eOn Install Documentation

Jonsson Group

August 27, 2010

1 Boinc client libraries on Ubuntu 10

Take a look at http://boinc.berkeley.edu/trac/wiki/ServerIntro, which served as inspiration for this text. Install all the packages listed under Cookbook for debian40:

1. libcurl3-dev install libcurl4-gnutls-dev instead
2. Build the boinc client libraries.

```
./configure --disable-server
make
sudo make install
```

2 Boinc server setup on Ubuntu 10

ake a look at http://boinc.berkeley.edu/trac/wiki/ServerIntro, which served as inspiration for this text. Install all the packages listed under Cookbook for debian40:

1a. Make a new user(boincadm) to handle boinc:

```
sudo useradd -m -s /bin/bash boincadm
```

1b. Add www-data to group boinadm with:

```
sudo usermod -G boincadm www-data
```

2a. Start mysql:

```
mysql -h localhost -u root [-p]
```

2b. Configure mysql

```
GRANT ALL ON *.* TO 'boincadm'@'localhost';
SET PASSWORD FOR 'boincadm'@'localhost'=''; //or any password you want
exit
```

3a. Get the latest stable code from BOINC

```
svn co http://boinc.berkeley.edu/svn/branches/server_stable
```

3b. Rename the obtained folder to boinc

```
mv server_stable boinc
cd boinc
```

3c. Build boinc server. Possible problem with autoreconf version. In _autosetup edit the line 'if check_version autoreconf 2.58' to 'if check_version /usr/bin/autoreconf2.50'

```
./_autosetup
./configure --disable-client
make
```

3 Making a project

Make sure the name of host and hostname is the same as your name to other computers. So /etc/hosts and /etc/hostname should specify that name.

1. From boinc/tools/ run:

```
./make_project eon
```

2. Follow the instructions in the readme file until the command bin/xadd.
3. Go to eon/html/ops and run:

```
\$ htpasswd -c .htpasswd <username>" this gives access to the ops site.
```

4. Edit the function auth_ops() in eon/html/project/project.ini by commenting out the default deny access and/or edit it to have some security.
5. Replace eon/project.xml and eon/templates with our version and copy the eon program to eon/program
6. Compile the client and place it in eon/apps/client/client_version_platform/client_version_platform
7. Add these daemons to eon/config.xml:

```
<daemon>
  <cmd>
    sample_trivial_validator -d 3 -app client
  </cmd>
</daemon>
<daemon>
  <cmd>
    sample_assimilator -d 3 -app client
  </cmd>
</daemon>
```

8. Run:

```
$ bin/xadd
$ bin/update\_versions
$ bin/start
```

9. Edit paths and boinc paths in default_config.ini and config.ini