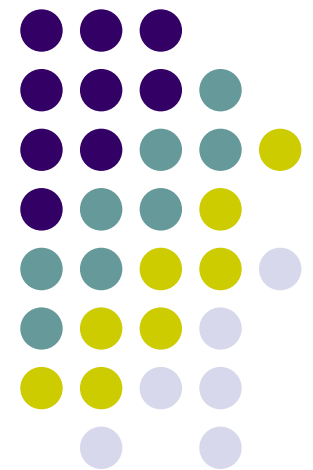


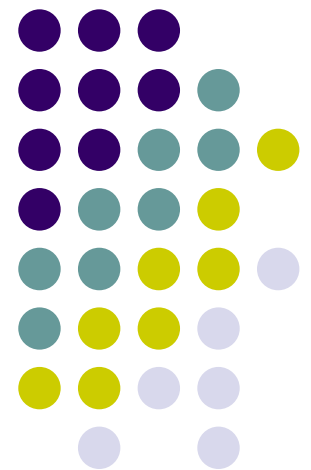
Ubuntu Installation and Networking with Windows

Ajit (Sabby) Sabnis
13 October 2008

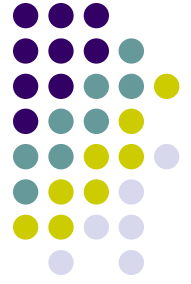


Windows based Ubuntu Installation (WUBI)

Purpose: Try UBUNTU from hard disk without permanently committing disk space to it



Windows Based Ubuntu

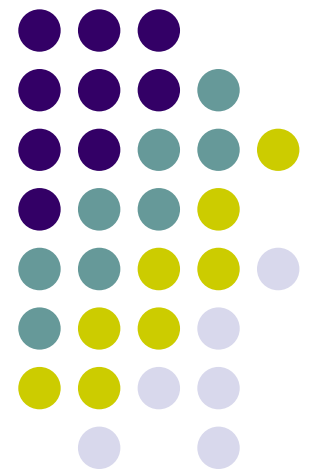


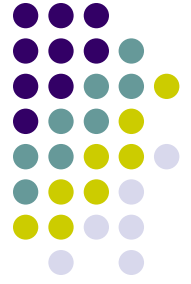
- Ubuntu 7.10 Gutsy Gibbon & Ubuntu 8.04 Hardy Heron have a Wubi (Windows-based Ubuntu Installer) included on the disk. You can install either of these operating systems as a Windows application, with the ability to uninstall later if desired in, hopefully, the same manner as any other Windows application
- If you don't have access to any of the disks, you can also do a long download from this site: [http:// wubi-installer.org/](http://wubi-installer.org/)
- An informative column on the subject is at: <http://chasblogspot.blogspot.com/2008/05/new-ubuntu-804-has-wubi-installer.html>
- Above link has an embedded link to a 4-min UTube video about the within-Windows installation process
- Suggest this kind of installation, on a separate computer, if possible, for first-time Ubuntu users. At boot-up, the default is Windows; you can select boot-up to Ubuntu instead.

Networking Ubuntu Linux and Windows

Purpose: Access files back and forth in a
Home network

- Wired and/or wireless
- Windows Vista and/or XP

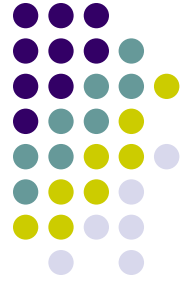




Home Network Structure

- Presumes: 1 or more computers running Ubuntu 8.04, with wired ethernet or wireless connection to 1 or more computers running Windows XP or VISTA, using a Router
- Make certain Firewall program on Windows computer is set so it won't block network file access

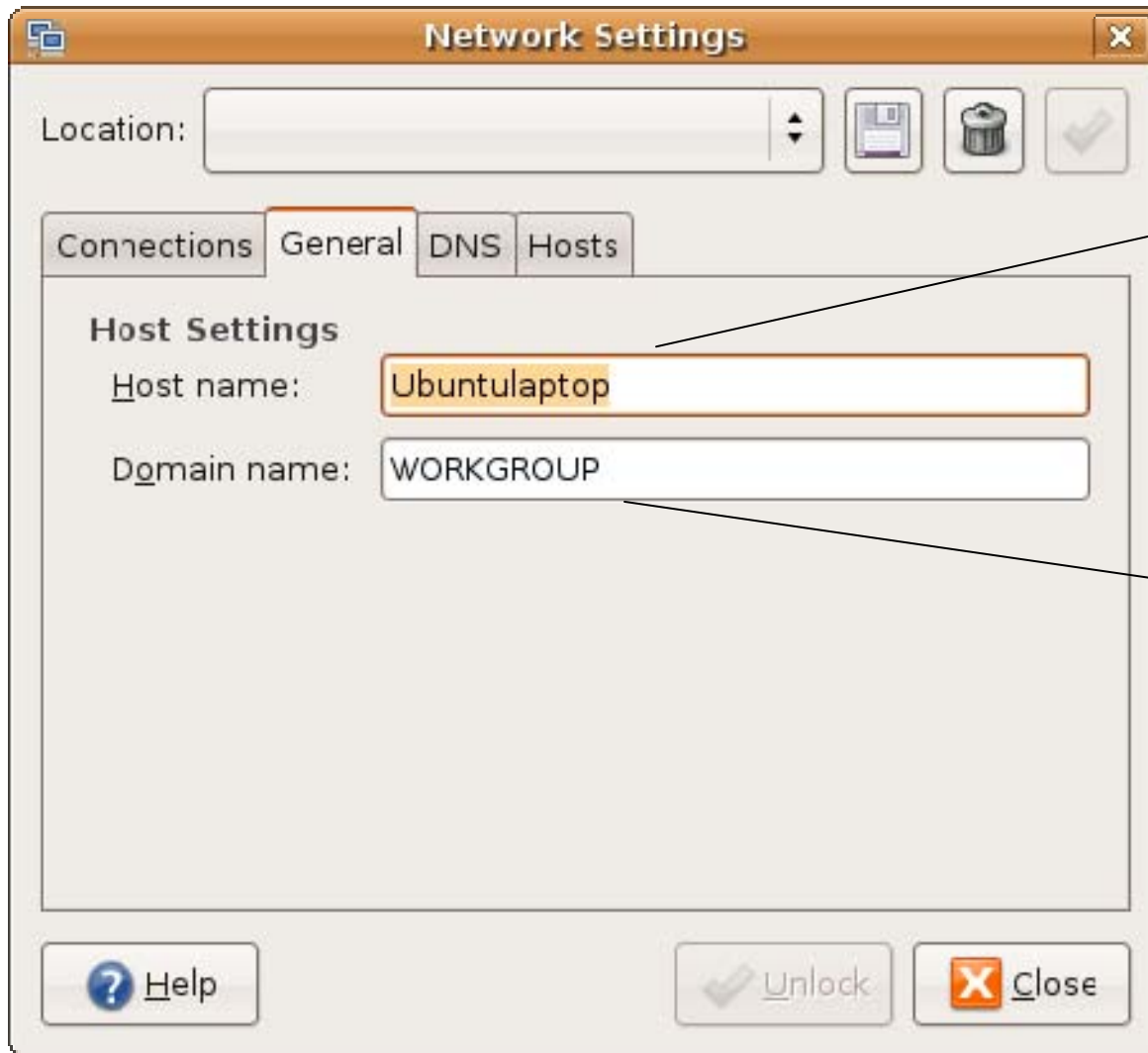
Ubuntu Computer Setup



Ubuntu Computer

- Applications>Add/Remove
- Search for “Samba”, install “Samba, create, modify and delete Samba shares”
- System>Administration>Network>General Tab type in Ubuntu computer name and Windows Workgroup name under “Domain” (I used WORKGROUP); under DNS Tab, click on Add, type your router’s address (e.g., 192.168.1.1), then hit enter
- System>Administration>Samba then Add Share. On the Basic Tab, browse to desired folder, choose a share name and make it writable and visible. On the Access Tab, select whether the folder is to be accessible to everyone or a specified user

Type in Computer name and Workgroup name



Computer name

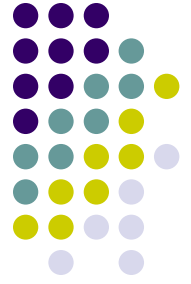
Workgroup name

Type in Search Domain



Added domain





Windows Computer Setup

Windows Computer (XP)

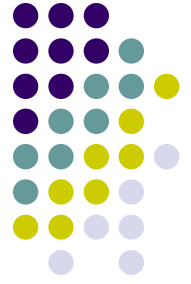
- In Windows Explorer, right click on the folder to be shared, click on Sharing and Security, check “Share this folder on the Network”, choose a share name and select whether it will be writable

Windows Computer (VISTA)

[http://technet.microsoft.com/en-us/library/bb727037\(printer\).aspx](http://technet.microsoft.com/en-us/library/bb727037(printer).aspx)

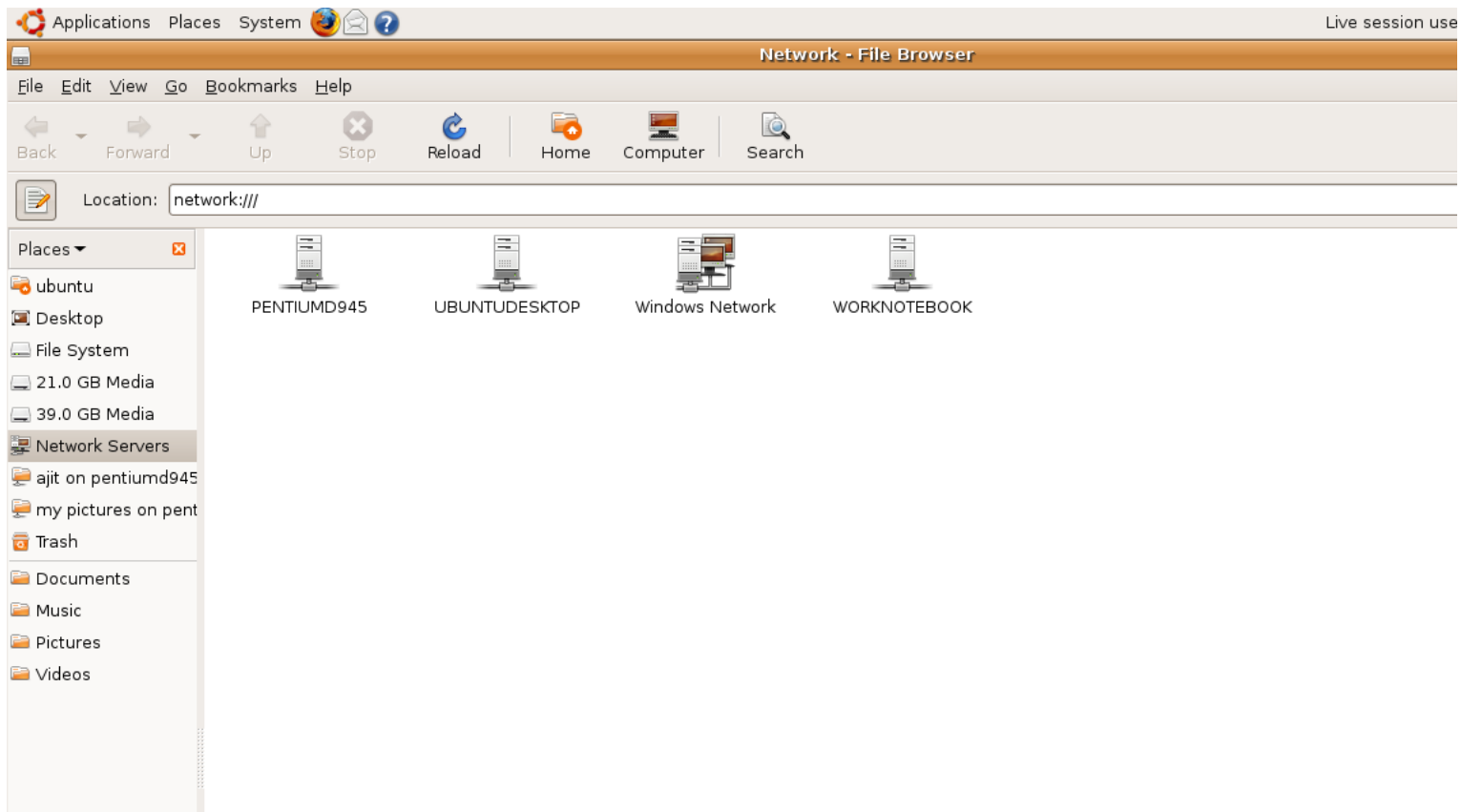
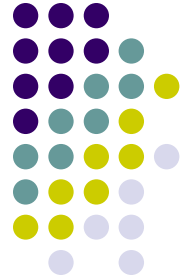
- Set the workgroup name (e.g., WORKGROUP)
- Set the network location type
 - Network > Network and Sharing Center, Customize, Set Network location – click Private
- Enable file sharing options
 - Follow specific instructions in link above

File Access from Ubuntu Computer

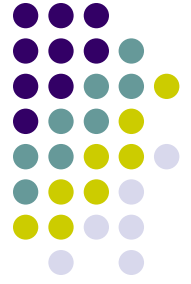


- Places>Network>Windows Network>WORKGROUP should bring up each Windows and Ubuntu computer within the workgroup
- Click on the appropriate computer, folder and file to access desired file
 - Create, view, edit and store Microsoft Office or other files using OpenOffice.org or other UBUNTU apps
 - Powerpoint <> Impress
 - Word <> Writer
 - Excel <> Calc
 - Photos <> Eye of Gnome
 - Etc.

Ubuntu View of Workgroup



File Access from Windows Computer



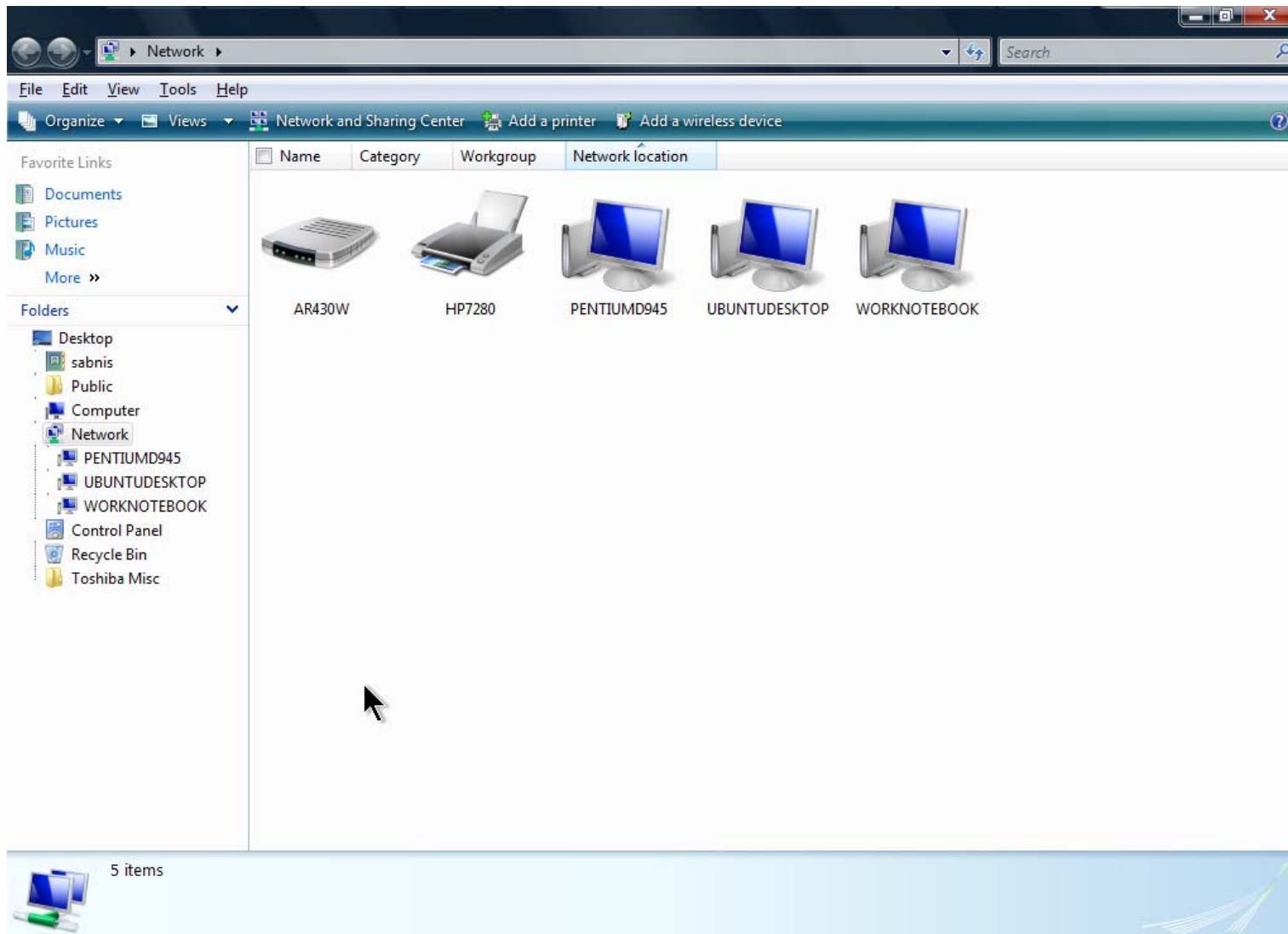
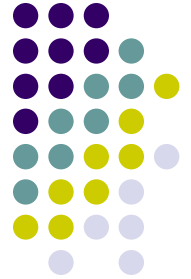
Windows Computer (XP)

- Start>My Network Places>View Workgroup Computers should bring up each Windows and Ubuntu computer within the workgroup
- Click on the appropriate computer, folder and file to access desired file

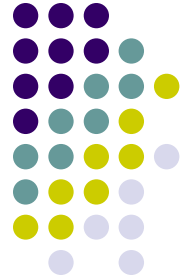
Windows Computer (VISTA)

- Start>Network should bring up each Windows and Ubuntu computer within the Workgroup
- Click on the appropriate computer, folder and file to access desired file

Windows VISTA View of Workgroup



Windows VISTA Network Map



The screenshot shows the Windows Vista Network Map interface. The window title is "Control Panel > Network Map". The address bar contains "Search". The menu bar includes "File", "Edit", "View", "Tools", and "Help".

On the left, a "Tasks" sidebar lists:

- View computers and devices
- Diagnose and repair
- Why are some computers and devices missing?

The main area displays a network map for "Wireless Network Connection - securenet". The map shows:

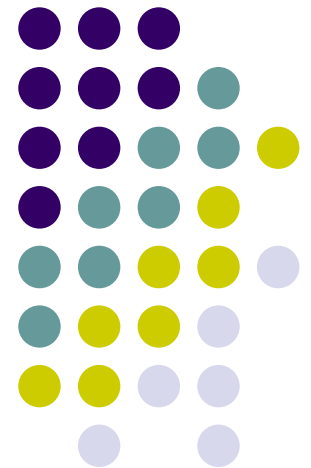
- Two computers: "WORKNOTEBOOK" and "PENTIUMD945", connected to each other and to a central router icon labeled "securenet".
- The "securenet" router is connected to an "Internet" icon (a globe).

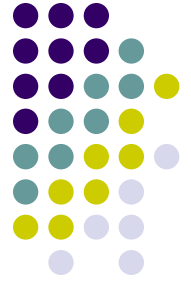
At the bottom, a message states: "The following discovered device(s) can not be placed in the map. [Click here to see all other devices.](#)" Below this message are two icons representing devices that cannot be placed in the map: "HP7280" (a printer) and "UBUNTUDESKTOP" (a computer monitor).

At the bottom left, there is a "See also" section with the link "Network and Sharing Center".

Enabling Wireless Connection in Ubuntu 8.04

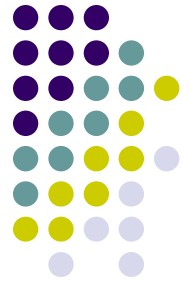
- Purpose: Convenient, wireless connectivity to
- Internet (at home or other location), or
 - Home network for file sharing





Wireless Cards and Ubuntu

- Some wireless cards (USB, PCI or PC) work “out-of-the box” – “native” drivers already exist in Ubuntu; see list at <http://linux-wless.passys.nl/>
- If not, a “wrapper” has to be put around a working Windows driver (suggestion: avoid!)
 - Download NDisWrapper
 - System>Administration>Windows Wireless Drivers
 - Use driver .inf file to enable wireless card



Summary

- With a little effort, and a few trials, you can network Windows XP, Windows VISTA and Ubuntu computers
- The rewards are definitely worth the effort: back-and-forth, easy access to files across a home network
- Enjoy!
(Note: This presentation was created in OpenOffice Impress and then edited in MS Powerpoint)