

Software Installation Tutorials

LOCAL HOST

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Microsoft
Windows

IIS

Internet
Information
Services



Local Host

Testing a Web Service Locally

How do you set up a local testing server?

- Local files versus remote files
- The problem with testing local files
- Running a simple local HTTP server
- Running server-side languages locally

Browser (Client)



Client

Server

Everything

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Desktop Python Client Program

```
client.py - Poznámkový blok
Soubor Úpravy Formát Zobrazení Nápověda
import socket

target_ip = "127.0.0.1"
target_port = 80

c = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
c.connect((target_ip, target_port))
response = c.recv(1024)
print "Server response: %s" % response
print "Sending HELLO message"
c.sendall("HELLO")
print "Sent"
```

Desktop Server Program

```
Terminal - bash - 80x24
Last login: Sun Feb  9 10:04:49 on ttys000
vishwarajs-Mac-Pro:~ vishwaraj$ python
Python 2.6.1 (r261:67515, Jul 7 2009, 23:51:51)
[GCC 4.2.1 (Apple Inc. build 5646)] on darwin
Type "help", "copyright", "credits" or "license" for more information.
>>> import socket
>>> sock=socket.socket(socket.AF_INET, socket.SOCK_STREAM)
>>> sock.bind(("127.0.0.1", 8000))
>>> sock.listen(2)
>>> (client,(ip,port))=sock.accept()
```



The "loopback" address

- There is a special range of IP addresses that can always be used to connect a computer to itself, regardless of what its IP address is.
- These are called "**loopback**" addresses, the most common of which is **127.0.0.1**.
- So if you want to test connecting two programs on your own machine, you can use **127.0.0.1** to do that. (This also explains T-shirts and bumper stickers that you may have seen that say "There's no place like **127.0.0.1**.")
- Note that the "loopback" address has its own name: **localhost**. The name localhost always resolves to a "**loopback**" address.



Add a subdomain to Local Host

Steps to create a subdomain (ex: <http://mysub.localhost>) for development reasons on IIS

- Right click on the IIS and click on “add website”
- Fill all the fields and press ok (in host name put `mysub.localhost`)
- under the created website open Authentication
- Edit Anonymous Authentication and check Application pool identity – Ok
- in the notepad open `C:\Windows\System32\drivers\etc\hosts`
- in the last line add `127.0.0.1 mysub.localhost`
- save and close



Installing IIS

To install IIS:

1. In Windows, access the Control Panel and click **Add or Remove Programs**.
2. In the Add or Remove Programs window, click **Add/Remove Windows Components**.
3. Select the **Internet Information Services (IIS)** check box, click **Next**, then click **Finish**.
4. To learn how to use IIS, you can view the documentation at <http://localhost/iishelp/iis/misc/default.asp>.



Configuring IIS

To configure IIS:

1. Right-click the **My Computer** icon on your server computer desktop, and then click **Manage**.
2. In the **Computer Management** dialog box, open the **Services and Applications** node.
3. Click **Internet Information Services**, and then click **Web Sites**.
4. Right-click the **Default Web Site** node to start it, if it is not started already.
5. If a secure Internet connection is required, set up Secure Sockets Layer (SSL). For more information, see [How to: Set Up Secure Sockets Layer \(SSL\)](#).