<https://www.youtube.com/watch?v=TWDUIypHq5o&feature=youtu.be>

The Internet and How it Works

Mri2nJOY

The dawn of the Net.

Click a link = starts a flow of information. IP packages, labels it, and sends it on its way.

Divide the information and how to label it.

Senders address, receiver address, type of package it is.

Gets an address for the proxy server.

Launched onto your local area network. This is used to connect local computers together. LAN is uncontrolled and accidents like collisions can happen.

Router reads address, and if necessary pushes it to another network. Systematic, methodical, conservative, and can be a bit slow – but is accurate.

Once packets leave router – they head to corporate network and goes to the router switch. Digital pinball wizard.

Once packets arrive at destination they go to the proxy. Proxy used to lessen load on their LAN and for security.

Depending on content the packets vary in size.

Proxy opens packet and searched for URL. If ok – sent to the Internet.  
On the road again…

Firewall – 2 purposes

Prevents nasty from coming into Internet.  
 Prevents sensitive corporation from going to the Internet.

Put on the road of the Internet. If a packet is lost in due time, IP sends a replacement packet.

Ready to enter the world of the Internet. Various routers and switches exist. Plenty of space, opportunities. New ideas push envelope of their possibilities. Ping of Death – somebody created to mess up the Internet.

Data eventually will get there. Sometimes world wide wait. By the time a hat hits the ground, a packet could circle globe five times.

Once close to its destination – it goes to the firewall again. Must meet criteria – 80 and 25 are the only ports open in this example.

25 – mail packets  
80 – web server

Once inside they are screened a bit more. Ping of death packet would get crushed.

If a packet makes it this far, it is almost complete. Puts in line up on the web server to be delivered.

Each package, one by one, is received, opened, and unpacked. – sent to the web server or application.

Packet is then recycled and ready to be used again.