# HTTP

## ➔ WHAT IS HTTP

- **Hyper Text Transfer Protocol**
- Communication between web servers & Clients
- HTTP Requests /Responses
- Loading pages, from submit, Ajax calls

## ➔ HTTP IS STATELESS

- Every Request is completely **independent**
- Similar to transactions
- Programming, Local Storage, Cookies, Sessions are used to create enhanced user experiences.

## ➔ WHAT IS HTTPS

- Hyper Text Transfer Protocol Secure
- Data sent is encrypted
- SSL / TLS
- Install certificate on web host

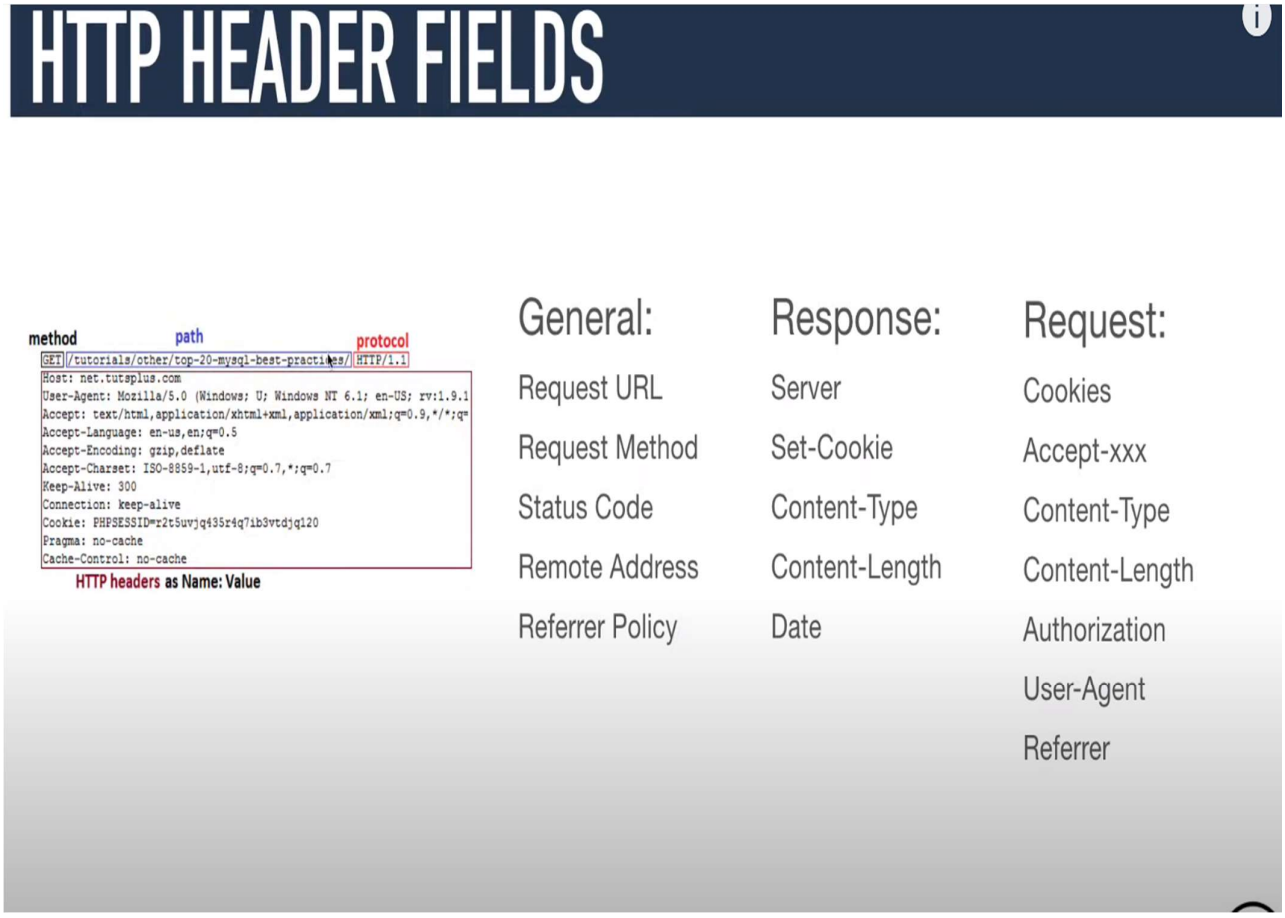
## ➔ HTTP METHODS

- **GET**
  Retrieves data from the server

- **POST**
  Submit data to the server

- **PUT**
  Update data already on the Server

- **DELETE**
  Deletes data from the server



# HTTP STATUS CODES

**1xx : Informational**

Request recieved / processing

**2xx: Success**

Successfully Recieved, understood and accepted

**3xx: Redirect**

Further action must be taken / redirect

**4xx: Client Error**

Request does not have what it needs

**5xx: Server Error**

Server failed to fulfil an apparent valid request

*200 - OK*

*201 - OK created*

*301 - Moved to new URL*

*304 - Not modified (Cached version)*

*400 - Bad request*

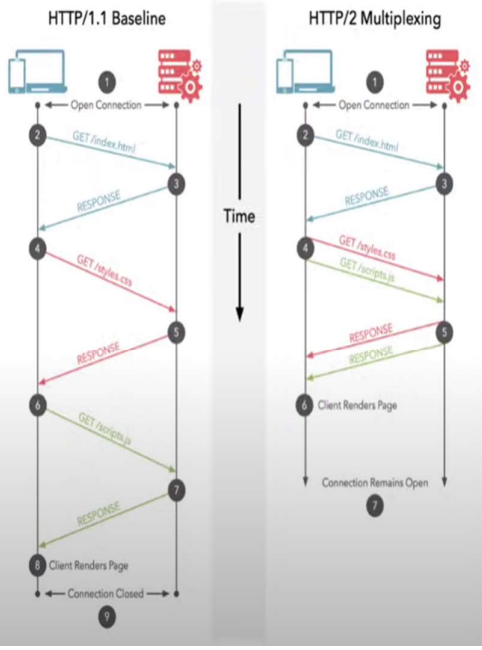
*401 - Unauthorized*

*404 - Not found*

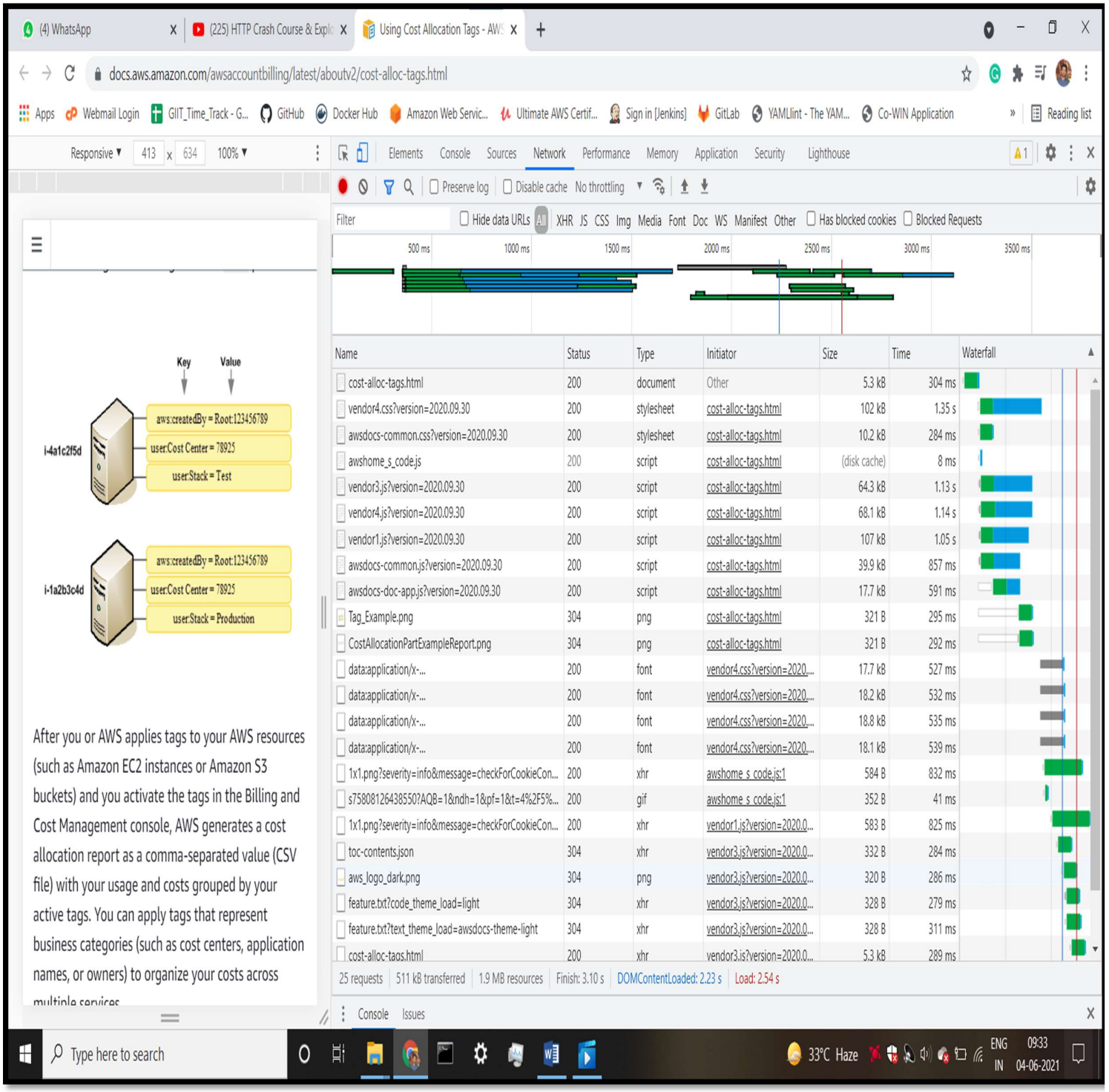
*500 - Internal server error*

# HTTP/2

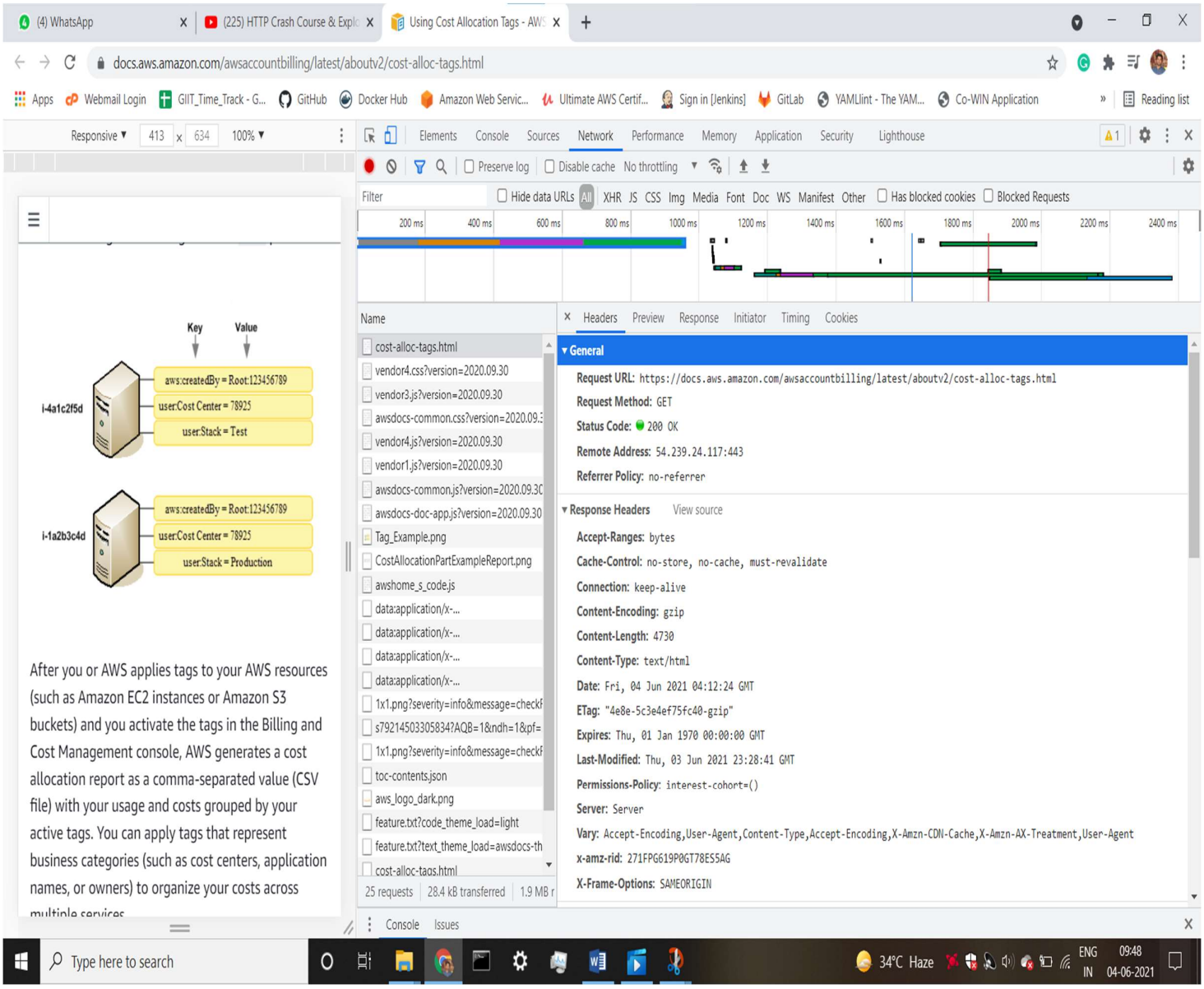
- Major revision of HTTP
- Under the hood changes
- Respond with more data
- Reduce latency by enabling full request and response multiplexing
- Fast, efficient & secure



➔ Here we see all types of document file, CSS file, html file script file if we want to check it then we have a option to open all this file.



➔ If we want to check header response we have a option to check all the things here.



➔ Install postman and create new workspace