

# How to run local Utopia over LAN/connect from outside network

## Why




At times it may be helpful to connect to your local instance of Utopia from other devices to be able to debug/test:




- Mobile device
- Apply garbage
- Salesforce
- Other integrations

To name a few. Also, it just feels cool.


## How to setup Utopia over LAN

The key here is to set up IIS properly and then open whatever ports are needed on your firewall.

1. Lets first get your local IP
  1. Run command prompt
  2. Type *ipconfig*
  3. Copy and save your IPv4 Address
    -  and or type unknown
2. Inside of Visual Studios, click on the IIS Express dropdown arrow and select *Utopia Debug Properties*
  -  and or type unknown
3. Scroll down until you see App URL. Replace localhost with the saved IPv4 Address
  -  and or type unknown
4. Close the window
5. Find the .vs hidden folder of the Utopia solution and then go into Utopia\Config and open applicationhost.config
  1. For me it's C:\src\Utopia\Utopia\.vs\Utopia\config\applicationhost.config

6. Inside of applicationhost.config, find where it sets up it's bindings
  1. Usually around line 162
  2. Searching for binding and it should go straight to it
7. Duplicate the two lines that bind the two ports to localhost. Replace *localhost* with your saved IPv4 Address on those duplicated lines.
  -  and or type unknown
8. Next, open up the ports inside of your windows firewall
  1. You will need to open up port 44334 for both UDP and TCP
    - Actually not sure if you need both but I did just in case
    - In some instances you may need to open 57584 as well
      - I had to to be able to connect from the company mac via the desktop client (it was yelling at the not trusted certificate)
    - Allow the connection
    - Have Domain, Private, and Public all checked
    - Give it a meaningful name
    -  and or type unknown
9. **Close out** Visual Studio completely
10. Open Visual Studio as administrator
  -  and or type unknown
11. Finally, open Utopia and run it with IIS Express

## Note:

- If you get an error that looks like this
  -  and or type unknown
  - Then you need to shut down Visual Studio completely and relaunch it as administrator

# How to connect from outside network

This one is actually really simple. All you need to do is do some port forwarding. I'm not going to get into how to do this since each router is unique (basics is to log into the router and go to advanced).

## Note:

- To connect, make sure the device you're connecting from is NOT on the local network
- You'll need [your external IP](#)
  - Replace the internal IP with the external one on the connecting device

