

How to access my 127.0.0.1:8000 from Android tablet

Asked 11 years, 3 months ago Modified 1 year, 3 months ago Viewed 40k times Part of Mobile Development Collective

I am developing a webpage in Django (on my pc with Windows 7) and now I need to test some pages in tablet pcs. Suddenly the thought came if I can have an access to my localhost in Windows from Android tablet. Is that possible? I am in the same Wi-Fi connection in both devices at home.

I have samsung tab 2 10.1 with Android 4.0.4.

python android django localhost

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edited May 19, 2023 at 12:36

asked Jun 14, 2013 at 20:24

Dharman

32.8k

26

95

140

doniyor

37.6k

61

179

270

You can't access 127.0.0.1 from a different box. You will need to make sure your site is listening on your networked address on your LAN and not just localhost. – Joe Jun 14, 2013 at 20:25

@Joe, so i need to start my localhost with 0000 instead 8000? – doniyor Jun 14, 2013 at 20:26

0.0.0.0 (will listen on all interfaces). There is no need to change the port. But your server must already be doing that for you. Did you try accessing via the wireless-interface's ip (and port 8000)? – Anirudh Ramanathan Jun 14, 2013 at 20:27

Also, check firewall. – Najam Nov 20, 2019 at 0:49

12 Answers

Sorted by: Highest score (default)

So, there are a couple of issues it seems. The question most of the answers are addressing is "how do you connect to another server in your local network?" (or variants). There are two answers, you can use the computer's IP directly, or you can use the computer's name (you may need to append .local). For example, my computer is xavier.local.

The second issue is that you seem to be addressing is that runserver is not accessible via other computers on the network (this is your actual question). The reason is that by default Django's runserver will only acknowledge requests from the machine which is calling them. This means that the default settings would make it so that you would only be able to access the server from Windows (and they did this on purpose for security reasons). In order for it to listen to other requests you have two options:

```
runserver 192.168.1.101:8000
# Only handle requests which are made to the IP address 192.168.1.101
```

Or (and this is easier when dealing with more than one environment):

```
runserver 0.0.0.0:8000 # handle all requests
```

So, if your IP address is 192.168.1.101:

```
runserver # only requests made on the machine will be handled
runserver 127.0.0.1 # only requests made on the machine will be handled
runserver 192.168.1.101 # handles all requests (unless IP changes)
runserver 192.168.1.100 # does not handle any requests (wrong IP)
runserver 0.0.0.0 # handles all requests (even if the IP changes)
```

I do think it important to note that 0.0.0.0 is realistically not a security question when dealing with a local, development machine. It only becomes a significant problem when working on a large app with a machine which can be addressed from the outside world. Unless you have port forwarding (I do), or something wonky like that, you should not be too concerned.

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edited Jun 14, 2013 at 20:56

answered Jun 14, 2013 at 20:50

cwallenpoole

81.6k

26

131

172

after using runserver 0.0.0.0:8000 I still cant access the server from an android phone. Accessing 192.168.1.101:8000 directly from the dev machine (the one hosting the server) works though. I am on Max OSX El Captain – Anupam Dec 26, 2017 at 16:45

runserver 0.0.0.0:8000 worked for me only after adding the IP address of my PC to the allowed hosts in Django's settings.py. – arudzinska Dec 1, 2018 at 17:57

@Anupam did you find any work around for your problem? I'm also having same issue. – Eswar Aug 29, 2020 at 14:11

@Eswar if I remember correctly, it did work but intermittently. I think I used runserver 0:8000 and modified ALLOWED_HOSTS in settings.py to get it to work. – Anupam Aug 31, 2020 at 11:48

Though this thread was active quite a long time ago. This is what worked for me on windows 10. Posting it in details. Might be helpful for the newbies like me.

1. Add ALLOWED_HOSTS = ['*'] in django settings.py file

2. run django server with python manage.py 0.0.0.0:YOUR_PORT. I used 9595 as my port.

3. Make firewall to allow access on that port:

• Navigate to control panel -> system and security -> Windows Defender Firewall

• Open Advanced Settings, select Inbound Rules then right click on it and then select New Rule

• Select Port, hit next, input the port you used (in my case 9595), hit next, select allow the connections

• hit next again then give it a name and hit next for the last time.

4. Now find the ip address of your PC.

• Open Command Prompt as administrator and run ipconfig command.

• You may find more than one ip addresses. As I'm connected through wifi I took the one under Wireless LAN adapter WiFi. In my case it was 192.168.0.100

• Note that this ip may change when you reconnect to the network. So you need to check it again then.

5. Now from another device (pc, mobile, tablet etc.) connected to the same network go to ip_address:YOUR_PORT (in my case 192.168.0.100:9595)

Hopefully you'll be good to go !

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edited Jun 20, 2020 at 9:12

answered Feb 3, 2018 at 6:34

Community Bot

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Incredible answer ! – Boris Dedejski Dec 3, 2019 at 20:20

Thanks for this answer. It almost worked for me, I can see my phone tryin to load it, but it unfortunately gets stuck and doesnt load. I followed your procedur exactly, confused why it isn't working – amy Jul 29, 2020 at 9:21

@amy did you find solution? – cikatomo May 16, 2022 at 21:09

@cikatomo This was almost 2 years ago. I remember I did manage to get it working in the end but can't remember if it was this specific solution or slight modification - sorry I couldn't give you a definitive answer – amy May 19, 2022 at 21:48

@amy thank, I couldn't make it work normally, but I've found simple mitmproxy tool which acts like reverse proxy – cikatomo May 19, 2022 at 22:03

You can find out what the ip address of your PC is with the ipconfig command in a Windows command prompt. Since you mentioned them being connected over Wifi look for the IP address of the wireless adapter.

Since the tablet is also in this same WIFI network, you can just type that address into your tablet's browser, with the :8000 appended to it and it should pull up the page.

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answered Jun 14, 2013 at 20:29

bojangler

544

2

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are you positive your web server is running correctly? If you type 127.0.0.1:8000 into your PC browser does it show up? – bojangler Jun 14, 2013 at 20:34

i solved the issue with starting my server with specific ip. /manage.py runserver 193.140.209.49:8000 – doniyor Jun 14, 2013 at 20:38

Have you tried viewing the page from another computer? One which is not the tablet? If it works from another computer but not from the tablet that helps to isolate where the problem is. If it also does not work from another computer, it could be a firewall setting on your Windows PC. – bojangler Jun 14, 2013 at 20:38

Probably worth mentioning, for future reference, that port forwarding is one of the options to try as well, and the firewall on the PC hosting the server should be disabled while doing this. That way, the phone can actually connect, otherwise it will display an endless loading page, and then fail due to connection timeout – Emilian Cebuc Aug 26, 2018 at 22:02

127.0.0.1 is a loopback address that means, roughly, "this device"; your PC and your android tablet are separate devices, so each of them has its own 127.0.0.1. In other words, if you try to go to 127.0.0.1 on your Android tab, it's trying to connect to a webserver on the Android device, which is not what you want.

However, you should be able to connect over the wifi. On your windows box, open a command prompt and execute ipconfig. Somewhere in the output should be your windows box's address, probably 192.168.1.100 or something similar. You tablet should be able to see the Django server at that address.

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edited Aug 16, 2021 at 14:13

answered Jun 14, 2013 at 20:29

dken

3,117

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DevOfZot

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need to know the ip address of your machine .. Make sure both of your machines (tablet and computer) connected to same network

192.168.0.22 - say your machine address

do this :

192.168.0.22:8000 -- from your tablet

this is it !!!

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answered Jun 14, 2013 at 20:30

Manuj Rastogi

347

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11

this solution doesn't work. The browser freeze. You need to specify a ip address – ttusfx Sep 30, 2014 at 23:51

If both are connected to the same network, all you need to do is provide the IP address of your server (in your network) in your Android app.

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answered Jun 14, 2013 at 20:26

smk

5,772

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41

you mean, 127.0.0.1:8000 ? – doniyor Jun 14, 2013 at 20:27

No, 127.0.0.1 cannot be accessed from another device. IP address of your machine on your network. You can get it using ipconfig or ifconfig. – smk Jun 14, 2013 at 20:28

this solution doesn't work, at least with me. Although, if I specific do manage.py runserver <mymachine ip>:myport works – ttusfx Sep 30, 2014 at 23:52

Tested using easy EasyPHP DevServer 14.1. The trick is you must first add your local ip address to the Apache server to listen to it.

Right click on the tray icon, go to "Configuration" -> "Apache" in the "httpd.config"

```
# Change this to Listen on specific IP addresses as shown below to
# prevent Apache from glomming onto all bound IP addresses.
#
#Listen 12.34.56.78:80
Listen 127.0.0.1:80
Listen 192.168.0.201:80 <-- ADD THIS LINE
```

Then go to your Control Panel and deactivate your Windows Firewall or add your Smartphone/Tablet Ip Address to the exception.

That's it. I hope it helps.

The IP Address 192.168.0.201 may be different from yours. 192.168.0.X

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answered Apr 5, 2015 at 23:52

Tower Jimmy

567

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Try this python manage.py runserver then connect both tablet and system to same wifi and browse in the address eg: python manage.py runserver 192.168.0.100:8000 In tablet type that url in adress bar

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answered May 15, 2020 at 9:47

Jayas P Jacob

13

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In my case I was required to disconnect and reconnect to the same network (both phone and pc), after changing the firewall settings.

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answered Dec 19, 2022 at 19:32

Saurabh Mahra

352

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Same as @foysal, but I had Visual studio code and python Forbidden in inbound rules, so I marked them available for all connections

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answered May 1, 2023 at 14:52

Tina Zebic

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As it's currently written, your answer is unclear. Please edit to add additional details that will help others understand how this addresses the question asked. You can find more information on how to write good answers in the help center. – Community Bot May 2, 2023 at 14:04

I've struggled with this problem myself, and I couldn't figure out what it was, since it worked perfectly on my iPhone, I decided to look into the problem and find a quick solution. My local machine is a Mac OSX 10.10+, one option would have been to start an Apache server, but that's super unhandy - changing the DocumentRoot every time you want to check something quickly on your Android device. Besides that, changing the DocumentRoot is a pain in the a** on Mac OSX 10.10.

If you want to use:

```
python -m SimpleHTTPServer
```

on your Android, do this:

```
sudo python -m SimpleHTTPServer [ANY PORT YOU WANT, BUT NOT 8000]
```

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edited May 19, 2023 at 12:36

answered Oct 16, 2015 at 10:25

Dharman

32.8k

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95

140

pit tanenbaum

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I had the same problem on android and emulator and this is how i solved it

1) Make sure run server on 0.0.0.0 this make accessible on emulator and android devices

in terminal: python manage.py runserver 0.0.0.0:8000

in PyCharm: edit configuration -> put 0.0.0.0 in Host

2) Find PC IP address with ipconfig command and copy IPV4

3) Add ipv4 to ALLOWED_HOST in django settings.py

4) IF YOU USE WINDOW make sure disable windows defender firewall

Update your Firewall settings

Windows Defender Firewall is not using the recommended settings to protect your computer.

What are the recommended settings?

Private networks Not connected

Guest or public networks Connected

Networks in public places such as airports or coffee shops

5) double check that your computer and your device(mobile) using the same WIFI

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answered Jul 3, 2023 at 10:43

Radesh

13.5k

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53

65

