

enable port 80 and 3306 in vm

```
amirulmominin — ubuntu-@ubuntu: ~ — ssh ubuntu-@192.168.1.100 — 80x24

Docs: man:nginx(8)
Process: 1364 ExecStartPre=/usr/sbin/nginx -t -q -g daemon on; master_proce>
Process: 1365 ExecStart=/usr/sbin/nginx -g daemon on; master_process on; (c>
Main PID: 1366 (nginx)
Tasks: 3 (limit: 4501)
Memory: 3.3M
CPU: 34ms
CGroup: /system.slice/nginx.service
├─1366 "nginx: master process /usr/sbin/nginx -g daemon on; master>
├─1367 "nginx: worker process" "" "" "" "" "" "" "" "" "" "" "" "" "" "">
└─1368 "nginx: worker process" "" "" "" "" "" "" "" "" "" "" "" "" "" "">

Oct 23 13:57:56 ubuntu systemd[1]: Starting A high performance web server and a>
Oct 23 13:57:56 ubuntu systemd[1]: Started A high performance web server and a>
ubuntu-@ubuntu:~$
ubuntu-@ubuntu:~$ sudo ufw allow 80
Rule added
Rule added (v6)
```

download any file or software using terminal

```
amirulmominin — ubuntu-@ubuntu: ~ — ssh ubuntu-@192.168.1.100 — 80x24

ubuntu-@ubuntu:~$ wget http://archive.ubuntu.com/ubuntu/pool/universe/t/tree-puzzle/tree-puzzle_5.2-11
--2023-10-21 17:26:08-- http://archive.ubuntu.com/ubuntu/pool/universe/t/tree-puzzle/tree-puzzle_5.2-
Resolving archive.ubuntu.com (archive.ubuntu.com)... 185.125.190.39, 91.189.91.81, 91.189.91.83, ...
Connecting to archive.ubuntu.com (archive.ubuntu.com)|185.125.190.39|:80... connected.
HTTP request sent, awaiting response... 200 OK
Length: 2137 (2.1K)
Saving to: 'tree-puzzle_5.2-11.dsc'

tree-puzzle_5.2-11.dsc      100%[=====]

2023-10-21 17:26:08 (162 MB/s) - 'tree-puzzle_5.2-11.dsc' saved [2137/2137]

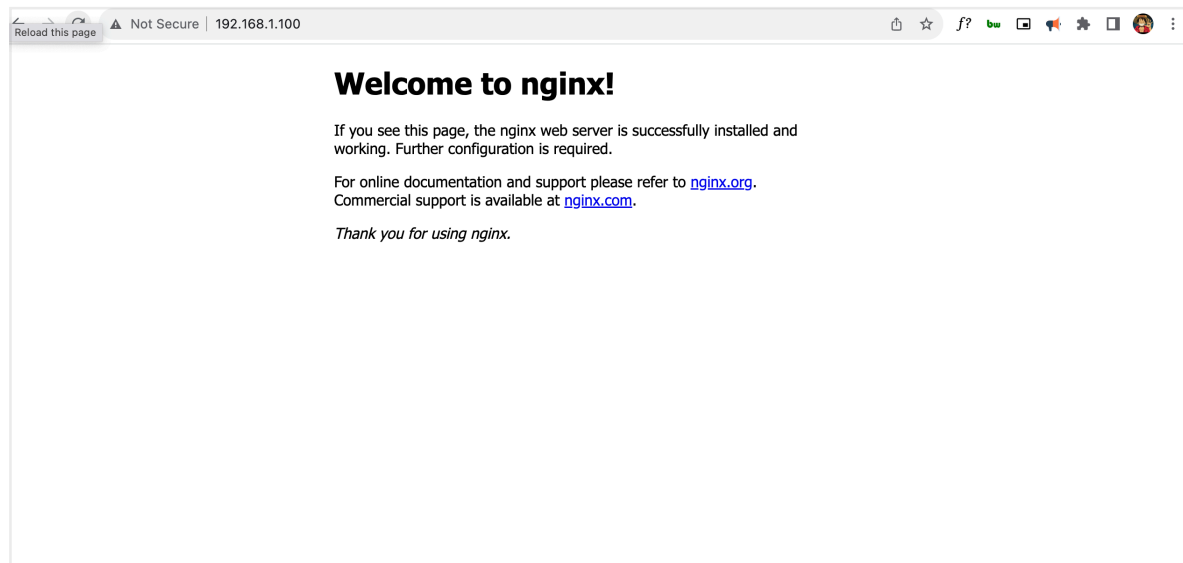
ubuntu-@ubuntu:~$ tree
Command 'tree' not found, but can be installed with:
sudo snap install tree # version 1.8.0+pkg-3fd6, or
sudo apt install tree # version 2.0.2-1
See 'snap info tree' for additional versions.
ubuntu-@ubuntu:~$ wget http://archive.ubuntu.com/ubuntu/pool/universe/t/tree-puzzle/tree-puzzle_5.2-11
--2023-10-21 17:26:37-- http://archive.ubuntu.com/ubuntu/pool/universe/t/tree-puzzle/tree-puzzle_5.2-
Resolving archive.ubuntu.com (archive.ubuntu.com)... 185.125.190.39, 185.125.190.36, 91.189.91.82, ...
Connecting to archive.ubuntu.com (archive.ubuntu.com)|185.125.190.39|:80... connected.
HTTP request sent, awaiting response... 200 OK
Length: 2137 (2.1K)
Saving to: 'tree-puzzle_5.2-11.dsc.1'

tree-puzzle_5.2-11.dsc.1  100%[=====]
```

get web data response from terminal

```
ubuntu-@ubuntu:~$ curl google.com
<HTML><HEAD><meta http-equiv="content-type" content="text/html; charset=utf-8">
<TITLE>301 Moved</TITLE></HEAD><BODY>
<H1>301 Moved</H1>
The document has moved
<A HREF="http://www.google.com/">here</A>.
</BODY></HTML>
ubuntu-@ubuntu:~$ cURL https://jsonplaceholder.typicode.com/todos/1
cURL: command not found
ubuntu-@ubuntu:~$ curl https://jsonplaceholder.typicode.com/todos/1
{
  "userId": 1,
  "id": 1,
  "title": "delectus aut autem",
  "completed": false
}ubuntu-@ubuntu:~$
```

install nginx webserver in the vm and access the welcome nginx page from web browser



create a mysql database server in vm and access it from host machine

```
amirulmominin — mysql -h 192.168.1.100 -P 3306 -u test -p — mysql — mys...
→ ~ git:(master) ✕ mysql -h 192.168.1.100 -P 3306 -u test -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 12
Server version: 8.0.34-0ubuntu0.22.04.1 (Ubuntu)

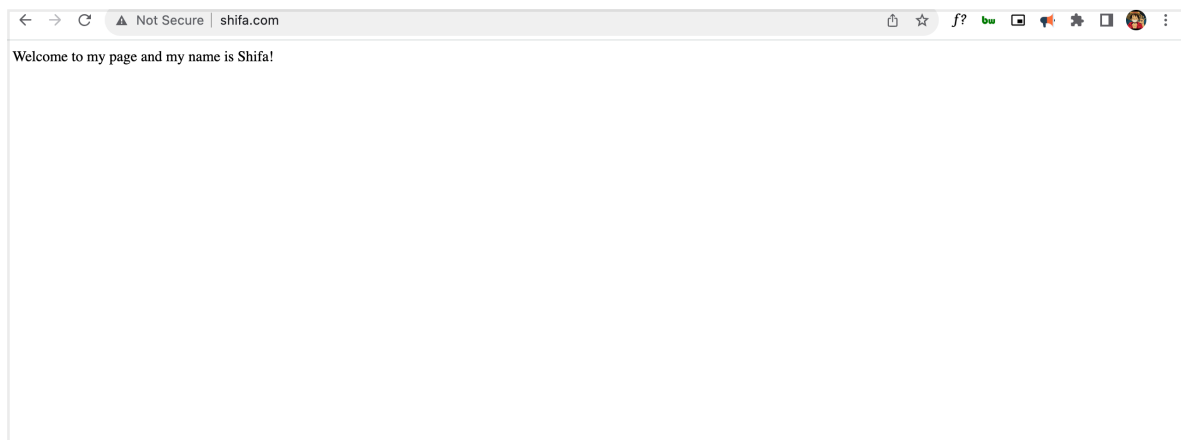
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affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> █
```

replace default nginx page with an index.html page containing your name and access it from web browser



display the same index.html file in "your_name.com" by utilizing hostname of vm and host machine

