

No connection to Eduroam on Raspbian Stretch

It seems that the `wpa_supplicant` package issued with Stretch uses newer communication protocols that are not correctly supported by the Eduroam access points that we are using. Therefore, a previous version of this tool should be installed.

In the case of Raspbian Stretch the solution is to include the previous version repositories (Jessie) and install the `wpa_supplicant` of that version.

Add Jessie main repository

Create the file `/etc/apt/sources.list.d/jessie.list` with:

```
deb http://mirrordirector.raspbian.org/raspbian/ jessie main
```

Create the file `/etc/apt/preferences.d/jessie` with:

```
Package: *  
release o=Raspbian,n=jessie  
Pin-Priority: -1
```

Update the package list with:

```
$ sudo apt-get update
```

Test the available versions of `wpa_supplicant` with:

```
$ sudo apt-cache policy wpa_supplicant
```

Install and block the jessie version with:

```
$ sudo apt-get install wpa_supplicant=2.3-1+deb8u5  
$ sudo apt-mark hold wpa_supplicant
```

Eduroam configuration

This information could vary depending on the centre you are accessing to Eduroam. So, either download the Eduroam configuration assistant tool and select your centre or where you are connecting to it

In the case of Universitat Jaume I, the configuration that has to be added to the file `/etc/wpa_supplicant/wpa_supplicant.conf` is:

```
network={  
    ssid="eduroam"  
    scan_ssid=1  
    key_mgmt=WPA-EAP
```

```
eap=PEAP
identity="XXXXX@uji.es"
password="XXXXX"
phase1="peaplabel=0"
phase2="auth=MSCHAPV2"
}
```

Instead of using the plain text password, a hash password can be generated with:

```
echo -n plaintext_password_here | iconv -t utf16le | openssl md4
```

Then, prefix the result with "hash:" and put it in the wpa_supplicant.conf file, i.e.:

```
password=hash:6602f435fc3f54388a31238d3b9bdcfd0b
```

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