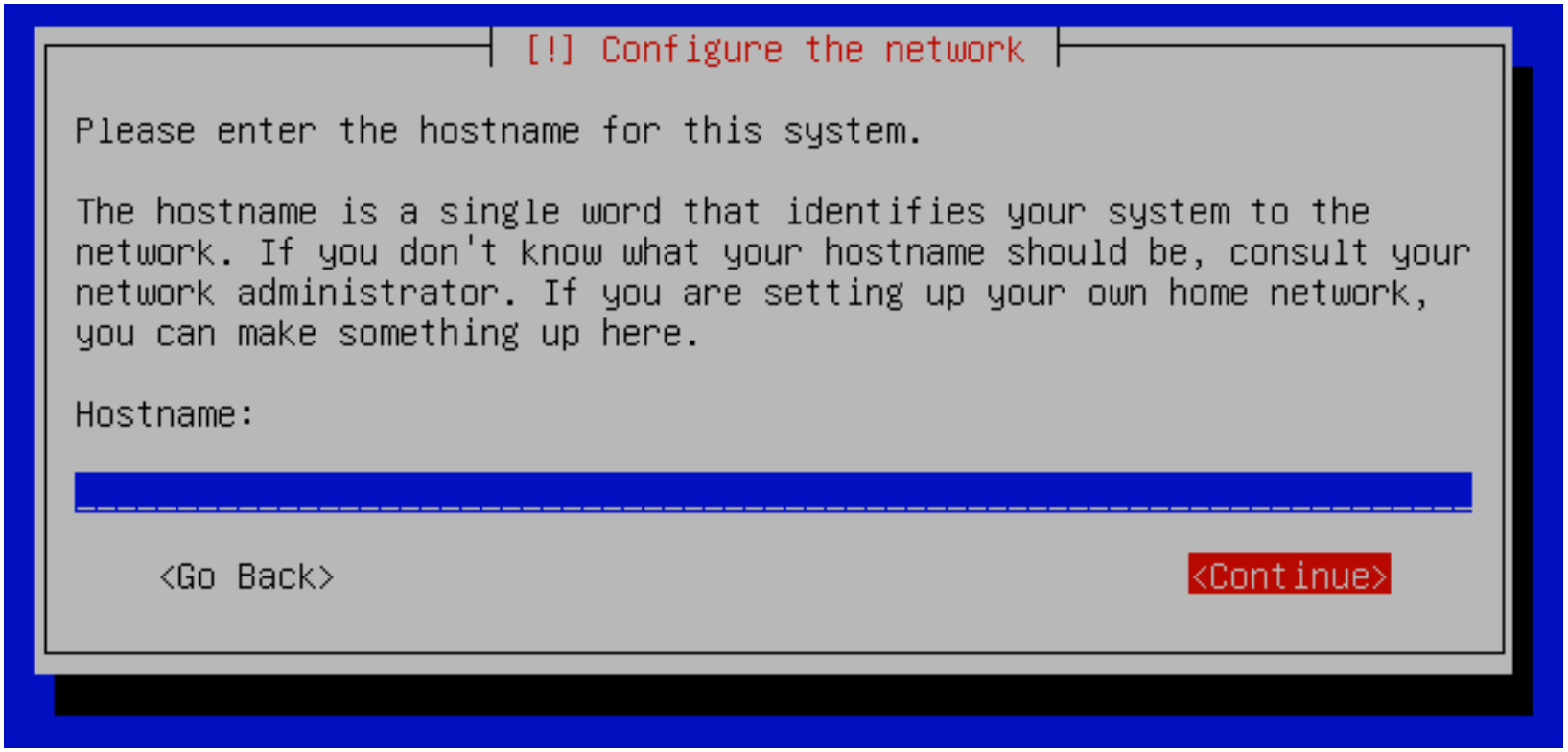
Refer to your network information you gathered at the start of this exercise. If you are not sure of any information ask your instructor or an assistant for help.

Name Server or DNS



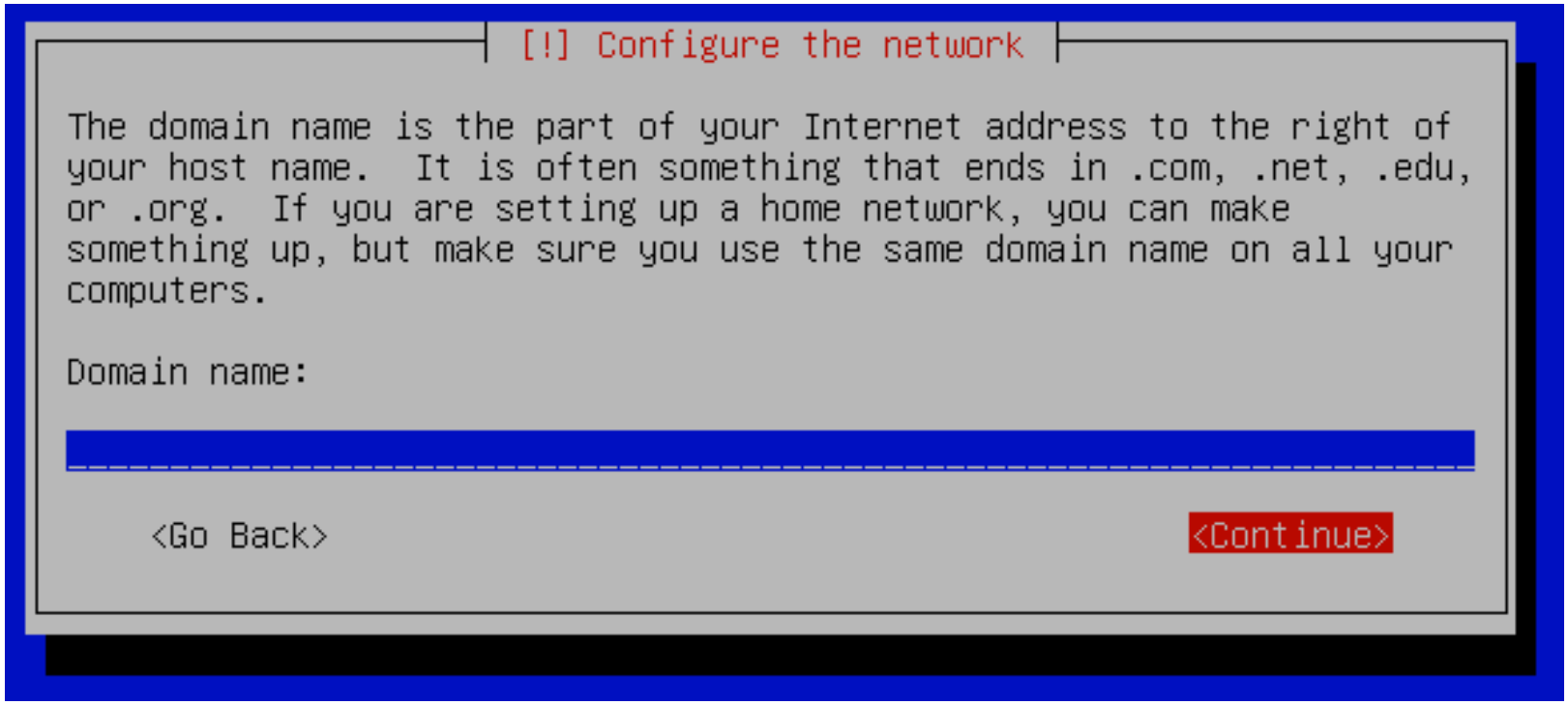
Refer to your network information you gathered at the start of this exercise. If you are not sure of any information ask your instructor or an assistant for help.

Hostname



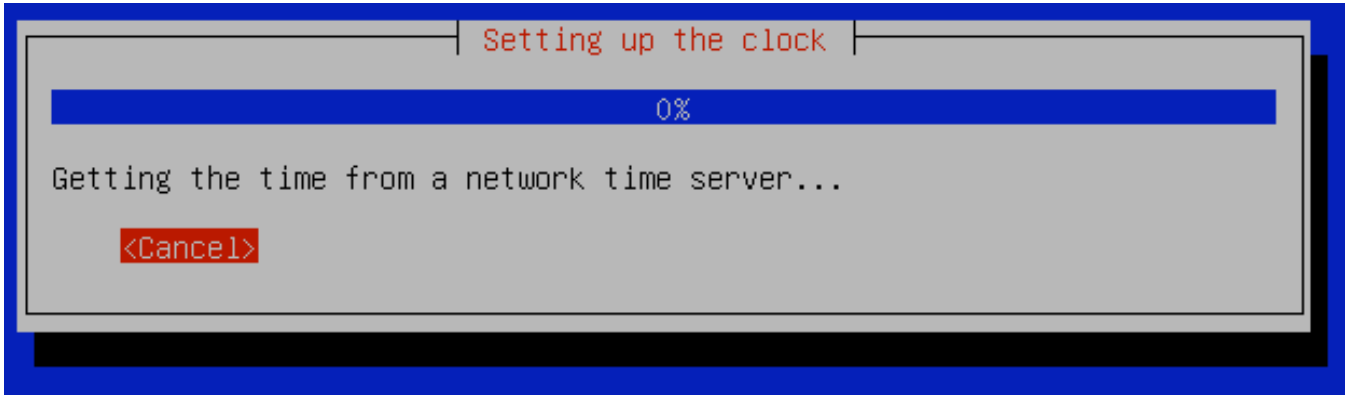
Only enter the hostname. You will enter the domain name in the next step.

Domain Name



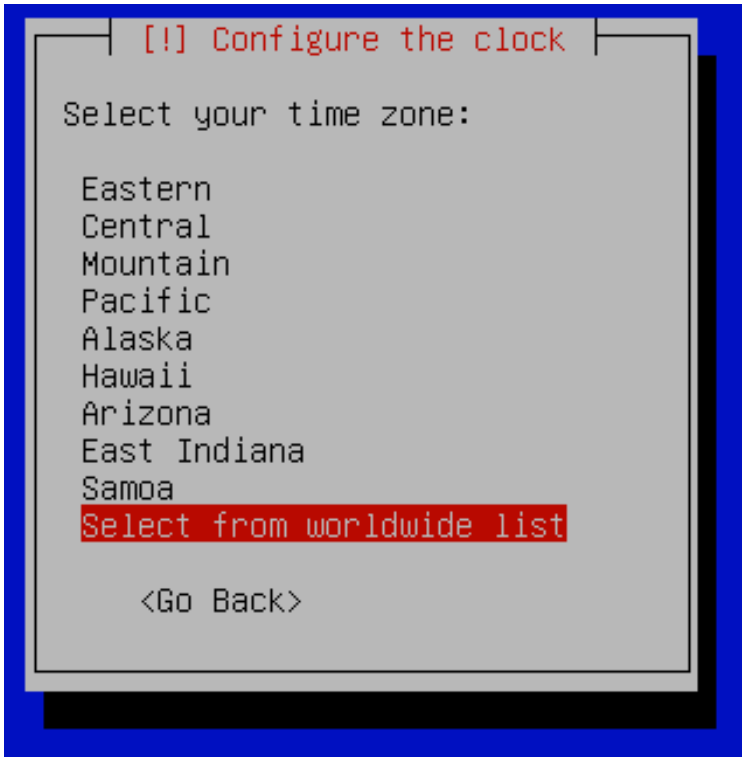
Refer to your network information you gathered at the start of this exercise. If you are not sure of any information ask your instructor or an assistant for help.

Configuring Your Clock



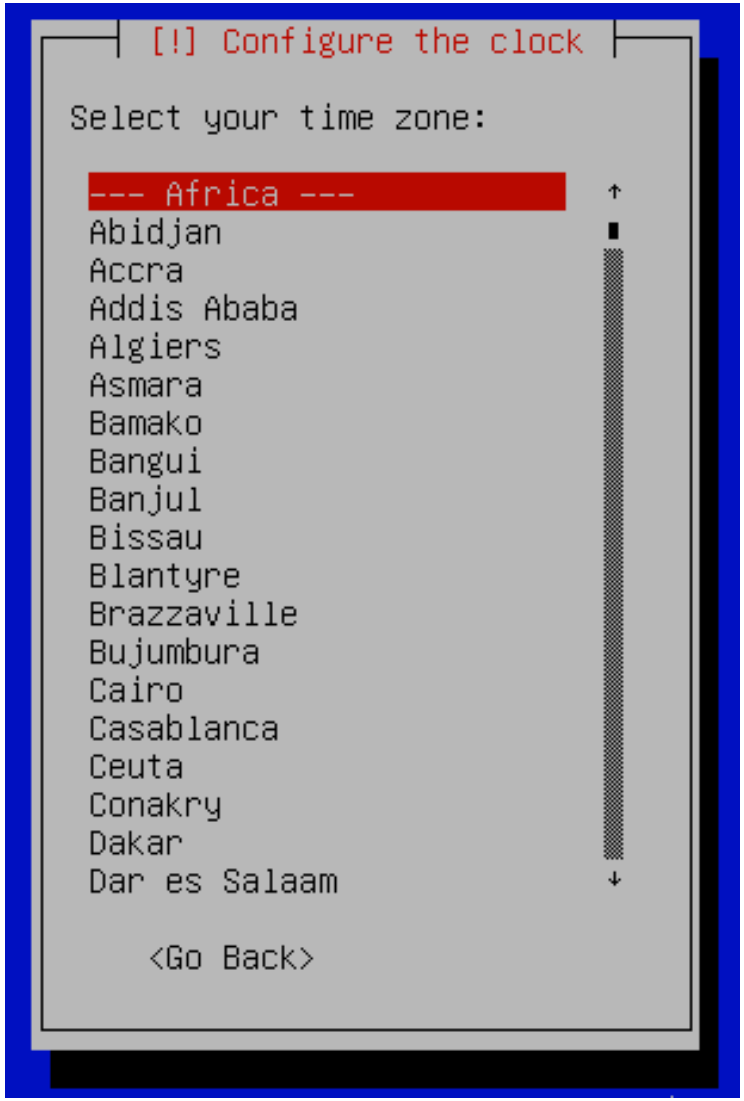
It's important that you configure your clock for the time zone where this course is taking place.

If you choose another time zone some of your server settings will not be optimal – including the locations where you obtain additional software for your installation.



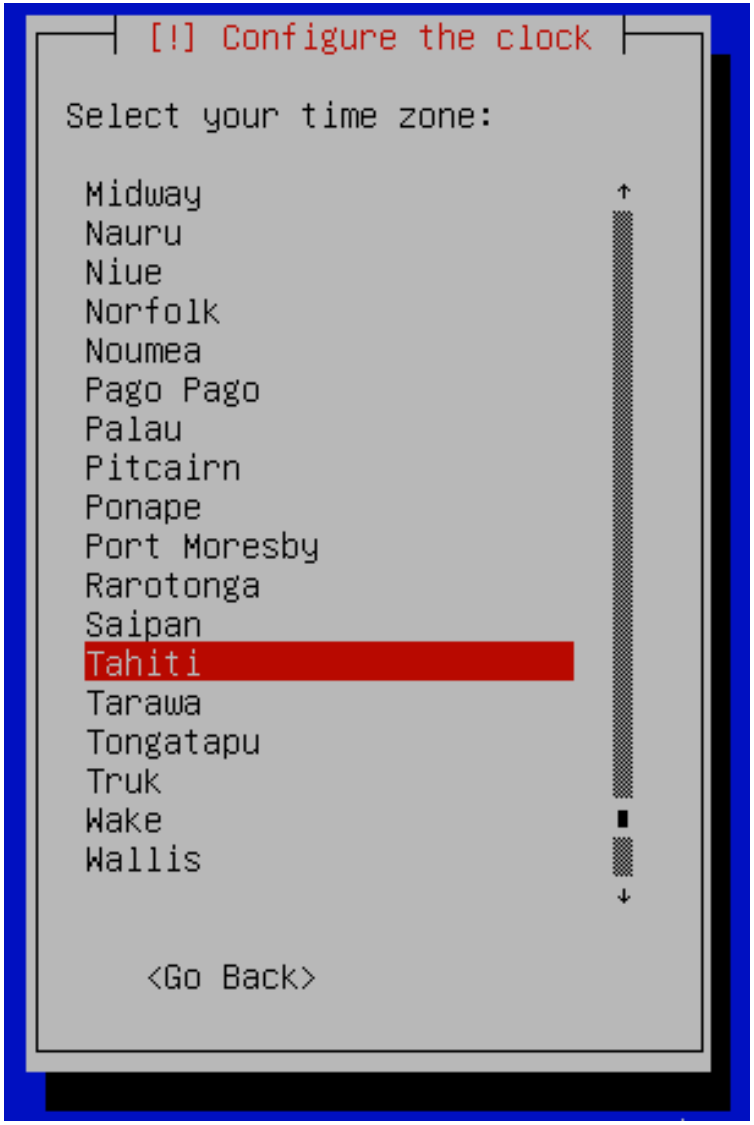
Select Your Time Zone

If you chose “Select from worldwide list” in the previous step, then scroll down the screen until you find your region and country. Highlight your choice and press <ENTER> to continue.

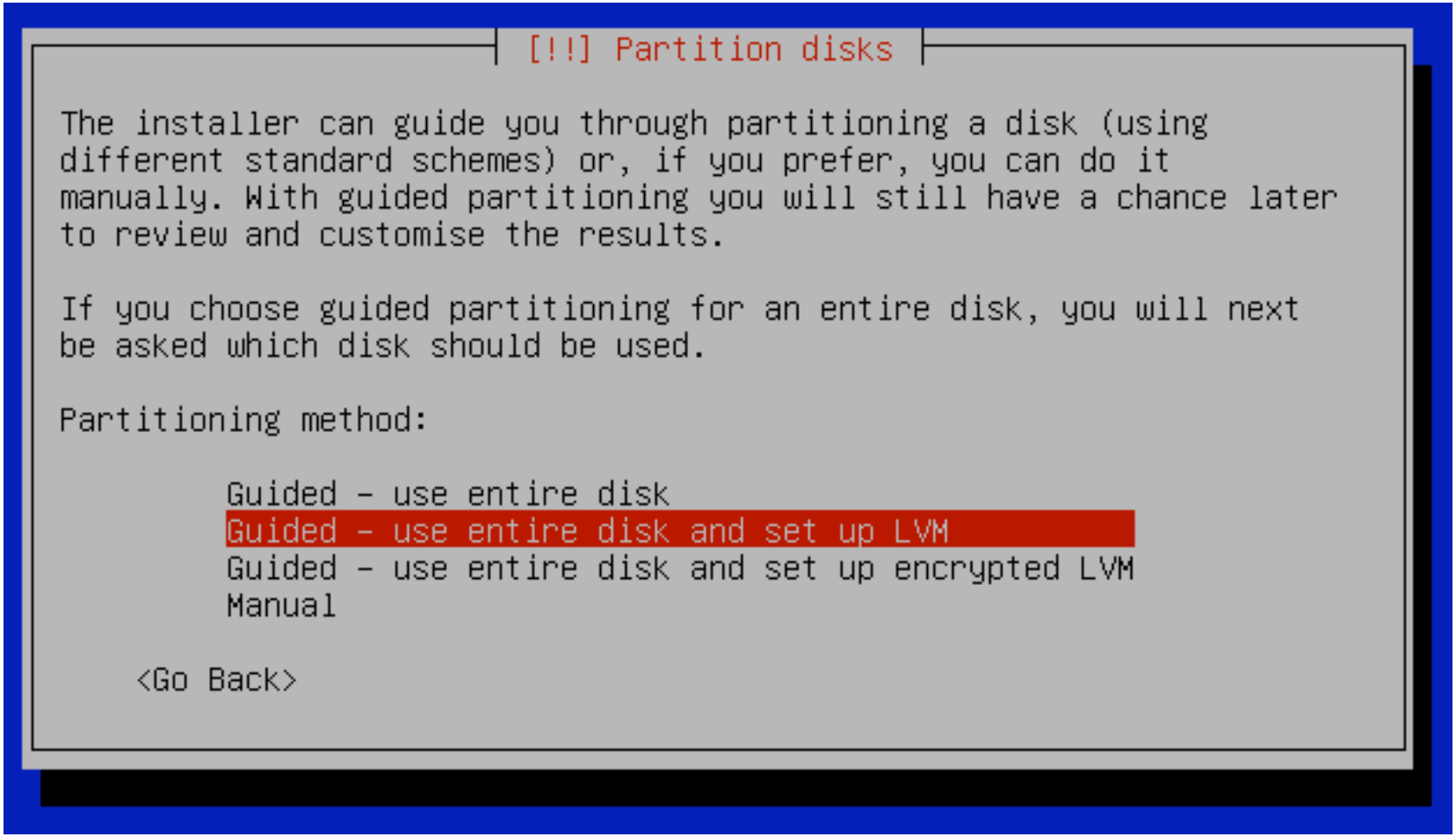


Configuring Your Clock cont.

The diagram on the right is an example only. Please choose the country where this workshop is taking place and press <ENTER> to continue.

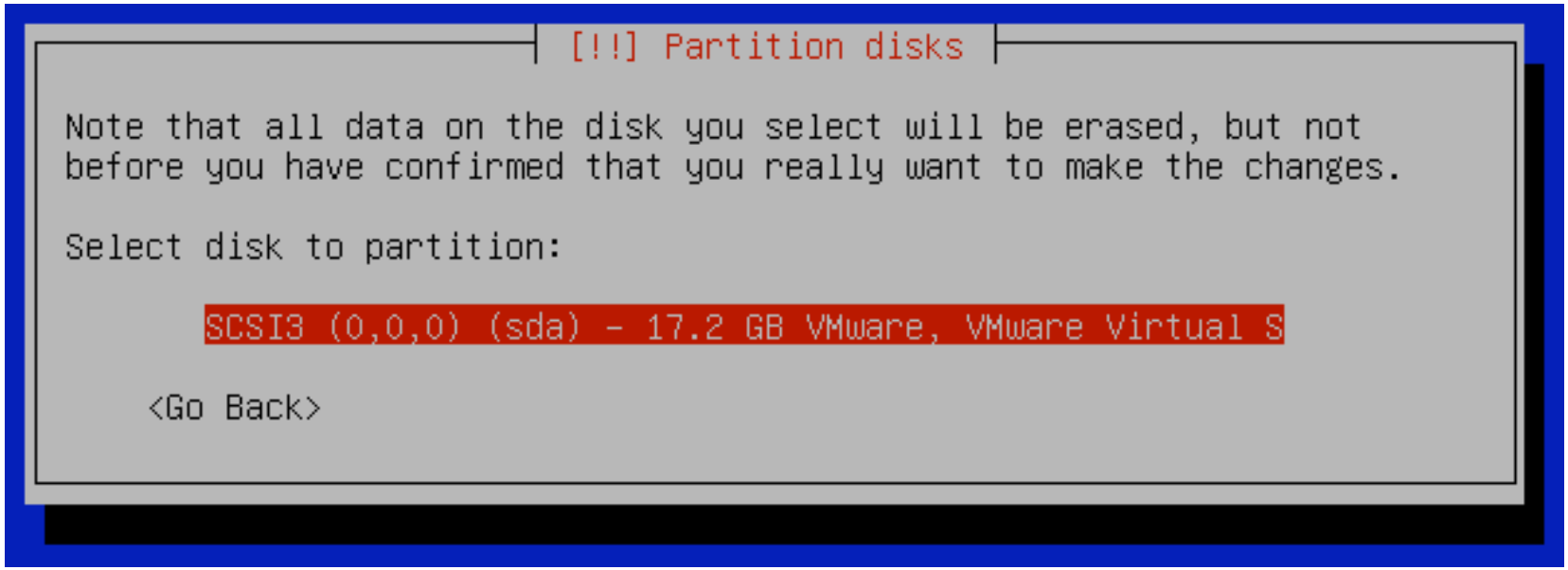


Partitioning Your Disk



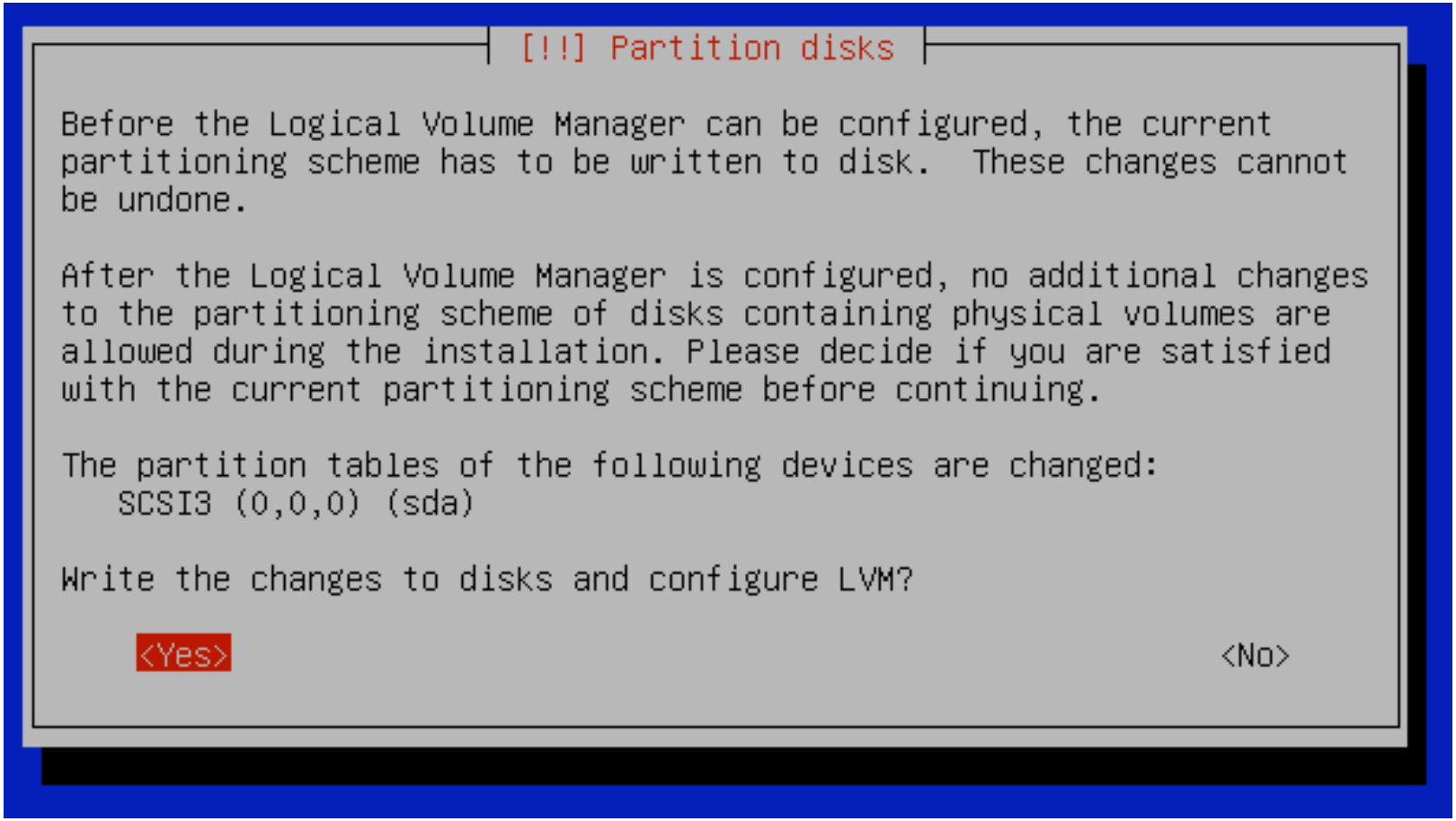
In class your instructor may demonstrate doing a manual partition of your drive. Please select either "Guided – use entire disk" or "Guided – use entire disk and set up LVM" and press <ENTER> to continue.

Partitioning Your Disk cont.



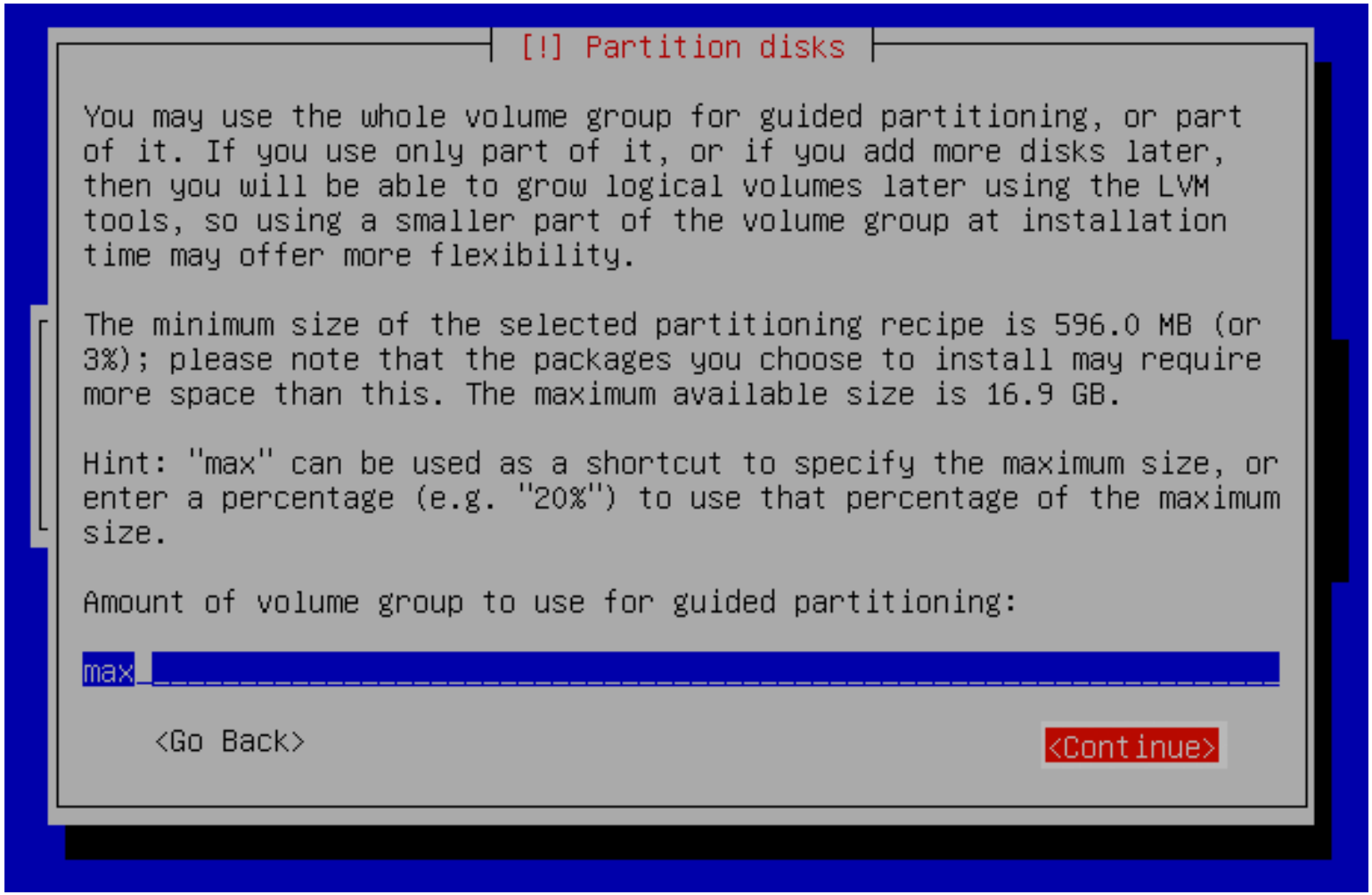
Assuming you have a single disk and we plan on using the entire disk, then your screen should look something like this. The sizes will be different. This is an example only.

Partitioning Your Disk cont.



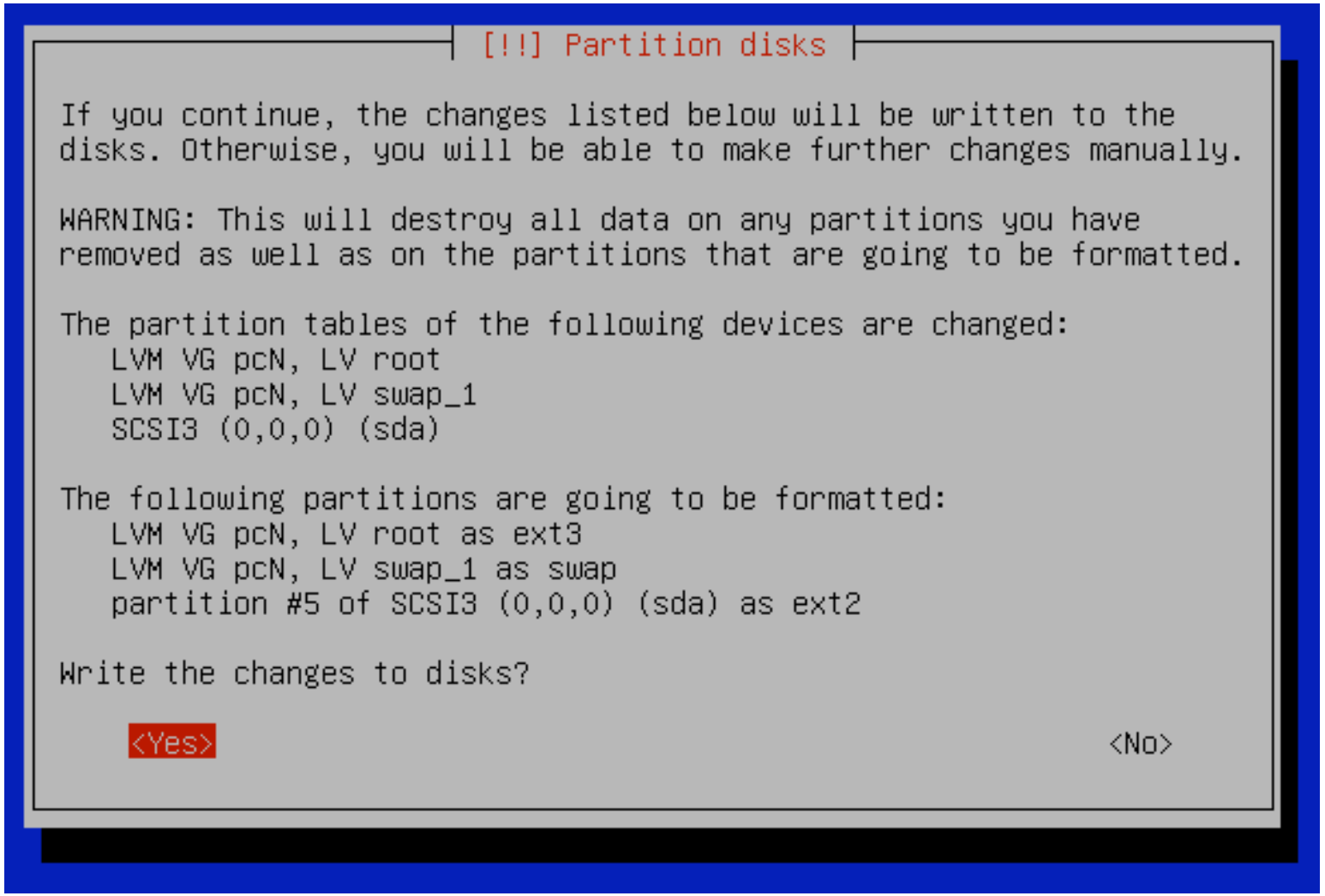
Select "<Yes>" and press <ENTER> to continue.

Partitioning Your Disk cont.



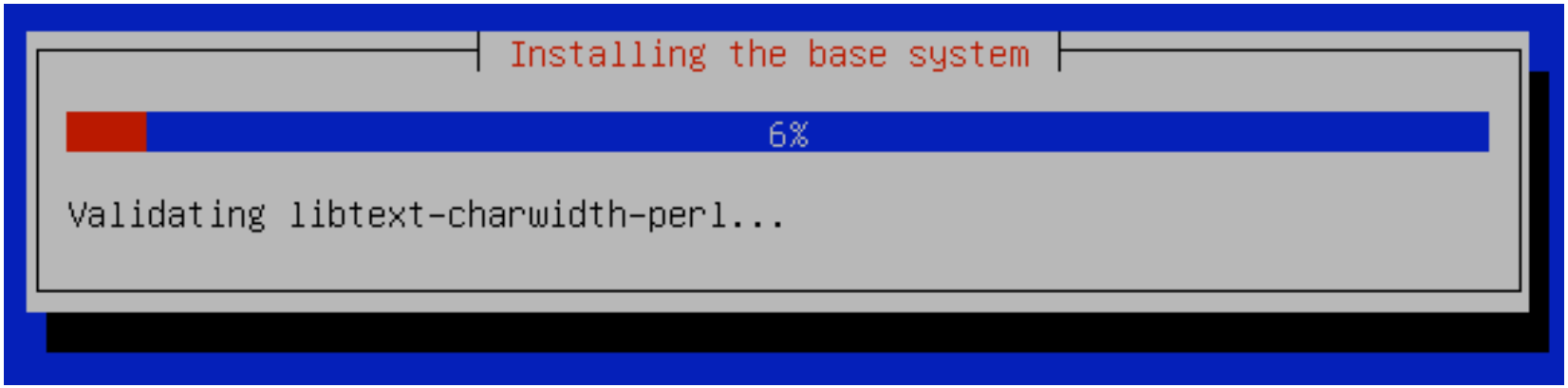
The full size of the disk or “max” should be entered here. Select “<Continue>” and press <ENTER> to continue.

Partitioning Your Disk cont.



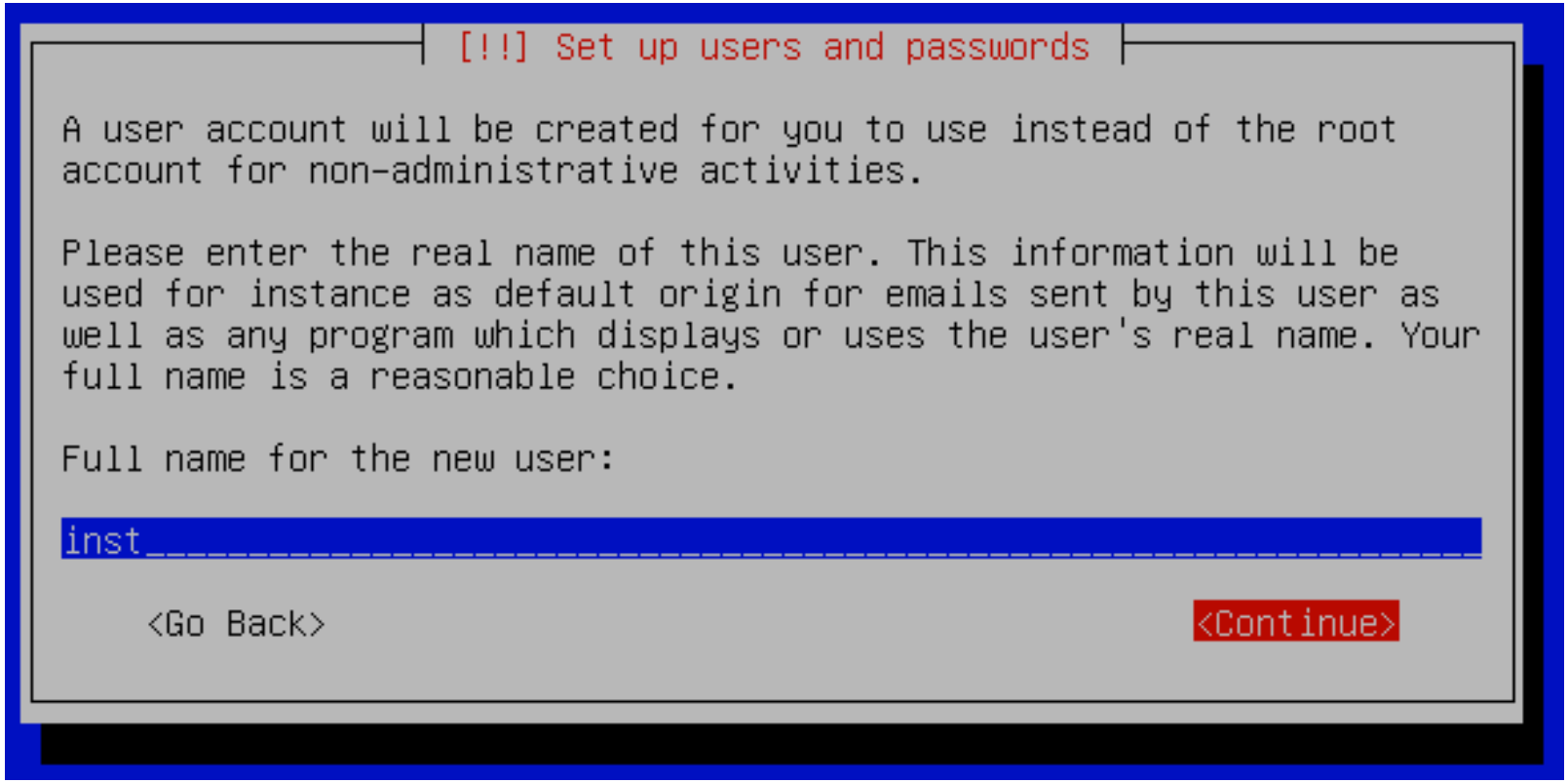
Select "<Yes>" and press <ENTER> to continue.

Installing the Base System



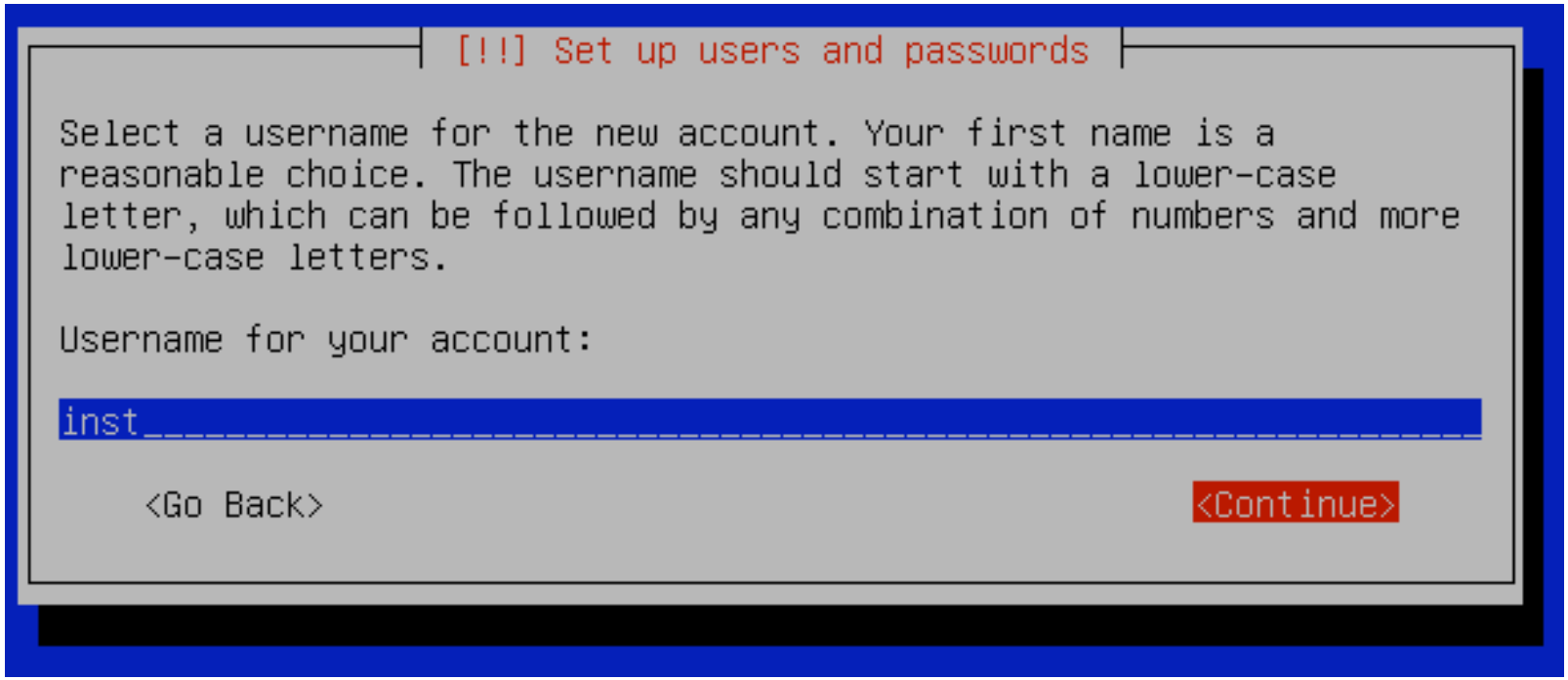
You will see your disk being partitioned as well as a number of packages being installed. This may take a few moments.

Create a User



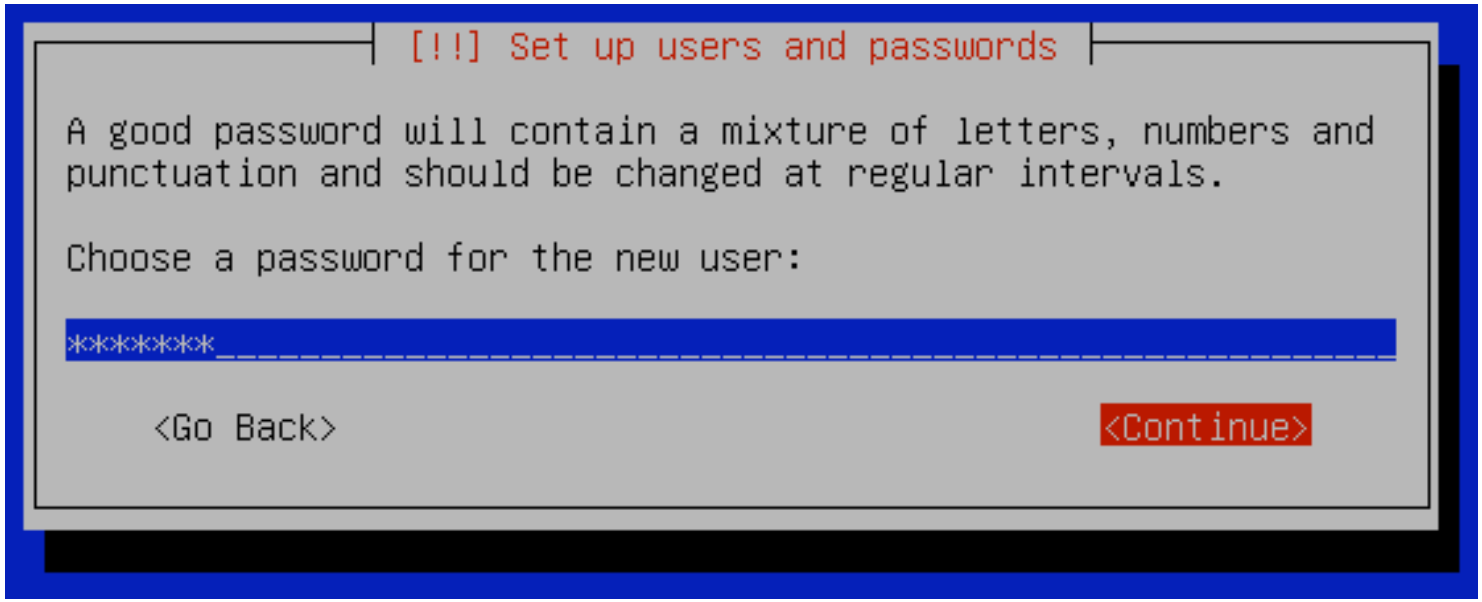
You can actually use any descriptive name you wish here, but be sure in the next step to name the user "*inst*".

Select Username *inst*



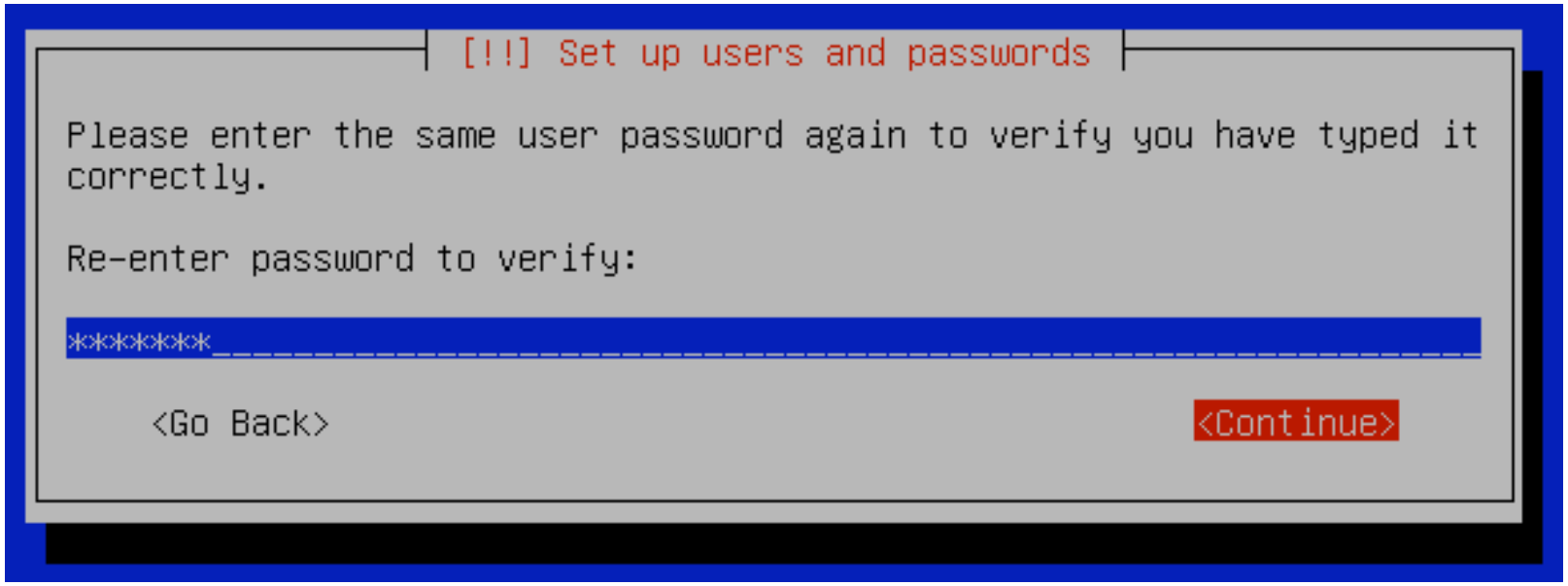
Please be sure to use "*inst*" as the username. We will be using this user during the week.

Set Password for User *inst*



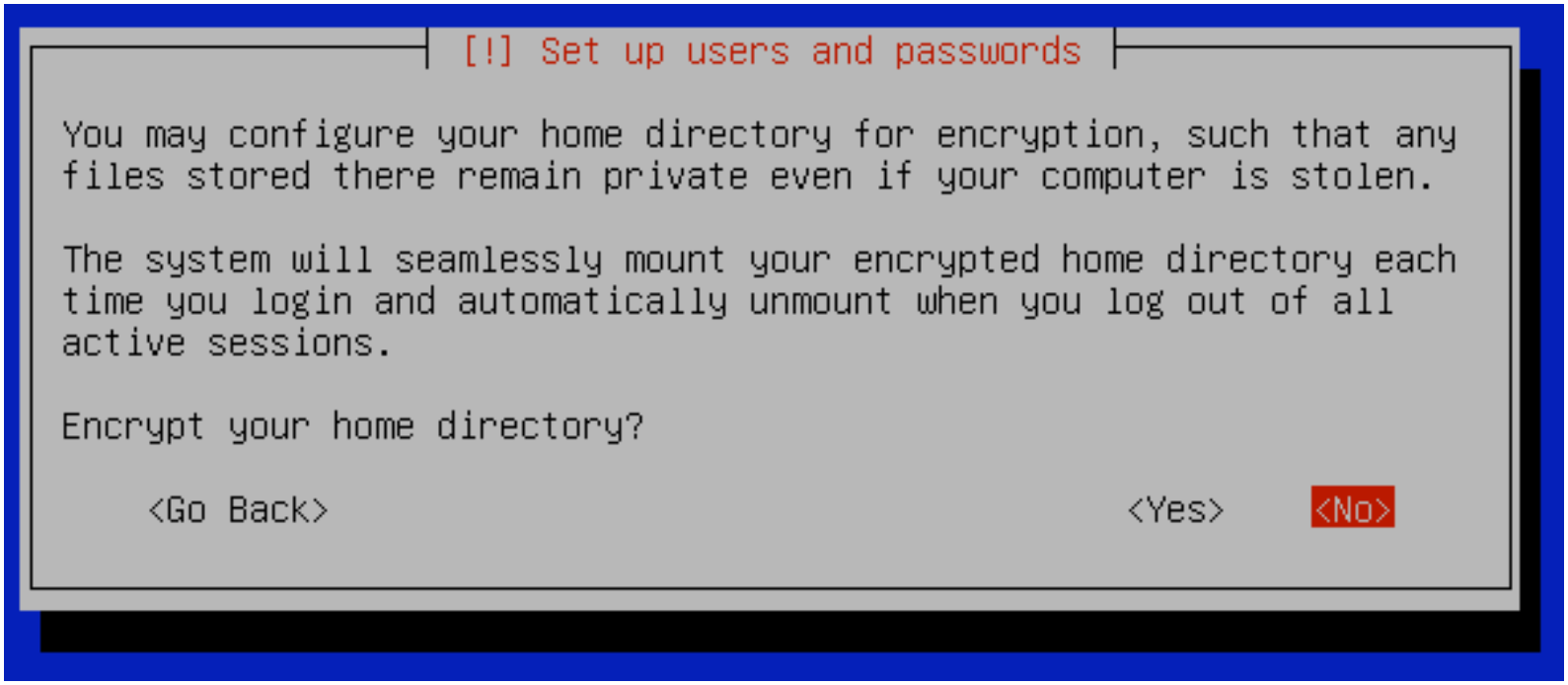
Please use the password given in class. If you use a different password we may not be able to assist with possible problems during the workshop.

Set Password for User *inst* cont.



Enter the password given in class, select "<Continue>" and press <ENTER>.

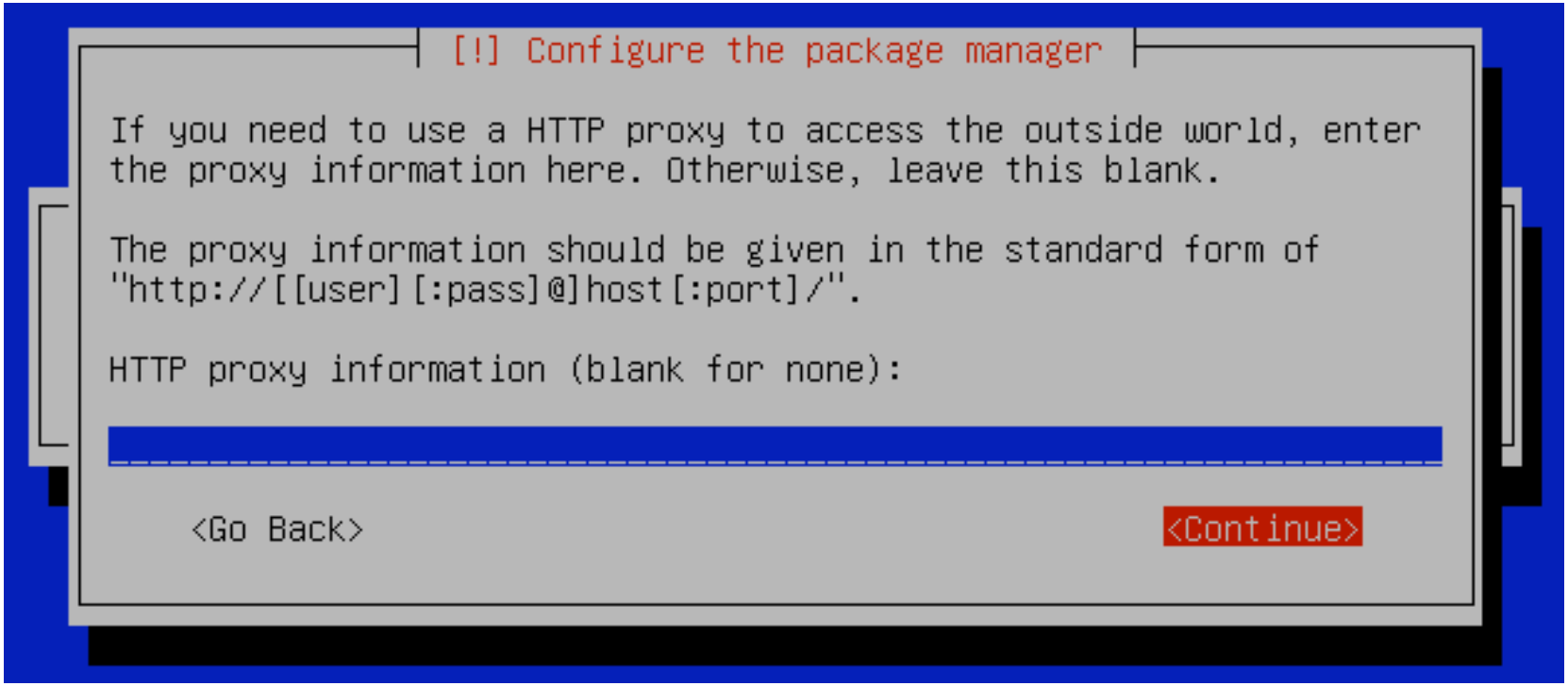
Encrypt Home Directory - No



Select "<No>" and press <ENTER> to continue.

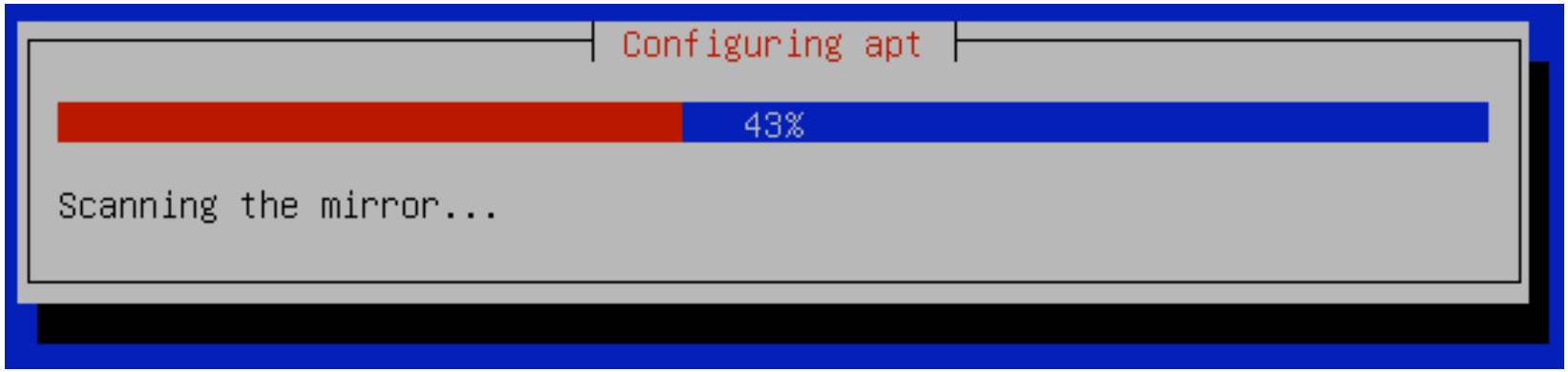
This is a nice feature, particularly on portable devices that can be easily stolen or lost, to protect personal data.

Enter in HTTP Proxy Information



For most workshops no HTTP proxy is used. If one is in use we will tell you before installation. In most cases, enter nothing, select "<Continue>" and press <ENTER>.

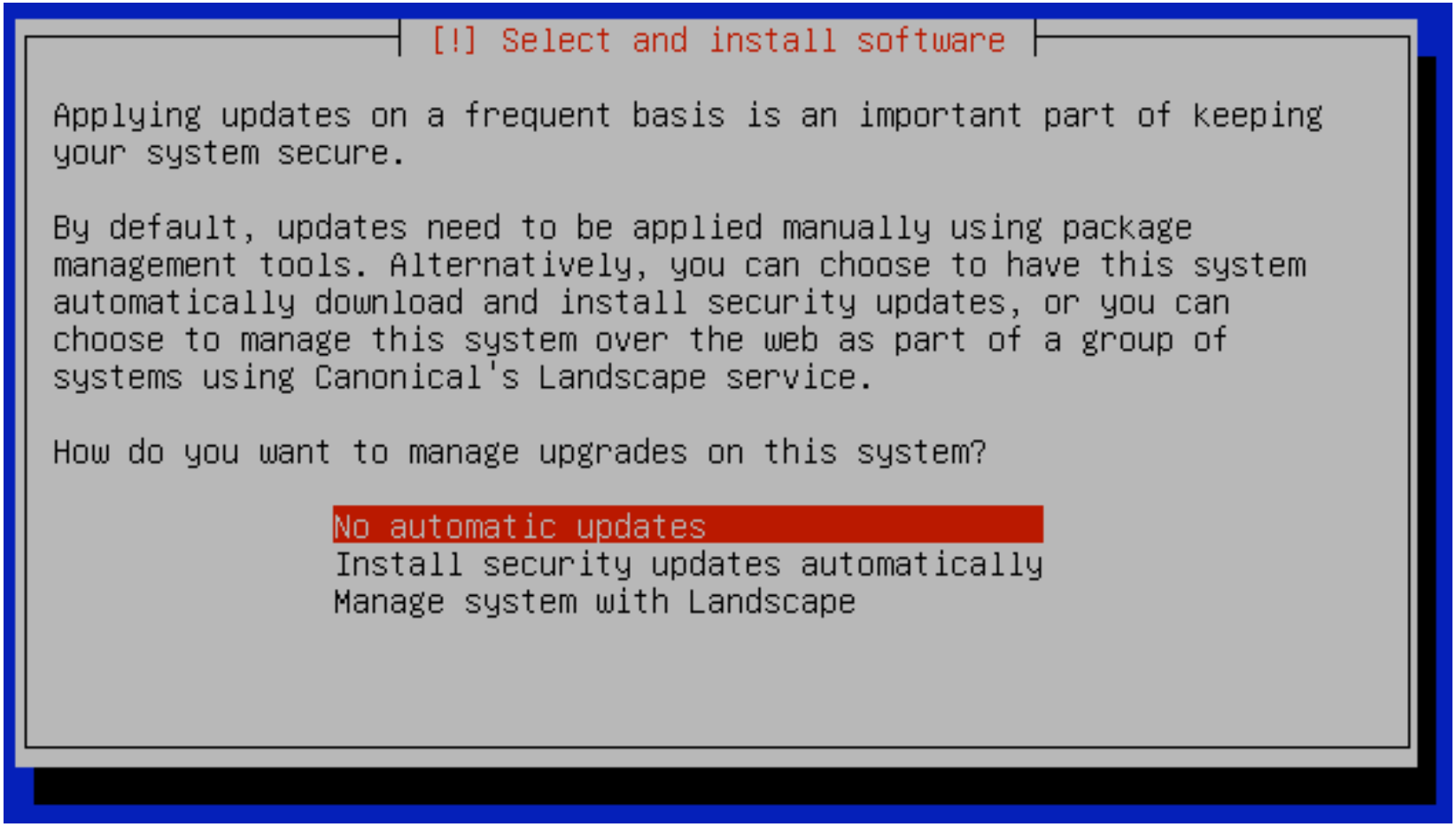
Scanning Mirrors Dialogue



This screen may pause for a while as your installation attempts to find the nearest Ubuntu software repository.

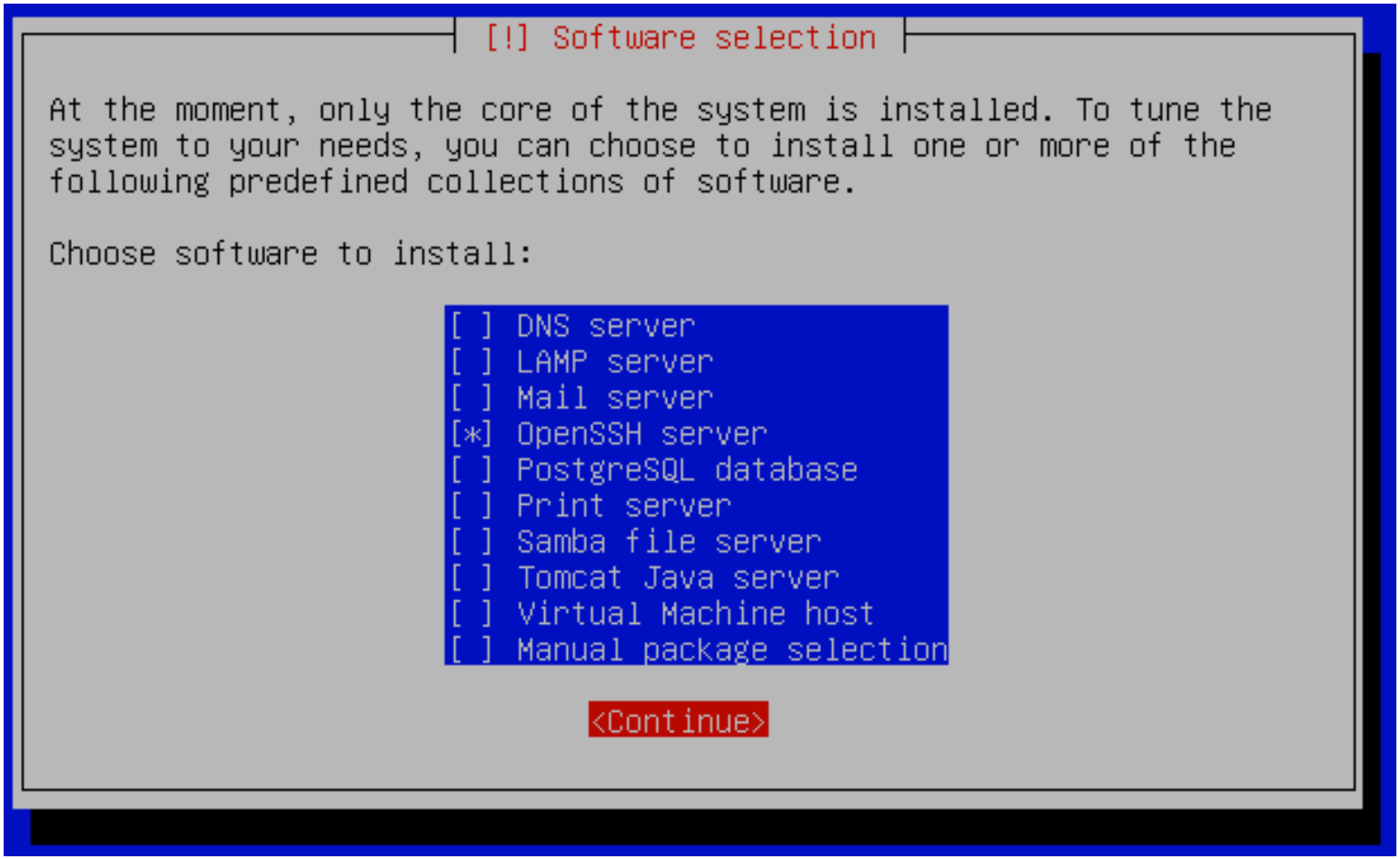
If you entered in the wrong time zone when setting your clock this dialogue may take considerably longer to finish. This can be resolved later.

Automatic Updates



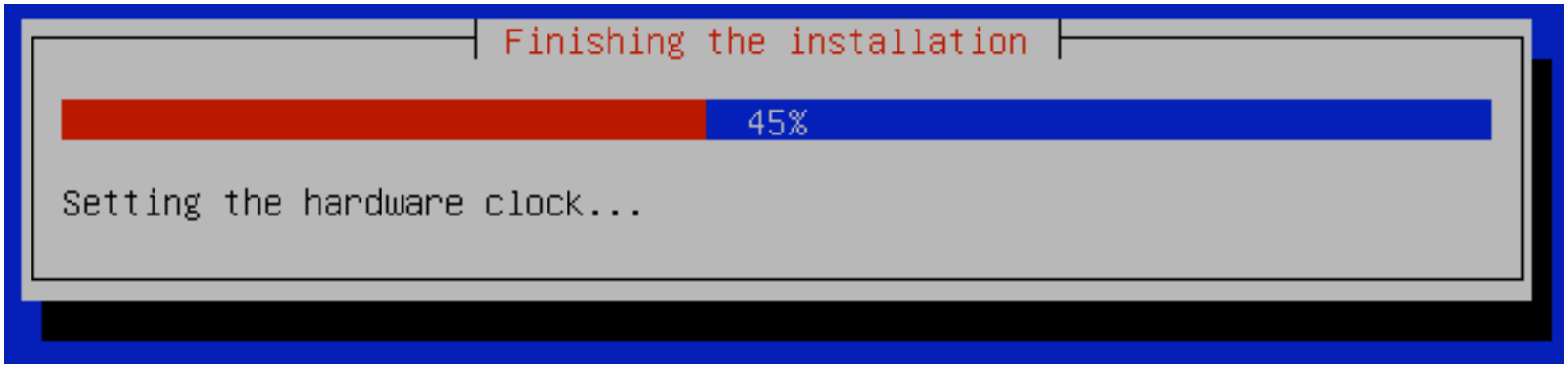
Please choose "No automatic updates" for now to avoid issues with bandwidth and version problems with installed software. We can discuss this more during the workshop.

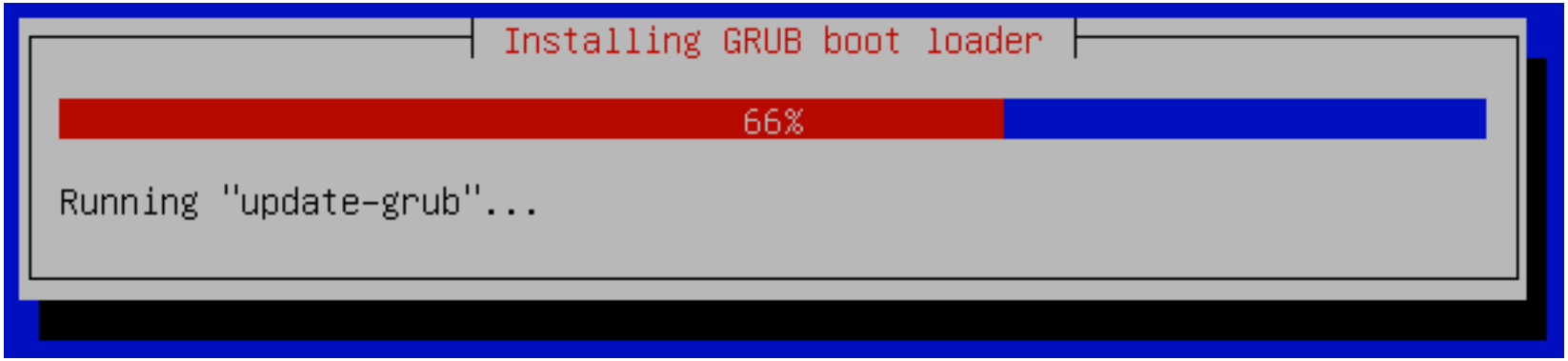
Software Installation



Other items we will install during the workshop. Please be sure to select "OpenSSH server", then select "<Continue>" and press <ENTER>.

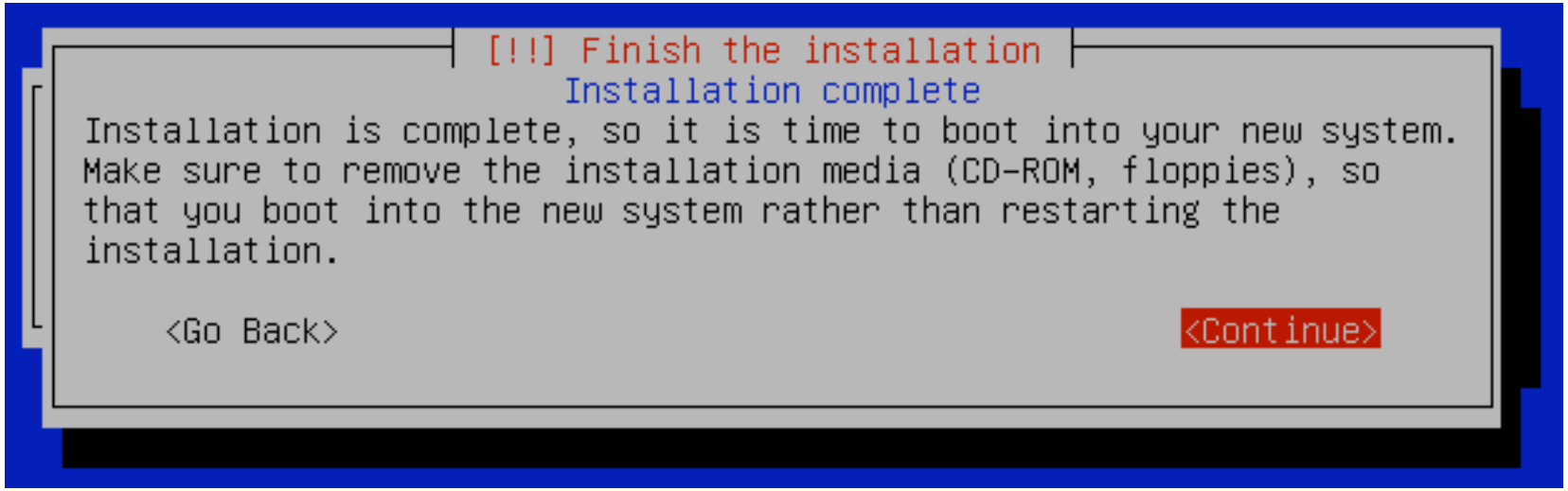
Final Install Steps





These should appear on your screen as Ubuntu finishes its installation process.

Installation Completed



If you are installing from a CD-ROM be sure to remove it as the machine is rebooting. Select "<Continue>" and press <ENTER> to reboot your machine.

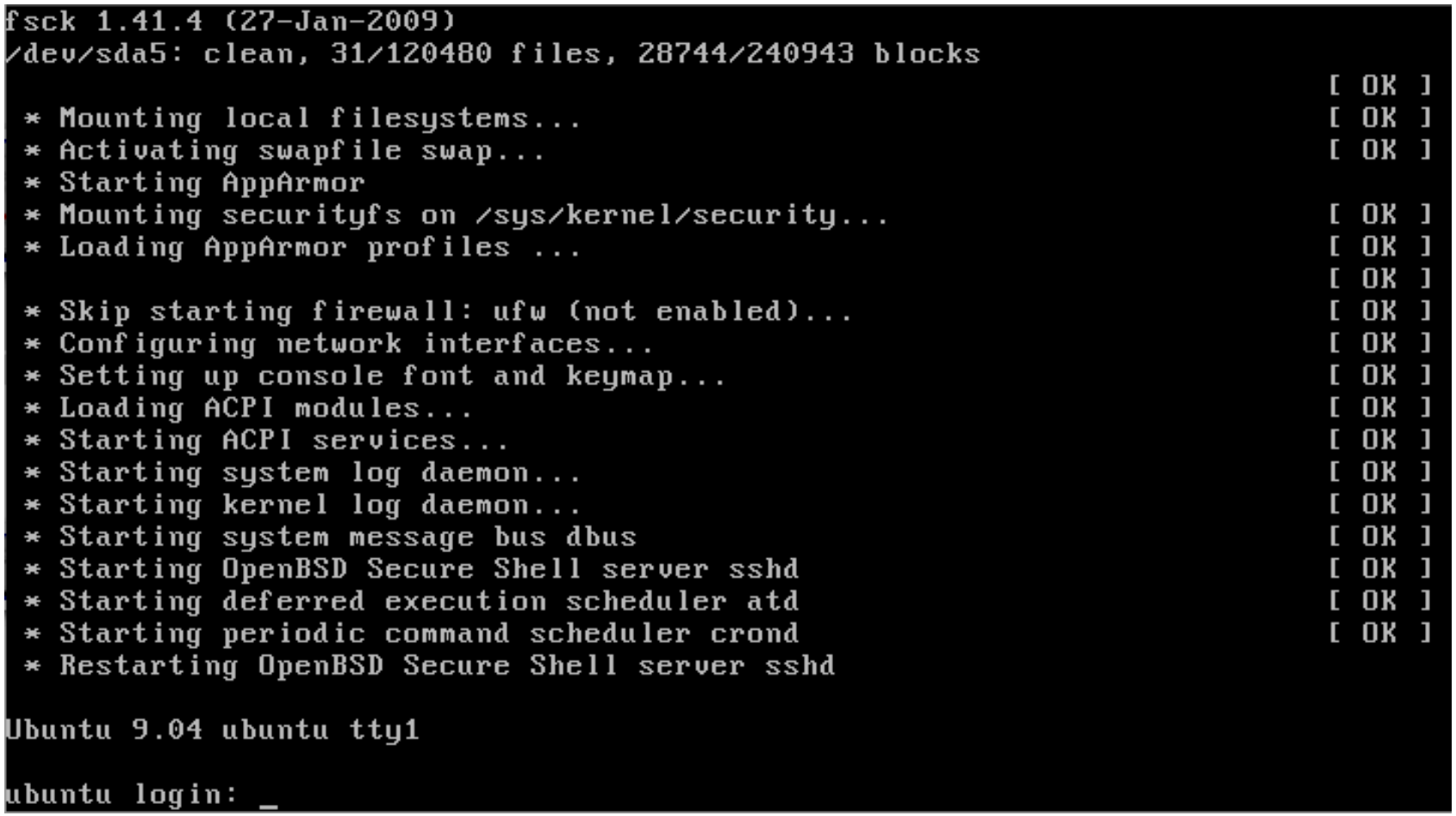
Congratulations. Ubuntu 9.04 is now installed

What Was Installed

1. A simple disk partition scheme:

2. Statically configured Network with:
   - IP address
   - Netmask
   - Network Gateway
   - Hostname
   - Domain Name
   - Name server
3. Initial user name, *inst* with password given in class.
4. OpenSSH Server and basic software.

Initial Ubuntu Boot



If you re-boot in to Ubuntu you should see something like this. If the prompt sticks at "***Restarting OpenBSD Secure Shell server sshd***" press <ENTER> to view the log in prompt.