



You can choose a Chromebook deployment model that suits you. We have created two guides depending on your potential needs:

- If you wish to create a user account for each child and only wish logged-in users to be able to use the devices, use the document “How to enrol Chromebooks and add Cisco Umbrella on a Google domain managed by a school” (this guide)
- If you wish the device to be used without requiring the user to log in, for example as a shared device, please use the document “How to enrol Chromebooks and add Cisco Umbrella on a local authority's Google domain”

How to enrol Chromebooks and add Cisco Umbrella on a Google domain managed by a school

Find out how to enrol Google Chromebooks so you can remotely manage them and how to add Cisco Umbrella to make them secure for families and children who are associated with a school.

You need to:

- Create an Org Unit for these devices
- Enrol your Chromebooks
- Deploy and configure Cisco filtering extension

Create an Org Unit

In your Google Admin Console create an organisation unit called ‘DfE Devices’

Enrolling Chromebooks

Before you enrol your devices, please ensure that you have the correct number of Chrome licenses available in your domain by going to ‘Devices’ > ‘Chrome devices’ and click the ‘Upgrades’ button in the top right. If you don’t have enough licenses for the number of devices you need to enroll and manage, please contact dfepcs@computacenter.com

Follow these instructions to enroll your devices:

1. Unbox multiple devices and turn on

2. Connect to WiFi
3. On login screen press ctrl + alt + e (or click 'More options' > 'Enterprise Enrollment')
4. Enter credentials on enrollment screen (use credentials from an account on your domain)
5. Wait for 'Your Chromebook has been successfully enrolled' and click 'Next'



Department
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Deploy Cisco Umbrella on your Chromebooks

The below content is taken from the [Cisco Umbrella Client Deployment Guide](#) and abbreviated for the purpose of this deployment.

Installation Guide

There are three parts to this installation:

- [Installing the Cisco Umbrella Chromebook client extension on your Chromebooks](#)
- [Installing the Cisco Umbrella Chromebook client application on your Chromebooks](#)
- [Optional] Installing Cisco Umbrella Root CA

You can also find instructions for removing Umbrella Chromebook software in the last section of this guide.

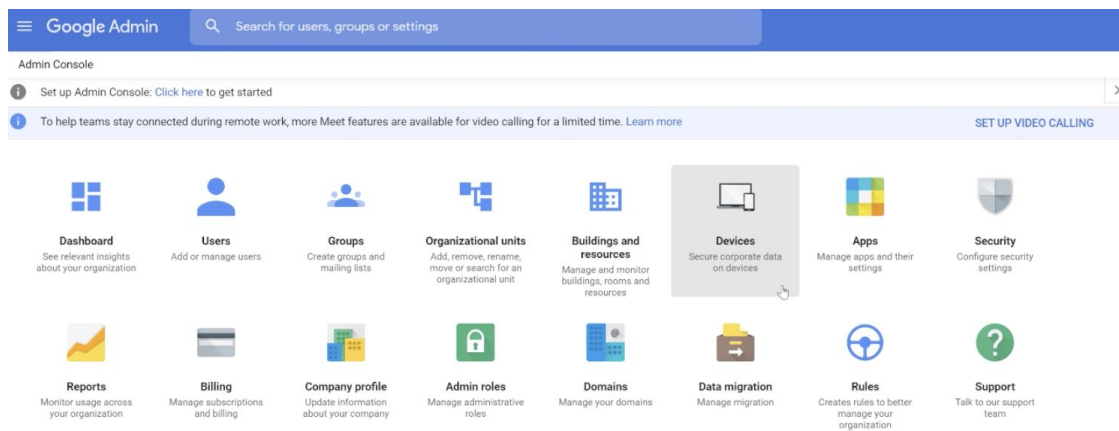
Prerequisites

The Cisco Umbrella Chromebook client uses the ports below. Please make sure that:

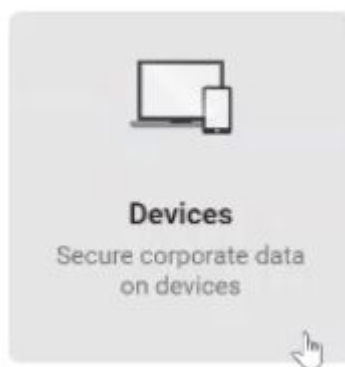
- Port 53 (UDP) is accessible to 208.67.220.220 and 208.67.222.222 on your firewall
- <https://registration.polaris.qq.opendns.com> is accessible from your device

Part 1: Install the Cisco Umbrella Chromebook Client **Extension**

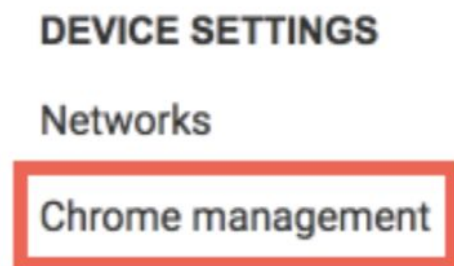
1. Log into <https://admin.google.com>.



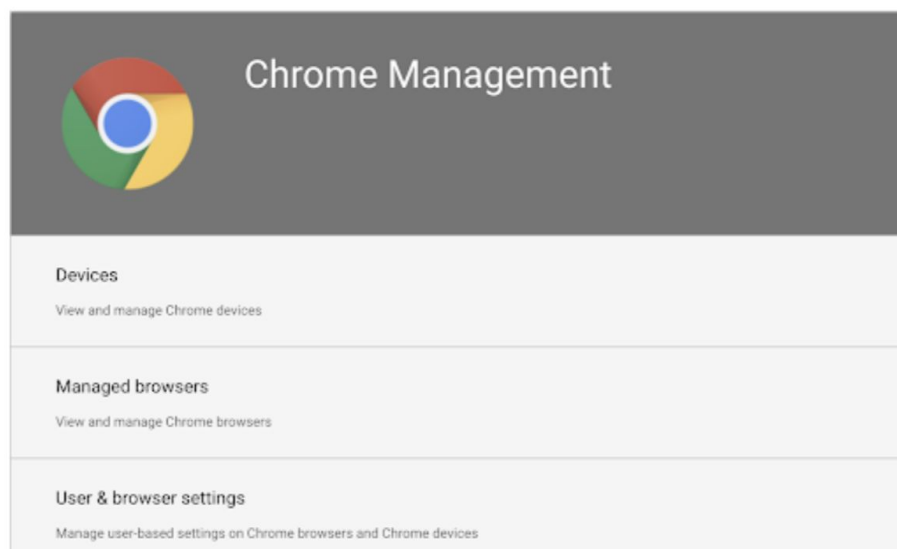
2. Select **Device Management**.



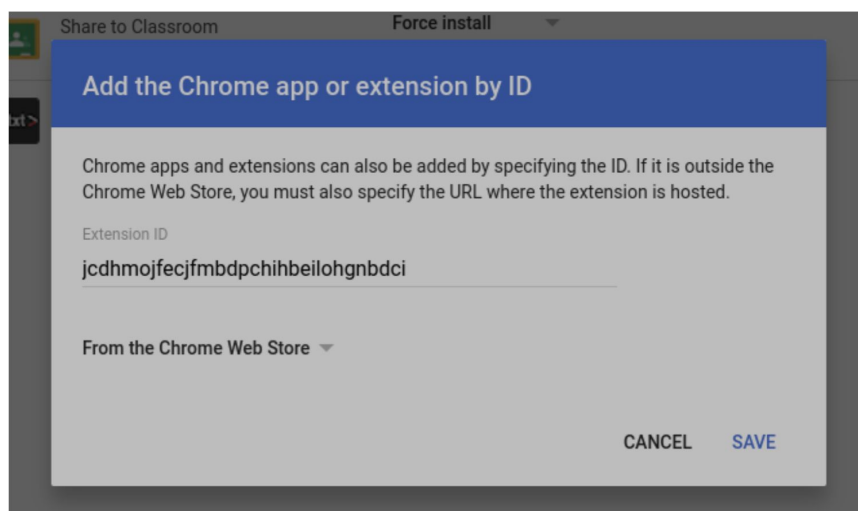
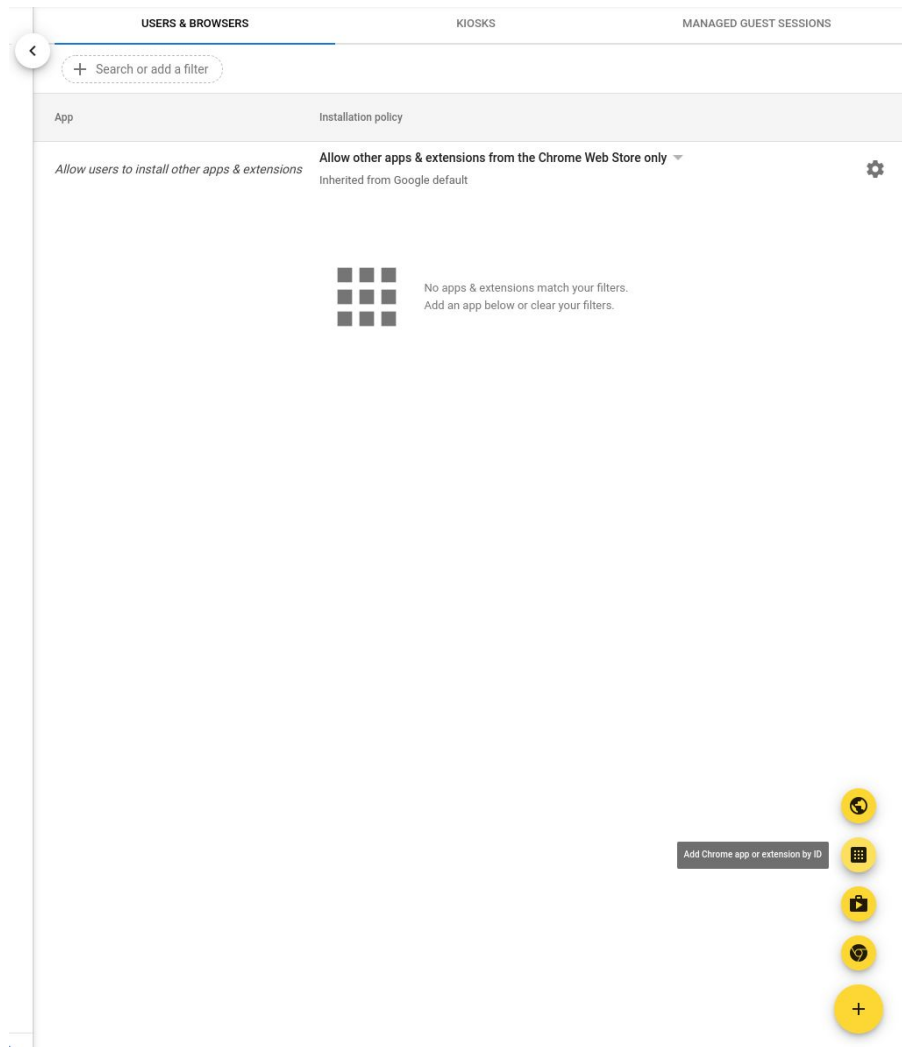
3. In the menu on the left-hand side of the Device Management window, select **Chrome Management**.



4. In the Chrome Management window, select **Apps & Extensions**.



5. Click 'Users and Browsers' and if applicable, select the relevant OU from the left hand side
6. Click the yellow + icon (bottom right hand corner) and choose 'Add the Chrome App or Extension by ID' option to search for the ID of the Cisco Umbrella Chromebook client extension **jcdhmojfecjfmdbpchihibeilohgnbdci** (Searching by name will not work.)



7. Select **Force Install**.

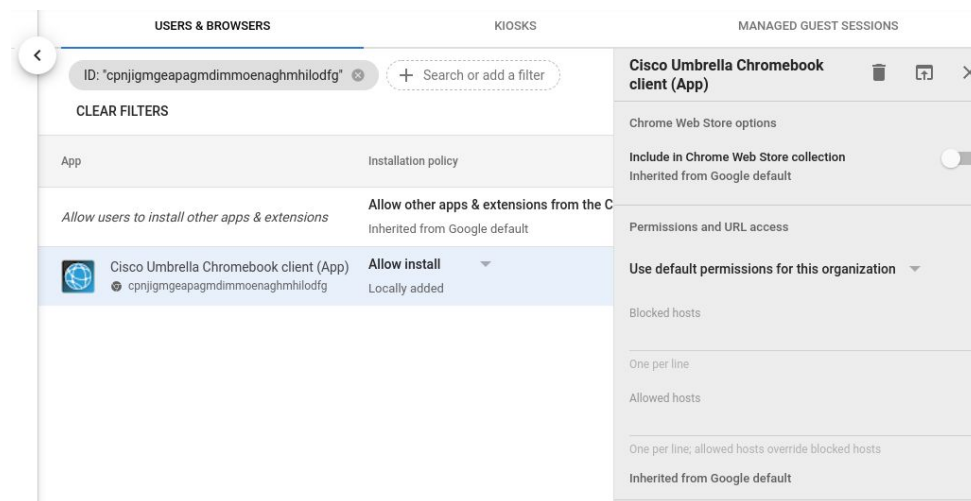
This ensures that Chromebook users in the selected Organization Unit cannot remove or disable the extension.

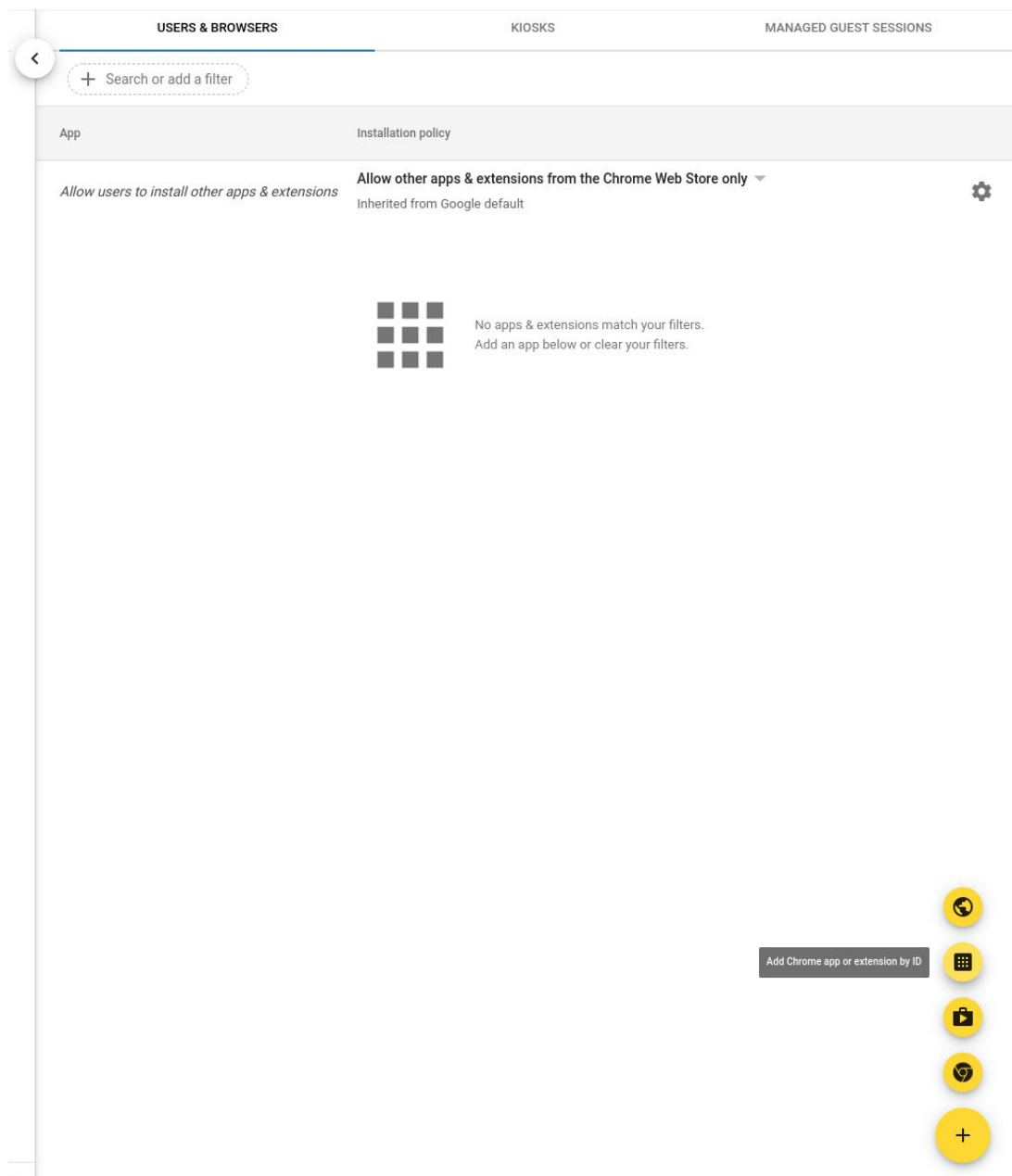
8. Select **Save (top right)** if necessary.

You have finished installing the Cisco Umbrella Chromebook client **extension**. Next, proceed with the next section to install the Cisco Umbrella Chromebook client **application**.

Part 2: Install the Cisco Umbrella Chromebook Client **Application**

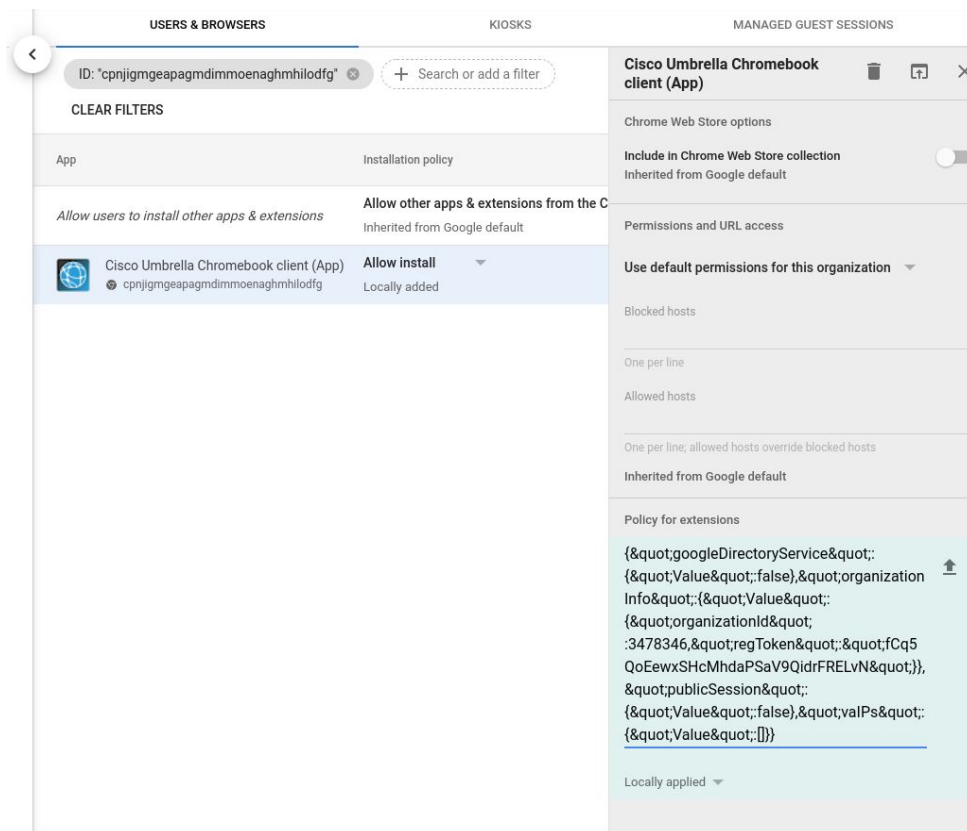
1. Repeat the process of adding an app or extension by ID





2. Search for the ID of the Cisco Umbrella Chromebook client application **cpnjigmggeapagmdimmoenaghmhilodfg** (Searching by name will not work.)
3. Select **Force Install**.
This ensures that Chromebook users in the selected Organization Unit cannot remove or disable the application.
4. Copy the JSON configuration below into the 'Policy for extensions' on the right hand side.

```
{"googleDirectoryService":{"Value":false},"organizationInfo":{"Value":{"organizationId":3478346,"regToken":"fCq5QoEewxSHcMhdaPSaV9QidrFRELvN"}}, "publicSession":{"Value":false,"valPs":{"Value":[]}}
```



5. Select **Save** (top right).

You have finished installing the Cisco Umbrella Chromebook client application.

Part 3 [Optional] Installing Cisco Umbrella Root CA

Cisco Umbrella highly recommends the following:

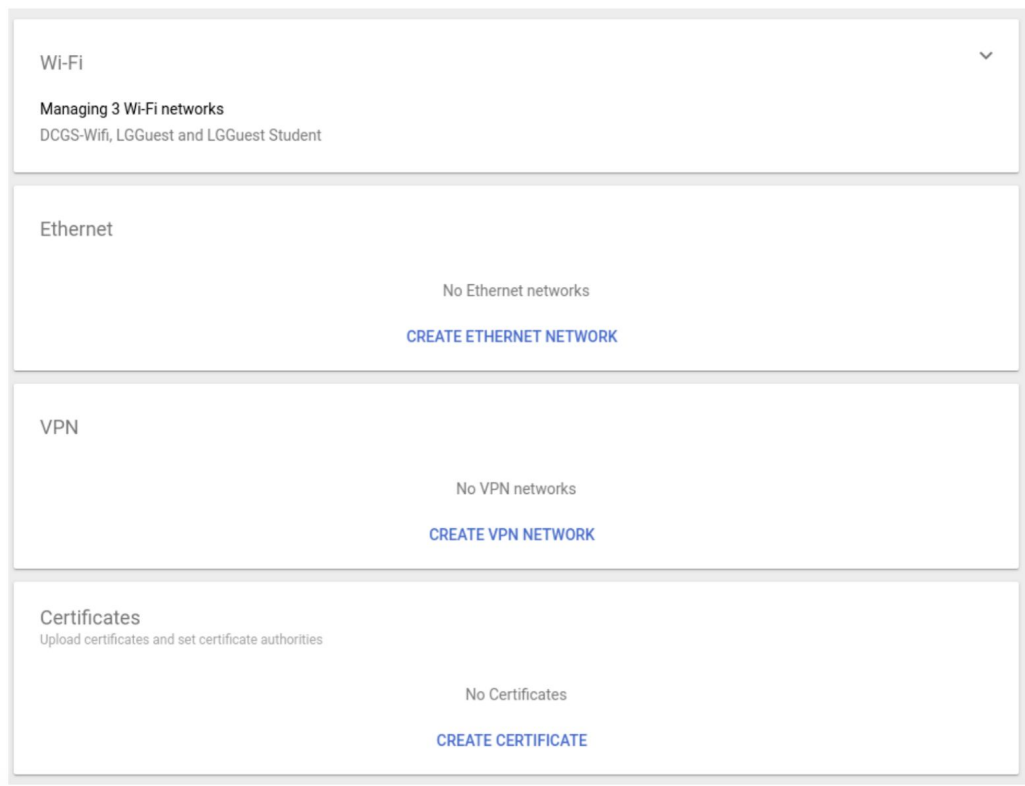
- In order to avoid certificate errors when accessing the block page, you must install the Cisco Umbrella root certificate on your Chromebooks. For more information on how to deploy certificates, see [Google's documentation](#) and use the attached Root CA to be uploaded.

The Umbrella root certificate to link your device to the DfE Block page can be downloaded from <https://bit.ly/2zr2gM8>

Follow these instructions to deploy the Cisco Umbrella Root CA to your Chrome devices:

1. Head to <https://admin.google.com>.
2. Click **Devices**.

- On the left, click **Networks**.
- Click **Certificates > Create Certificate**.



- Give the certificate a name
- Choose the certificate file to upload and click Upload.
- In the '**Certificate authority**' section click '**Chromebook**'

Add certificate

Certificate
Applied at yourcloudschool.org

Name
Cisco Umbrella

File attached
Cisco_Umbrella_Root_CA.cer X

Issued to: Cisco Umbrella Root CA, Cisco
Issued by: Cisco Umbrella Root CA, Cisco
Issue date: 28 June 2016
Expiry date: 28 June 2036

Certificate authority

Use as a certificate authority for the following

⚠ Multiple sign-in will be disabled for users where SSL-inspecting certificates are in effect

ℹ HTTPS security may be severely compromised if the private key portion of this certificate isn't stored securely.

☐ Android
☒ Chromebook
☐ iOS
☐ Imprivate app on Chromebooks

ℹ You need to enable advanced mobile management to apply the iOS settings. [ENABLE ADVANCED](#)

ADD

8. Click **Add** to confirm.
9. After installing the browser extension and Application for the first time, test it by going to internetbadguys.com on the Chromebook. A Cisco Umbrella filtering page should appear. It may take a number of minutes after installing the browser extension and app before the blocking comes into effect.

Removing the Umbrella clients from the Chrome Devices

Should you wish to remove Umbrella from the Chrome devices, please follow the instructions below.

1. Follow steps 1 - 5 from Part 1 of this guide
2. Click on both the app and extension and click the bin icon in the right hand sidebar.

