

I/O and File “Gymnastics”

Q1. Create an ssh tunnel from this computer to a service that is visible from another ssh-capable computer (but, of course, not necessarily visible from the computer you're using). Then, access that service from your computer through localhost and the tunneled port number.

A1.

```
Abduls-MacBook-Pro:~ AbdulZaid$ ssh aalzaid1@my.cs.lmu.edu
aalzaid1@my.cs.lmu.edu's password:
```

```
Welcome to Ubuntu 11.10 (GNU/Linux 3.0.0-12-server x86_64)
```

```
* Documentation: https://help.ubuntu.com/11.10/serverguide/C
```

```
System information as of Tue Feb 4 22:27:11 PST 2014
```

```
System load: 0.0      Processes: 139
Usage of /home: 1.4% of 45.83GB  Users logged in: 5
Memory usage: 25%      IP address for eth0: 157.242.71.21
Swap usage: 0%
```

```
Graph this data and manage this system at https://landscape.canonical.com/
New release '12.04 LTS' available.
Run 'do-release-upgrade' to upgrade to it.
```

```
LMU COMMIST
```

```
Rule #1: Read The Manual.
Rule #2: Google Is Your Friend.
```

- Manage Your Account: <https://secure.cs.lmu.edu>
- Change Password via Command Line: `yppasswd`
- BASH Quick Reference: <http://www.cs.lmu.edu/bash.pdf>
- VIM Quick Reference: <http://www.cs.lmu.edu/vim.pdf>
- Printer Drivers: <http://www.cs.lmu.edu/drivers>
- How To List Files: `ls`, `ls -la`
- How To Change Directories: `cd [directory-name]`
- How To Edit Files: `nano`, `vim`, `emacs`
- (Win) How To Transfer Files: WinSCP, Filezilla

```
aalzaid1@ab201:~$ python -m SimpleHTTPServer 8080
Traceback (most recent call last):
  File "/usr/lib/python2.7/runpy.py", line 162, in _run_module_as_main
    "__main__", fname, loader, pkg_name)
  File "/usr/lib/python2.7/runpy.py", line 72, in _run_code
    exec code in run_globals
  File "/usr/lib/python2.7/SimpleHTTPServer.py", line 220, in <module>
    test()
  File "/usr/lib/python2.7/SimpleHTTPServer.py", line 216, in test
    BaseHTTPServer.test(HandlerClass, ServerClass)
  File "/usr/lib/python2.7/BaseHTTPServer.py", line 598, in test
    httpd = ServerClass(server_address, HandlerClass)
  File "/usr/lib/python2.7/SocketServer.py", line 408, in __init__
    self.server_bind()
  File "/usr/lib/python2.7/BaseHTTPServer.py", line 108, in server_bind
    SocketServer.TCPServer.server_bind(self)
  File "/usr/lib/python2.7/SocketServer.py", line 419, in server_bind
    self.socket.bind(self.server_address)
  File "/usr/lib/python2.7/socket.py", line 224, in meth
    return getattr(self._sock,name)(*args)
socket.error: [Errno 98] Address already in use
aalzaid1@ab201:~$ python -m SimpleHTTPServer 8070
Serving HTTP on 0.0.0.0 port 8070 ...
localhost - - [04/Feb/2014 22:33:25] "GET / HTTP/1.1" 200 -
localhost - - [04/Feb/2014 22:33:26] code 404, message File not found
localhost - - [04/Feb/2014 22:33:26] "GET /favicon.ico HTTP/1.1" 404 -
```

```
Abduls-MacBook-Pro:~ AbdulZaid$ ssh -L 9000:localhost:8070 aalzaid1@my.cs.lmu.edu
```

```
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aalzaid1@my.cs.lmu.edu's password:
Welcome to Ubuntu 11.10 (GNU/Linux 3.0.0-12-server x86_64)
```

```
* Documentation: https://help.ubuntu.com/11.10/serverguide/C
```

```
System information as of Tue Feb 4 22:31:45 PST 2014
```

```
System load: 0.0      Processes: 145
Usage of /home: 1.4% of 45.83GB  Users logged in: 6
Memory usage: 26%      IP address for eth0: 157.242.71.21
Swap usage: 0%
```

```
Graph this data and manage this system at https://landscape.canonical.com/
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```



