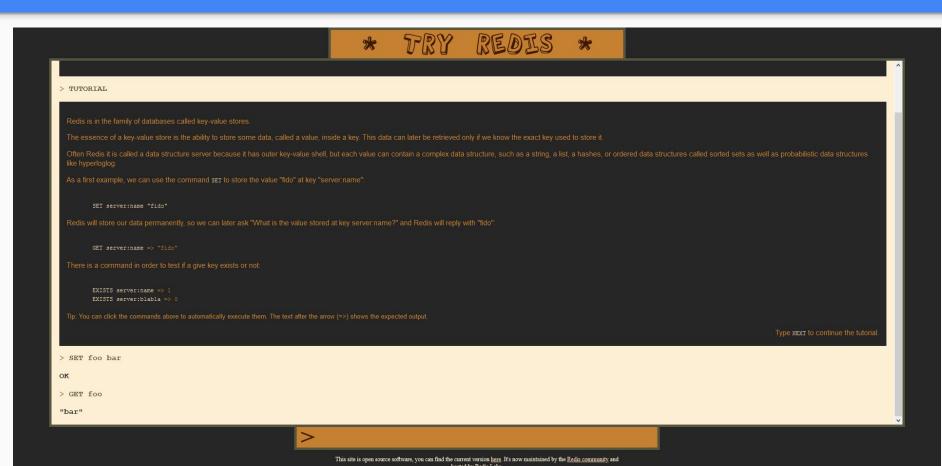
Computer System & Network Administration

Lab07. Web Application

We want to create something a little bit like Redis



Lab Requirements

- You need to create a simple Web Application
- No front-end is required, just need to make sure Web API works
- Listen on port 80 in your VM, no SSL required
 - You can listen 0.0.0.0, but we will use 127.0.0.1 to judge the application

Lab Requirements (cont.)

- POST /set/<KEY>
 - POST body: value=<VALUE> (use application/x-www-form-urlencoded)
 - No other parameters
 - If successful, return string "OK"
 - If key exists, overwrite existing value with new value
- GET /get/<KEY>
 - No other parameters
 - Should return value for this key
 - If no key entry, return string "key not found!"
- Key/Value may include some special characters(using urlencode)

Lab Requirements (cont.)

- Treat every key and value as string should be fine
 - The maximum length of key/value is 256
- We may try to break your application, like
 - Long key
 - Long value
 - Key with no value(should store empty string)
 - o ...etc
- Make sure your application don't break!

Lab Requirements (cont.)

- Limitation
 - No limitation on Programming Language
 - No limitation on Database
 - Use nginx as reverse proxy(not necessary)
 - Just make sure request won't timeout when we judge your application
- Deadline: 5/5 (Wed.) 23:55
 - After midterm, so you got plenty of time to complete this lab

Judge Timetable

- 5/1 22:00
- 5/2 14:00
- 5/2 22:00
- 5/3 14:00
- 5/3 22:00
- 5/4 14:00
- 5/4 22:00
- 5/5 14:00
- 5/5 22:00
- 5/5 23:59

Questions?