DIY HOME NETWORK

PROJECT OVERVIEW:
DIY Home Network establishes a fully-functional network for a new home. A spare PC serves as a Smoothwall Express 3.0 firewall/router, a custom built PC utilizes FreeNAS for centralized home storage, and a Raspberry Pi is used as an XBMC media server with OpenELEC. Additionally, the project provides for secure wireless networking.

KEY ASSUMPTIONS:
- User has an ISP with a modem
- User has a spare PC or can build one
- User’s hardware is compatible with software
- User can supplement existing knowledge and find solutions to problems through research

FUTURE EXTENSIONS:
- Provide for solely Gigabit connections
- Replace desktop switches with Cisco - add VLANs
- Add more Raspberry Pi’s - network printing services, VPNs when away, retro arcade, Pandora jukebox

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