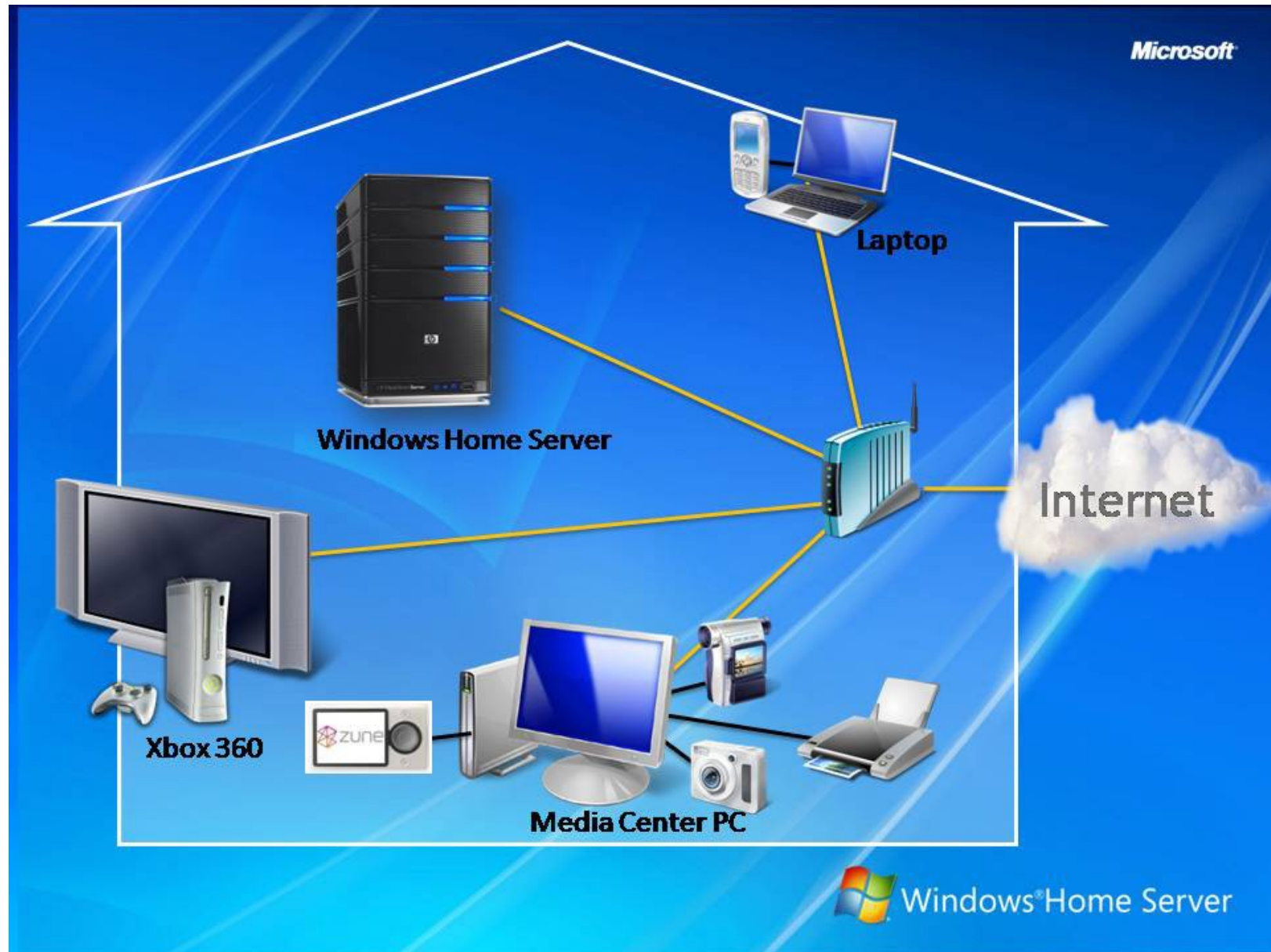


# Setting Up a Home Server



# Why?

- Access files from anywhere
  - Similar to Dropbox but with more space for less
- Keep all media and backups in one place

# Use an Old Computer



<http://lifehacker.com/5919558/turn-an-old-computer-into-a-networked-backup-streaming-or-torrenting-machine-with-ubuntu>

# Setup

- Install Ubuntu
  - Small and free. Only takes up ~5GB of hard disk space
  - Easy to install. Burn to cd, insert and boot.
- Static IP or DHCP Reservation
- Port Forward
- You will need a monitor during setup but not after that

# Setting Up a Static IP

\$ nano /etc/network/interfaces

\*\* DHCP Reservations use  
MAC address and are  
configured using the router  
settings.

home-server: ~

GNU nano 2.2.6

```
auto lo
iface lo inet loopback

auto eth0
iface eth0 inet static
address 192.168.1.178
netmask 255.255.255.0
gateway 192.168.1.1
dns-nameservers 8.8.8.8 192.168.1.1
```

# Port Forwarding

- SSH uses port 22

LINKSYS<sup>®</sup> by Cisco

Firmware Version: v1.02.8

Applications & Gaming

Wireless-G Broadband Router WRT54G

Setup

Wireless

Security

Access Restrictions

Applications & Gaming

Administration

Status

Port Range Forward

Port Triggering

DMZ

QoS

Port Range Forward

Port Range						
Application	Start		End	Protocol	IP Address	Enable
Server	22	to	22	Both	192.168.1.116	<input checked="" type="checkbox"/>
	0	to	0	Both	192.168.1.0	<input type="checkbox"/>
	0	to	0	Both	192.168.1.0	<input type="checkbox"/>
	0	to	0	Both	192.168.1.0	<input type="checkbox"/>
	0	to	0	Both	192.168.1.0	<input type="checkbox"/>
	0	to	0	Both	192.168.1.0	<input type="checkbox"/>
	0	to	0	Both	192.168.1.0	<input type="checkbox"/>
	0	to	0	Both	192.168.1.0	<input type="checkbox"/>
	0	to	0	Both	192.168.1.0	<input type="checkbox"/>
	0	to	0	Both	192.168.1.0	<input type="checkbox"/>

Save Settings

Cancel Changes

Port Range Forwarding:

Certain applications may require to open specific ports in order for it to function correctly. Examples of these applications include servers and certain online games. When a request for a certain port comes in from the Internet, the router will route the data to the computer you specify. Due to security concerns, you may want to limit port forwarding to only those ports you are using, and uncheck the **Enable** checkbox after you are finished. [More...](#)

CISCO

# Accessing Your Home Server

- Share folders
  - Allows for LAN access
  - Just as easy on Ubuntu as it is on Windows
- Get public IP
  - What is my ip?
- SSH
  - Terminal (linux)
    - scp
  - Putty, WinSCP (windows)
- Demo

# Now What?

- Connect devices for streaming
  - HackMii (Wii)
  - ES File Explorer (Android)
  - FileBrowser (iOS)
  - Other computers, Xbox 360, PS3, connect automatically
- Host Websites
  - FTP
  - Apache2