# Cli

# Chaos Master

# Chaos DB

* mongoDB
  + done :
    - script that initiates all collections with validation schemas and examples.
    - Image that runs the script as it is deployed.
  + To do :
    - Add “wait\_time” property to servers validation schema.
    - Save files using GridFS.
* Chaos db rest api
  + done :
    - Add GET/POST request routes for servers/groups.
    - Add GET/POST request routes for probes/methods/rollbacks.
    - Add POST request routes for logs.
    - Create container Running the api.
  + To do :
    - Add access token validation.
    - Add python libraries to api container image

# Chaos Injector

* Chaos Master
* Chaos Injector salve
  + Chaos injector slave
    - done :
      * get dns and fault name from a post request to the api.
      * Get server information and fault information from the db api.
      * Create executable file for each script on the fly while running the fault.
      * Delete each file after execution.
      * Run probes run by one and get binary response if the probes passed
      * If probes passed run methods one by one while collecting logs that they return.
      * Get wait time from each method and sum it up.
      * Wait the summed method wait time.
      * Run probes again to see if victim server self-healed.
      * If the victim server self-healed return the logs if not run rollbacks.
      * Wait expected wait time for rollbacks and run probes again.
      * Send all logs to the db rest api to be stored.
  + Chaos injector slave rest api
    - done:
      * add POST request route for injecting fault which receives a dns and a fault name.
      * add function which calls the initiate\_fault function of the injector object.
    - To do :
      * Add access token compatibility.

# random\_picker