

Auto Marking Program Guideline

Things to do for OpenFlow Server Test

1. Before you make a program, you consider a rules that we provide
 - a. Below message type is sequence of Openflow message. You must be keep sending request message sequentially.
 - (1) HELLO : Responding about server connection attempts
 - (2) FEATURES_REQUEST: It is request to information about function of switch
 - (3) STATS_REQUEST: It is request to information about statistical and status
 - (4) GET_CONFIG_REQUEST: It is informed to information about how to set of switch configuration.
 - (5) BARRIER_REQUEST: It is request to message about validation that command of controller
 - (6) STATS_REQUEST: It is request to information about switch description
 - (7) ROLE_REQUEST: It is request to information about role change (e.g : master->slave)
 - (8) PACKET_OUT: It is informed to information about how to activate of data packet

What you can get in this project

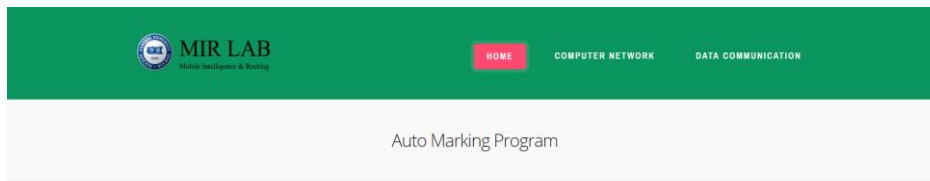
Today's network trend is changing to SDN. And OpenFlow protocol is representative In southbound of SDN. So if you do this test, you can to understand trend of network.

List of grading items

- A. Openflow Server test (You keep the rule of openflow message flow)
- Mission1: HELLO Message and Response about 'HELLO' sent from server
- Mission2: FEATURES_REQUEST Response about 'FEATURES_REPLY' sent from server
- Mission3: STATS_REQUEST : Response about 'STATS_REPLY' sent from server
- Mission4: GET_CONFIG_REQUEST: Response about 'GET_CONFIG_REPLY' sent from server
- Mission5: BARRIER_REQUEST: Response about 'BARRIER_REPLY' sent from server
- Mission6: STATS_REQUEST: Response about 'STATS_REPLY' sent from server
- Mission7: ROLE_REQUEST: Response about 'ROLE_REPLY' sent from server
- Mission8: PACKET_OUT: Response about 'PACKET_OUT' sent from server

How to test?

- 1) Approach 166.104.143.225/index through your web browser (Internet Explorer, Chrome, Firefox and etc.)



MIR Auto Marking Program List



Web Server Marking

Pellentesque tristique ante ut risus. Quisque dictum. Suspendisse dictum lectus. Donec placerat odio elit.
[See more details](#)



Web Client Marking

Pellentesque tristique ante ut risus. Quisque dictum. Suspendisse dictum lectus. Donec placerat odio elit.
[See more details](#)

2) You have to choice in list association with your project

[Computer Network] Auto Marking Program List



Web Server Marking

Marking Factors: - Restful API, ERROR Code -
 Handle HTTP Header, Multi Thread
[Go Test](#) [Manual](#)



Web Client Marking

Marking Factors: - Restful API(GET, POST) - Handle
 HTTP Header - GUI
[Go Test](#) [Manual](#)



Go-Back-N

Marking Factors: - Data validation - Response about
 Nak - After Nak, re-send number - Window size
[Go Test](#) [Manual](#)



SelectiveRepeat

Marking Factors: - Data validation - Response about
 Nak - After Nak, re-send number - Window size
[Go Test](#) [Manual](#)



OpenFlow server test

Marking Factors: - Message flow of openflow
 protocol
[Go Test](#) [Manual](#)



UDP Chatting Marking

Pellentesque tristique ante ut risus. Quisque
 dictum. Suspendisse dictum lectus. Donec placerat
 odio elit.
[Go Test](#) [Manual](#)

3) Fill out your information on blank.

Step1. Type your profile and OpenFlow Server Information in English

*Access Information

*Before click 'SUBMIT', you have to excute server that you made

*Don't forget port number that we gave you

Date	Time	Your IP	OpenFlow Server
2018.9.5	4:56	127.0.0.1	49755

*Student Information that you should type

Student Name	Student Number	Student IP	Student Port
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Fill out your information on blank

Ready to start your program marking?

- A. Student Number(2017xxxxx)
- B. Student Name (Should be written in English)
- C. Your Web Server IP Address. If you are hard to find your global IP, refer to Current Connection Info in case you approaches this web site with the same computer
- D. Port that you assign for your Web server, Check this out on your Source Code
- E. You have to use this port number on your server program to setting for send to marking server.
- F. **Before click the submit button, you have to run your server and client.**

4) In this step, you check to mission that we provide before run your program

Step2. Access your Openflow Server to the below address OpenFlow(Server)

***Your Information**

Student Name	Student Number	Client IP	Client Port
LEE	2018117148	127.0.0.1	3000

Try to Connect auto marking Server Using Your Client

IP :/127.0.0.1Port:49755

Port :

Mission 1: Set Ip that connect your OpenFlow-Server
 Mission 2: You have to exactly response about request from Agent
 Mission 2: You have to exactly send flow of openflow

*****Socket will be living for 10minutes! *****
 *****After 25 second, automatically you can see a result*****

After 25 seconds, it will show the result automatically.

- A. You must be a think before run a your server of openflow
 - (1) Before this step, you have to set IP and PORT we gave
 - (2) After 25 second, your test will be a end
 - (3) Socket that you use is a setting that end after 10minute. So after click submit button, for 10minute your test is must be a end.
- 5) Result Page

Openflow test

From Mission1 to Mission7 is essential Requirements

Mission Index	Result	Comment
Mission 1: Response from client about 'HELLO' message from server	true	
Mission2: Response from client about 'FEATURES_REPLY' message from server	false	You have to send message about message(FEATURE_REQUEST) that from server
Mission3: Response from client about 'STATS_REPLY' message from server	false	You have to send message about message(MULTI_PART_REQUEST) that from server
Mission4: Response from client about 'GET_CONFIG_REPLY' message from server	false	You have to send message about message(GET_CONFIG_REQ) that from server
Mission5: Response from client about 'BARRIER_REPLY' message from server	false	You have to send message about message(BARRIER_REQ) that from server
Mission6: Response from client about 'STATS_REPLY2' message from server	false	You have to send message about message(MULTI_PART_REQ) that from server
Mission7: Response from client about 'ROLE_REPLY' message from server	false	You have to send message about message(ROEL_REQUEST) that from server
Mission4: Response from client about 'PACKET_IN' message from server	false	You have to send message about message(PACKET_IN) that from server

- (1) You can see what is wrong or correct with Reason
- (2) It will be stored our lab Database, based on this result we will grade your assignment.