Webserv

▼ Documentation config file

- configuration file <u>parameters</u>
    - nginx configuration file

        Understanding NGINX Configuration File - JournalDev

        It's very important to understand the structure of the NGINX configuration file to get the best performance from your server. Further, by applying directives on right context in a NGINX configuration will enable you to eliminate repetitive codes and manage your infrastructure

        https://www.journaldev.com/26618/nginx-configuration-file

    - host
    - <u>port</u>
    - <u>root</u>
    - <u>server name</u>
    - <u>error page</u>

        creating your own error page

    - <u>client body buffer size</u>

        Sets buffer size for reading client request body

    - cgi param

        <u>CGI environment variables</u>

    - cgi pass
    - <u>location</u>
        - Nginx key-word "location" // config file.

- allowed methods

- index

- auto index

- alias

  Defines a replacement for the specified location. For example, with the following configuration

  ```
  location /i/ {
      alias /data/w3/images/;
  }
  ```

  on request of "/i/top.gif", the file /data/w3/images/top.gif will be sent (with "/data/w3/images/" replacing "/i/"

- alias set

▼ server creation

- server initialization

  multi client socket programming

poll

▼ Request and response format

Request

GET (full)

POST (full)

chunked body

unchunked body

Response

    status codes

▼ CGI

    ▼ scripting

        ▼ perl CGI scripting

           1. introduction to perl CGI scripting and query handling

           2. uploading files using a perl script as a CGI

           3. difference between GET and POST when it comes to CGI interaction

    python CGI scripting

    ▼ script invocation

> Th~~is~~e script is invoked in a system defined manner. Unless specified otherwise, this will be by treating the file containing the script as an executable program, and running it as a child process of the server.

    ▼ CGI meta-variables

- `CONTENT_LENGTH` (MUST)
- `CONTENT_TYPE` (MUST)
- `GATEWAY_INTERFACE` (MUST)
- `HTTP_*` (MUST except some headers)
- `PATH_INFO` (SHOULD)
- `PATH_TRANSLATED` (SHOULD)
- `QUERY_STRING` (MUST)
- `REMOTE_ADDR` (SHOULD)
- `REMOTE_HOST` (SHOULD)

- `REMOTE_IDENT` (SHOULD)

- `REMOTE_USER` (MUST)

- `REQUEST_METHOD` (MUST)

- `SCRIPT_NAME` (MUST)

- `SERVER_NAME` (MUST)

- `SERVER_PORT` (MUST)

- `SERVER_PROTOCOL` (MUST)

- `SERVER_SOFTWARE` (MUST)