ssh -Y moon@137.132.83.82(Host)

pw:abc123

sudo apt-get install git (Server)

get bitcoin from Share\_VM folder(Host)

scp bitcoin-0.17.0.tar.gz moon@137.132.83.82:/home/moon/

unzip the file at (Server):

tar -xvzf bitcoin-0.17.0.tar.gz

Copy gi jun file from original bitcoin code(Host)

1. addrman.h
2. net.cpp
3. net.h
   1. how?

From Host: go into SERVER TRANSFER file and:

scp addrman.cpp moon@137.132.83.82:/home/moon/bitcoin-0.17.0/src/

scp addrman.h moon@137.132.83.82:/home/moon/bitcoin-0.17.0/src/

scp net.cpp moon@137.132.83.82:/home/moon/bitcoin-0.17.0/src/

scp net.h moon@137.132.83.82:/home/moon/bitcoin-0.17.0/src/

scp netaddress.h moon@137.132.83.82:/home/moon/bitcoin-0.17.0/src/

scp netbase.cpp moon@137.132.83.82:/home/moon/bitcoin-0.17.0/src/

scp logging.cpp moon@137.132.83.82:/home/moon/bitcoin-0.17.0/src/

scp logging.h moon@137.132.83.82:/home/moon/bitcoin-0.17.0/src/

(Server)

sudo apt-get install build-essential libtool autotools-dev automake pkg-config libssl-dev libevent-dev bsdmainutils python3

sudo apt-get install libboost-all-dev

**$** wget<http://download.oracle.com/berkeley-db/db-4.8.30.NC.tar.gz>

**$** echo '12edc0df75bf9abd7f82f821795bcee50f42cb2e5f76a6a281b85732798364ef db-4.8.30.NC.tar.gz' | sha256sum -c

**$** tar -xvf db-4.8.30.NC.tar.gz

**$** cd db-4.8.30.NC/build\_unix

**$** mkdir -p build

**$** BDB\_PREFIX=$(pwd)/build

**$** ../dist/configure --disable-shared --enable-cxx --with-pic --prefix=$BDB\_PREFIX

**$** sudo make install

**$** cd ../..

**$** sudo apt-get install libminiupnpc-dev

**$** sudo apt-get install libzmq3-dev

**$** sudo apt-get install libqt5gui5 libqt5core5a libqt5dbus5 qttools5-dev qttools5-dev-tools libprotobuf-dev protobuf-compiler

**$** sudo apt-get install libqrencode-dev

**$** cd bitcoin-0.17.0

**$** git checkout tags/v0.16.3

**$** ./autogen.sh

**$** ./configure CPPFLAGS="-I${BDB\_PREFIX}/include/ -O2" LDFLAGS="-L${BDB\_PREFIX}/lib/" --with-gui

if error

:sudo apt-get install libboost-system-dev libboost-filesystem-dev libboost-chrono-dev libboost-program-options-dev libboost-test-dev libboost-thread-dev

**$** make

**$** sudo make install

public IP: 137.132.83.82

Network Configuration:

from (SERVER)

sudo ufw enable

sudo ufw allow 8333/tcp

sudo ufw allow 8333

WIRED-PROPERTIES.CARRIER: on

IP4.ADDRESS[1]: 172.26.191.144/23

IP4.GATEWAY: 172.26.190.1

IP4.ROUTE[1]: dst = 192.168.132.24/32, nh = 172.26.190.1, mt = 100

IP4.ROUTE[2]: dst = 169.254.0.0/16, nh = 0.0.0.0, mt = 1000

IP4.DNS[1]: 192.168.140.2

IP4.DOMAIN[1]: comp.nus.edu.sg

IP4.WINS[1]: 137.132.4.25

IP4.WINS[2]: 137.132.4.5

IP6.ADDRESS[1]: fe80::7dda:c97c:9212:9816/64

overall command that is helpful:

sudo rm -rf bitcoin //delete directory

grep -rnw -e "gi jun" //find a word in all the files

make -j5 //FASTER MAKE

tail -f ~/.bitcoin/debug.log //keep track bon the deug.log

extern int noOfAddrMsg = 0;

extern int noOfIpInAddr[10000];

extern int arrayi = 0;

extern int previousNew = 0;

extern int noOfIpInsertedInNew[10000];

extern int arrayz = 0;

extern int noOfGetAddr = 0;

extern int noOfIpInNew = 0;

extern int noOfIpMoveFrmNtoT = 0;

extern int noOfIpInTried = 0;