

# *How To Build a DarkWeb Server*

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Beirut Open Source Society

**A darkweb server is:**

- **Location hidden**
- **Able to function with either a dynamic or fixed IP**
- **Secure**
- **Anonymous**
- **Totally free**

**By:**

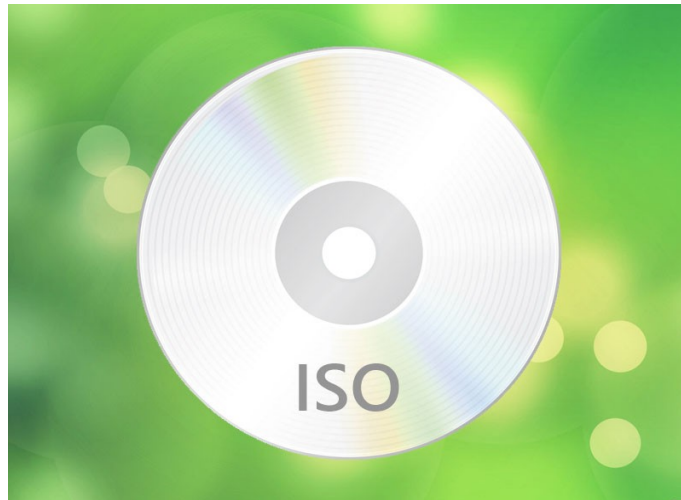
**Bashir Barrage ([bashir@barragemail.org](mailto:bashir@barragemail.org))**

**Cell: 03-641880**

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## Step 1/7: Setup Any Server (Ubuntu Desktop will be used here)



No identifiable info about *you*, *your computer* or *your location*!

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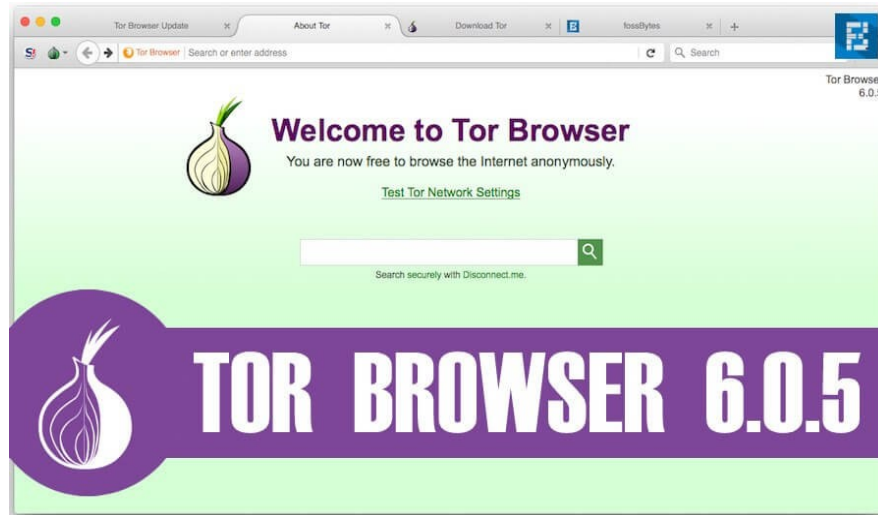
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## Step 2/7: Install TOR Browser and run it.



```
$ sudo apt-get install torbrowser-launcher  
$ gpg --homedir "$HOME/.local/share/torbrowser/gnupg_homedir/"  
--refresh-keys --keyserver pool.sks-keyservers.net
```

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## Step 3/7: Install Apache & exclude any direct connection

Edit: `/etc/apache2/ports.conf`

To include: `Listen 127.0.0.1:80`

```
$ sudo apt-get install apache2
$ gksudo "gedit /etc/apache2/ports.conf"
$ password:
```

`Listen 127.0.0.1:80`

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## Step 4/7: Add and test the service

Add index.html (and other files) to the main html dir:  
`/var/www/html/`

Test `http://localhost/`

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## Step 5/7: Configure the Hidden Service

Edit: `/etc/tor/torrc`

To include: `HiddenServiceDir /home/server/hidden_service`  
`HiddenServicePort 80 127.0.0.1:80`

Under this section:

`##### This section is just for location-hidden services ###`

```
$ gksudo "gedit /etc/tor/torrc"
```

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## Step 6/7: Restart Browser, Startup TOR and Apache2

```
$ tor
```

```
$ service apache2 start <or> $ /etc/init.d/apache2 start
```

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## Step 7/7: Get the hostname

HiddenServiceDir will be created with two files in it:

- 1) `private_key` (don't share it with anyone)
- 2) `hostname` (randomly generated "URL" to share)

That's it.

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**More details found here:**

<https://www.torproject.org/docs/tor-hidden-service.html.en>

## Questions

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