

- 1) When we hit "https://www.techtonicgroup.com", what happens?
 - a) Information travels between a client(web browser) and a server in order for your browser to have something to display. The end result being a webpage displayed on your screen.
- 2) From start to finish, how does the data reach you to be rendered in the browser?
 - a) First, a request is made from the client (my web browser), using the HTTP protocol to the techtonic server (server hosting the techtonic website), and it asks for the webpage in question. The server then looks for and retrieves the html file that makes up the webpage asked for as the client waits. Then the server sends the html file to the client (my web browser), which then renders it and displays the webpage on my screen.
 - b) The URL is translated into an IP address using the DNS >> using the protocol specified communicated with the server and sends a GET request >> returns result of request to the client >> browser interprets HTML data.
- 3) What code is rendered in the browser
 - a) The HTML document your browser has received from the server, it has to be interpreted by your browser to display properly. It may or may not utilize other files which contain different kinds of code however (Ex: CSS, JS, etc.)
- 4) What is the server-side code's main function?
 - a) The server-side code's main function is to store and deliver data.
- 5) What is the client-side code's main function?
 - a) The client-side code's main function is to retrieve data.
- 6) How many instances of the client-side assets (HTML, CSS, JS, Images, et.) are created?
 - a) Only one instance per each request. The files are not saved locally to your computer automatically, they are displayed for you to view temporarily as you navigate the site.
- 7) How many instances of the server-side code are available at any given time?
 - a) Again I believe one per request, so multiple requests can have multiple instances running. Whatever code is available in the server at the time of the request.
- 8) What is runtime?
 - a) A system that controls the order/sequence that operations are performed in.
- 9) How many instances of the databases connected to the server application are created;
 - a) One connection at a time from my understanding.