**NENG Android Mining Guide without Putty**

1. Download **Userland App** from Google Playstore
2. Open **Userland App** and select **Ubuntu**
3. Create an account if you do not have
4. Log in **Ubuntu**
5. Copy and paste all the Linux command lines to your whatsapp / chat app / email and save them to your notes on your mobile phone for easier copy and paste
6. Enter command line
   1. sudo apt update
   2. sudo apt install wget ssh
   3. wget <https://github.com/ShorelineCrypto/NewEnglandCoin/releases/download/v1.4.0.5/newenglandcoin_v1.4.0.5_android_userland_arm.tgz>
   4. tar xvfz newenglandcoin\_v1.4.0.5\_android\_userland\_arm.tgz
   5. cd Android\_Userland\_App/ubuntu/arm64/
   6. bash prepare\_userland.sh
7. Relogin **Userland Ubuntu**
8. Enter command line
   1. bash prepare\_neng.sh
   2. screen (creates another screen so you can check your wallet and mining at the same time using one ssh)
   3. cd
   4. cd Android\_Userland\_App/ubuntu/arm64/cheetah\_cpuminer
   5. mv newenglandcoin.conf-example newenglandcoin.conf (rename)
   6. vi newenglandcoin.conf
   7. Press **i** and use the **arrow keys** to navigate to modify your rpc username and password
   8. Press **Esc**
   9. :wq
   10. cp newenglandcoin.conf ~/.newenglandcoin/
   11. Press **Ctrl AD** to go back to the main screen (NENG Wallet)
   12. cd newenglandcoin\_v1.4.0\_u16\_arm64/
   13. ./newenglandcoind (sync the wallet appx 48 hrs or more)
   14. top (rotate your mobile phone to the side so that you are able to see whether newenglandcoind is running)
   15. ./newenglandcoind getmininginfo (compare the current block with <http://nengexplorer.mooo.com:3001/> to ensure it has sync to the latest block before getting ready to perform mining)
   16. ./newenglandcoind getbalance (check your coin balance in your wallet)
   17. Ctrl+C (to exit top)

**After complete syncing your NENG wallet**

1. Enter command line
   1. screen –r (from NENG wallet to Cheetah screen)
   2. sh cheetah.sh (for standard mining)
   3. python main.py --interval 10 --cpu 4 (for customized mining)
   4. Press **Ctrl C** to stop
   5. Press **Ctrl AD** to go back to the main screen (NENG Wallet)
   6. screen –r (Reattach the cheetah miner screen back)