Pretty Cure 5's Euclidian Installation Guide

S^HYAM [s3421215]

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Assumptions

- 1. You know how to SSH.
- 2. You know how to use NeCTAR.
- 3. You have setup your Key Pair.

 (Click Project) Compute Access & Security, then click the Key Pairs tab; this should be the automatic default when you click Launch Instance (From the Access & Security tab.), in step 5 of the NeCTAR section.)
- 4. You know how to use SAGE2.

Server-side

2.1 NeCTAR

- 1. Goto https://dashboard.rc.nectar.org.au/auth/login/.
- 2. Click Log In.
- 3. Authenticate your NeCTAR account.

 (You may be taken to RMIT's authentication services; university dependent.)
- 4. Click Project Compute Instances. (LHS navigation menu.)
- 5. Click Launch Instance.
- 6. Type Pretty Cure Server into the Instance Name text field.
- 7. Click Flavor m2.small.
- 8. Click Image Name NeCTAR Ubuntu 16.04 LTS (Xenial) amd64 (293.9 MB).
- 9. Click Launch.
- 10. Wait for the **Task** to become "None". (Launching the instance can take a few minutes.)
- 11. Record the **IP Address** for SSH'ing to the server.

2.2 SSH

1. SSH to the recorded **IP Address**, \bar{c} username **ubuntu**. (You should have a command-prompt.)

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2.3 Installation

```
1 # sweet home
2 home=/home/ubuntu;
3
4 # server address (the server you just SSH'd to)
5 cat<<<___.__>"$home"/server;
7 # ip numbers (as many as you want; this is to allow firewall access)
8 # the first one should be yours! ;)
9 cat<<WHEN>"$home"/phonebook;
10 ___._.
11 ___._.
12 WHEN
13
14 # install (follow the prompts; everything should be agreeable)
15 # you should have a ~/phonebook and a ~/server
16 # you should install iptables-persistent
17 # ...
18 # it appears there is a new prompt!!! -_-
19 | # I recognise it!!! -_-
20 # it used to be purely text-based!!! -_-
21 # just select "install the package maintainer's version"
22 # now it should be hands-free
23 github=https://raw.githubusercontent.com/;
24 installer=Pretty-Cure-5/Euclidian/master/Server/install.sh;
25 wget -O- $github$installer | bash;
26 # verify software is installed correctly (screenshot below)
27 # check firewall; as per post-install instructions
28
29 # cd to the git repo
30 cd Euclidian/Server
31 nohup node sys.js &
```

2.4 Setup

```
1. Goto http://___:1337/. (Use the recorded IP Adress.)
```

- 2. Click SAGE2 Reconfigurations
- 3. Click GitHub-NeCTAR synchronisation.

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Client-side

Access the Pretty Cure Server @ http://___:1337/. (Use the recorded IP Adress.)

3.1 SAGE2 UI

The SAGE2 Interface.

3.2 SAGE2 Overview Display

The SAGE2 Display. It is query-string based, from the address bar.

clientID: Negative-one is the overview display.

Positive integers starting from zero are the individual displays.

(Upper-limit depends on the display quantity.)

3.3 GitHub-NeCTAR synchronisation

Pulls any changes from GitHub, and reinitialises the SAGE2 server. This is used to update apps, as they are being developed; so developers are not required to SSH with the server.

3.4 Firewall Invitations

This is used to invite new IP addresses into the server firewall. It is query-string based, from the address bar.

ip: the IP address to invite into the firewall.

3.5 SAGE2 Reconfigurations

This is used to manipulate the SAGE2 configuration file. It is query-string based, from the address bar.

cols & rows: the number of columns, and rows; determines display quantity.

width & height: the pixel resolution of each display.

hex: the SAGE2 background colour.

rgba: the SAGE2 foreground colour.

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