

Connecting to IU Secure

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This tutorial talks how to set up Raspberry Pi to connect to IU Secure.

1. Downloading a Thawte certificate

Download the certification file from Oncourse **or** from the following link:

```
https://www.thawte.com/roots/thawte\_Primary\_Root\_CA.pem
```

Copy the text, and save to a file named: **thawte_Primary_Root_CA.pem**

Then put this file to the home directory of your Raspberry Pi: */home/pi/*.

2. Configure WiFi to access IU Secure

Run the following command to configure the Raspberry Pi.

2.1. copy the certification file to a new location:

```
~$ sudo mkdir /etc/certs
~$ sudo cp thawte_Primary_Root_CA.pem /etc/certs/
```

2.2. configure the wifi connection parameters:

2.2.1. Make a backup of the original configuration file:

```
~$ sudo cp /etc/wpa_supplicant/wpa_supplicant.conf
      /etc/wpa_supplicant/wpa_supplicant.conf.bk
```

2.2.2. edit the wpa_supplicant.conf file as following:

```
~$ sudo nano /etc/wpa_supplicant/wpa_supplicant.conf
[Entering the edit interface]
```

Inside the network={ } block:

```
network={
    ssid="IU Secure"
    scan_ssid=1
    key_mgmt=WPA-EAP
    pairwise=CCMP TKIP
```

```
group=CCMP TKIP
eap=PEAP
identity="your_IU_ID"
password="your_IU_Password"
ca_cert="/etc/certs/thawte_Primary_Root_CA.pem"
phase1="peapver=0"
phase2="MSCHAPV2"
}
```

Press Ctrl+X, y, and Enter to save the changes.

2.2.3. edit the network interfaces

```
~$ sudo nano /etc/network/interfaces
[Entering the edit interface]
```

Locate the wlan0 section, edit it as the following:

```
auto wlan0
allow-hotplug wlan0
iface wlan0 inet manual
pre-up wpa_supplicant -B -Dwext -i wlan0 -c/etc/wpa_supplicant/wpa_supplicant.conf
post-down killall -q wpa_supplicant
```

Press Ctrl+X, y, and Enter to save the changes.

Now reboot your Raspberry Pi, the Pi should be able connect to IU Secure automatically.

References

[IU Secure wireless connections: Ubuntu] <https://kb.iu.edu/d/axsu>

[Raspberry Pi: Connecting to WPA2-Enterprise Wifi Network]

<http://raspberrypi.stackexchange.com/questions/22875/connecting-to-wpa2-enterprise-wifi-network>