HTTP

- What is this?
- What is it for?
- Web clients?
- Web Servers?
- Default port?
- What layer of OSI model?

HTTP Transmission

- Client makes request to server
 - o http://host:port/path/to/document
 - What are the different parts above?
- Server responds with requested file if it has it.

Virtual Hosts (Server)

- Find matching host in list of enabled virtual hosts
 - o if no match, serve default page
- What document root do I look in?
- Find requested file in the document root.
- If file exists, return it, otherwise err.

Apache2 Installation Steps

- apt-get install apache2
- configure virtual hosts
- create document root
- · add new names for sites to dns with CNAME records
- enable site with a2ensite
- restart apache

My HTTP example

Server: www.thegummibear.com/144.38.199.165

Virtual Host	Document Root
squishy.thegummibear.com	/var/www/html/squishy.thegummibear.com
iateat.thegummibear.com	/var/www/html/iateat.thegummibear.com
www.thegummibear.com	/var/www/html/www.thegummibear.com

HTTP Troubleshooting

- Did you:
 - enable site
 - o restart/reload apache
 - o configure document root
 - check log files /var/log/apache2
 - check for typos
 - o add your DNS records
 - dig