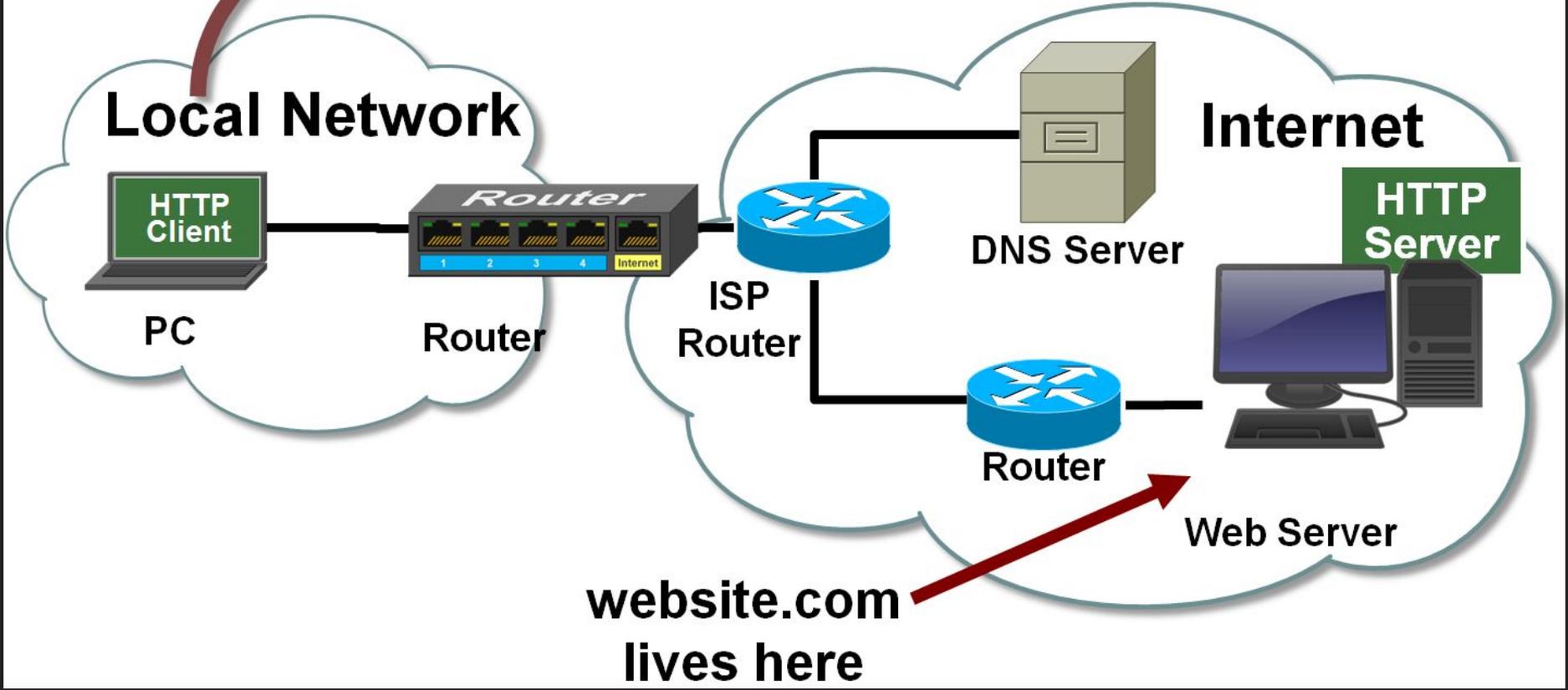




# Fundamentals

# Protocolo HTTP

O protocolo HTTP (HyperText Transfer Protocol), RFC 2616, se destina a transferir solicitações e arquivos pela Internet (ou Intranet), independente de plataforma ou tecnologia.



**Local Network**

**Internet**



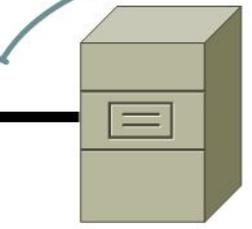
PC



Router



ISP Router



DNS Server



Router



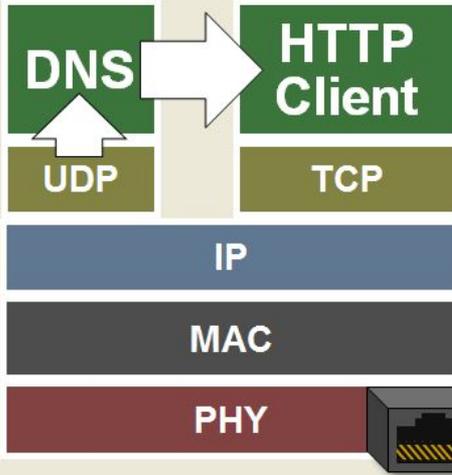
Web Server



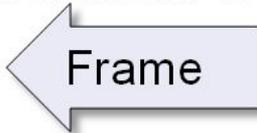
HTTP Server

website.com  
lives here

PC



Src MAC = 33:12:14:F1:C8:12  
Dst MAC = 00:12:F1:1E:E8:93  
Src IP = 75.75.75.75  
Dst IP = 192.168.1.101  
Src port = 53 (DNS server)  
Dst port = 54847  
message = website.com is 130.27.45.69



192.168.1.101

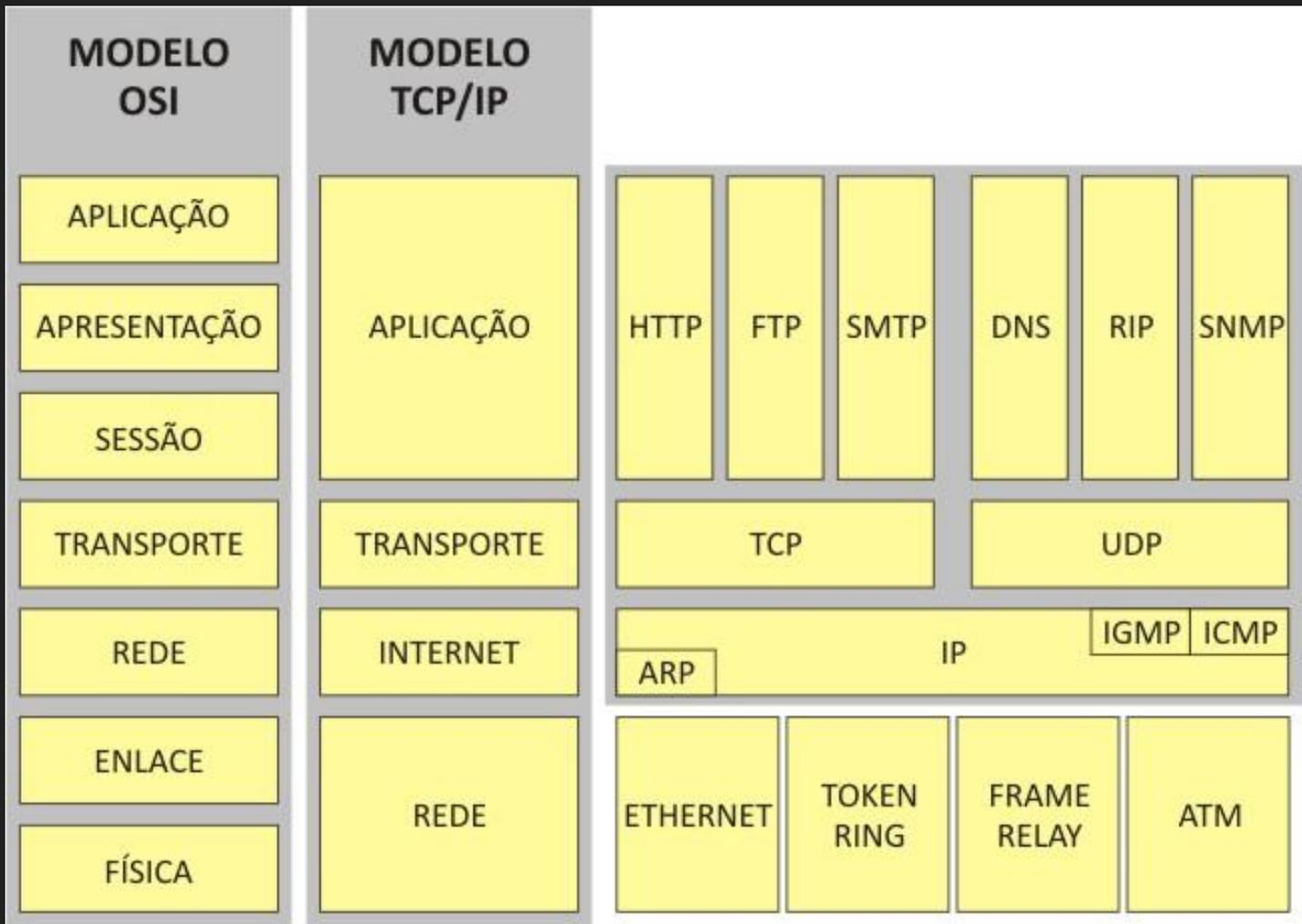
192.168.1.1

00:12:F1:1E:E8:93

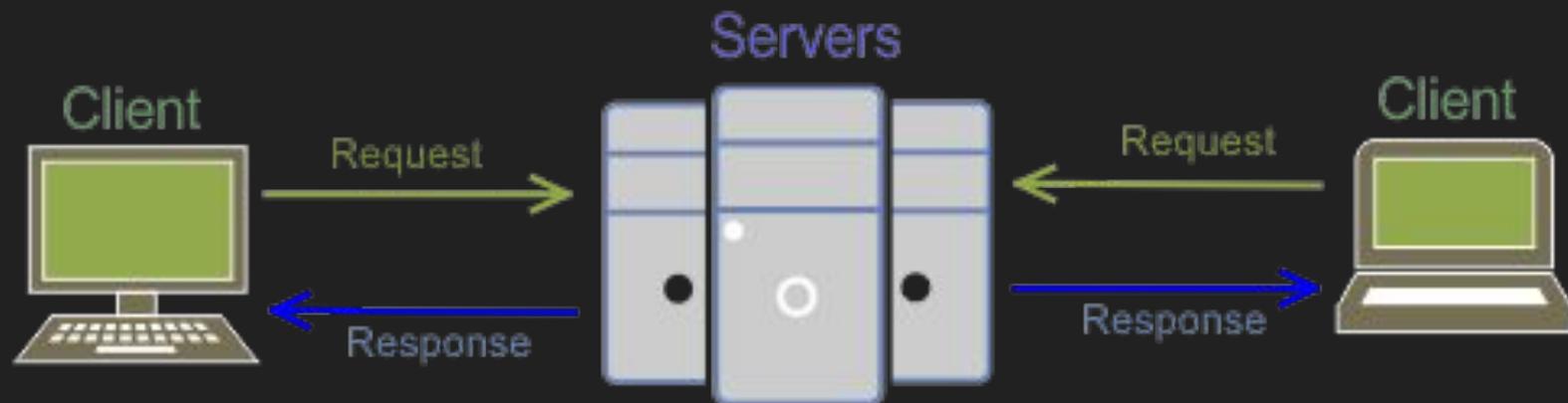
33:12:14:F1:C8:12

Router





## Client Server Architecture



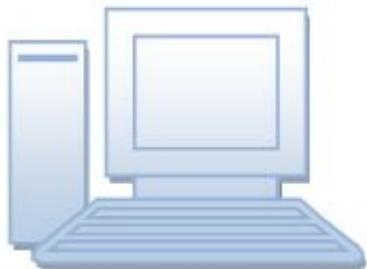
*The Client makes request for service to server.*

*The Server responds to that request.*



# HTTP Request and Response

- (1) User issues URL from a browser  
<http://host:port/path/file>



- (5) Browser formats the response and displays

**Client** (Browser)

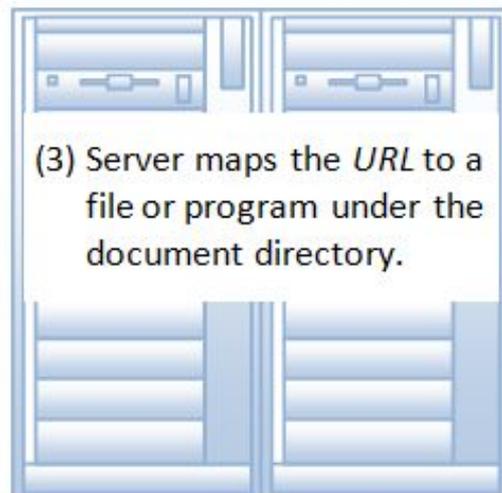
- (2) Browser sends a request message

```
GET URL HTTP/1.1  
Host: host:port  
.....  
.....
```

- (4) Server returns a response message

```
HTTP/1.1 200 OK  
.....  
.....  
.....
```

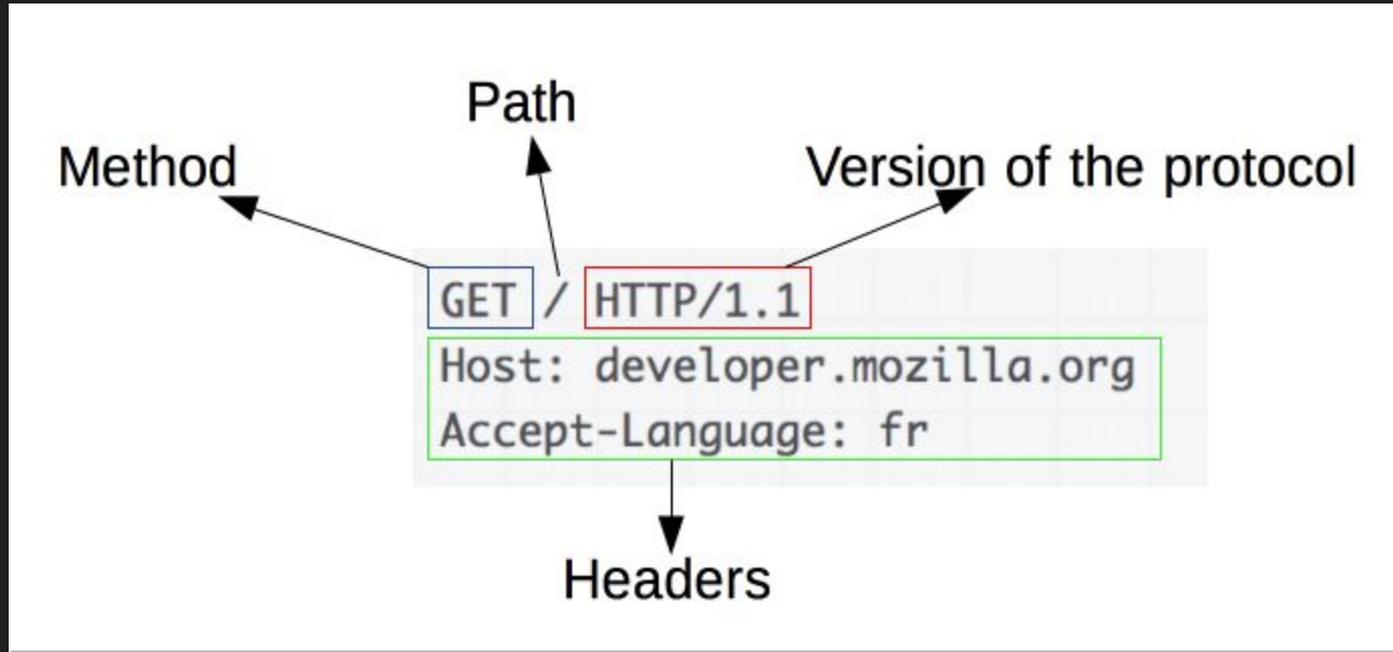
**HTTP** (Over TCP/IP)



- (3) Server maps the *URL* to a file or program under the document directory.

**Server** (@ [host:port](#))

# HTTP Request and Response



# HTTP VS HTTPS





COOKIES

# Cookies

Um cookie HTTP (um cookie web ou cookie de browser) é um pequeno fragmento de dados que um servidor envia para o navegador do usuário. O navegador pode então armazenar estes dados e enviá-los de volta com a próxima requisição para o mesmo servidor. Normalmente é utilizado para identificar se duas requisições vieram do mesmo navegador – ao manter um usuário logado, por exemplo. Ele guarda informações dinâmicas para o protocolo HTTP sem estado.

# Qual o propósito?

- Gerenciamento de Sessão
- Personalização
- Rastreamento

# Criando cookies

Set-Cookie:

<cookie-name>=<cookie-value>

# Criando cookies

HTTP/1.0 200 OK

Content-type: text/html

Set-Cookie: yummy\_cookie=choco

Set-Cookie: tasty\_cookie=strawberry

[conteúdo da página]

# Criando cookies

```
GET /sample_page.html HTTP/1.1
```

```
Host: www.example.org
```

```
Cookie: yummy_cookie=choco;  
tasty_cookie=strawberry
```

# Thank you!



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