Configuring a Raspberry Pi for Eduroam and remote access

There are four stages to achieving the above. The stages are: -

1) Strengthen the password

Once the stages below are complete, you will be able to access your Pi from your desktop PC. Because, given the right information, someone else might try to do the same, it is important to make sure you have a strong password. In choosing a password it is wise to use a mixture of uppercase and lowercase letters, and numbers and symbols. A minimum of fifteen characters is recommended. If you build your password around a *phrase* you can remember, this should make it easier for you to remember.

To change your password, open a terminal window and type: -

```
passwd
```

.. and hit return. Then just follow the on-screen prompts

2) Enable the Pi to attach to Eduroam

Everything you need to attach your Pi to Eduroam is held in a small program (or 'script') available from the University's website. To download the script, open a terminal window and type (or paste) in these commands: -

```
wget www.sussex.ac.uk/eduroam/installers/eduroam-linux-UoS-eduroam.sh
chmod 755 eduroam-linux-UoS-eduroam.sh
./eduroam-linux-UoS-eduroam.sh
```

The last command will run the script. You will see the following output - Please answer 'Y' to all 'yes/no' questions

```
WWW: http://www.sussex.ac.uk/its

Installer created with software from the GEANT project.

This installer will only work properly if you are a member of University of Sussex and the
user group: eduroam.
Continue Y/N? [N]: Y
enter your userid: ano123@sussex.ac.uk
enter your password: yourpassword
repeat your password: yourpassword
```

WARNING: The script will prompt for your password twice and **this will be shown on screen**.

Once the script has completed, run the following commands

```
cat /etc/wpa_supplicant/wpa_supplicant.conf \
/home/pi/.cat_installer/cat_installer.conf >./tempconf.txt
sudo cp ./tempconf.txt /etc/wpa_supplicant/wpa_supplicant.conf
sudo chmod 600 /etc/wpa_supplicant/wpa_supplicant.conf
```

Lastly, reboot the Raspberry Pi and it will automatically attach to Eduroam.

## 3) Install remote access software on your local workstation

To access the Pi you will need to install the following software. Please click on the links below
to download the portable versions of each …

- Putty for console access to the Pi
- VNC for graphical access to the Pi's desktop

To direct either Putty or VNC to your Pi you will need to know it's IP address. The quickest way
to find this is to (on the Pi desktop) search for the term 'IP' in Google.

4) Configure remote access to the Pi

- On the Pi desktop (as pictured below) click .. **Raspberry menu item** -> **Preferences** ->
Raspberry Pi Configuration
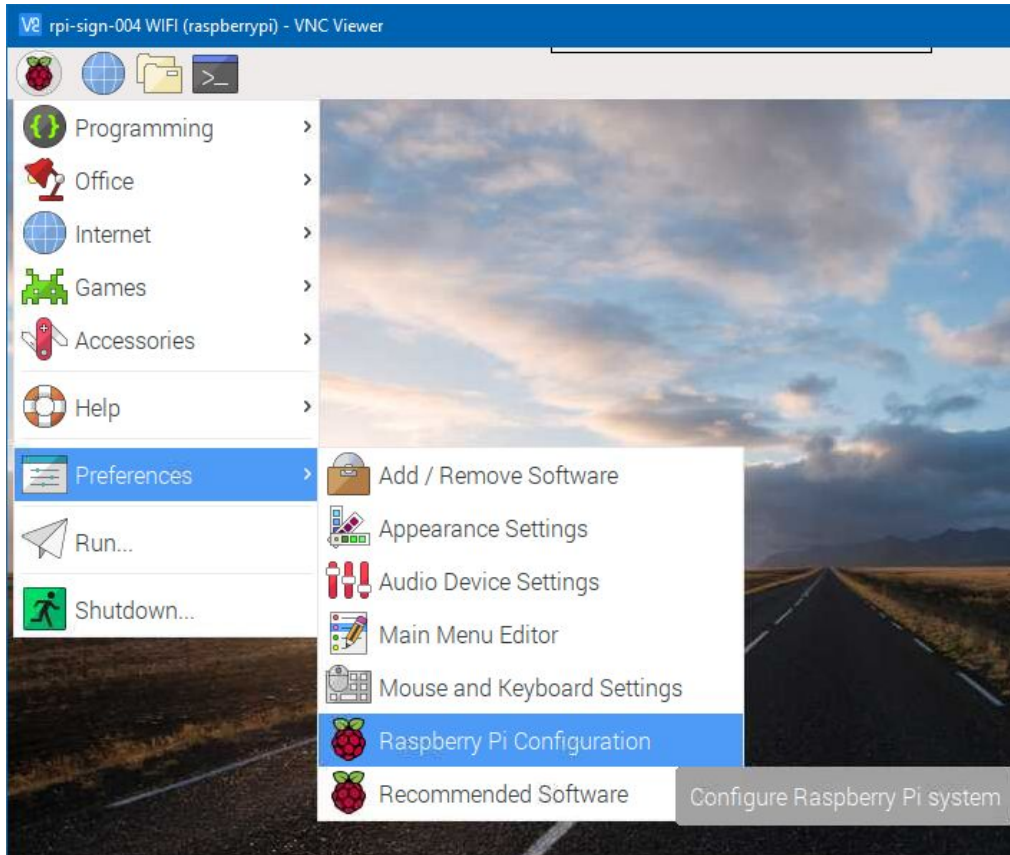
- Then, on the Raspberry Pi Configuration screen (pictured below) , go to the Interfaces tab and enable **SSH** and **VNC**. Then click on **OK**
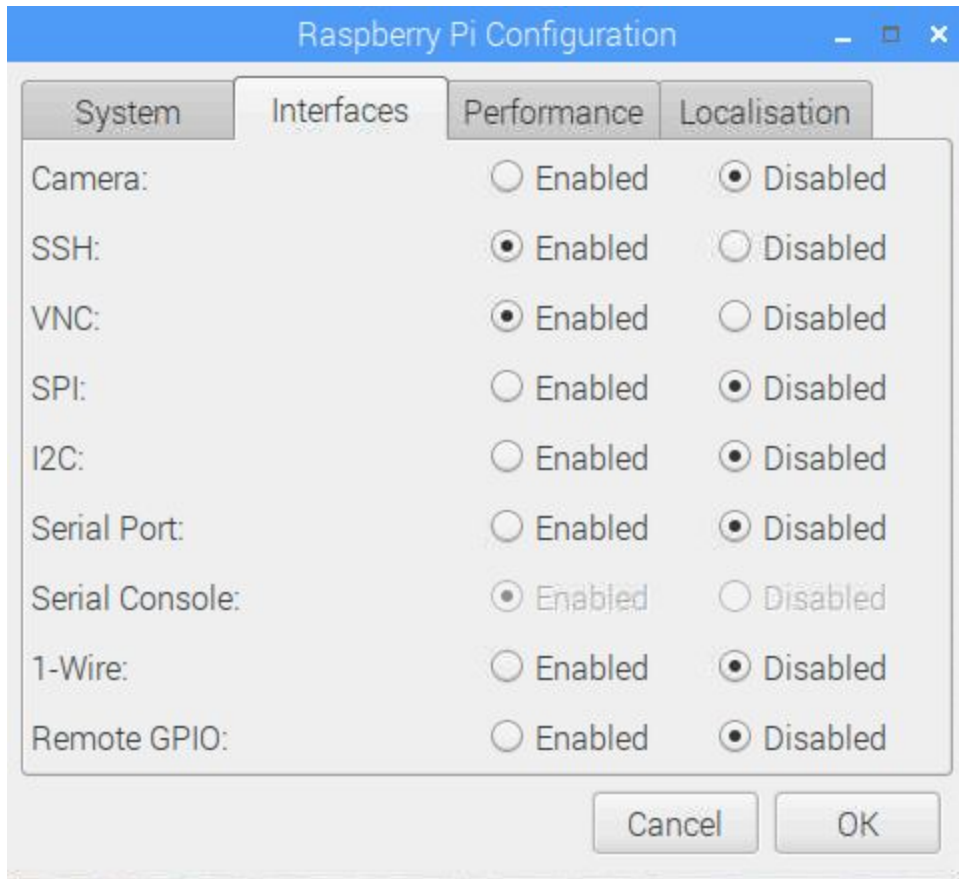
- There will be a short delay as the associated software is installed. You do not see anything happening except the mouse pointer shows as busy (Arrow with Hourglass). Once the pointer turns back into an arrow, **reboot the pi**.