

11/8/21 Test cases by Tina Martin

Depending on test case mgmt tool, you can write prerequisites to running test cases and then specify to review prereq.

Prereq:

1. PORT set to 8088 in system environment variables
2. Launch .exe app
3. Open command prompt

Test cases:

1. Verify after launch DOES not wait for https connection
 - a. Steps:
 - i. Launch .exe app
 - ii. From command prompt type: curl <https://127.0.0.1:8088/stats>
 - iii. Expected result: Should not return stats
2. Verify after launch waits for http connection
 - a. Steps:
 - i. Launch .exe app
 - ii. From command prompt type: curl <http://127.0.0.1:8088/stats>
 - iii. Expected result: Should not return stats
3. Verify incorrect port does not grant access
 - a. Steps:
 - i. Launch .exe app
 - ii. From command prompt type: curl <http://127.0.0.1:8089/stats>
 - iii. Expected result: Should return connection refused message
4. Verify valid port grants access
 - a. Steps:
 - i. Launch .exe app
 - ii. From command prompt type: curl <http://127.0.0.1:8088/stats>
 - iii. Expected result: Should return connection refused message
5. Verify post to /hash accepts password with special characters.
 - a. Steps:
 - i. Launch .exe app
 - ii. From command prompt type: curl -X POST -H "application/json" -d "{ \"password\": \"angrymonkey\" }" <http://127.0.0.1:8088/hash>
 - iii. Expected results: Should return job identifier NOTE: Write down job identifier as it will be used in next test case
6. Verify get DOES NOT return plain text password
 - a. Steps:
 - i. Launch .exe app

- ii. From command prompt type: curl -H "application/json"
<http://127.0.0.1:8088/hash/x> where x is the identifier
 - iii. Expected results:
 - 1. Should not return plain text password
 - 2. Should return base64 encoded password (NOTE: Go to <https://www.base64decode.org/>>select decode button>copy in the returned encrypted password. After converting it should match password.
7. Verify stats match requests sent in milliseconds
- a. Steps:
 - i. Launch .exe app
 - ii. From command prompt type: curl <http://127.0.0.1:8088/stats>
 - iii. Expected result:
 - 1. Should return TotalRequests that match how many POSTS you did
 - 2. Should return AverageTime in milliseconds
8. Verify app can handle multiple connections
- a. Launch .exe app
 - b. Launch 2 command windows and in each one change the password in this line:
curl -X POST -H "application/json" -d {"password":"angrymonkey"}"
<http://127.0.0.1:8088/hash>
 - c. Hit enter in both
 - d. Expected results: Each command should process and increment the identifier by number of requests
9. Verify number of requests is reset with server restart
- a. Launch .exe app
 - b. From command prompt type: curl -X POST -H "application/json" -d {"password":"angrymonkey"}"
<http://127.0.0.1:8088/hash>
 - c. From command prompt type: curl <http://127.0.0.1:8088/stats>
 - d. Close .exe app
 - e. Retype your curl <http://127.0.0.1:8088/stats>
 - f. Expected results: Stats should return back to 0 for TotalRequests & AverageTime
10. Verify post is processed before ungraceful shutdown is completed.
- a. Steps:
 - i. From command prompt type: curl -X POST -H "application/json" -d {"password":"angrymonkey"}"
<http://127.0.0.1:8088/hash>
 - ii. Close .exe app
 - iii. Expected results: Should process the request and not error out
11. Verify post is processed before shutdown is completed.
- a. Open 2 command prompts
 - b. Command prompt 1: curl -X POST -H "application/json" -d {"password":"angrymonkey"}"
<http://127.0.0.1:8088/hash>
 - c. Command prompt 2: curl -X POST -d "shutdown" <http://127.0.0.1:8088/hash>

- d. Expected result:
 - i. Command 1: Should return identifier code
 - ii. Should close .exe open app
- 12. Verify shutdown returns 200 code
 - a. Steps:
 - i. From command prompt type: curl -X POST -d "shutdown" <http://127.0.0.1:8088/hash>
 - ii. Expected results:
 - 1. Should return 200 code
 - 2. Should close .exe open app
- 13. Verify no password requests when app is shutdown
 - a. Open 2 command prompts
 - b. Command prompt 1: curl -X POST -d "shutdown" <http://127.0.0.1:8088/hash>
 - c. Command prompt 2: curl -X POST -H "application/json" -d {"password":"angrymonkey"} <http://127.0.0.1:8088/hash>
 - d. Expected result: On command prompt 2 should connection refused error msg
- 14. Verify GET is rejected when server is shutdown
 - a. Make sure .exe is closed
 - b. From command prompt type: curl -H "application/json" <http://127.0.0.1:8088/hash/x> where x is the identifier
 - c. Expected result: Should receive connection refused msg