

JMU Wireless Network

Configuration for Ubuntu Linux 8.10 through 11.04 using the GNOME and Unity environments

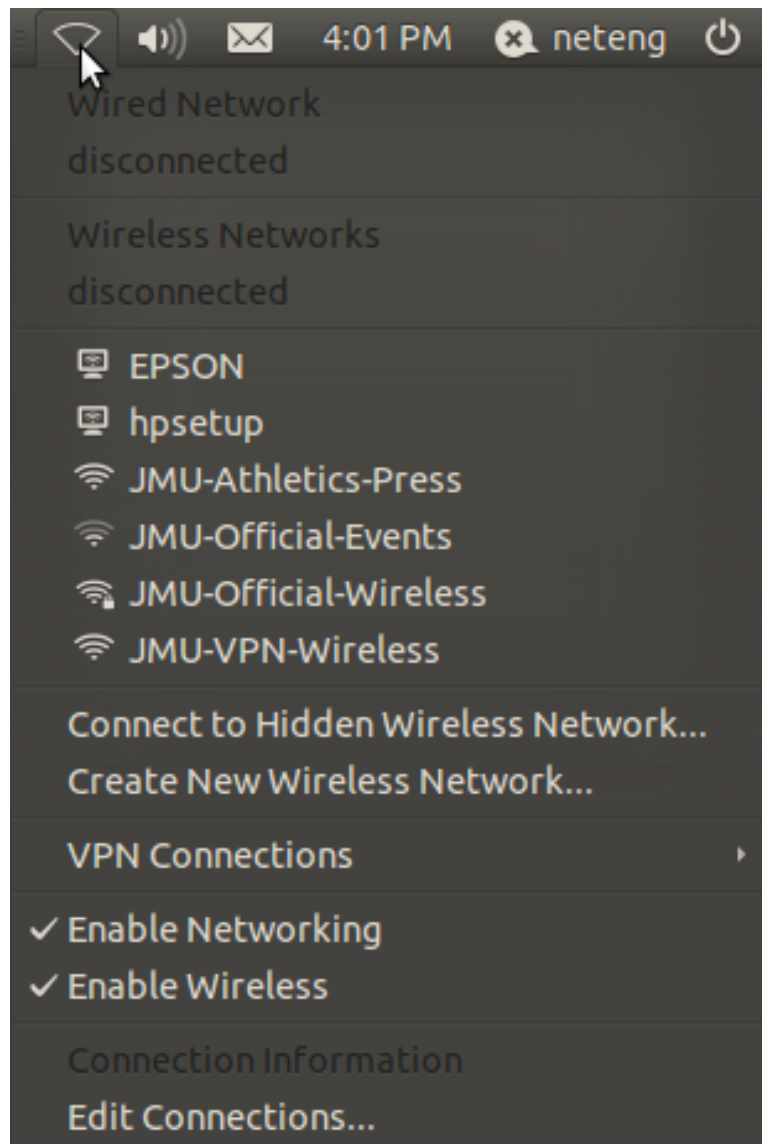
Screenshots in this guide were created with
Ubuntu 11.04 using GNOME 2.32.1 (“Ubuntu Classic”).

This guide does not cover installing drivers or firmware for wireless network adapters.

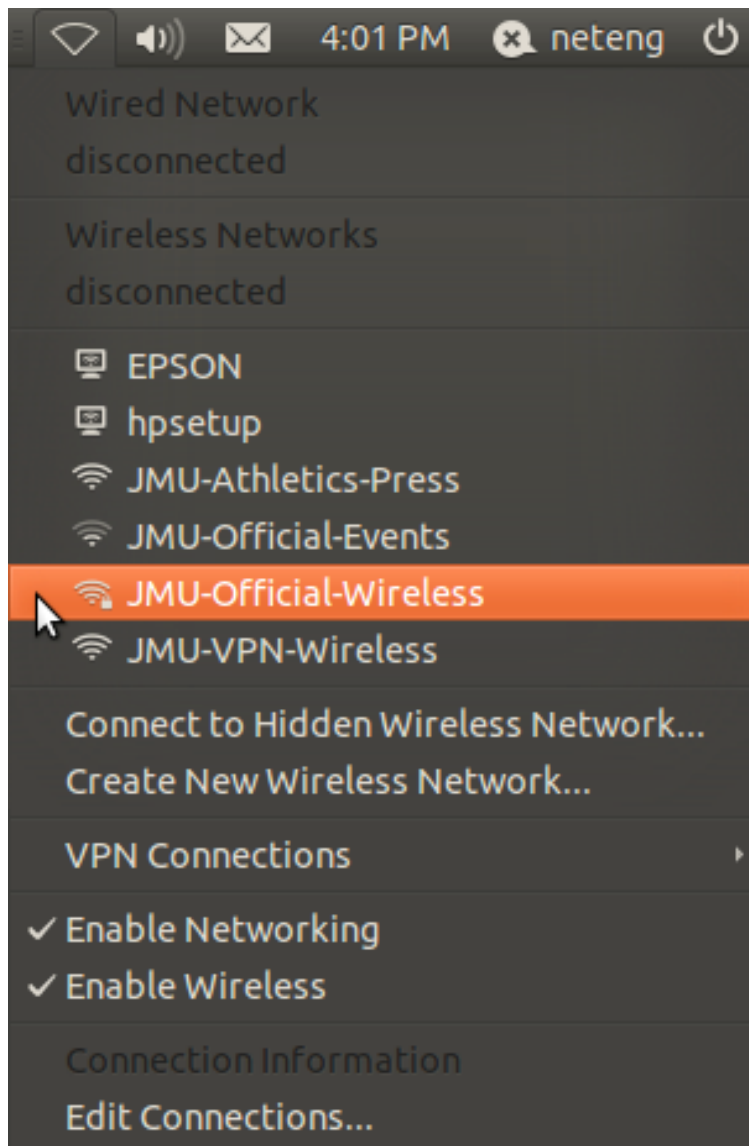
Please note that Linux is not supported by the Computing HelpDesk and
that this document is provided as a self-help reference only.

Connecting for the first time

To join the wireless network, first click on the **Network Manager** icon in the **Notification Area**. A list of available wireless networks will appear.



From the list of wireless networks, select **JMU-Official-Wireless**.



You will then be prompted to choose security settings for the network and enter your login credentials.

First click the drop-down list next to **Authentication**.

Wireless Network Authentication Required

Authentication required by wireless network

Passwords or encryption keys are required to access the wireless network 'JMU-Official-Wireless'.

Wireless security: WPA & WPA2 Enterprise

Authentication: Tunneled TLS

Anonymous identity: (None)

CA certificate: (None)

Inner authentication: MSCHAPv2

Username: (empty)

Password: (empty)

Ask for this password every time

Show password

Cancel Connect

From the drop-down list, select **Protected EAP (PEAP)**.

Wireless Network Authentication Required

Authentication required by wireless network

Passwords or encryption keys are required to access the wireless network 'JMU-Official-Wireless'.

Wireless security: TLS

Authentication: LEAP

Anonymous identity: Tunneled TLS

CA certificate: (None)

Inner authentication: MSCHAPv2

Username: (empty)

Password: (empty)

Ask for this password every time

Show password

Cancel Connect

Then click on the file browser button next to **CA certificate**.

It is possible to choose a **PEAP version**, enter your e-ID and password here, and continue without specifying the **CA certificate**, but it is not recommended.



Wireless Network Authentication Required

Authentication required by wireless network

Passwords or encryption keys are required to access the wireless network 'JMU-Official-Wireless'.

Wireless security: WPA & WPA2 Enterprise

Authentication: Protected EAP (PEAP)

Anonymous identity:

CA certificate: (None) 

PEAP version: Automatic

Inner authentication: MSCHAPv2

Username:

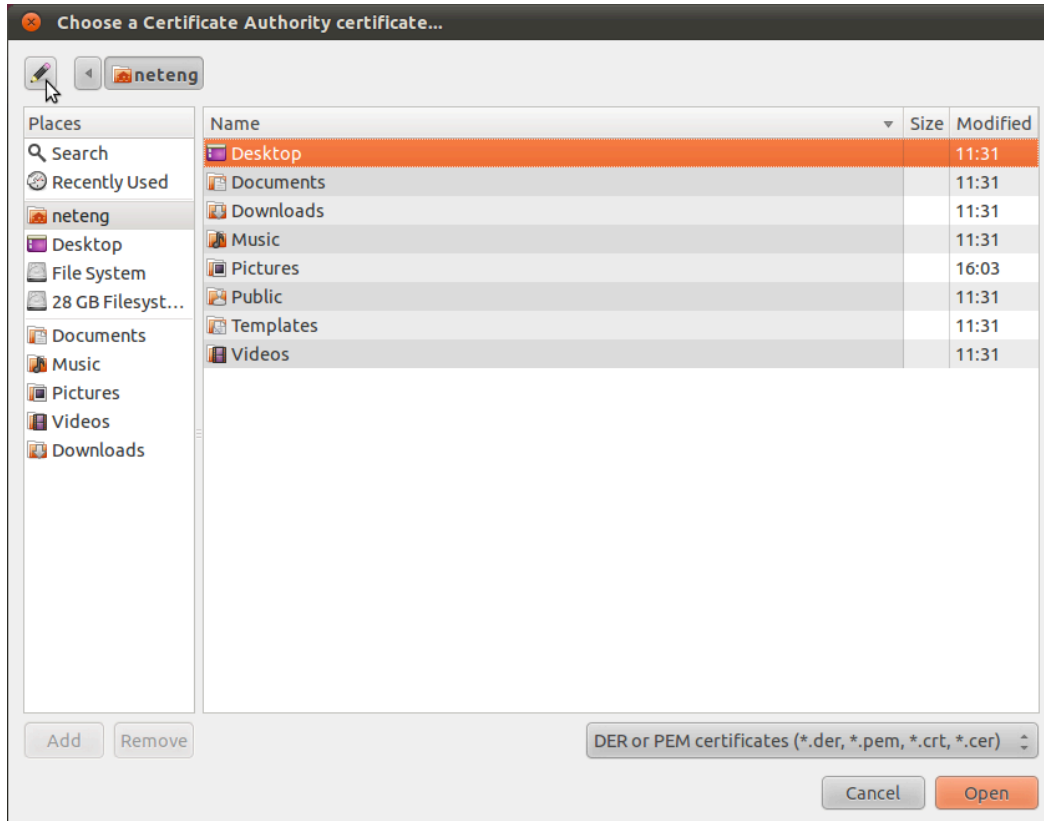
Password:

Ask for this password every time

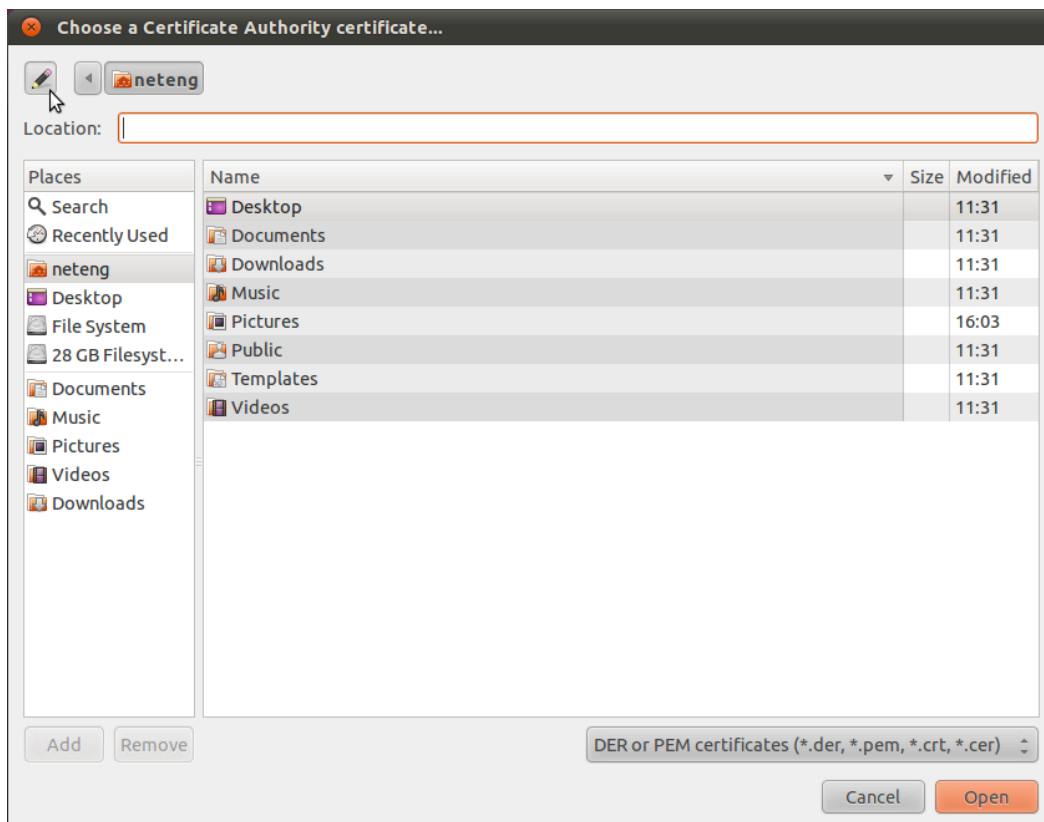
Show password

Cancel Connect

Click on the top-left button with the pencil icon in the new **Choose a Certificate Authority certificate** window.

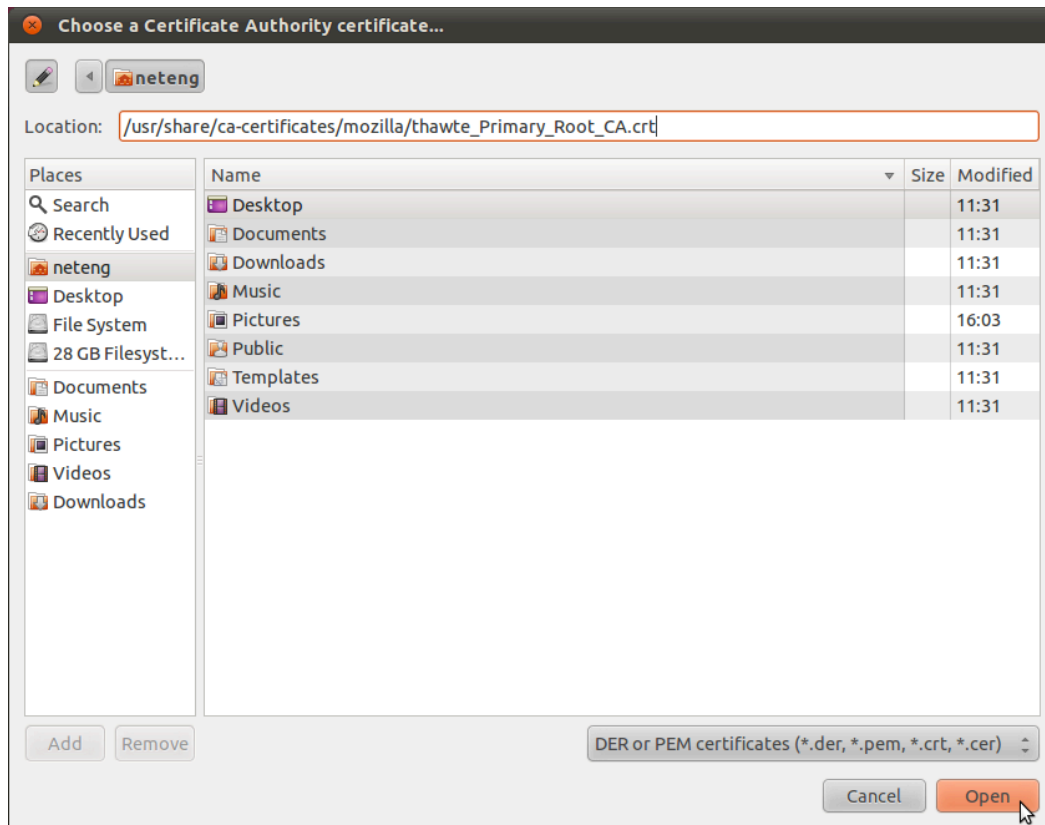


A text-entry area labeled **Location** will appear.



Enter the following into the **Location** bar then click the **Open** button at the bottom.

`/usr/share/ca-certificates/mozilla/thawte_Primary_Root_CA.crt`

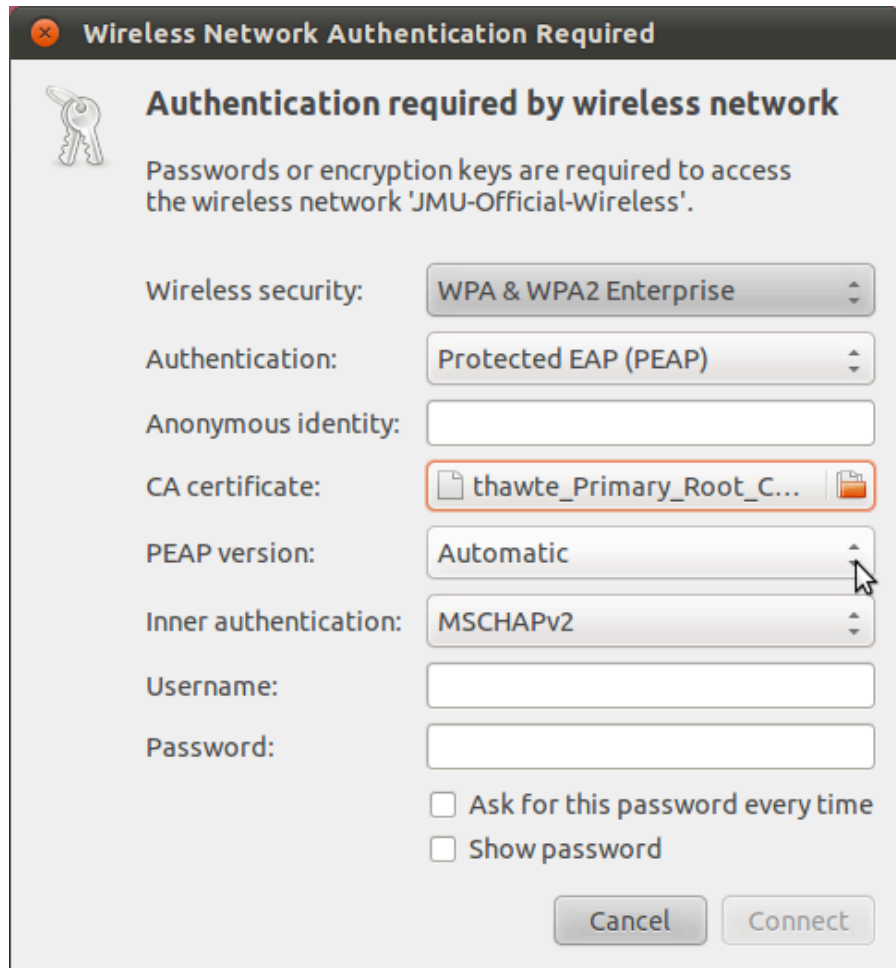


It is also possible to browse to the certificate's location beginning with **File System** in the **Places** list on the left.

The certificate may be in another location if you are using a different Linux distribution, such as Fedora.

This will return you to the **Wireless Network Authentication Required** window.

To prevent any problems connecting to the wireless network, the **PEAP version** must be set manually. Click the drop-down list next to **PEAP version** to change it.



Wireless Network Authentication Required

Authentication required by wireless network

Passwords or encryption keys are required to access the wireless network 'JMU-Official-Wireless'.

Wireless security: WPA & WPA2 Enterprise

Authentication: Protected EAP (PEAP)

Anonymous identity:

CA certificate: thawte_Primary_Root_C...

PEAP version: Automatic

Inner authentication: MSCHAPv2

Username:

Password:

Ask for this password every time

Show password

Cancel Connect

Select **Version 0** from the drop-down list.



Wireless Network Authentication Required


 **Authentication required by wireless network**

Passwords or encryption keys are required to access the wireless network 'JMU-Official-Wireless'.

Wireless security: WPA & WPA2 Enterprise

Authentication: Protected EAP (PEAP)

Anonymous identity:

CA certificate:  thawte_Primary_Root_C... 

PEAP version: Automatic

Inner authentication: **Version 0**

Version 1

Username:

Password:

Ask for this password every time

Show password

Cancel Connect

Enter your e-ID and password, then click **Connect**.

Wireless Network Authentication Required

Authentication required by wireless network

Passwords or encryption keys are required to access the wireless network 'JMU-Official-Wireless'.

Wireless security: WPA & WPA2 Enterprise

Authentication: Protected EAP (PEAP)

Anonymous identity:

CA certificate: thawte_Primary_Root_C...

PEAP version: Version 0

Inner authentication: MSCHAPv2

Username:

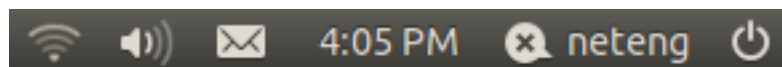
Password:

Ask for this password every time

Show password

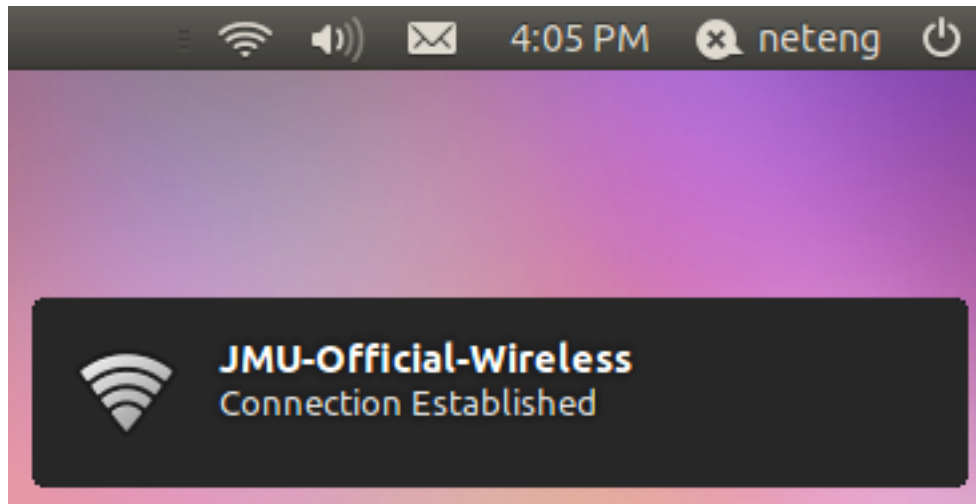
Cancel Connect

It may take several seconds for your computer to acquire an IP address, during which time the **Network Manager** icon will change to look like the one below on the far left.



After successfully connecting to the wireless network and getting an IP address, the **Network Manager** icon will change to look like the one below on the left, with the curved bars indicating how strong the wireless signal is. This may vary depending on your location.

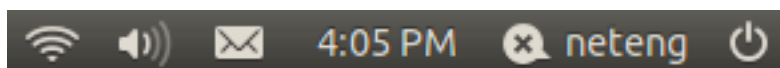
You may also see a **Connection Established** message below the **Notification Area** after successfully connecting.



Reconnecting

If your Ubuntu Linux computer has previously has connected to the **JMU-Official-Wireless** network, it will automatically attempt to join it again after logging in, waking from being suspended, or being rebooted.

The **Network Manager** icon will look like the one below, with the curved bars indicating how strong the wireless signal is. This may vary depending on your location.

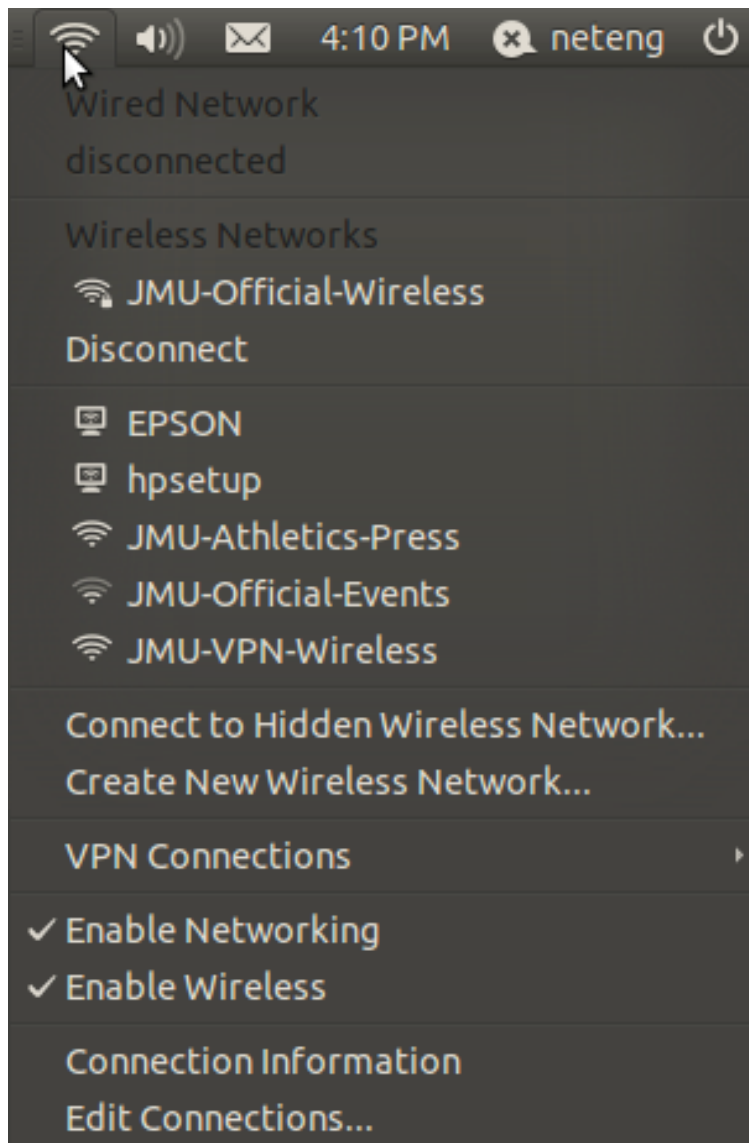


You may also see a **Connection Established** message below the **Notification Area** after successfully connecting.

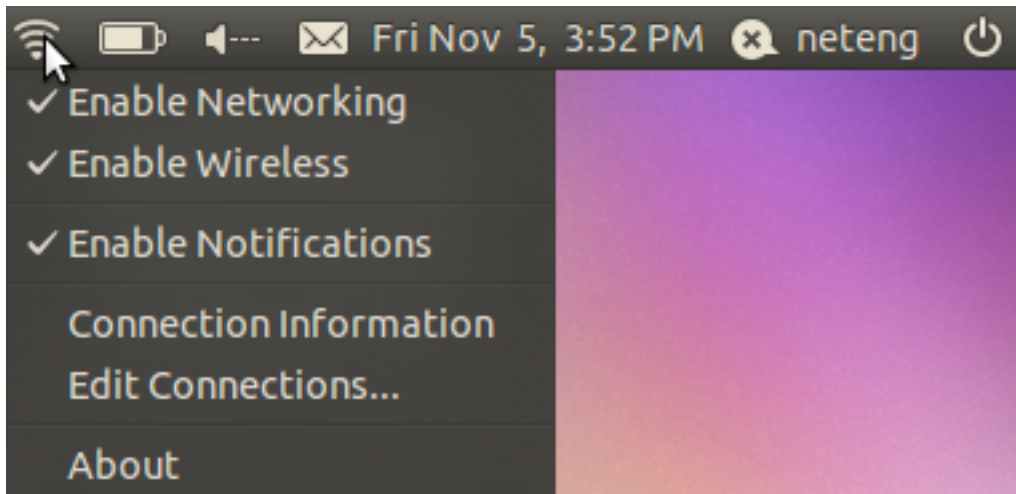
Remove connection settings

Should you need to change the username used to log in to the wireless network or disconnect without connecting to another network, an easy way is to remove the network settings.

Click the **Network Manager** icon in the **Notification Area** and a menu will appear.



Ubuntu 10.10 and earlier users will need to **right-click** on the **Network Manager** icon in the **Notification Area** for the menu to appear.

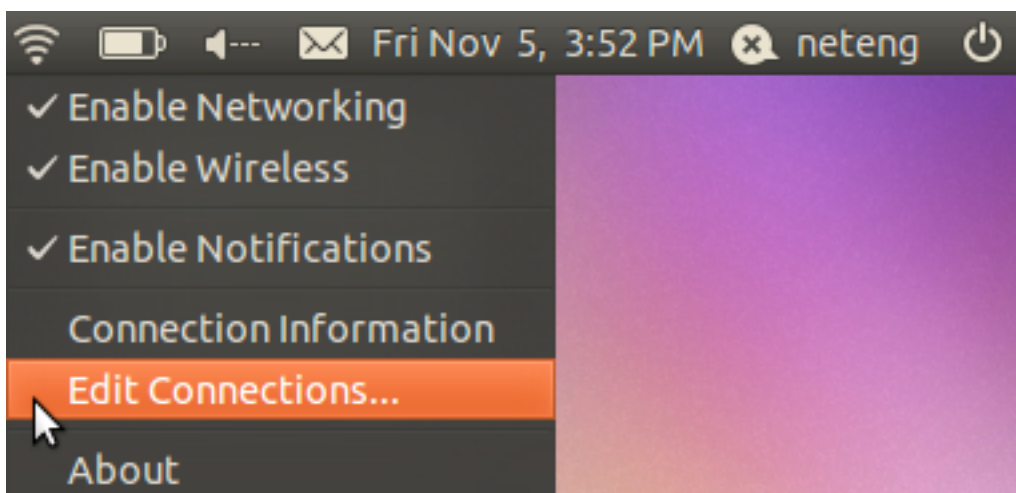


Ubuntu 10.10 (GNOME 2.32.0)

Select **Edit Connections...** from the menu.

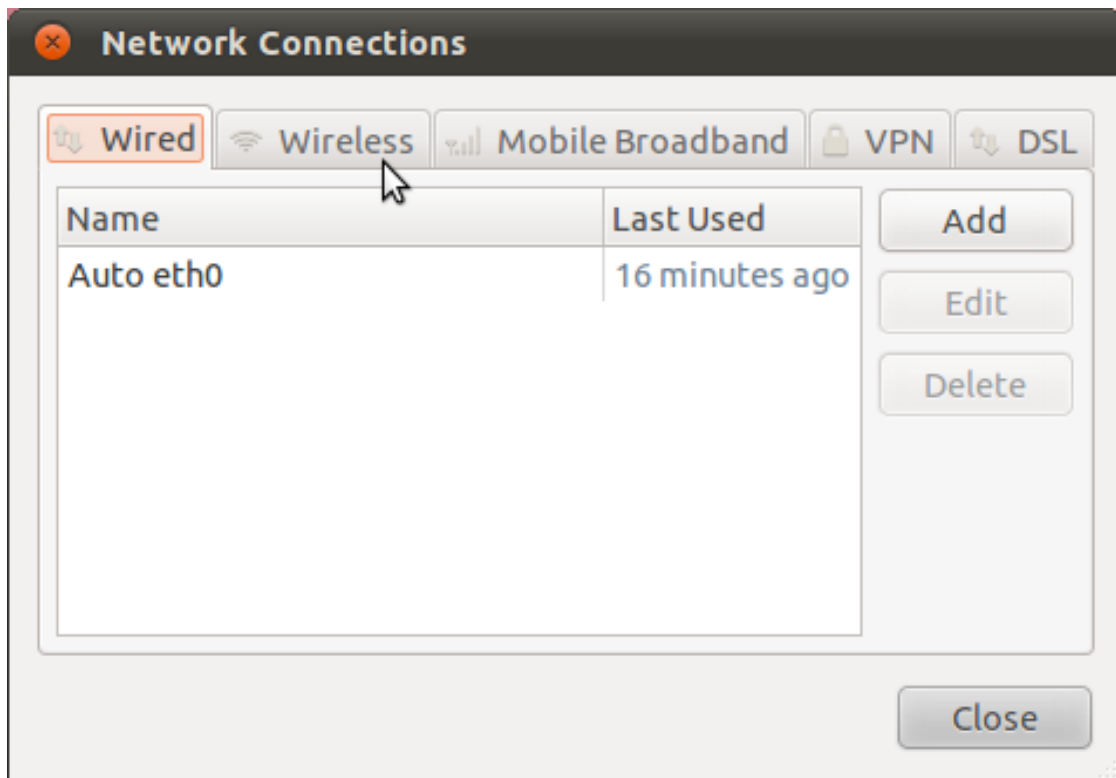


Ubuntu 10.10 and earlier users will find **Edit Connections...** at a different place in the menu.

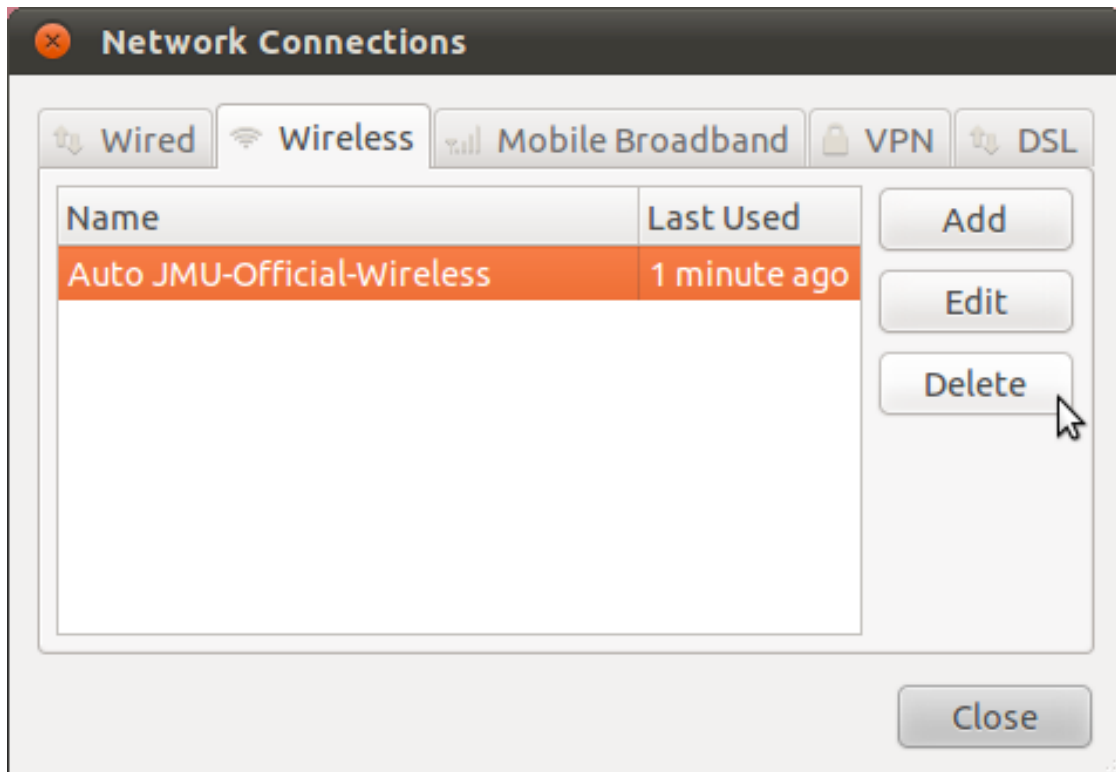


Ubuntu 10.10 (GNOME 2.32.0)

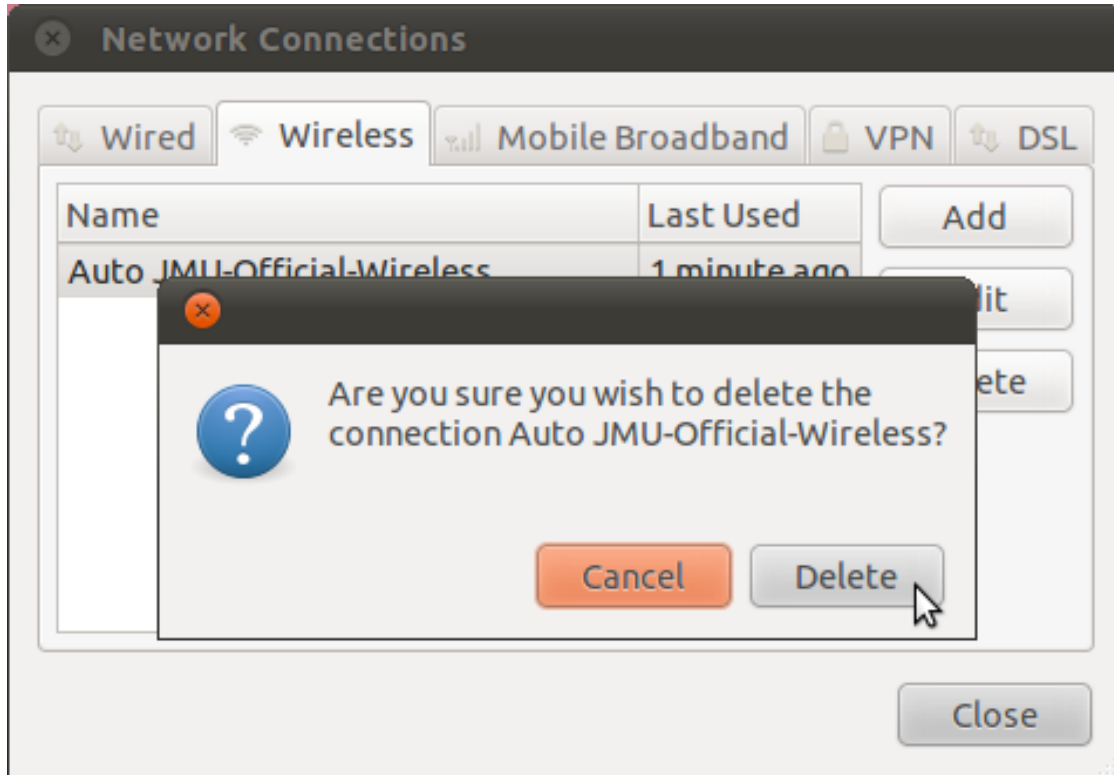
The **Network Connections** window will appear and have the **Wired** tab selected. Click on the **Wireless** tab.



Select **Auto JMU-Official-Wireless** and click the **Delete** button on the right.



A confirmation will be displayed to remove the network settings and stop automatically joining it. Click **Delete** to finish.



Ubuntu 9.10 users may receive a confirmation prompt as Network Manager attempts to remove the saved password for **JMU-Official-Wireless**.

Click **Allow Once**.



Ubuntu 9.10 (GNOME 2.28)