HOWTO: ipw3945 connecting to a University Network (802.1x / PEAP)

ubuntuforums.org/showthread.php

1. September 3rd, 2006 #1

Tea Glorious Tea!

First of all this is my first HOWTO and it details how I got connected to Lehigh University's wireless network with wpa_supplicant. I decided to post this as I was having trouble finding info on this subject [of connecting to a University 802.1x network] and figured this might serve as a springboard to help others connect to their own 802.1x University networks.

I recommend backing up all config files before editing them and take no responsibility for any damage this may cause

Ok, that said let's get started, first make sure you have the wpa_supplicant installed.

Code:

```
sudo apt-get install wpasupplicant
```

Now create the wpa_supplicant configuration file

Code:

```
sudo gedit /etc/wpa_supplicant/wpa_supplicant.conf
```

then paste the following, edit as needed and save.

Code:

```
# for lehigh university
network={
        ssid="lu"
        scan_ssid=1
        key_mgmt=IEEE8021X
        eap=PEAP
        phase2="auth=MSCHAPV2"
        identity="your university login name"
        password="your password"
}
```

Now edit /etc/network/interfaces with

Code:

```
sudo gedit /etc/network/interfaces
```

adding

Code:

```
wpa-driver wext
wpa-conf /etc/wpa_supplicant/wpa_supplicant.conf
```

under your wireless interface.

Restart networking

Code:

```
sudo /etc/init.d/networking restart
```

and enjoy!

Hope this helps somebody 😁

*Adapted from http://coral.ie.lehigh.edu/~asm4/howtos/wireless.html

Registered Linux User #423733 / Registered Ubuntu User #4140

2. October 7th, 2006 #2

👤 Tea Glorious Tea!

Re: HOWTO: ipw3945 connecting to a University Network (802.1x / PEAP)

Ok, so I went home today and couldn't connect through Administration -> Networking to my WEP encrypted network. It seems wpa_supplicant takes control of the networking management and for those of you who happen to use this HowTo note that you will need to add any future network config to the wpa_supplicant.conf file eg:

Code:

```
 # wireless for home
network={
        ssid="your network name"
        key_mgmt=NONE
        wep_key0=
        wep_tx_keyidx=1
}
```

where wep_key0=your wep key

See the link at bottom of previous post for full config file example.