



Advantages of IHL



Based on Gnu/Linux FOSS

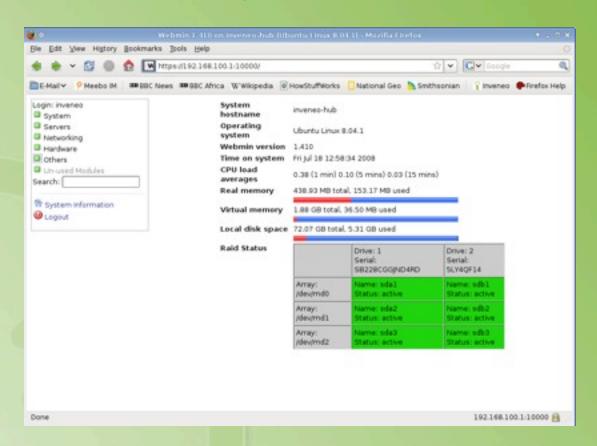
- No licensing fees or activation keys
- Almost no viruses or spyware

Tight integration with Inveneo Desktop Linux

- Automatic IDL discovery of IHL
- Smooth file sharing



Webmin



All of IHL's functions can be managed using the webmin, which is accessed via an Internet browser on a client machine.



IHL Functions

- File Sharing
 - Secure storage
 - Files available to all stations
- Dynamic Network Configuration (DHCP)
- Web Caching and Proxy
- Web Server
- VOIP
- Security (Firewall, NAT)
- RAID 1 mirroring
- Other Services (Database and Locally Stored Content)



Turning On and Off Services





Asterisk



Provides free phones calls among people using the same LAN.

A basic Asterisk system works as if all its phones were within one office building, but the offices can be many kilometers apart.



The basic asterisk configuration does NOT connect to the cellular network.



Network Management

Login: inveneo System Bootup and Shutdown Inveneo Asterisk Configuration Inveneo Network Management Inveneo Raid Notification Management Inveneo Share Management Inveneo Time Management Inveneo User Management Servers Networking Hardware Others Un-used Modules Search: System Information Logout	Module Index	Inveneo Network Management
	Hub Ho	ostname: Inveneo-hub
	CONNECTION	TO THE INTERNET
	● WAN Port connection to Internet	
	100	DHCP provides setup Static setup
		IP Address:
		Netmask:
		Gateway:
	○ Modem connection to Internet	
		Modern Device: /dev/modern
	р	Phone Number:
		Username:
		Password:
		Baud Rafe: 115200
		idle (secs): 600
		Init String 1:
		Init String 2:
	O LAN Port con	nnection to Internet
		Gateway:
	External DNS S	erver(s):
	CONNECTION TO LOCAL AREA NETWORK	
		on LAN: 192.168.100.1
	Hub is a DHCP server	
	Address range: 100 to 200	
	○ Hub is not serving DHCP	
	(Apply Changes	



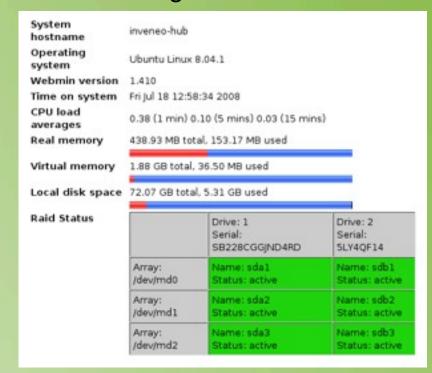
Mirror RAID

IHL uses RAID 1, which means that the server's 2 hard drives store identical information. Each hard drive is a mirror images of the other.

RAID 1 provides data redundancy. If one hard drive fails, the other hard drive will take over. Thus, the user does not lose their files or functionality of the server.

A repair technician can later replace the failed drive, and the system will automatically re-copy data from the working drive.

The webmin home page shows RAID array status.





Share and User Management



Share is another name for folder.





Similar to file sharing on Windows, IHL offers shared or private file storage.

Adding users in IHL is not the same as creating users in Windows, who can log directly into the server. In IHL, users merely own shares. The user who owns the share determines which users can access information in the share.





Time



IHL acts as a NTP time server, so that IDL clients can automatically display the time set in IHL. *Note: IDL does set its own time zone, so IHL and IDL must be set to the same time zone.*



The time management console in IHL webmin





IHL can share a USB printer with clients on the network. The printer is first installed on the server, then client machines install the network printer. Any client machine, even if it is not in the same building as the server, will be able to print to the shared printer.



Adding Content

When an Internet connection is slow or there is no Internet connection, content can be stored on the server.





Schools and community centers can benefit greatly from having locally stored content, like Wikipedia.



Exercise

- 1. Set time and time zone
- 2. Set static IP on WAN
- 3. Install printer
- 4. Create users and shares