

APP INSTALLATION ON HL2

These are step by step instructions to install a Hololens application on Hololens 2 headset via Device Portal. To achieve this, you will need the app installer file of your application and a Hololens 2 device with enabled Developer mode and access to Device Portal. If your Hololens 2 device already has Developer mode enabled and you can access Device Portal skip to step Nr.3.

Step Nr. 1 – Enable developer mode on Hololens 2.

1. Power on your Hololens 2.
2. Go to the Main Menu.
3. Go to the settings.
4. Select the Update menu item.
5. Select For developers menu item.
6. Enable Developer mode.
7. Scroll down and enable Device Portal. (Microsoft, 2022)

If you are in multi-user and not an admin, the ability to enter Developer Mode may be greyed out. Please ensure that you are an admin on the device.

Step Nr. 2 – Access Device Portal on your computer.

1. Find your Hololens 2 IP address. There are three possible ways on how to do this:
 - a) Going to Settings > Network & Internet > Wi-Fi > Advanced Options.
 - b) Going to Settings > Network & Internet and selecting Hardware properties.
 - c) Using the "What's my IP address?" voice command.
2. From a web browser on your PC, go to

`https://<YOUR_HOLOLENS_IP_ADDRESS>`

The browser will warn you either about security certificate or your connection not being private. For now, you can ignore those and proceed to the page by choosing Advanced in Chrome, Edge or Firefox, Help me understand in Opera GX (Figure 1).

Figure 1. Warning before accessing the Device Portal in Opera GX browser.

The first time you connect to the Device Portal on your HoloLens, you will need to create a username and password.

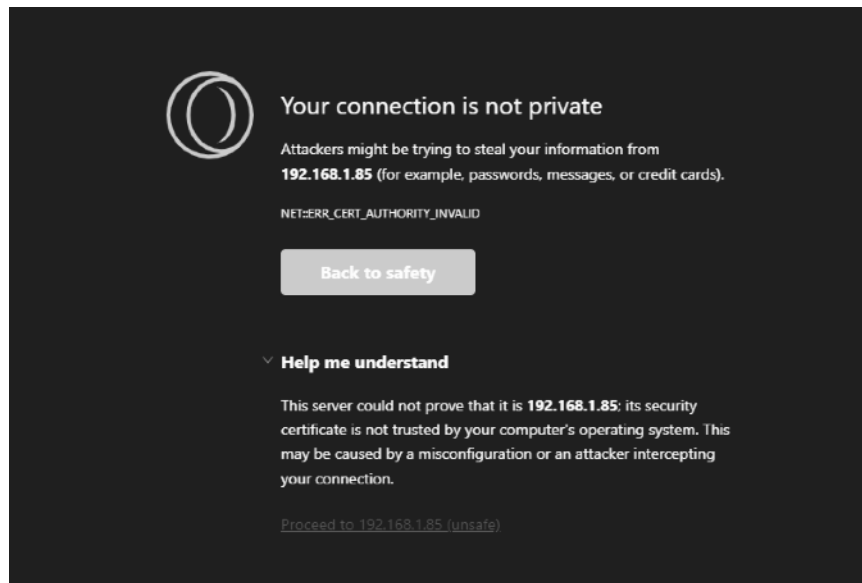
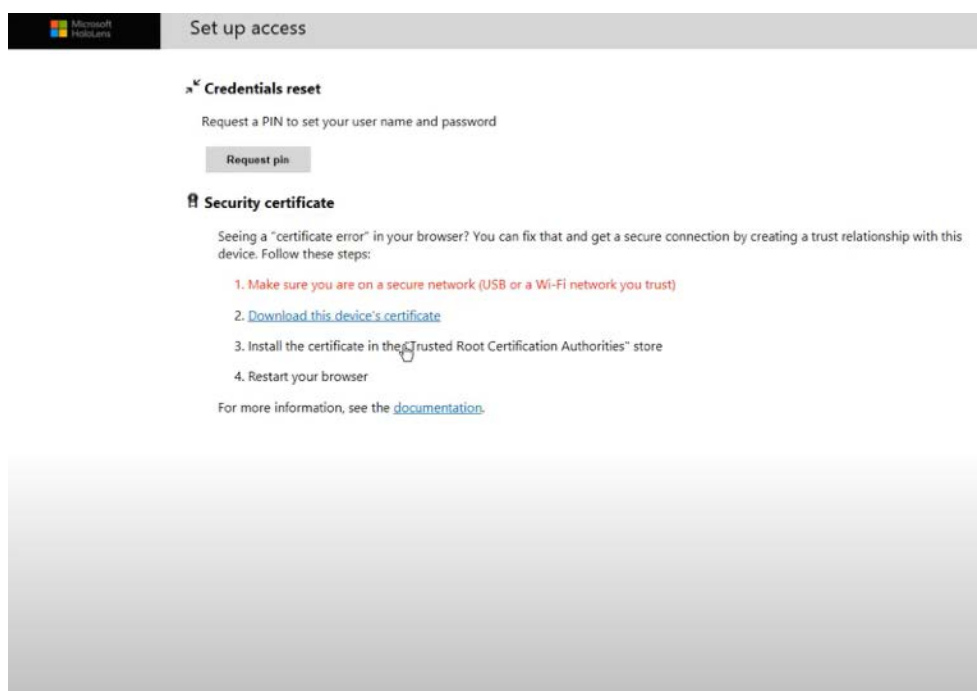


Figure 2. First time setup for Device Portal (Microsoft, 2022).

3. Select or tap Request pin and look at the HoloLens display to get the generated PIN.
4. Enter the PIN in the PIN displayed on your device textbox.
5. Enter the username you will use to connect to the Device Portal. It does not need to be a Microsoft Account (MSA) name or a domain name.
6. Enter a password and confirm it. The password must be at least seven characters in length. It does not need to be an MSA or domain password.
7. Click Pair to connect to Windows Device Portal on the HoloLens. (Microsoft, 2022)

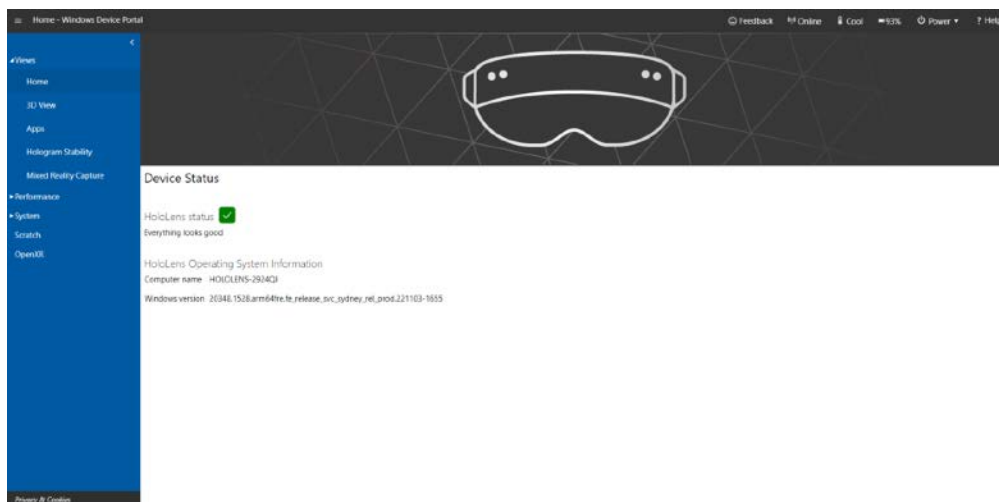


Step Nr. 3 – Install your application via Device Portal

1. In Device Portal go to Views > Apps.

Figure 3. Device Portal.

2. If you already have the app installed with the same version number uninstall it by selecting the app in the Installed apps dropdown and clicking Remove.
3. Then select the application package by clicking browse and searching for your installation folder reeb_urp_1.0.0.0_ARM64_Test on your computer.
4. Select reeb_urp_1.0.0.0_ARM64.appx.
5. If you have not installed the application, previously check Allow me to select optional packages
6. Click Next
7. Click Browse button again and go to Dependencies>ARM64 and select the appx inside it.
8. Click Install and wait for the installation to complete. The app is now on your Hololens 2 device.



List of resources

1. Microsoft. (2022). Using the Windows Device Portal.

Available: <https://learn.microsoft.com/en-us/windows/mixed-reality/develop/advanced-concepts/using-the-windows-device-portal>