CI Lab Environment Setup

To make the blueprint pass press release review and let more people can test/feel it, we set up the environment in Akraino CI/CD Lab.

Deploy Architecture

Three Physical Servers itemized beblow are required to set up the environment.

	IP Address	Function	Status
Server A	10.11.6.11, 10.11.6.12	Tars Framework Dispatch Module	Ongoing
Server B	10.11.6.13, 10.11.6.14	Tars Node Connected Vehicle Application	Ongoing
Server C	10.11.6.15(Not Work Yet), 10.11.6.16	Tars Node Connected Vehicle Application	Ongoing

Access Method

Follow the step itemized below to access the lab servers:

Step 1: Preparation

The following things should be prepared prior to connecting the lab server.

- The configure file is provided by the CI/CD Lab. Feel free to reach out to Akraino Lab to apply your VPN configuration in advance.
- username and initial password are provided by the CI/CD Lab. Feel free to reach out to Akraino Lab to apply your VPN username and password in advance.
- Send your ssh public key to CI/CD Lab and let them put the public key in the server you will visit soon.

The way I generate the public key:

For windows xshell:

https://qiuxincsu.wordpress.com/2019/10/01/windows-xshell-key%e8%ae%be%e7%bd%ae%e6%96%b9%e5%bc%8f/

For macOS:

ssh-keygen -t rsa -C $mailaddress

$mailaddress is the mail address I used in GitHub as well as Linux foundations.

Step 2: Down the VPN and install the configure file.

For Windows OS,

1) download link:

   https://openvpn.net/community-downloads/

2) Put the VPN configuration file to the following path:

   C:\Users\${Username}\OpenVPN\config

3) Input the user name and password in the windows, then press "connect"

For macOS,

1) download link:

https://tunnelblick.net

2) Drag and drop the configuration file to the tunnelblick tool.

3) Press the connection button.

Step 3: Connect to the server

For macOS, open the terminal and input "ssh root@IP", all set!

For Windows, configure the Public Key and user name in the shell tool(like Xshell), then login into the server.

Step 4: Download code

git clone https://gerrit.akraino.org/r/admin/repos/connected-vehicle

FREQUENTLY ASKED QUESTIONS

1 How to add the public key for New Access Device

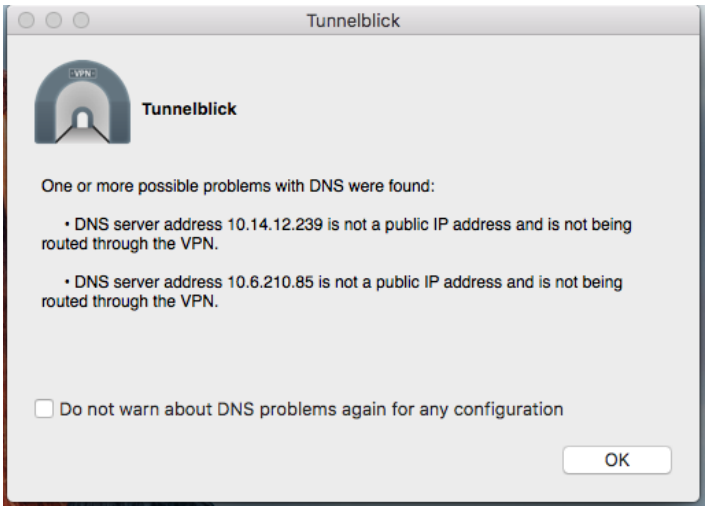
To make a new device has the right to access the lab server, a new public key should be copied and pasted into /root/.ssh/authorized_keys in the server.

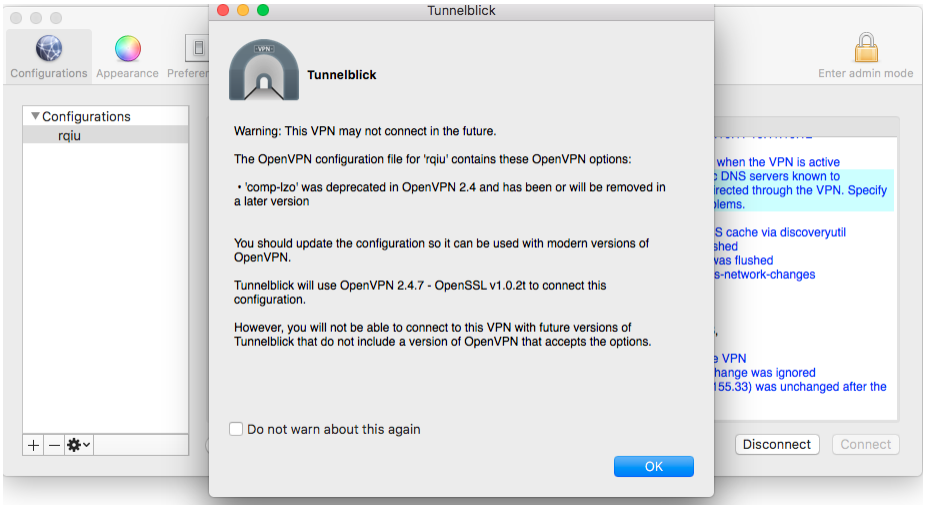
2) Problems in connecting the server

Make sure a) VPN is connected successfully, b) pubic key is setup successfully c) password(if required) is input successfully

Errors

1) When connecting to the VPN, there are some error pages, but it disappears soon in my MacBook air(Windows does not have these issues). It does not affect accessing the lab server. Not sure whether it should be solved or not.





2) The following is unreachable even after connecting to the VPN successfully in both Windows and macOS.

https://resolute.akr.iol.unh.edu/ipa/ui

3) 10.11.6.15 is unreachable in both Windows and macOS. Ping 10.11.5.15 fail.