



Node | Internet and HTTP

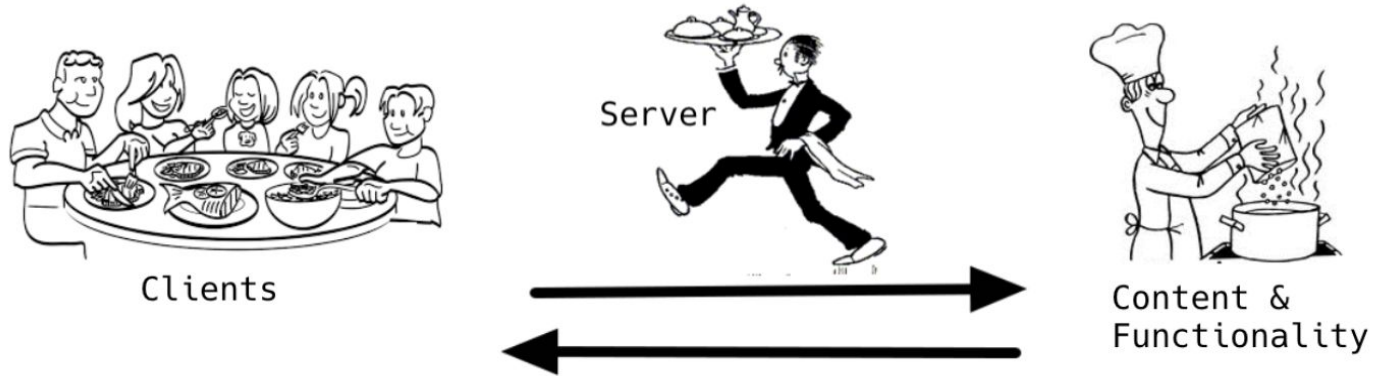
- What is the internet?
- Understand Client - Server - Architecture
- Understand the basics of the request - response - cycle
- Understand the basics of HTTP
- Understand what DNS means
- Build your first own server with Node's http module 🚀



Internet

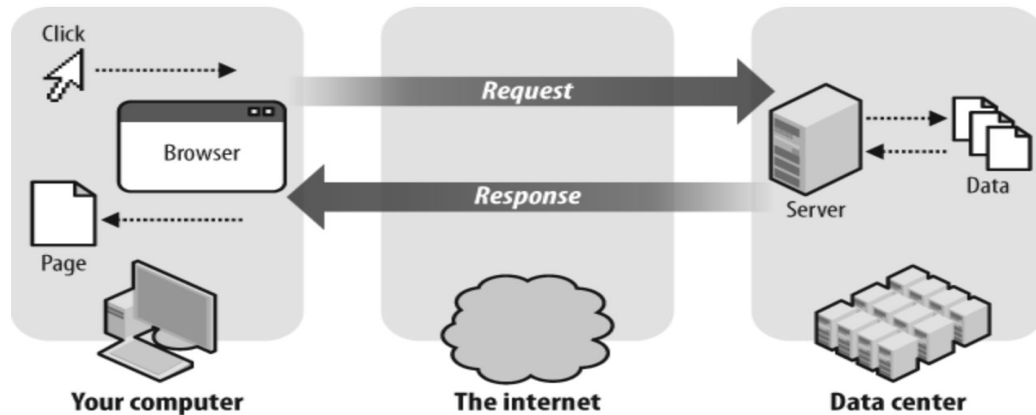
- Internet vs WWW
- 1969 US Department of Defense vs 1989 CERN Tim Berners Lee
- 'Interconnected Network' - global system of connected computer networks
- Distributed network
- No central authority

Client - Server



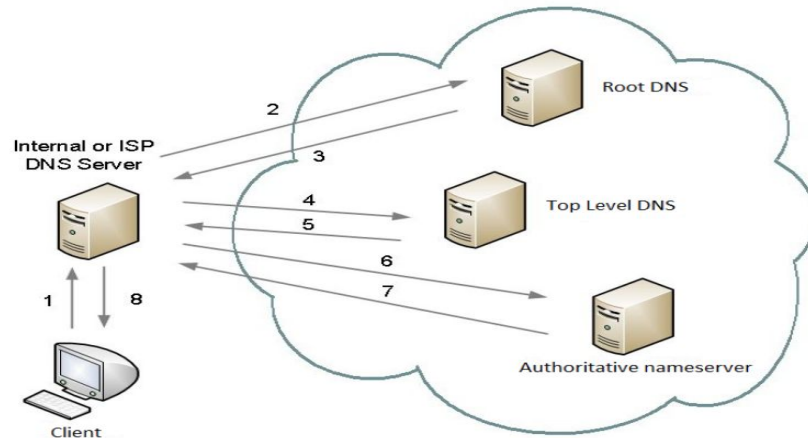
- All devices connected to the internet are either clients or servers
- Client can mean physical device or software
- Clients request services and functions that the servers provide
- Server can also be a client to another server

Request - Response



- Message exchange pattern
- One of the most basic methods of communication between computers
- First computer requests some data, second computer responds with that data
- To display a webpage often multiple requests to the server get executed

DNS



- Domain Name System
- Hierarchical decentralized naming system for computers, devices and other services connected to the internet
- Computer services and devices are identified via ip addresses
- Domain names have to be translated to ip addresses
- google.com => <http://66.102.1.102/>




HTTP

- Hypertext Transfer Protocol
- Set of rules making the communication between servers and clients reliable
- Foundation of data communication for the World Wide Web
- Stateless but not sessionless



The Backend

- Client and Server software is also called frontend and backend
- In module 1 the whole application code was running in the browser 
- What do i need a backend for 🤖 ???