Installing Otago University Certificate Authority (OU CA) issued certificates
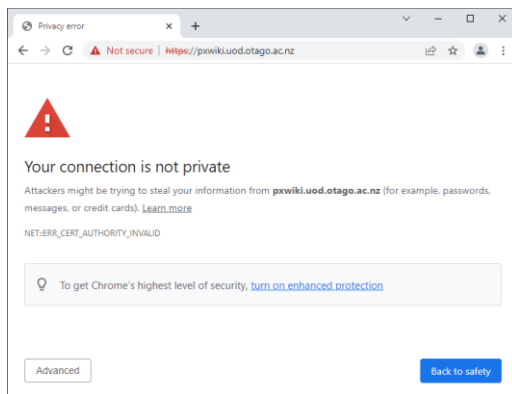
1. Follow this link to download the OU CA root certificate: http://cdp.otago.ac.nz/University of Otago Root CA.crt

2. Follow the instructions that are relevant to your computer.
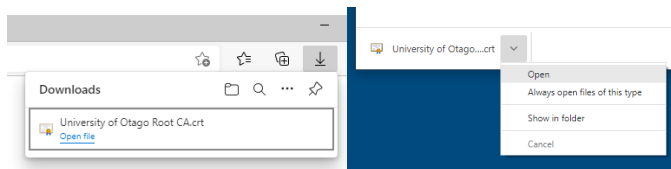
Operating System

Windows

In Chrome or Edge you will see a warning page similar to the following:


Download the OU CA certificate following the link given above.

Open the downloaded file from your browser.

You will be presented with information about the certificate file you have downloaded. Most importantly, there is a warning "**This CA Root certificate is not trusted**". In order to trust this certificate, click "Install Certificate..." to start the Certificate Wizard.
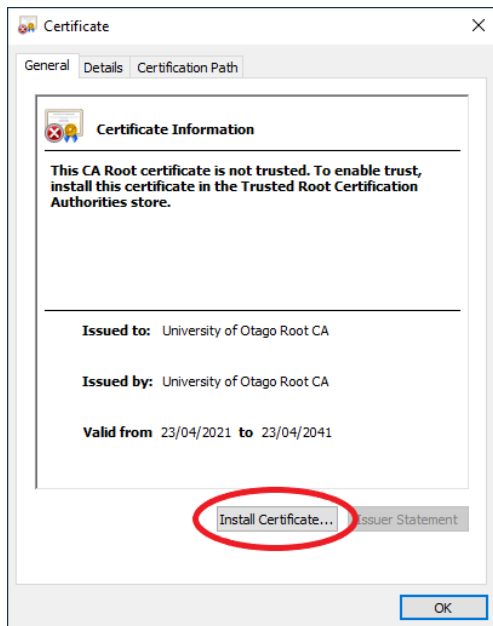
Once the Certificate Import Wizard opens, you will be asked whether to install the certificate for the current user or for every user on that machine (this requires administrator privileges). In most cases, it is best to install only for the current user (this is the default option). Click "Next".
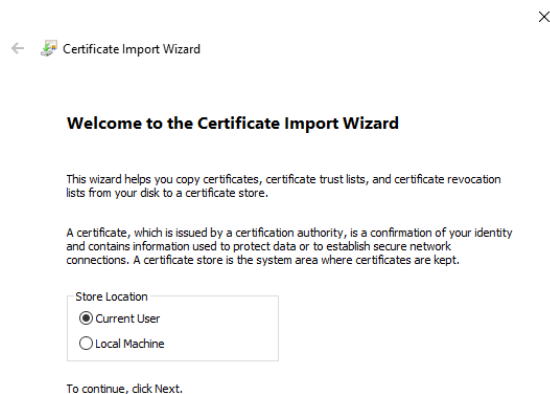

In Certificate Store selection, we need to specify what kind of certificate it is we are installing. Choose "Place all certificates in the following store", then click "Browse..."
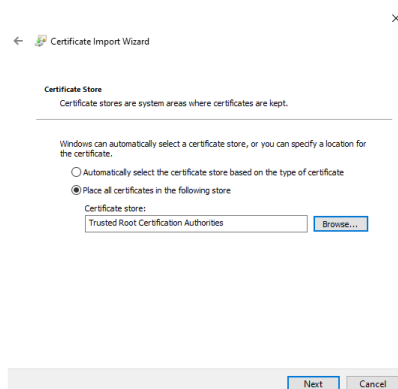
In the pop-up window "Select Certificate Store", choose "Trusted Root Certification Authorities" and finally Click "OK". Once returned to the Certificate Store options, click "Next".
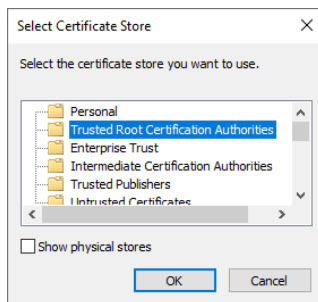
You will see a summary of the import operation. Click "Finish".
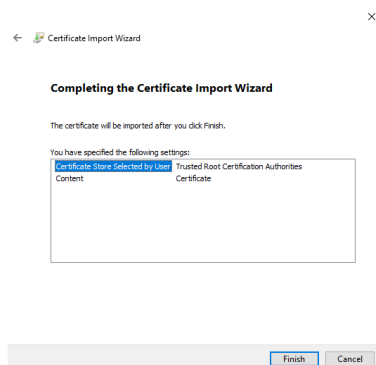
You should now see a Security Warning, asking to confirm your decision. This is a reminder that the system by default does not trust this Certificate Authority and we are confirming our trust in it. Click "Yes".
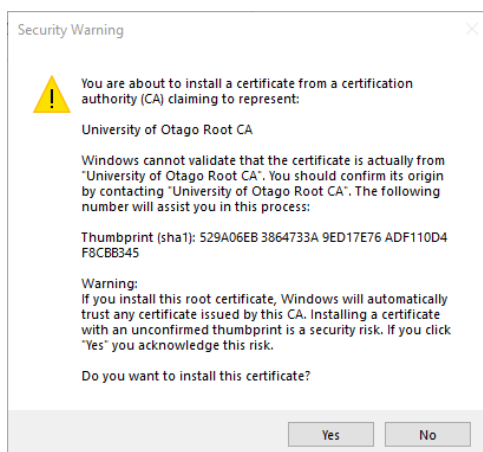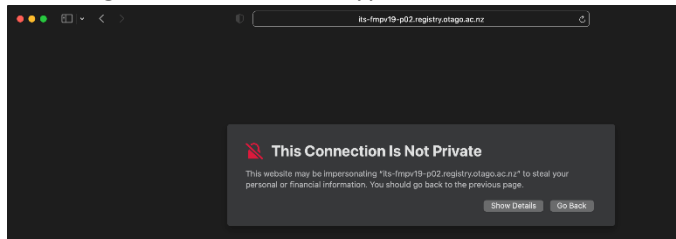

A message "The import was successful" will be displayed. Click "OK".

Close your internet browser (Edge or Chrome). Relaunch your browser and attempt to load the page that was presenting the security warning previously. Any sites on the University network with internally issued certificates should now load without warning.
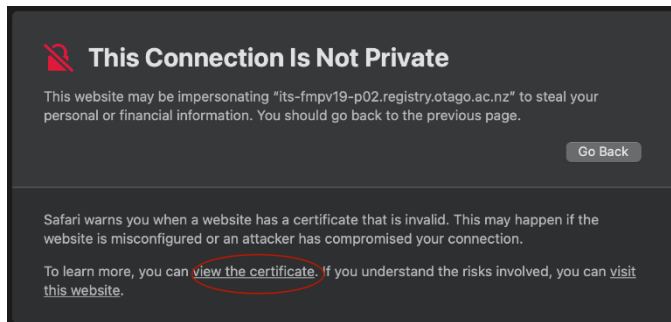
- For more information on the subject: https://docs.microsoft.com/en-us/windows-hardware/drivers/install/trusted-root-certification-authorities-certificate-store
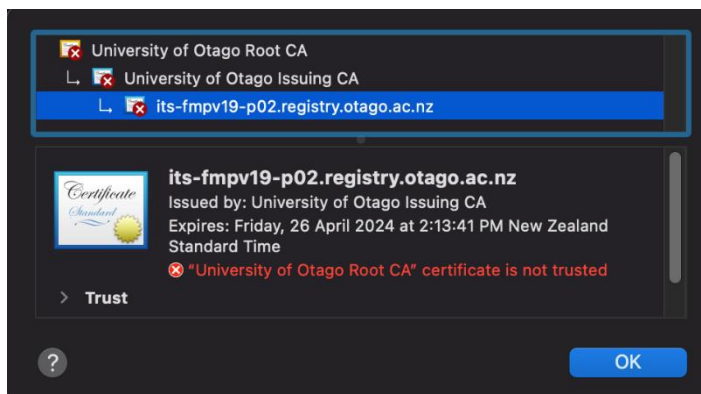
The image below shows the typical error that results within a Safari web browser.

You can confirm by clicking on the "Show Details" and then clicking the link to "view the certificate"


In the subsequent window you will see the message "University of Otago Root CA" certificate is not trusted.


To fix this problem you need to download the University of Otago Root certificate add it to the Macs keychain and trust it.

1. Browse to the following link to download the University of Otago Root certificate
   http://cdp.otago.ac.nz/University of Otago Root CA.crt
   If prompted to allow downloads from cdp.otago.ac.nz click "Allow"
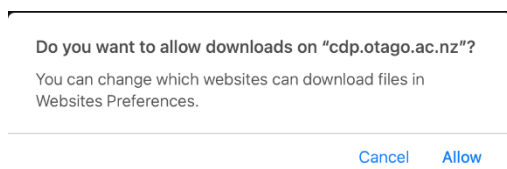

2. In Finder open you "Downloads" folder and double-click on "University of Otago Root CA.crt"

3. When prompted authenticate to open the certificate with Keychain Access (either username and password of the logged in user or biometric fingerprint)
4. In Keychain Access select System from the left hand side and Certificates from the tabs at the top. You should see a row with the name University of Otago Root CA with a little red and white x on the image.
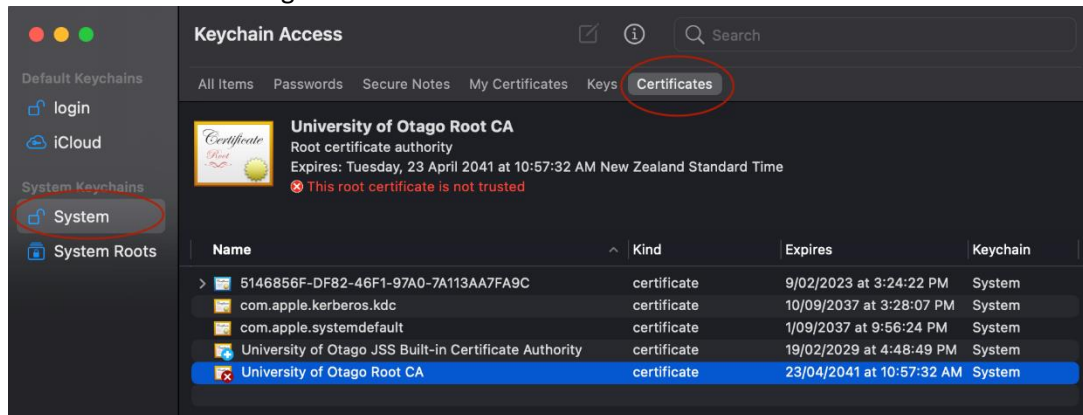
5. Double click on the University of Otago Root CA
   In the subsequent dialog box click on the little arrow next to the word Trust and then change
   When using this certificate: "Use Systems Defaults" to "Always Trust"
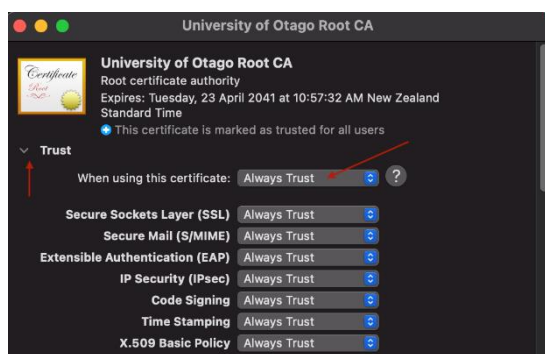
6. Close the dialog by clicking on the red close window circle in the top left, you will be prompted to authenticate again.
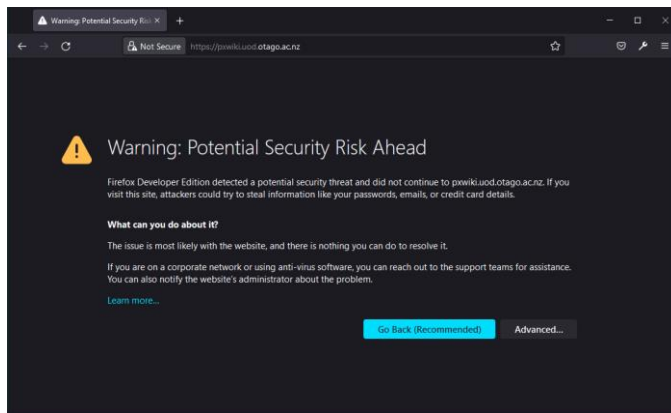   The certificate should now have a little blue and white + next to the image
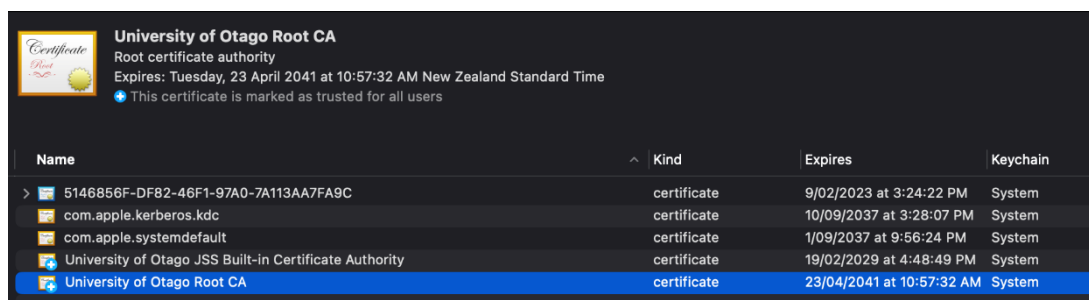
7. Close "Keychain Access" and refresh the webpage.

Browser Specific

Firefox

When visiting a site using an internal certificate you will see a "Warning: Potential Security Risk Ahead" page:

Firefox uses its own certificate "store" (https://blog.mozilla.org/security/2019/02/14/why-does-mozilla-maintain-our-own-root-certificate-store/). **If you are using Firefox on Mac, Windows, or Linux you will need to follow these additional instructions:**

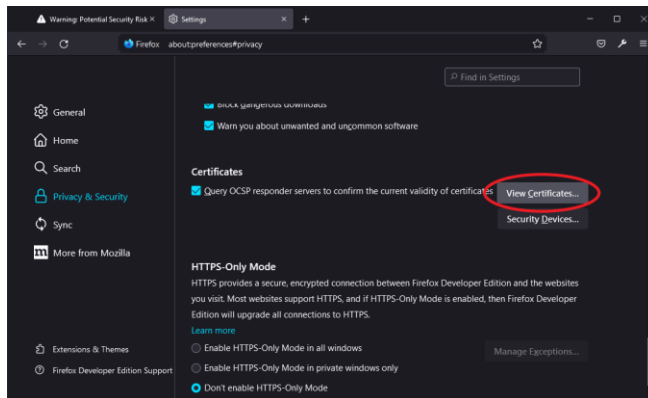Download the OU CA (link above).

In order to add and trust the University of Otago Certificate Authority, click the 'hamburger' icon (three horizontal lines) to the right of the address bar, then click 'Settings' in the menu.
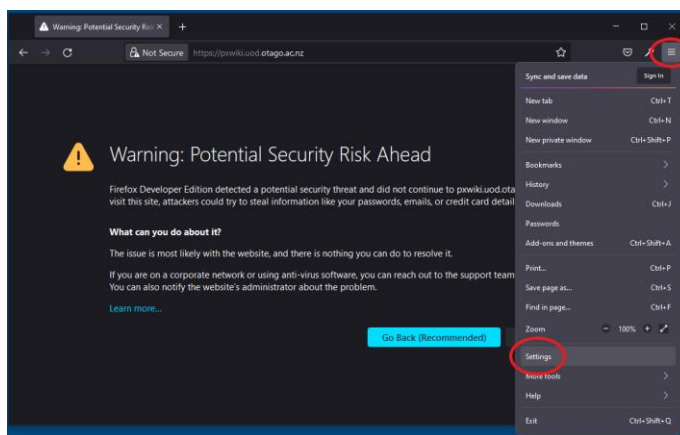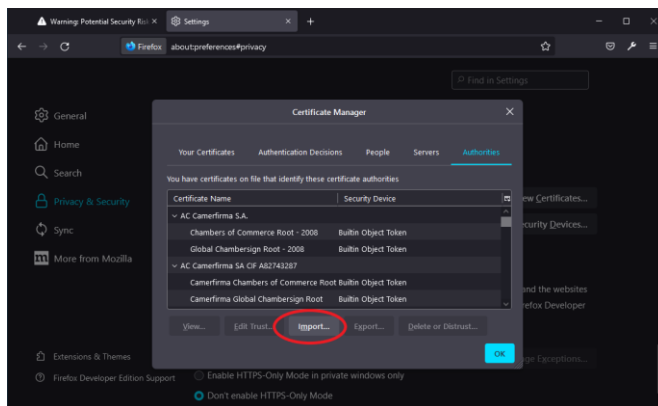

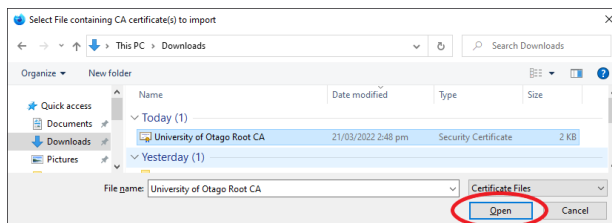On the left-hand pane of the Settings view, click "Privacy and Security".
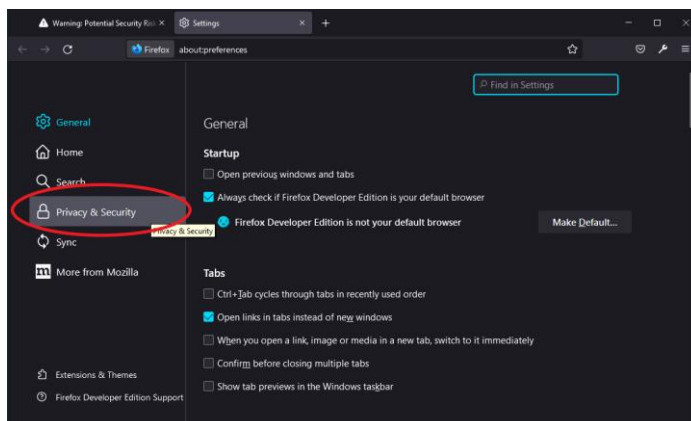
Scroll down to the "Certificates" section. Click "View Certificates".

In the "Authorities" tab (this should be the default), click "Import".


In the import file dialog box, navigate to the folder where you downloaded the certificate file. Select the file "University of Otago Root CA.crt", then click "Open".

In the "Downloading Certificate" window, select "Trust this CA to identify websites", then click "OK".
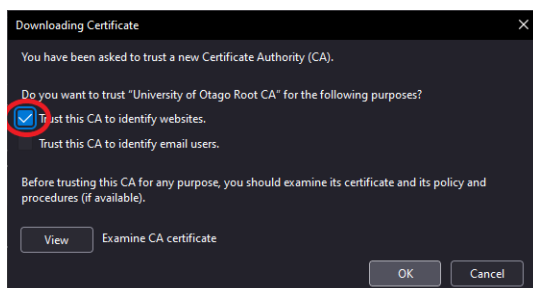
You should return to the "Certificate Manager". Click "OK". The certificate should now be installed and recognised by Firefox. Reload the page. You can view security information for the site by clicking on the padlock icon in the address bar:
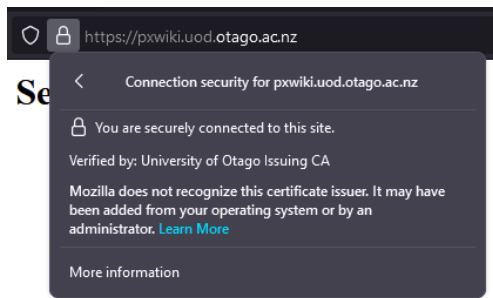
Please note that this will not install the OU CA system-wide. If you were to then open the same page in Chrome or Edge on your computer you will receive a security warning. In order to use browsers other than Firefox, you will need to also follow the instructions given to install the OU CA on Windows or Mac.