localhost:5000 unavailable in macOS v12 (Monterey)

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I cannot access a web server on localhost port 5000 on [macOS v12](#) (Monterey) ([Flask](#) or any other).

E.g., use the built-in HTTP server, I cannot get onto port 5000:

```
python3 -m http.server 5000

... (stack trace)
File "/Library/Frameworks/Python.framework/Versions/3.9/lib/python3.9/socketserver.py",
line 466, in server_bind
self.socket.bind(self.server_address)
OSError: [Errno 48] Address already in use
```

If you have Flask installed and you run the Flask web server, *it does not fail on start.* Let's take the minimum Flask example code:

```python
# Save as hello.py in the current working directory.
from flask import Flask
app = Flask(__name__)
@app.route("/")
def hello_world():
    return "<p>Hello, World!</p>"
```

Then run it (provided you have Flask/Python 3 installed):

```
export FLASK_APP=hello
flask run
```

Output:

```
* Running on http://127.0.0.1:5000/
```

However, if you try to access this server (from a browser or with anything else), it is denied:

```
curl -I localhost:5000
HTTP/1.1 403 Forbidden
Content-Length: 0
Server: AirTunes/595.13.1
```

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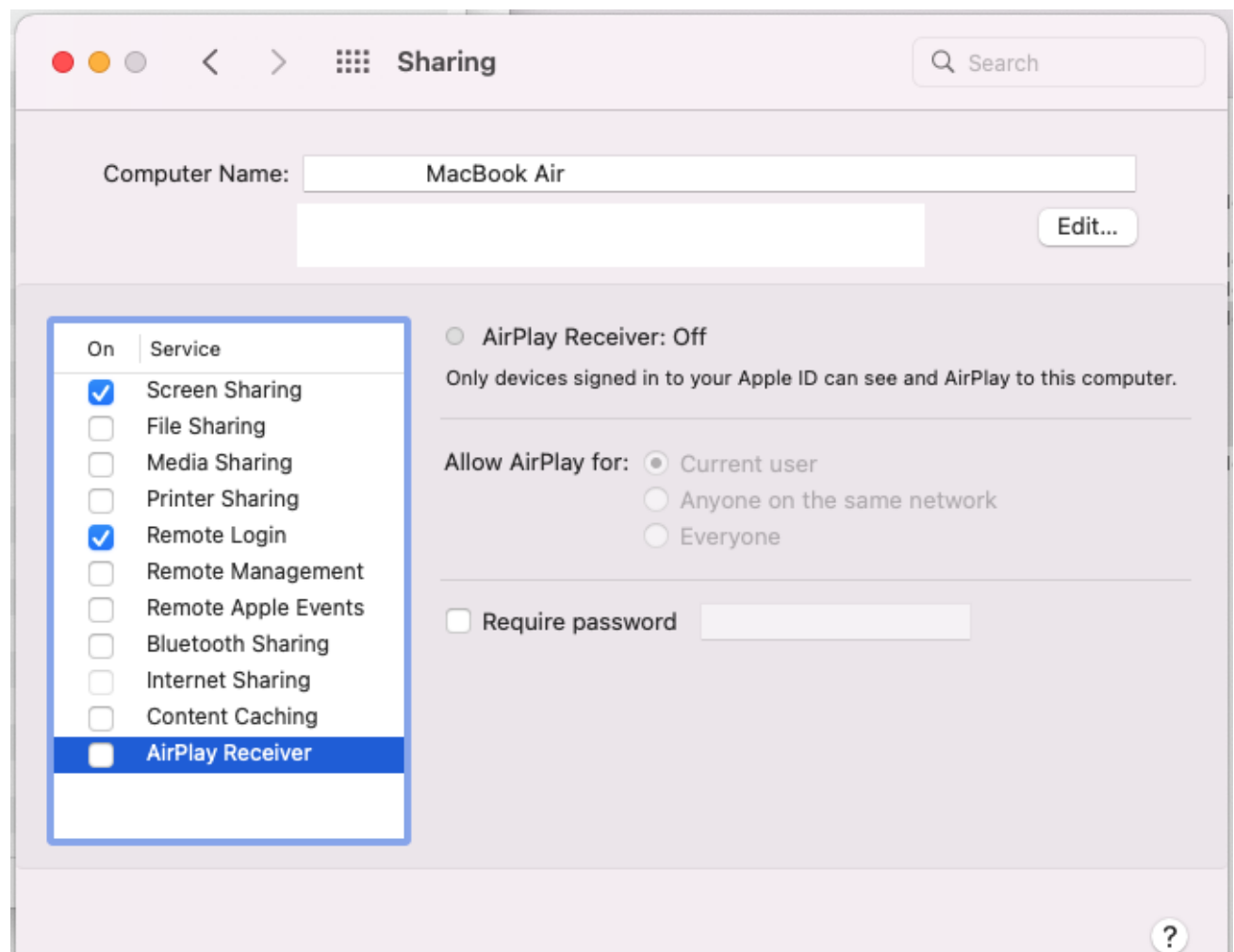
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macOS Monterey introduced [AirPlay Receiver](#) running on port 5000. This prevents your web server from serving on port 5000. *Receiver already has the port*.

You can either:

1. turn off AirPlay Receiver, or;

2. run the server on a different port (normally best).

Turn off AirPlay Receiver

Go to *System Preferences → Sharing → Untick Airplay Receiver*.

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https://stackoverflow.com/questions/69818376/localhost5000-unavailable-in-macos-v12-monterey/69829313#69829313   2/3

You should be able to rerun the server now on port 5000 and get a response:

```
python3 -m http.server 5000

Serving HTTP on :: port 5000 (http://[::]:5000/) ...
```

Run the server on a different port than 5000

It's probably a better idea to no longer use port 5000 as that's reserved for Airplay Receiver on macOS Monterey.

Just to run the server on a different port. There isn't any need to turn off Airplay Receiver.

```
python3 -m http.server 4999
```

or

```
export FLASK_APP=hello
flask run -p 4999
```

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edited Dec 8 '21 at 14:08   answered Nov 3 '21 at 17:33

Peter Mortensen   Nick

29.4k   21   97   124   **356**   1   4   2

How attentive you spotted and explained the root-cause: a system-reserved port for Airplay 😊 The `flask run -p <port>` solution was already suggested. Since question was not clearly raised, some research on "OSError: [Errno48]" and suggesting a link can do next time: similar question. – hc_dev Nov 18 '21 at 23:04
✎

Thanks! This helped me. I'm just curious how did you come across this? – Parth Jan 5 at 6:54