# W8D3 - How Internet works

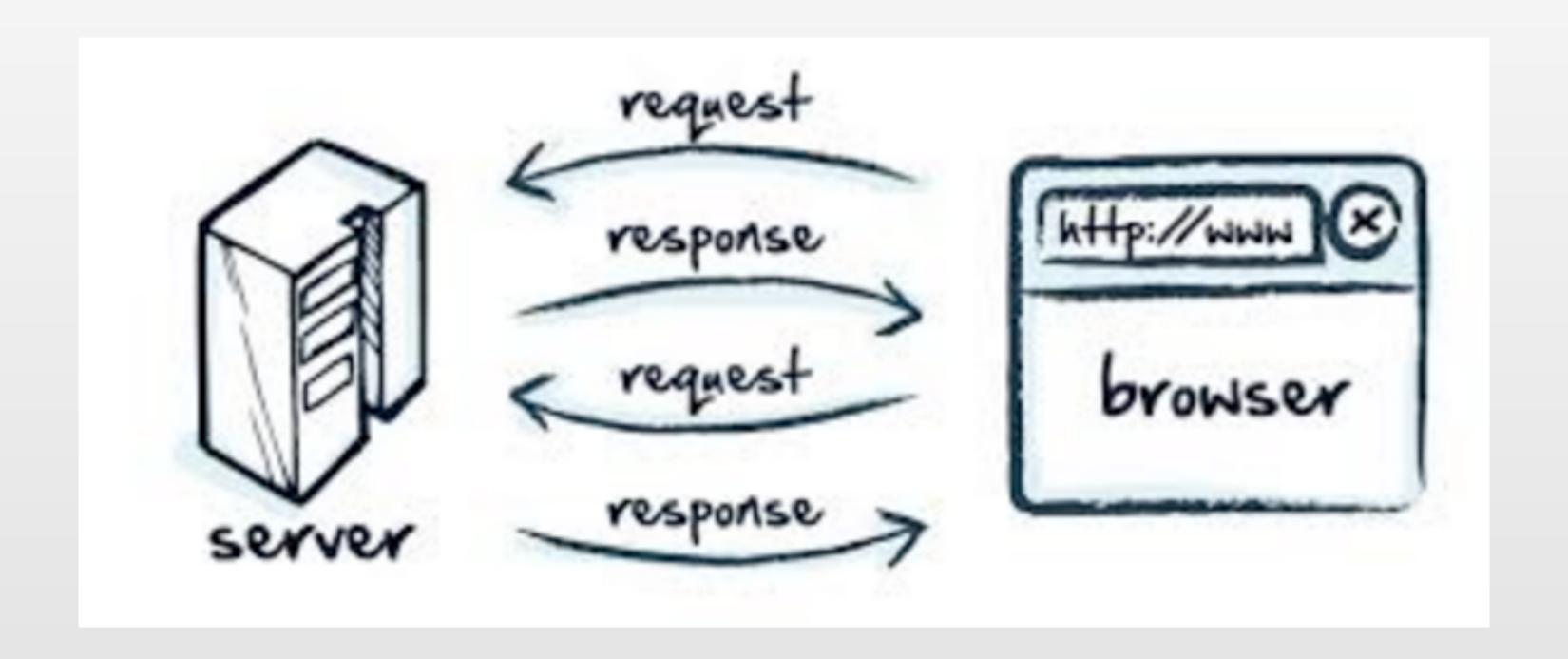


### Elements of a URL





## How internet works





### HTTP

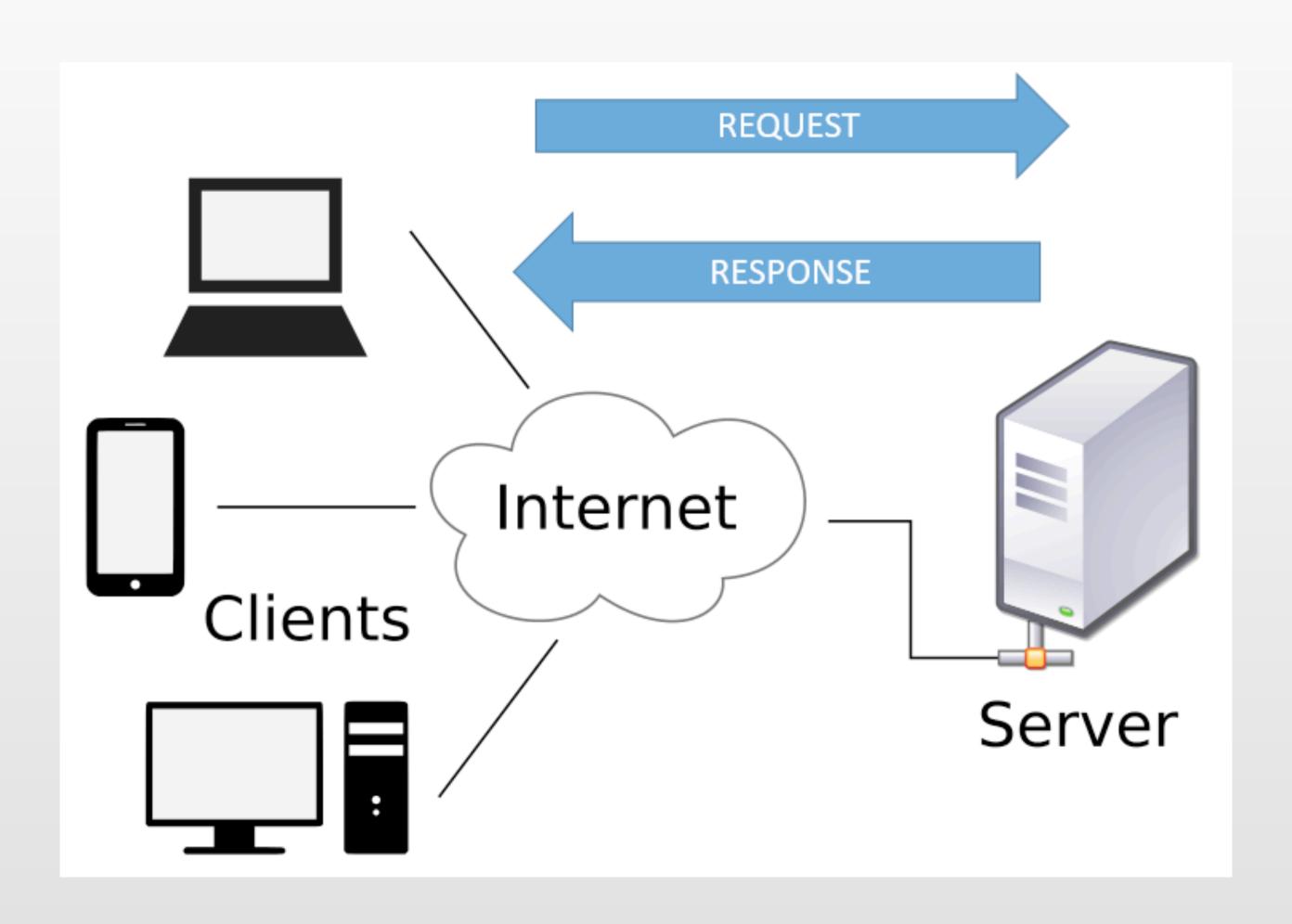
Hyper Text Transfer Protocol.

A protocol is a set of rules between clients and servers.

This protocol requests the 'HTML' document from the server and serves it to the browser. **HTTP is how computers on the Internet communicate.** 



# How internet works





How internet works South Atlantic South Pacific Ocean

> **IRON** HACK

#### HTTP

URLs reveal the identity of the particular host with which we want to communicate.

**GET** Fetch a resource

POST Create a new resource. Carry a payload

PUT Update an existing resource

**DELETE** Delete an existing resource.



# HTTP Responses

- 2XX Success
- 3XX Redirect, temporary or permanent.
- **4XX** Client error. Request denied from the server for some reason.
- **5XX** Server error. Request cannot be processed for some problem on the server side.



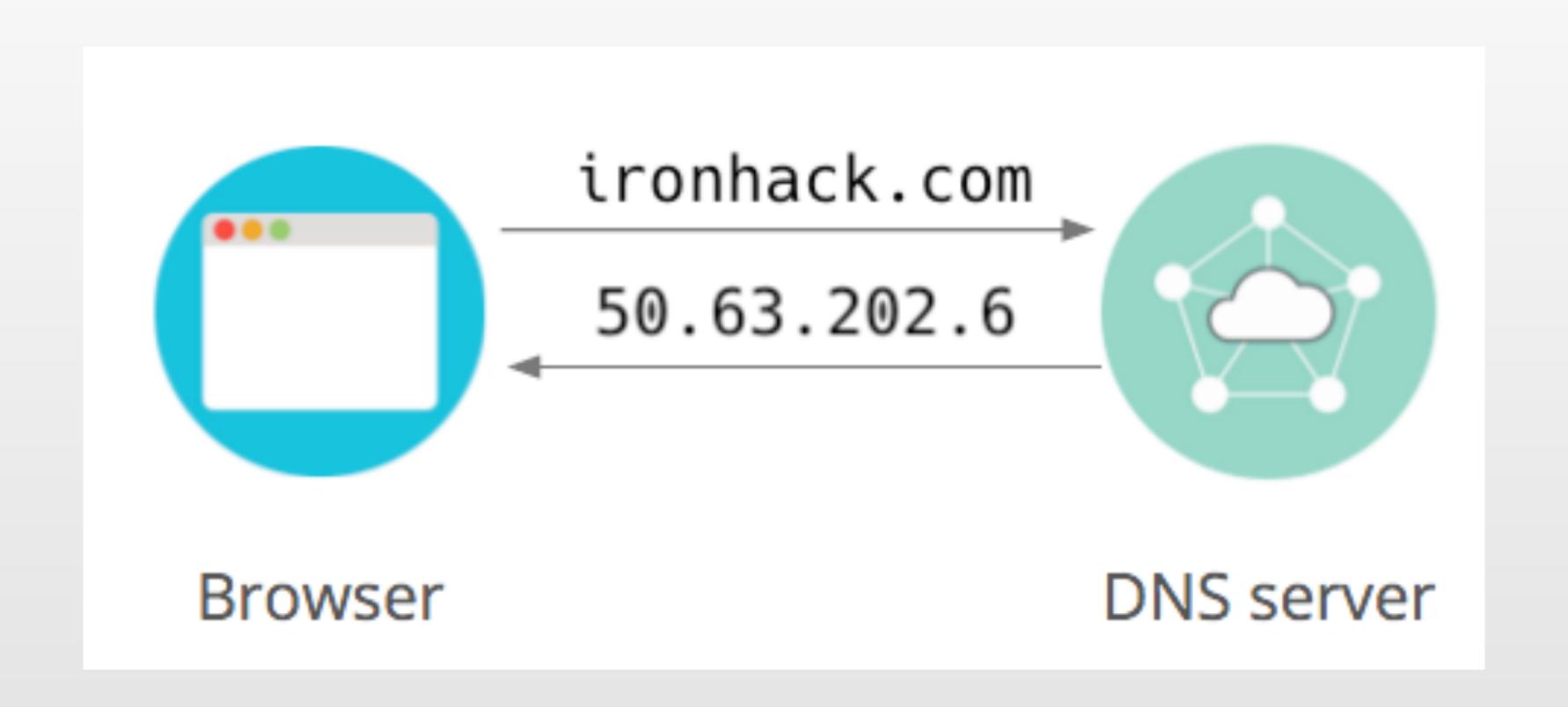
## DNS

**DNS: Domain Name Servers** 

**DNS** translate human-readable domain names (like **google.com**) into machine-readable IP addresses (like **172.217.0.0**).



## Domains and IP Records



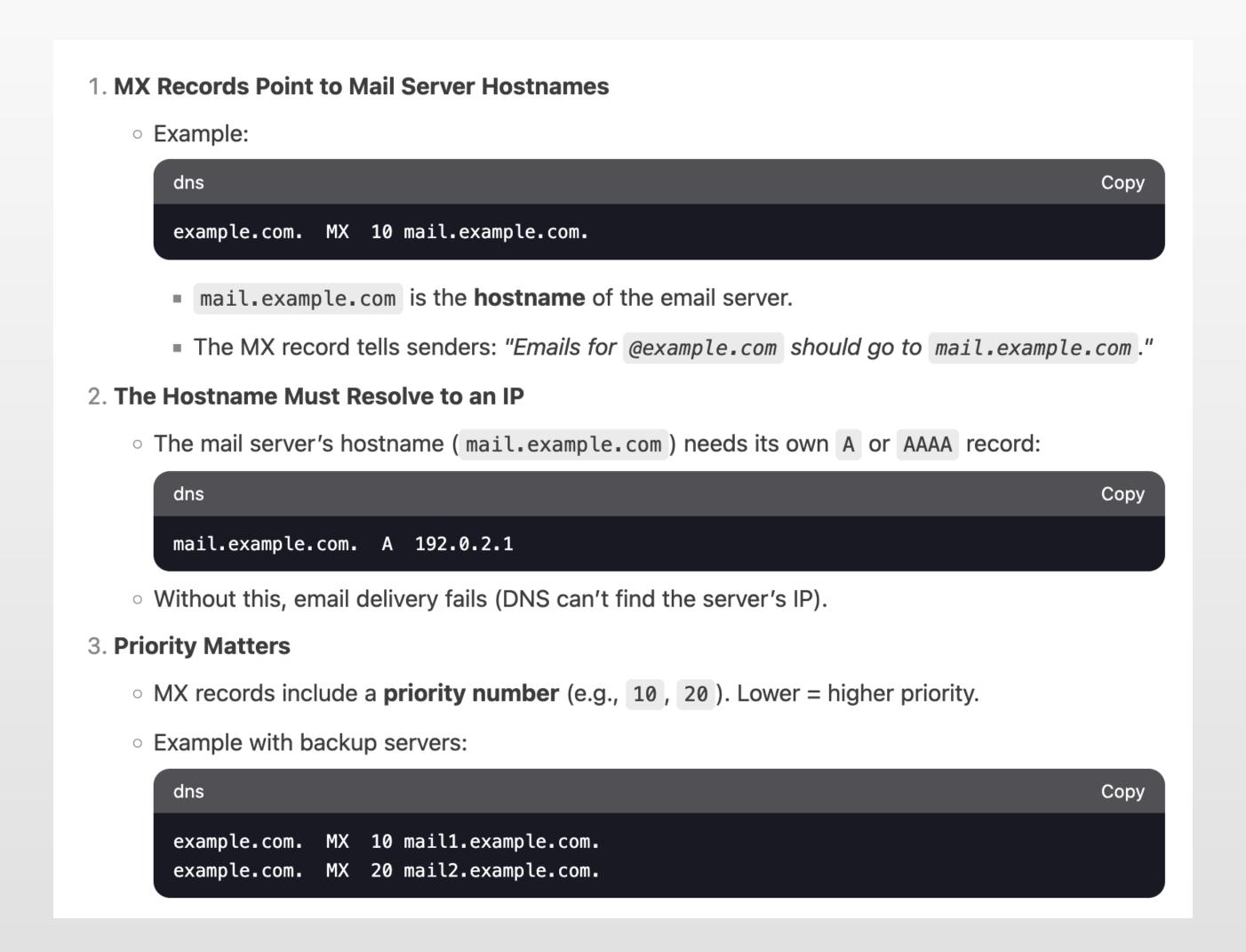


# Bonus: Domain Records

DNS Record	Description
А	Maps domain names to IPv4 addresses
AAAA	Maps domain names to IPv6 addresses
CNAME	Redirects a domain to a different domain
PTR	Resolves IPv4 or IPv6 addresses to domain names
NS	Provides a list of the authoritative name servers responsible for the domain
MX	Provides the domain names of mail servers that receive emails on behalf of a domain
SOA	Provides important details about a DNS zone; required for every DNS zone
TXT	Provides any type of descriptive information in text format



### **Bonus: Other Records**





"As a full-stack developer, your work can include building websites from scratch, setting up domains, configuring emails—code, servers, DNS"

