1. Refer to the instructions on how to access the virtual machine.

2. Install Dependencies
   ```
   sudo apt-get install git virtualenv python-virtualenv libssl-dev libffi-dev
   build-essential libpython3-dev python3-minimal authbind
   ```

3. Setup firewall
   ```
   $ iptables -t nat -A PREROUTING -p tcp --dport 22 -j REDIRECT --to-port 2222
   $ iptables -t nat -A PREROUTING -p tcp --dport 23 -j REDIRECT --to-port 2223
   ```

4. Create a cowrie user account
   ```
   sudo adduser --disabled-password cowrie
   ```

5. Change to user cowrie
   ```
   sudo su - cowrie
   ```

6. Install Cowrie
   ```
   $ git clone http://github.com/cowrie/cowrie
   ```

7. Change to cowrie directory
   ```
   $ cd cowrie
   ```

9. Setup Virtual environment
   ```
   $ pwd
   /home/cowrie/cowrie
   $ virtualenv --python=python3 cowrie-env
   New python executable in ./cowrie/cowrie-env/bin/python
   Installing setuptools, pip, wheel...done.
   ```

10. Activate the virtual environment and install packages
    ```
        $ source cowrie-env/bin/activate
        (cowrie-env) $ pip install --upgrade pip
        (cowrie-env) $ pip install --upgrade -r requirements.txt
    ```

11. Edit etc/cowrie.cfg.dist (use nano)
    ```
    Make sure the listen_endpoints are still the default
    
    listen_endpoints = tcp:2222:interface=0.0.0.0
    ```
    ```
    Enable Telnet, change false to true
    ```
[telnet]

# Enable Telnet support, disabled by default
enabled = true

12. Start cowrie
   $bin/cowrie start

13. Check if cowrie is running (port 2222 and 2223 should be in listening mode)
   $ netstat -nat

14. You can always check status of cowrie
   $bin/cowrie status