How to install the meter:

1. To run the meter certain packages must be present. To accomplish this we do the following:  
 a. log into you linux or windows node  
 b. install the following using apt or yum or windows installers:  
 1. python  
 2. python-pip  
 3. curl  
 4. python-dev  
   
 example: sudo apt-get install python  
  
3. Pull the latest version of the UCX meter from our source control on github. You must use the 'prod' branch  
 a. change directory to /var  
 b. clone the ucxmeter github repository  
   
 example: cd /var; git clone -b prod https://github.com/ucxchange/ucxmeter.git .   
  
2. Change the name of the path where the meter was just cloned to ucx\_meter  
 example: mv /var/ucxmeter /var/ucx\_meter  
  
3. Change the ownership of the meter to a user with priviledges to execute python programs.   
 example: /bin/chown -R ubuntu:ubuntu /var/ucx\_meter  
  
4. Change the mode of the ucx meter service file  
 example: chmod +x /var/ucx\_meter/cfg/ucx-meter-service  
  
4. Change the mode of the ucx meter service daemon file  
 example: chmod +x /var/ucx\_meter/cfg/run-meter  
  
5. Create your initial meter configuration file.  
  
 example:   
 echo "[infrastructure]  
 id = 0  
 name =   
   
 [machine]  
 id = 0  
 config = 0" > /var/ucx\_meter/cfg/config.info  
  
 **\*\*\*NOTE\*\*\* the "name" in the config.info file MUST be a infrastructure container name that you would like to contain other machines within.**  
  
6. Download and install pyhton 2.7  
- name: prereq python1 - download ez-setup python 2.7  
 example:   
 curl -o /tmp/ez\_setup.py https://bootstrap.pypa.io/ez\_setup.py  
 /usr/bin/python2.7 /tmp/ez\_setup.py  
  
7. Install the following python libraries  
 example:   
 pip2 install psutil  
 pip2 install py-cpuinfo  
 pip2 install netifaces  
  
8. Start the meter  
 example:  
 /var/ucx\_meter/cfg/ucx-meter-service start  
  
If the meter is running you should see a a process "meter.py" running in the background  
 Check for it using: ps -ef | grep meter  
   
 It should return something like:  
 root 26167 1 15 19:52 pts/0 00:00:00 /usr/bin/python /var/ucx\_meter/meter.py  
 ubuntu 26176 19884 0 19:52 pts/0 00:00:00 grep --color=auto meter