Install and Run the EV Simulator (OCPP)

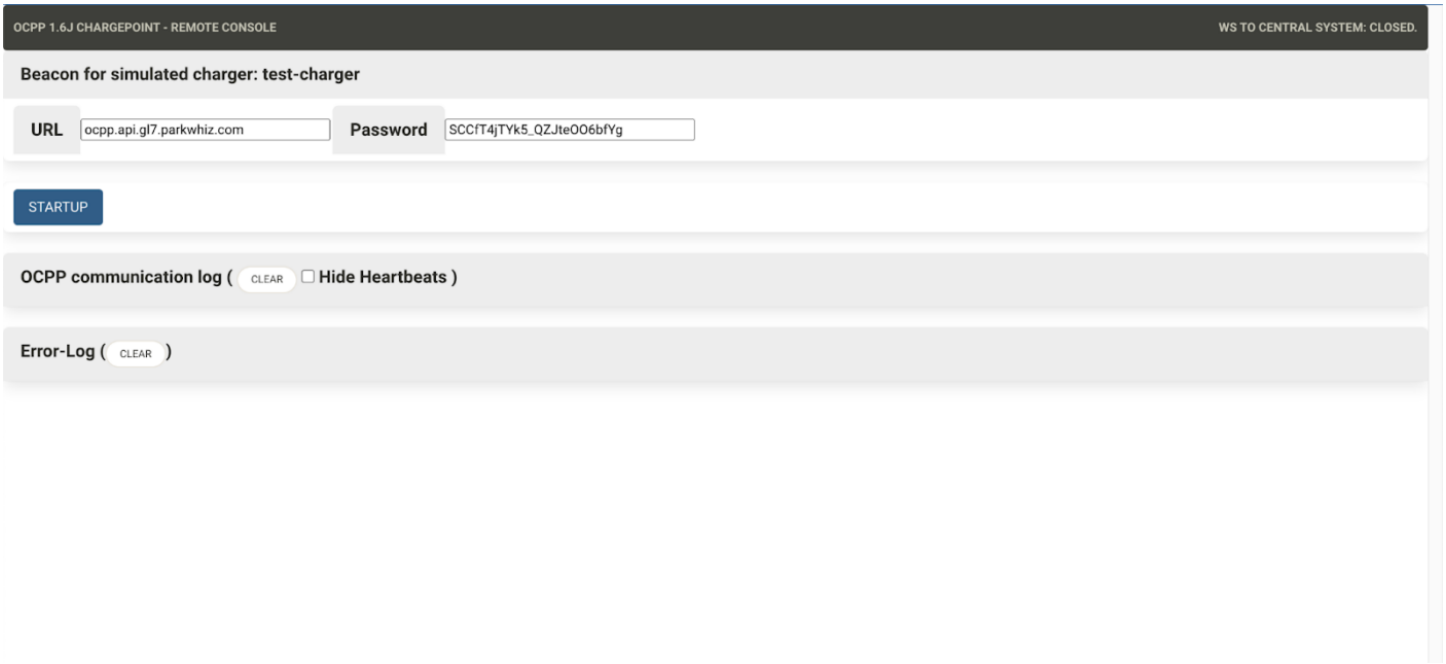
EV Charging · https://qa.flashparking.com/docs/install-and-run-the-ev-simulator-ocpp/

Step 1

How to Set up OCPP simulator to test EV things locally

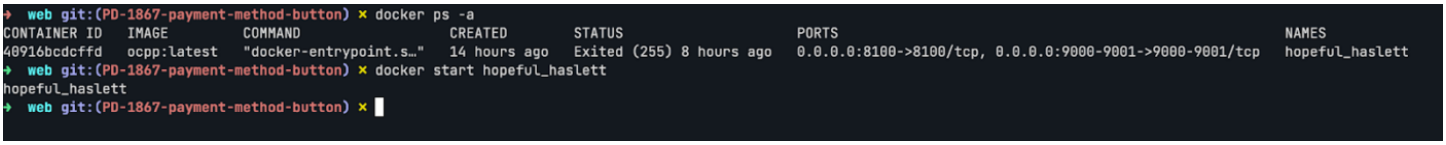
- Go to https://docs.docker.com/get-docker/ and download the installer for your computer's OS.
- Follow the instructions for your OS to interactively install and set up docker.
- Make sure Docker Desktop is running after. It installs as an application.
- Download this file from google drive: https://drive.google.com/file/d/1uJKhfapOdTzblZ8T4WnuZGApf7t6qJ1i/view?usp=sharing
- If you're on Mac:
  - Open a terminal
    - Cmd+space will bring up spotlight
    - You can search for "terminal" and then click on the result
- If you're on Windows:
  - Open a command prompt
    - https://grok.lsu.edu/article.aspx?articleid=18026&printable=y
- Copy and paste the following commands one at a time, hitting enter at the end of each
  - cd Downloads
  - docker load < ocpp.tar
  - docker run -d -p 9000:9000 -p 9001:9001 -p 8100:8100 ocpp:latest
- Now you can try going to http://localhost:9000/?cp=test-charger&password=SCCfT4jTYk5_QZJteOO6bfYg&url=ocpp.api.gl7.parkwhiz.com in your browser

and see if you see the following screen



- If the docker process stops and you need to restart it, you'll also need to start the container again. You can do this by:
  - docker ps -a
  - docker start container_name where container_name is the name of the container you see after the previous command

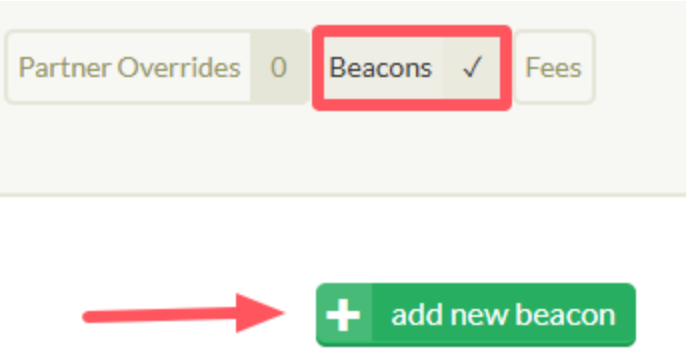
For example:



Step 2

Create an EV Charging Beacon

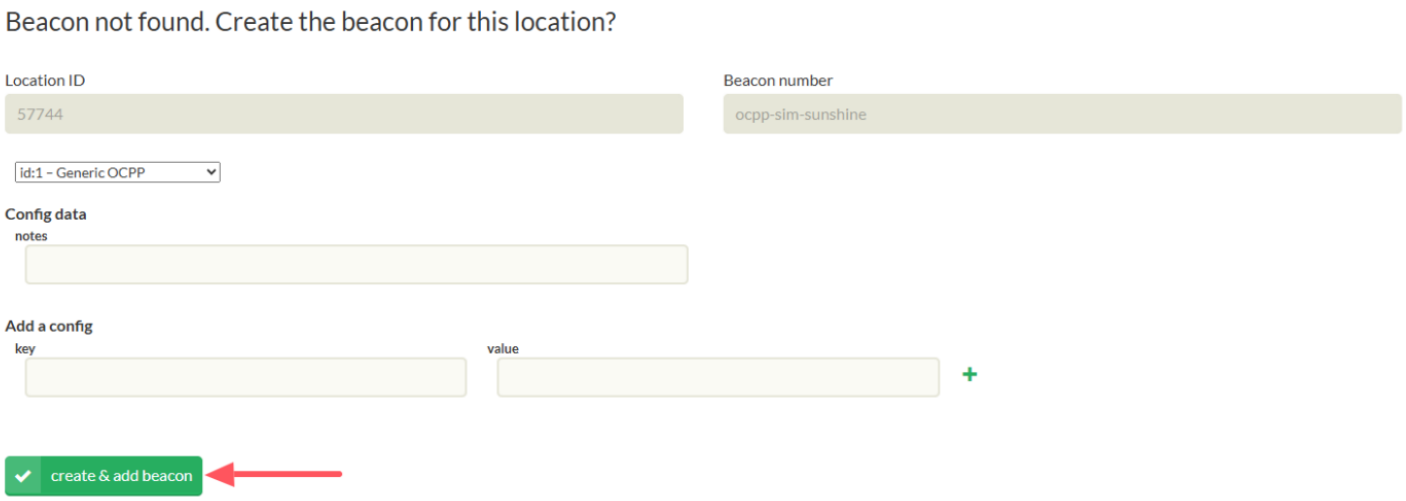
1. At the Location, go to **Beacons**.
2. **Add new beacon**.



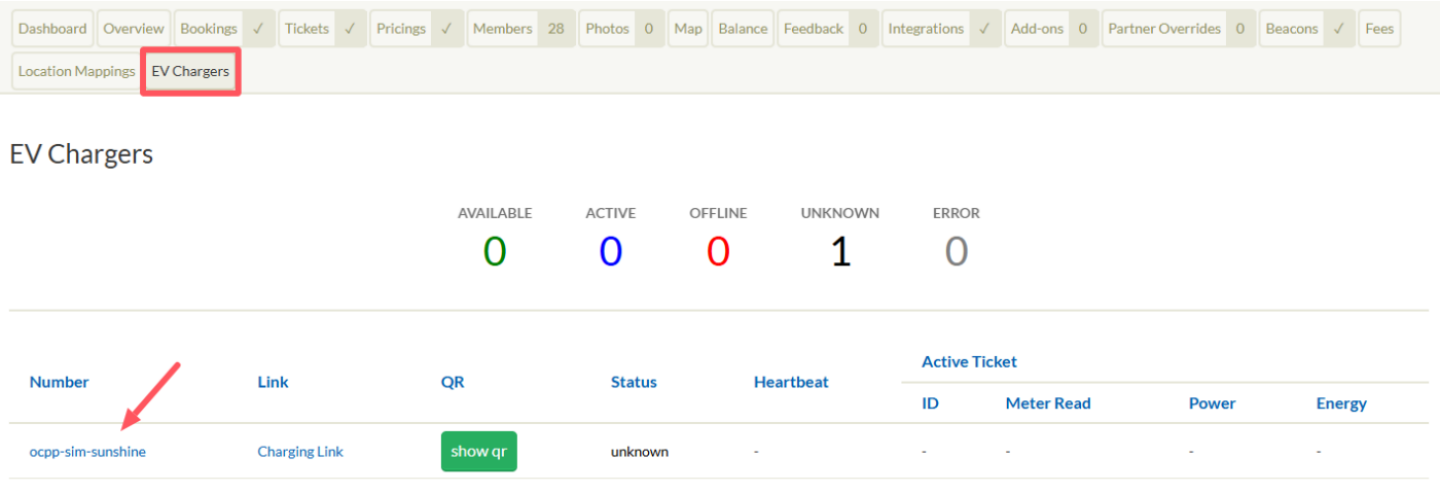
3. To create a new beacon, enter a **name**.



4. From the beacon type dropdown menu, select **ID:1 - Generic OCPP**. This is for simulator purposes.
5. Click on **Create & Add Beacon**.



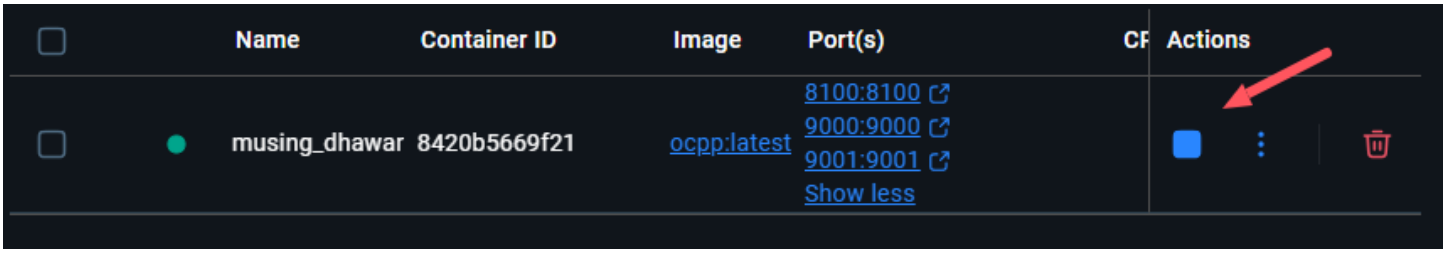
6. To see the created EV charger, navigate to the **EV Chargers** tab, where the newly created beacon will be visible.



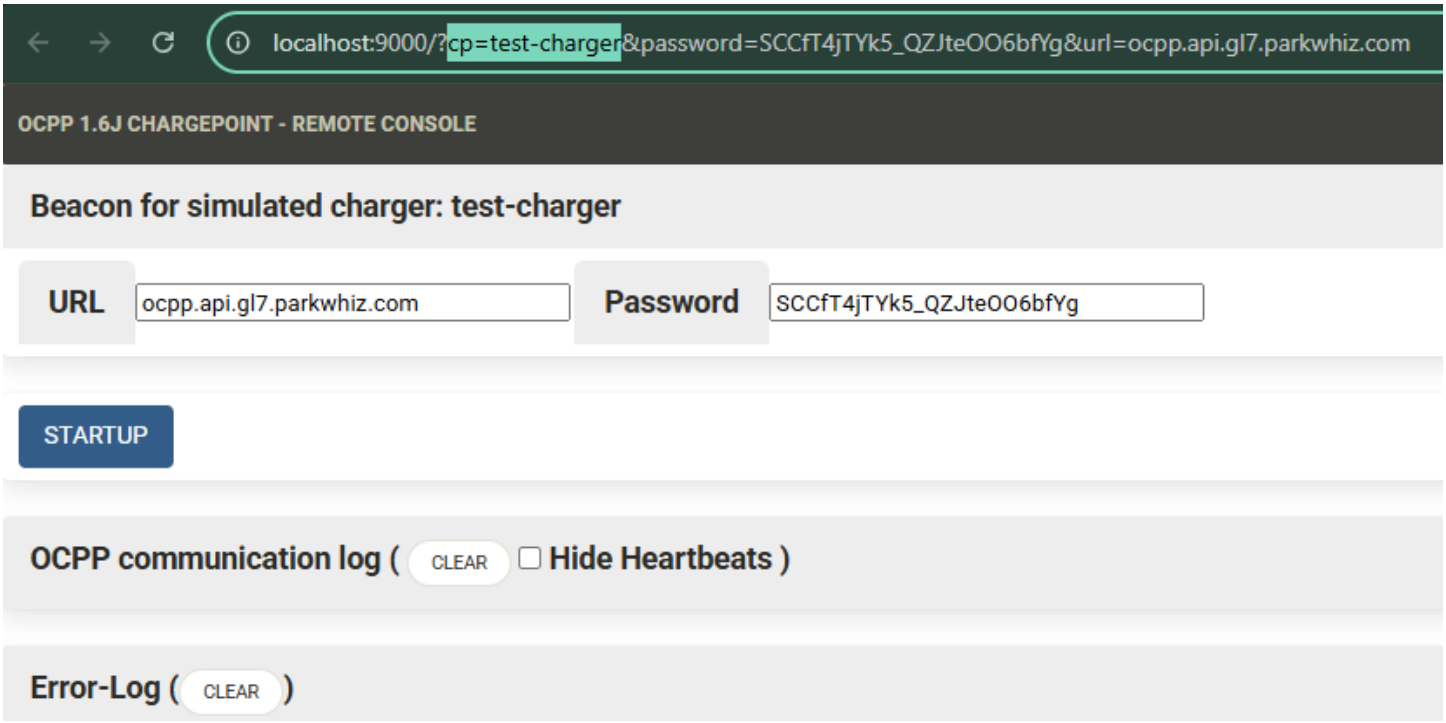
Step 3

Test the charging link

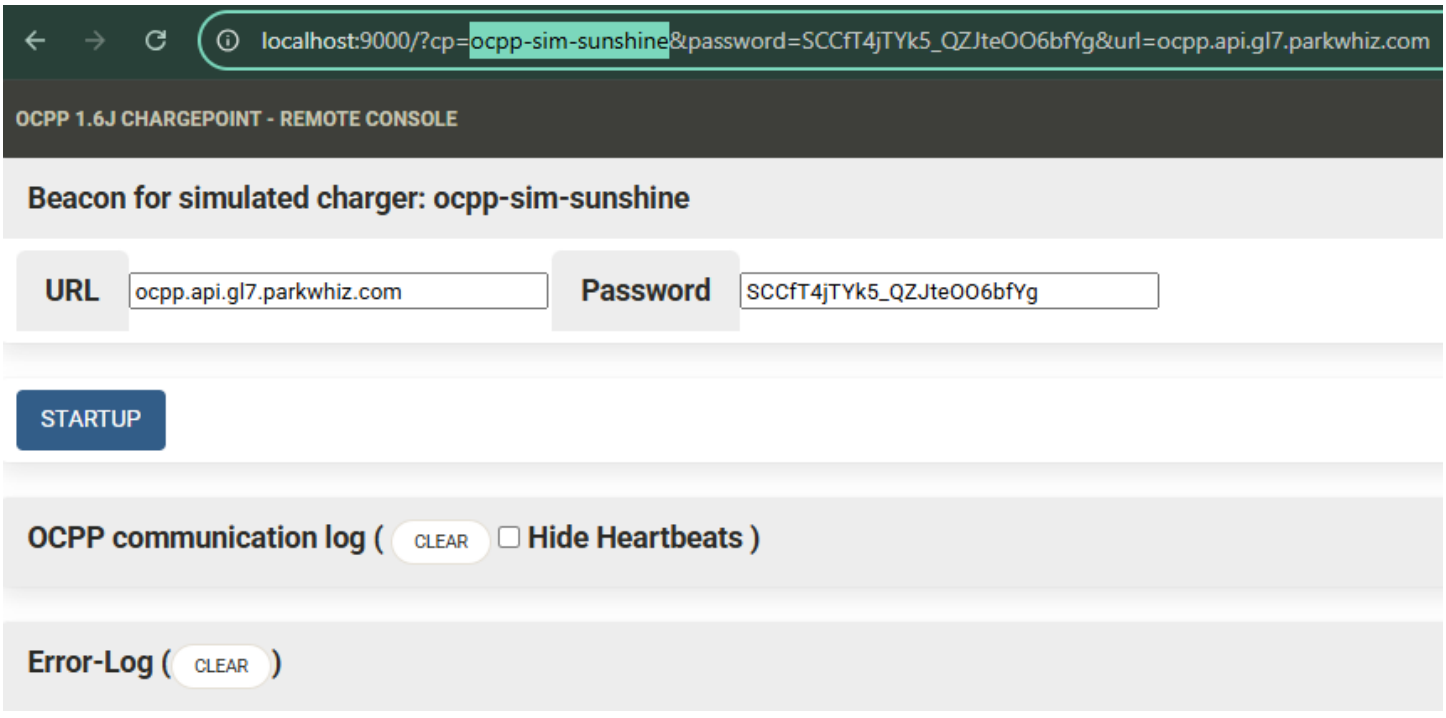
Ensure Docker is running first:



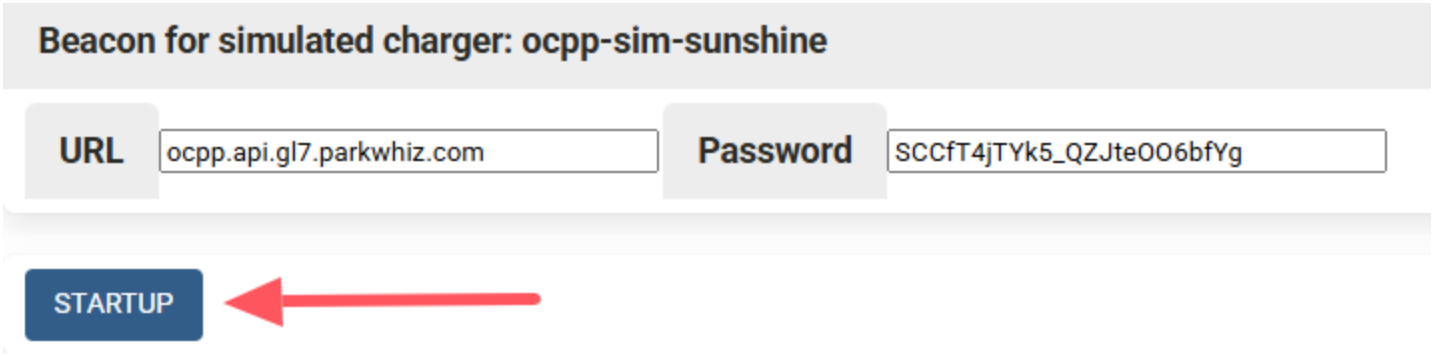
1. Open http://localhost:9000/?cp=test-charger&password=SCCfT4jTYk5_QZJteOO6bfYg&url=ocpp.api.gl7.parkwhiz.com



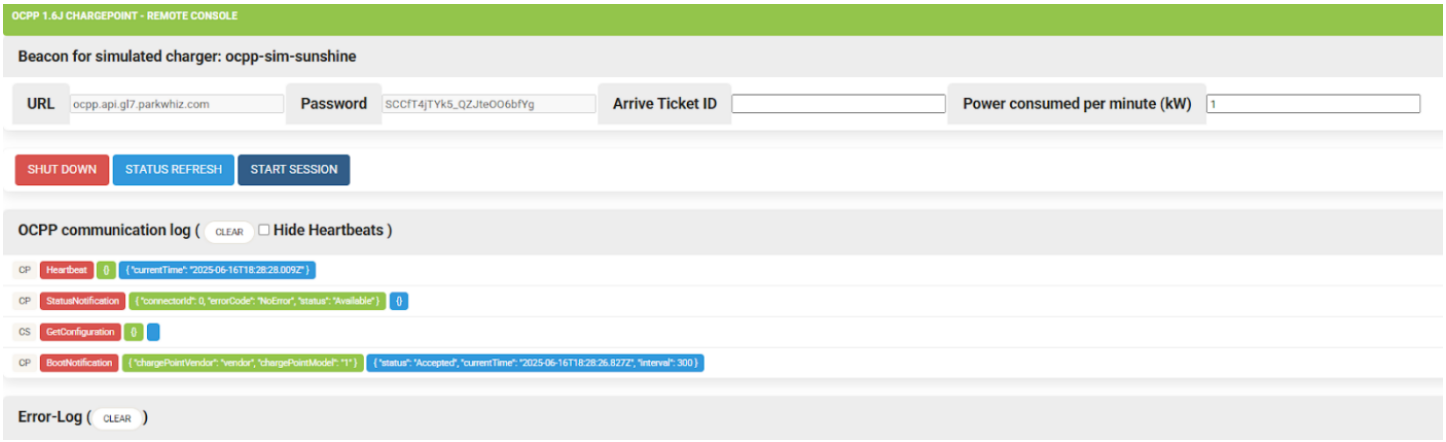
2. In the URL, change the **cp=test-charger** portion to the name given when the beacon was created. For example, it would become **cp=ocpp-sim-sunshine**. The updated URL will appear as shown in the image below.



3. Click on **Startup**



4. EV charger is now **Active**.



5. Confirm that the beacon is Active by going to the Beacons tab.



Step 4

Test the Charger

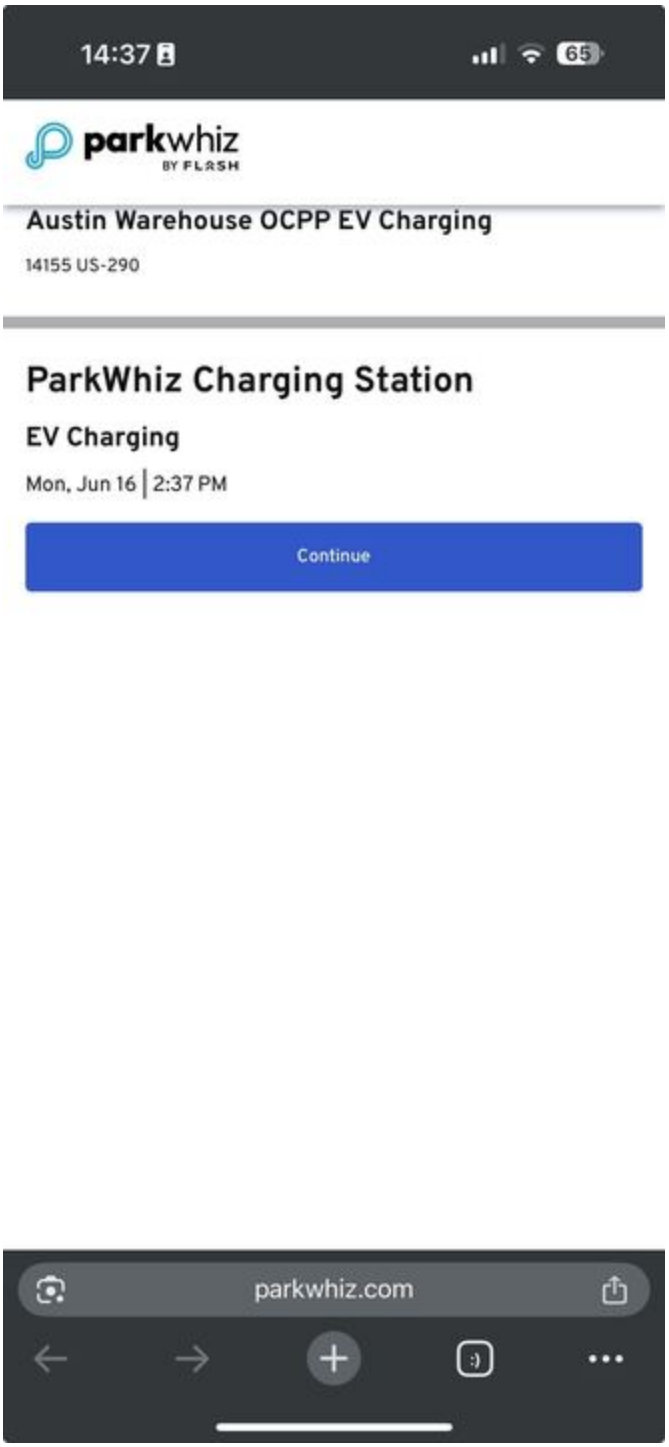
1. You can test the charger by clicking Show QR code in the EV chargers tab.

hide qr

ocpp-sim-sunshine Charging Link



2. Scan with your phone to start a session:


14:37
65
parkwhiz
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14155 US-290
ParkWhiz Charging Station
EV Charging
Mon, Jun 16 | 2:37 PM
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