HTTP

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
  - `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
  - 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
  - restart/reload apache
  - configure document root
  - check log files `/var/log/apache2`
  - check for typos
  - add your DNS records
  - dig