

Chapter 7

Accessing the Internet

We Shall be Covering ...

- Basic Internet concepts
- Internet configuration and set-up
 - dial-up connection
 - xDSL connection

The Internet

- Revolutionised information usage and dissemination
- Most common means of access is using a PC with appropriate software
- All modern PC operating platforms come with Internet connectivity options
- Sign-up with Internet Service Provider (ISP)
- Connect to ISP's network to gain access to the Internet; two main methods:
 - dial-up
 - xDSL (broadband connection)

Dial-up Access

- Uses plain old telephone system (POTS)
- Need to configure the modem
- Require
 - telephone number to dial
 - Internet account username and password
- Use Internet Configuration Wizard tool from the Main Menu, need to supply root password to continue
- Follow instructions on screen

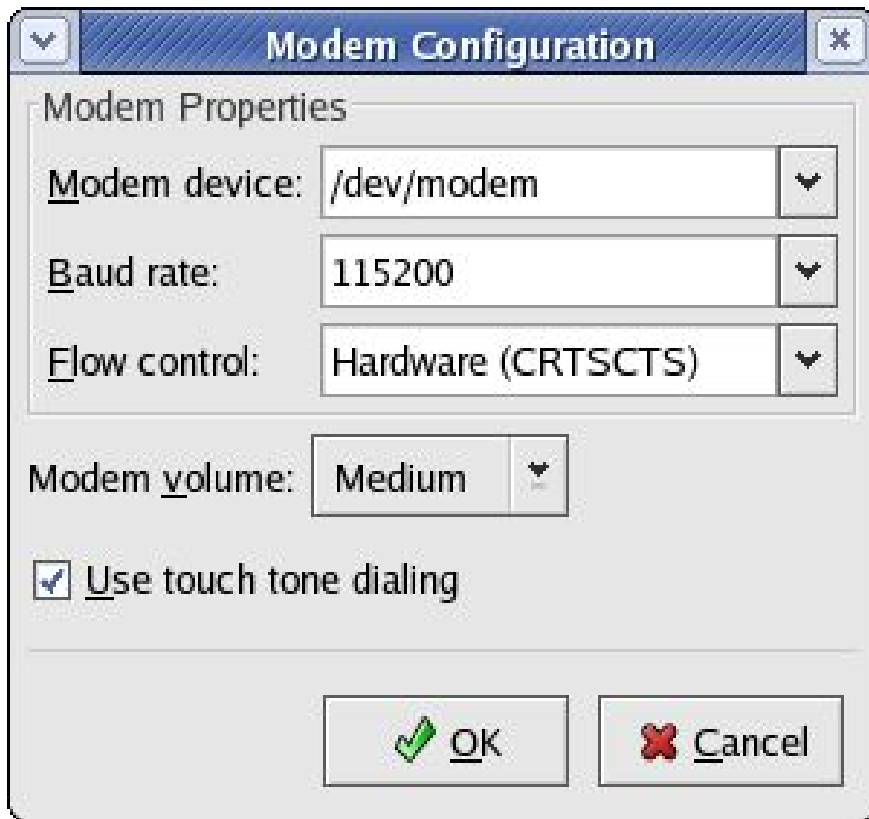
Internet Set-up Wizard

- Select modem connection



Internet Set-up Wizard

- If the system cannot detect the modem you will be prompted to enter the modem device name and related communication information. The parameters below may possibly be used.



Modem device: /dev/modem

Baud rate: 115200

Flow control: Hardware (CRTSCTS)

Modem volume: Medium

ISP Information

Enter

- the ISP dial-up telephone number
- provider name (nickname)
- Internet account login name and password

The screenshot shows a window titled "Add new Device Type" with a "Select Provider" header. On the left, a list of countries is shown under "Internet Provider": Austria (selected), Czech Republic, Germany, Slovenia, and United Kingdom. On the right, there are input fields for "Phone Number" (Prefix, Area code, Phone number: 1515), "Provider name: TMNet", a button for "I-Online Account Setup", "Login name: aalong", and "Password: *****". At the bottom are "Cancel", "Back", and "Forward" buttons.

IP Settings

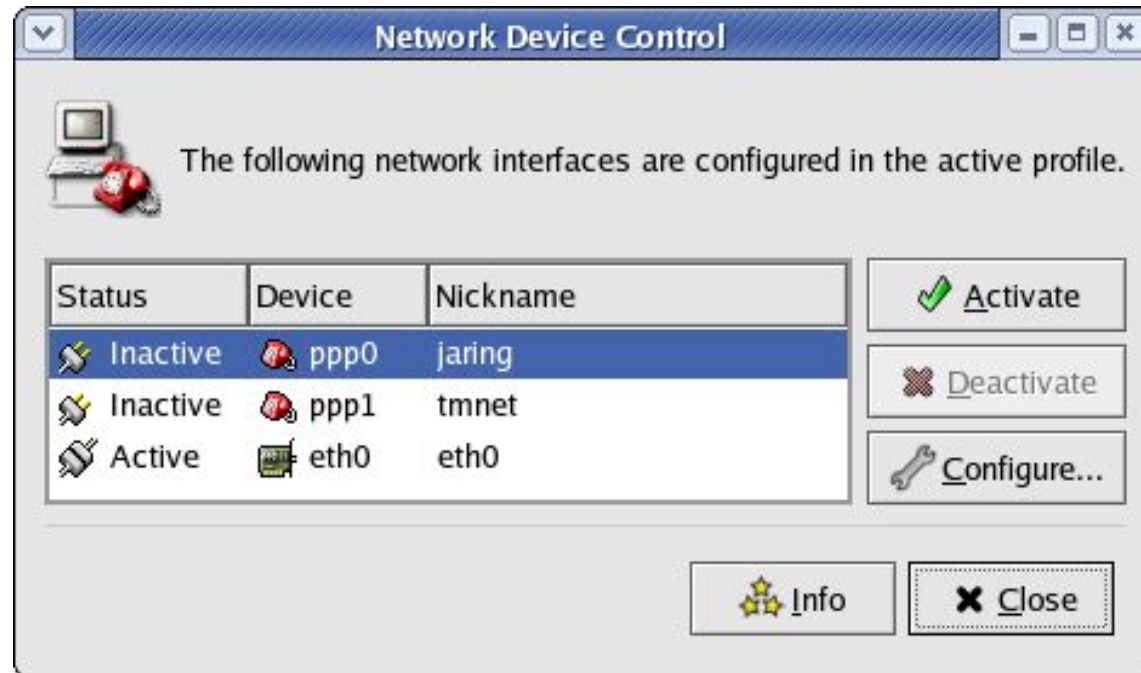
- Use automatic (default) if ISP assigns IP addresses automatically
- Use static if ISP assigns a fixed (specific) IP address to you

The screenshot shows a window titled "Add new Device Type" with a sub-header "IP Settings". The "Encapsulation mode" is set to "sync PPP". The "Automatically obtain IP address settings" option is selected. Under "PPP Settings", the checkbox "Automatically obtain DNS information from provider" is checked. The "Statically set IP addresses:" option is unselected. Under "Manual IP Address Settings", there are three input fields: "Address:", "Subnet mask:", and "Default gateway address:". At the bottom, there are three buttons: "Cancel", "Back", and "Forward".

Activate Modem

- Apply and accept the configuration set-up
- Activate modem using Network Device Control tool:

Main Menu --> System Tools --> Network Device Control



Activate Modem

- The modem will dial and connect to the ISP
- Check on connection e.g. access websites
- To disconnect use the Network Device Control tool again and select deactivate

xDSL Access

- xDSL access
 - xDSL covers ADSL, IDSL and SDSL
- Use Internet Configuration Wizard tool from the Main Menu
- Select xDSL
- Follow instructions on screen

Notes on xDSL Access

- Several possible ways to configure xDSL, depending on the way the ISP's network is set up
- Some DSL providers require you to obtain an IP address through DHCP using the Ethernet card. For this, select Ethernet Connection from the main Device Type screen, select DHCP from the subsequent Configure Network Settings screen.
- Some providers require you to configure a PPPoE connection with an Ethernet card. For this, select xDSL Connection from the main Device Type screen.
- If you need a username and password chances are that you are using PPPoE to connect.

xDSL Set-up



The screenshot shows a window titled "Add new Device Type" with a sub-header "Configure DSL connection". The window contains the following fields and buttons:

- Select the ethernet device for this account.**
Ethernet device: eth0 (RTL8139 Ethernet)
- Enter the provider name for this account.**
Provider name: streamyx
- I-Online Account Setup** (button)
- Enter the login name for this account.**
Login name: kgl
- Enter the password for this account.**
Password: *****
- Cancel** (button with red X icon)
- Back** (button with left arrow icon)
- Forward** (button with right arrow icon)

- Enter ISP name
- Supply login name and password

Activate xDSL Link

- Apply and accept the configuration set-up
- Activate xDSL connection using Network Device Control tool:
 - Main Menu --> System Tools --> Network Device Control
- The connection will be established immediately
- Check on connection e.g. access websites
- To disconnect use the Network Device Control tool again and select deactivate

End of Chapter 7