TipBot Test Environment Instructions

1. Create the Python Environment
   1. Download and install Miniconda for python package management
   2. `git clone https://github.com/danhitchcock/nano\_tipper\_z.git`
   3. Navigate to tipbot root directory
   4. With Conda in (base), run `make setup` to create a conda environment, `reddit-tipbot`
   5. Activate reddit-tipbot environment with `conda activate reddit-tipbot`
   6. Install CLI and local library with `make module-setup`
   7. Test installation by typing `rtb` - should give a logger error, then a list of commands
2. Download Nano Node \*note: Production uses a Docker image, v20 (i think)
   1. Download V23 for testing
   2. Acquire/bootstrap the ledger
   3. Generate config files according to https://docs.nano.org/running-a-node/configuration/#configuration-file-locations
   4. Place files in correct locations
   5. Enable RPC by setting `config-rpc.toml` options:
      1. address = “::1”
      2. `enable\_control = true`
   6. Enable rpc by setting `config-node.toml` [rpc]
      1. `enable=true`
3. Download SQL Server (I know, horrible choice…)
   1. <https://dev.mysql.com/downloads/mysql/>
   2. Full installation
   3. Set root password to “admin”
4. Create a Reddit Account for the test, or use the tester, nano\_tipper\_z (nano\_tipper\_z)
5. Create a Reddit App
   1. <https://www.reddit.com/prefs/apps>
   2. On bottom, click “create another app…”
   3. Apply a name, like “TipBot Test”
   4. Select “script”, Script for personal use.
   5. For URL/URI, use <http://www.reddittipbot.com>
   6. Make note of secret and of the string under “personal use script”
   7. Add test account name to list of developers
6. Configure praw.ini
   1. For client\_id, use the reddit app string under “personal use script”
   2. For secret, use the secret
   3. Fill in password and username for reddit account (nano\_tipper\_z)
   4. user\_agent=Nano Tipper Z 0.1
   5. Place praw.ini under root of git repo
7. Configure tipper.ini
   1. Set “tip\_bot\_username = nano\_tipper\_z”
   2. Set “database\_name = tipper”
   3. Set “sql\_password = admin”
   4. Place tipper.ini in the root of the git repo
8. Initialize Database
   1. In root folder, run `python`
   2. `from src import tipper\_sql`
   3. `tipper\_sql.init\_db()`
   4. `exit()`
   5. Again, run python
   6. `from src import tipper\_sql`
   7. `tipper\_sql.init\_tables()`
9. Test node connection
   1. `conda activate reddit-tipbot`
   2. `rtb block-count`
   3. Should return the block count, meaning connection to node is working
10. Create `nano\_tipper\_z` user
    1. `conda activate reddit-tipbot`
    2. `python`
    3. `from src import tipper\_functions`
    4. `tipper\_functions.add\_new\_account(‘nano\_tipper\_z’)
    5. `exit()`
11. Add the `nano\_tipper\_z` subreddit to the bot
    1. `rtb subreddit nano\_tipper\_z`
12. Run the bot in debug mode (will crash, and logs errors to console) and try creating an account
    1. Open two terminals
    2. Navigate both to root of repo `…/nano\_tipper\_z/`
    3. Activate environment in both with `conda activate reddit-tipbot`
    4. In one, run `python ./src/messenger.py`
    5. In another, run `python ./src/tipbot.py`
    6. From your reddit account, PM the bot “create”
    7. Logs are written to `.../nano\_tipper\_z/log/info.log`
13. Run in “no-crash mode”
    1. Open two terminals, as before
    2. `python ./src/messenger\_launcher.py`
    3. `python ./src/tipbot\_launcher.py`
14. Run in production mode
    1. Open a terminal and activate conda
    2. `nohup python ./src/messenger\_launcher.py &`
    3. `nohup python ./src/tipbot\_launcher.py &`
    4. In linux, check processes with `ps -ef | grep python`
    5. Kill the launchers if a shutdown is necessary