

Connecting Your Dremel to the Polar Cloud

Updated: Mar 25, 2022

By: Van Morris

Compatible with models:

Dremel 3D40

Dremel 3D45



The Polar Cloud is a cloud platform that makes sure you have access to your 3D printer, no matter where you are. View the camera, start/stop or pause a print, and more. The Dremel's Linux processor can run the Polar Cloud Software natively, so there's no need for a dedicated computer or Raspberry Pi.

1. Pre installation checks

- Unpack your Dremel, put it on a stable surface, and connect it to a reliable power source.
- Add the Dremel to your network (via wifi or ethernet).
- Update your printer firmware to the latest available, using the Printer's LCD.
- Visit the Polar Cloud at <https://polar3d.com/> and sign in using one of the providers.
- Click your name in the top right corner, click "Cloud Account" and scroll down to find your username and pin. Write these down or make note of this screen for later.

2. Connect your printer to the network

- Tools > Network** > {Choose your connection method or plug in an ethernet cord}
- See if there are any firmware updates available by going to **Tools > Updates**

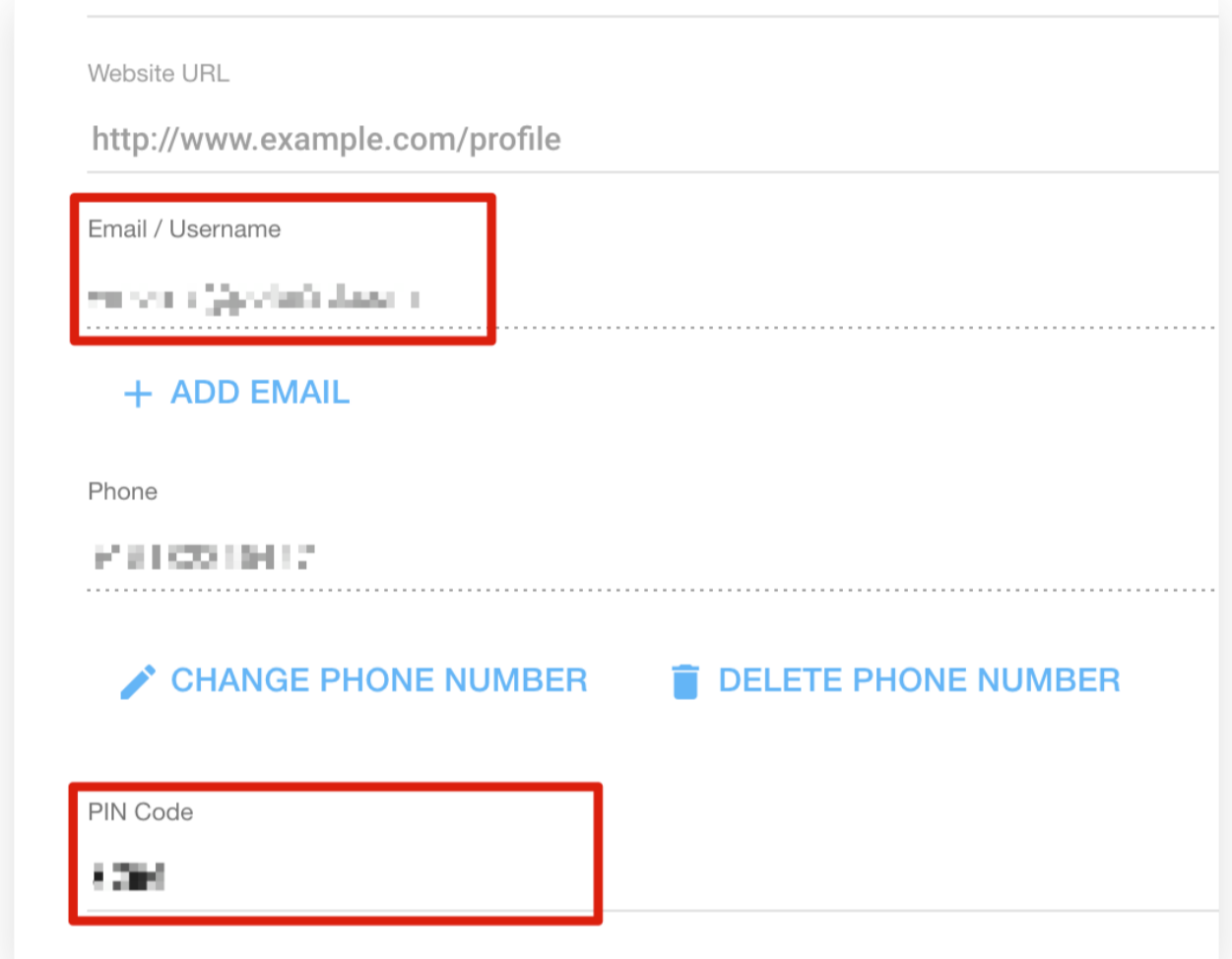
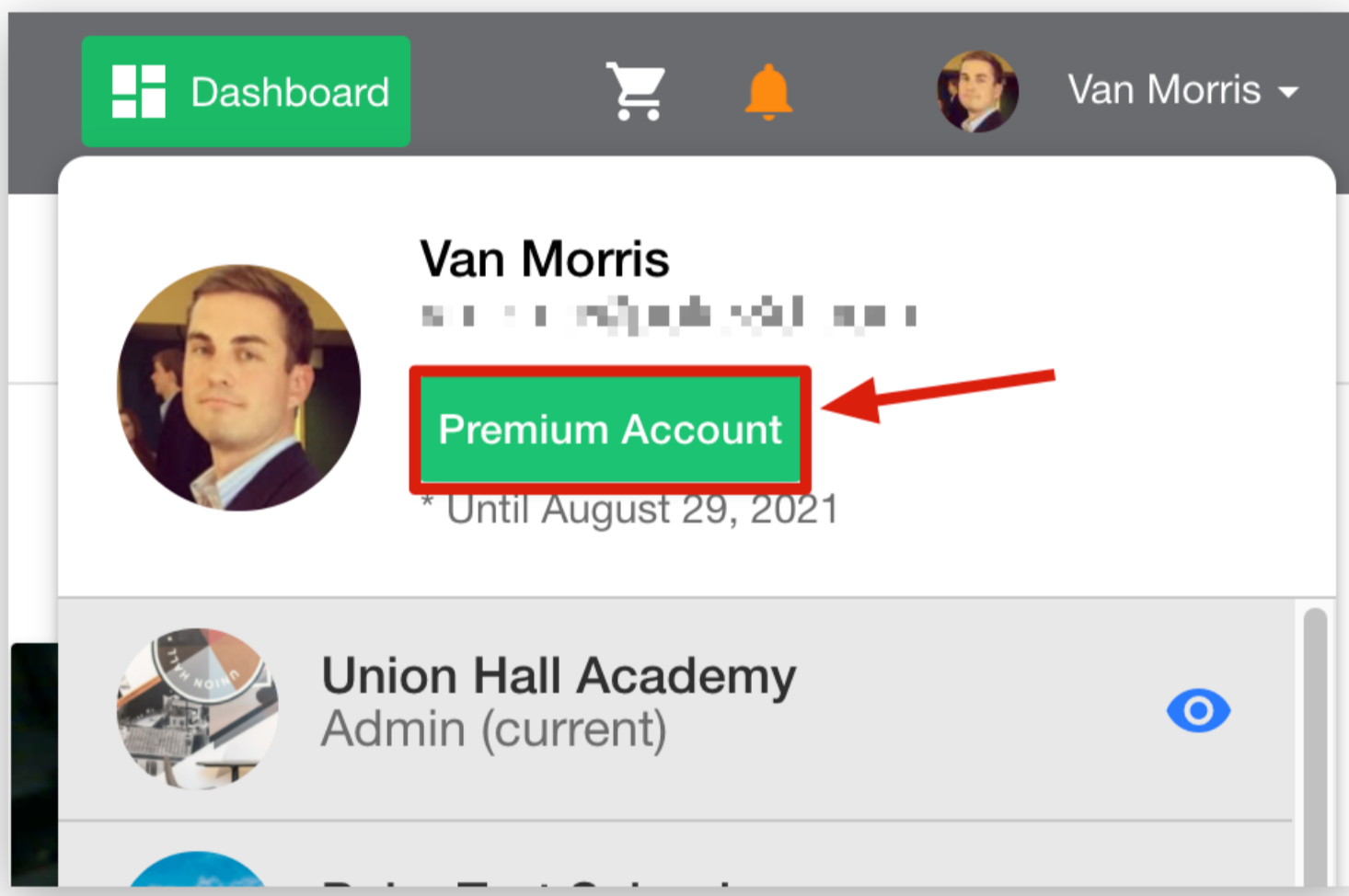
Note: On-screen steps may vary slightly for the 3D40.

3. Connect to the Polar Cloud

- Tools > Settings > Clouds > Polar Cloud

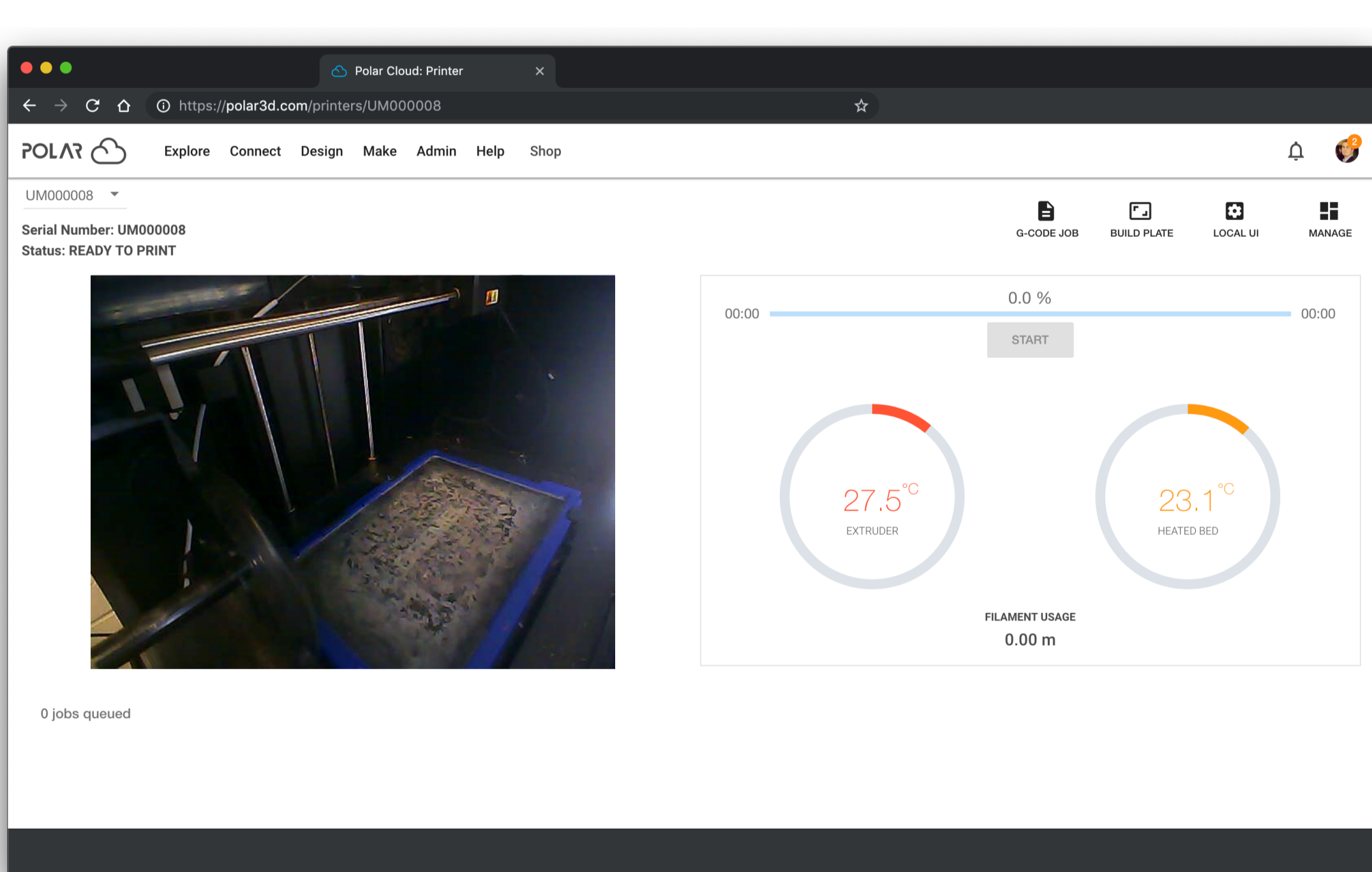


- If this is your first time registering the printer, it'll ask for your "**Username**". This is the Email Address that you use to log into the Polar Cloud. You can find it by clicking your name in the top right corner and clicking "Cloud Account" (step 1E above).
- Next, it'll ask you for your "**PIN**". Your PIN is the 4 digit code found on your account page as well.
- Click "Accept" and save the settings to connect to the cloud.



4. Success!

- Refresh the cloud, and you should see a new Dremel Printer under **Make > Printers** and on your Home Screen.



~. Dealing with Blocks & Issues

Error: The Email/PIN does not exist or the MAC address does not match the existing account.

Make sure that the email and PIN are both entered correctly. We have seen leading spaces (before the email address) create issues. Make sure your PIN is 4 digits. If you have double-checked these things, it's likely that someone else has already registered that printer before you. Contact support@polar3d.com for more help identifying blocks and issues.

Error: Unable to Connect / Can't Connect

If your printer firmware is up to date (some early 2017/2018 firmwares present this false-negative all too often), then this means your network is blocking the cloud connection. Work with your network admin staff to "Whitelist" the MAC address for the printer, so that it can open a websockets connection over HTTPS (port 443).

