In addition to the Cuckoo setup instructions, Hatching.io has a good blog:
https://hatching.io/blog/cuckoo-sandbox-setup/
https://cuckoo.sh/docs/index.html

Followed this guide to setup python virtualenv:

Make sure to follow all of the requirements before installing:
https://cuckoo.sh/docs/installation/host/requirements.html
  - I also installed clang: sudo apt install clang

Install Suricata from PPA
https://suricata.readthedocs.io/en/suricata-5.0.2/install.html

Change permissions for suricata-update

Search-Abuse python script
https://github.com/jstrosch/search-abuse.ch

Submit to cuckoo via command-line:
cuckoo submit --timeout 200 --unique -o route=tor --machine win7x64ent_office
<PATH_TO_MALWARE>

Copy suricatasc into virtualenv:
cd MY_VIRTUAL_ENV/lib/python2.7/site-packages
cp -a /usr/lib/python3.6/site-packages/suricatasc .
cp -a /usr/lib/python3.6/site-packages/suricata .

Command to run suricata in socket mode:
sudo suricata -c /etc/suricata/suricata.yml -k none --runmode=autofp --user=cuckoo
--unix-socket -vvv