1. What are the few HTTP methods?

Ans:

GET

The HTTP GET method is used to *read* (or retrieve) a representation of a resource

POST

The HTTP POST method is used to *create new* resource

PUT

It is used to modify the resource. In PUT request contains complete resource

PATCH  
PATCH is used to *modify* resources. The PATCH request only needs to contain the changes to the resource, not the complete resource

DELETE

It is used to Delete a resource

2. What are the few HTTP responses?

Ans:

[Informational responses](https://developer.mozilla.org/en-US/docs/Web/HTTP/Status#information_responses) (100–199)

[Successful responses](https://developer.mozilla.org/en-US/docs/Web/HTTP/Status#successful_responses) (200–299)

[Redirection messages](https://developer.mozilla.org/en-US/docs/Web/HTTP/Status#redirection_messages) (300–399)

[Client error responses](https://developer.mozilla.org/en-US/docs/Web/HTTP/Status#client_error_responses) (400–499)

[Server error responses](https://developer.mozilla.org/en-US/docs/Web/HTTP/Status#server_error_responses) (500–599)

200 -> Ok-> Request was successful.

201 -> Created-> Request got created.

204 -> No content -> Request was successful. No content returned in response body.

301 -> Moved permanently -> Resource moved permanently. New URI shared in response.

400 -> Bad request -> Data sent by client as part of the request had some issues.

401 -> Unauthorized -> Authorization failure, server cannot identify the user.

403 -> Forbidden -> Authorization failure

404 -> Not found -> Request resource could not be found.

429 -> Too many requests -> Client sending requests at a faster rate than allowed by the server

500 -> Internal Server Error -> Unexpected errors on server while processing the request

503 -> Service Unavailable -> Temporary issue because of which server cannot process the request.

504 -> Gateway Timeout

3. What is reverse proxy?

Ans:

Proxy is going to work on behalf of server where server is anonymous.

4. What is forward proxy?

Ans:

Proxy is going to work on behalf of client where client is anonymous

5. What are the differences between Proxies and VPN?

Ans:

|  |  |  |
| --- | --- | --- |
| S.NO | VPN | Proxy |
| 1. | VPN ensures encryption, authentication and integrity protection. | Proxy does not ensure or provide any security. |
| 2. | Protocols used in VPN are PTTP (Point to point tunnelling protocol), L2TP (Layer 2 tunnelling protocol) etc. | Protocols used in Proxy are FTP (File transfer protocol), SMTP (Simple mail transfer protocol) HTTP (Hyper Text Transfer Protocol) etc. |
| 3. | VPN works on firewall. | Proxy works on browsers. |
| 4. | VPN stands for Virtual Private Network. It simulates a private network over public network. | It does not simulate a private network over public network. |
| 5. | VPN does not hide the IP address of client. | Proxy uses the anonymous network ID instead of actual IP address of client (means it hides the IP address of client). |
| 6. | VPN creates tunnel between end users. | But proxy does not create tunnel between end users. |
| 7. | VPN offers high amount of security. | Proxy does not offer any type of security. |