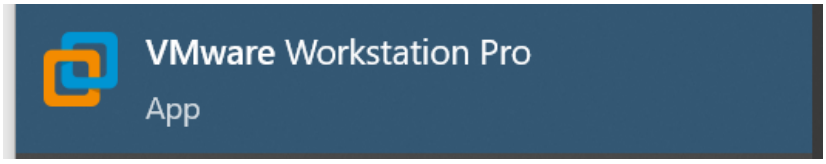
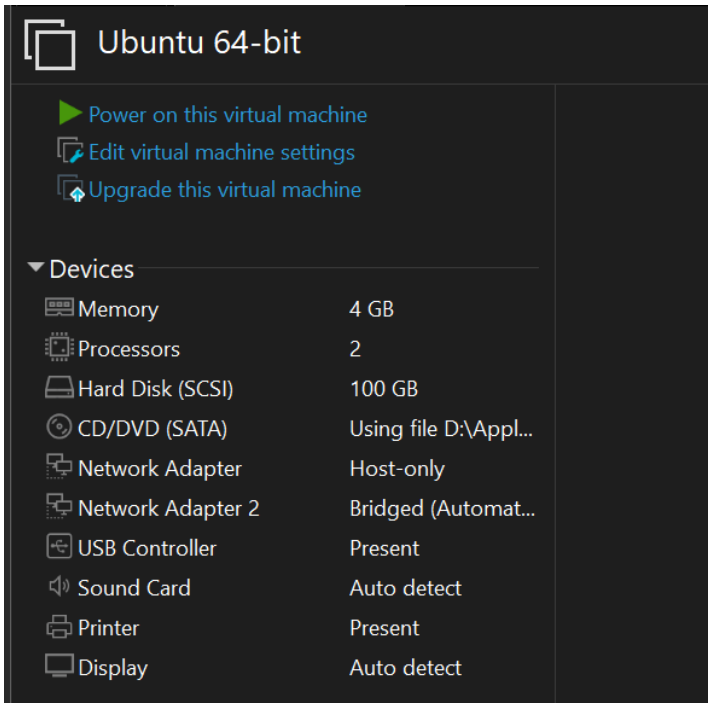
Setup procedure for hidden browser in local environment

1. Install VMware Workstation



Install VMware workstation pro from the respected website to create a virtual network environment for the scenario.

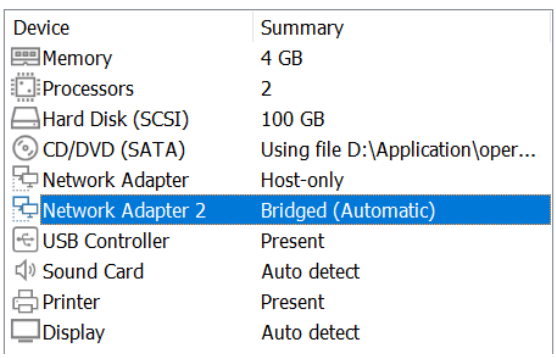
2. Make a new virtual machine and install Ubuntu on it

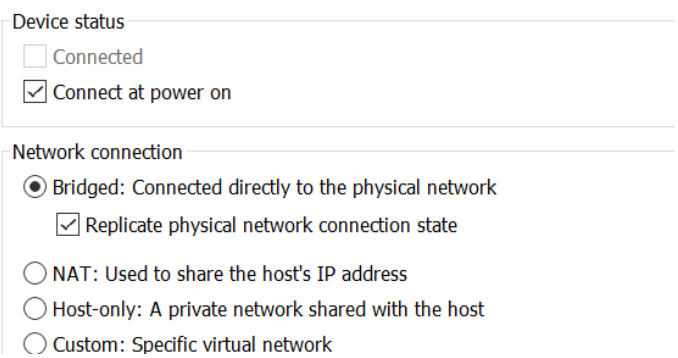


Create a virtual machine and install Ubuntu desktop or server as ease.

3. Add virtual network adapter and set it for bridge connection

Add a virtual network adapter or change existing one for bridge connection to use it for communication to the browser.



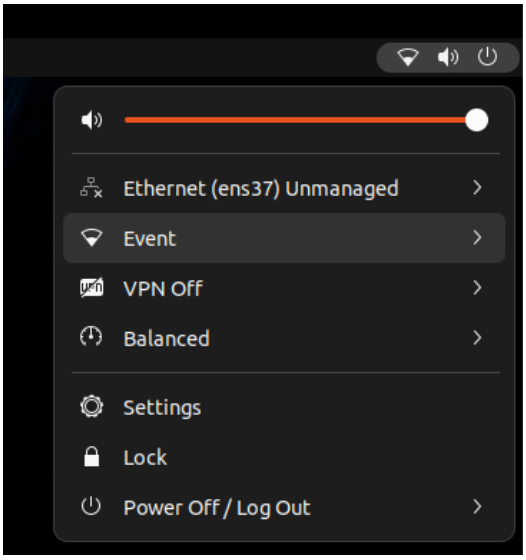


4. Insert a wifi adapter which supports Debian based kernal for external internet support

https://www.amazon.in/s?k=wifi+adapters+for+ubuntu+linux&crid=2M7FRIH9302KC&sprefix=wifi+adapters+for+ubuntu+linux%2Caps%2C418&ref=nb_sb_noss

this external adapter will supply uninterrupted internet to the browser only.

Connect it directly to the virtual machine and connect it the separate internet source.



5. Then setup ubuntu for a proxy server.

To setup your linux as a proxy server first install squid.

#sudo apt-get update

#sudo apt install squid -y

After installation of squid, open the configuration directory of squid

#nano /etc/squid/squid.conf

```
# INSERT YOUR OWN RULE(S) HERE TO ALLOW ACCE
#
include /etc/squid/conf.d/*.conf
error_directory /etc/squid/errors/

acl localnet src 192.168.50.28
acl blocksite dstdomain .facebook.com

http_access deny blocksite
http_access allow localnet
```

First of all add “acl localnet src <ip address on which wifi adapter is working>

Add “acl blocksite dstdomain .<domain name>” if you want to block some specific domain

Then add “http_access allow localnet” to allow localnet access to proxy server.

```
# Squid normally listens to port
http_port 6378

#  TAG: https_port
#       Usage:   [ip:]port [mode]
#
#       The socket address where
```

Server

```
proxy = QNetworkProxy()
proxy.setType(QNetworkProxy.HttpProxy)
proxy.setHostName(ip)  # server address
proxy.setPort(6378)  # port
QNetworkProxy.setApplicationProxy(proxy)
print('private')
```

Browser

Then set the specific port no for proxy server (default is 3128), I am using 6378 in my browser

Check in load url section of browser code there you can find the port no used by browser

```
ens37: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu
        inet 10.12.36.229  netmask 255.255.0.0  broadc
        inet6 fe80::20c:29ff:fec3:f034  prefixlen 64
        ether 00:0c:29:c3:f0:34  txqueuelen 1000  (Eth
        RX packets 30875  bytes 1860969 (1.8 MB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 860  bytes 60848 (60.8 KB)
        TX errors 0  dropped 0 overruns 0  carrier 0

lo: flags=73<UP,LOOPBACK,RUNNING>  mtu 65536
        inet 127.0.0.1  netmask 255.0.0.0
        inet6 ::1  prefixlen 128  scopeid 0x10<host>
        loop  txqueuelen 1000  (Local Loopback)
        RX packets 4990  bytes 427455 (427.4 KB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 4990  bytes 427455 (427.4 KB)
        TX errors 0  dropped 0 overruns 0  carrier 0
```

Server ip address

```
engine = 0
ip = '10.12.36.229'

zoom = 1.50
```

Ip in browser

Use command “ifconfig” to find the ip address of bridge adapter and set it in browser in the starting of code a variable named ip is defined for ipaddress.

Now you can use your browser to access the internet using the linux machine.

NOTE

This project is working on local internet for somehow if we can connect it to the cloud proxy server then we can easily bypass any firewall and internet blockage without this much setup in our local machine.