
jerry_doc Documentation

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jerry.ji

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TriAquaPython + Django Web, TriAqua

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TriAqua

1.

1.1 1.1. TriAqua

Hint: TriAquaCentos5.x RedHat5.xUbuntu 12

```
1 Python      ==> 2.75
2 python-pip  ==> 1.1
3 Httpd       ==> 2.2
4 MySQL       ==> 5.0
5 SNMP        ==> 5.4
6 Django      ==> 1.5
7 Rrdtool     ==> 1.47
8 Shellinabox ==> 2.10
9 Paramiko    ==> 1.10.1
10 sysstat
11 MySQLdb
12 django_admin_bootstrapped.admin.models
```

1.2 1.2. TriAqua

```
# wget http://118.244.168.45:8082/TriAqua_beta.3.1.x86_64.tar.gz
```

Note: TriAqua ,, <http://118.244.168.45:8082> , ,.

2. TriAquae

2.1 2.1.

Note: CentOS

```
yum install gcc gcc-c++ make sysstat nc -y
yum install python-devel -y
yum install net-snmp net-snmp-utils net-snmp-devel -y
yum install mysql mysql-server mysql-devel -y
/etc/init.d/mysqld start
```

rrdtool

```
yum install cairo-devel libxml2-devel pango-devel pango libpng-devel -y
yum install freetype freetype-devel libart_lgpl libart_lgpl-devel intltool -y
yum install rrdtool rrdtool-devel -y
```

Note: Ubuntu

```
sudo apt-get install gcc make sysstat nc
sudo apt-get install python-dev
sudo apt-get install snmpd
sudo apt-get install mysql-client mysql-server
sudo apt-get install python-mysqldb
sudo /etc/init.d/mysql start
```

rrdtool

```
sudo apt-get install rrdtool
```

2.2 2.2. python 2.75

```
python -V
sh install/python_ins.sh
```

```
python -V
5.xpython2.4python 2.75,python
```

2.3 2.3. TriAqua

```
tar xzf TriAqua.tar.gz
cd TriAqua/install
python setup.py build --prefix= TriAqua/usr/local/TriAqua
python setup.py install          TriAqua
```

```
[root@shanhu install]# python setup.py build --prefix=/opt/soft/TriAqua
Start to check pre-installation environment.....

If no error printed out , you can run 'python setup.py install' to install the program

[root@shanhu install]# python setup.py install

Install Complete

*Please configure your tri_config.py file!
After configured tri_config.py ,you can run 'python setup.py init' to complete the initialization!
```

Note: TriAquaTriAquaepythonedjango

2.4 2.4. TriAqua

tri_config.py

TriAquaIP

```
MySQL_Name = 'TriAqua' # Don't change this database name
MySQL_User = 'root'    # Your Mysql username
MySQL_Pass = 'coral'   # Your Mysql password, '' means no password.
```

Note: ,

IP

```
Tri_IP = '10.0.0.171' # your TriAqua server's IP address

SMTP_server = 'smtp.company.com' #replace it to your company smtp server
Mail_username = 'tri_mailuser'
Mail_password = 'tri_mailpass'
```

2.5 2.5.

```
# python setup.py init
```

Hint: tri_connectorTriAquaehr/>

2.6 2.6. TriAquaehr/>

```
# cd "Your installation directory"
# python TriAquaebin/tri_service.py start
```

2.7 2.7. TriAquaehr/>

```
http://<Your ip>:7000/
```

Hint: admin triaquaehr/>

Tip: iptableshr/>

2.8 2.8. FAQhr/>

```
tri_service.py
```

```
ImportError: libpython2.7.so.1.0: cannot open shared object file: No such file or directory
```

Hint: python2.7hr/>

Hint: logs777hr/>

```
$ sudo python tri_service.py start
```

```
django.core.exceptions.ImproperlyConfigured:
```

```
Error loading MySQLdb module: libmysqlclient_r.so.15:
```

```
cannot open shared object file: No such file or directory
```

Hint: <https://pypi.python.org/simple/MySQL-python/MySQLdb>hr/>

3.

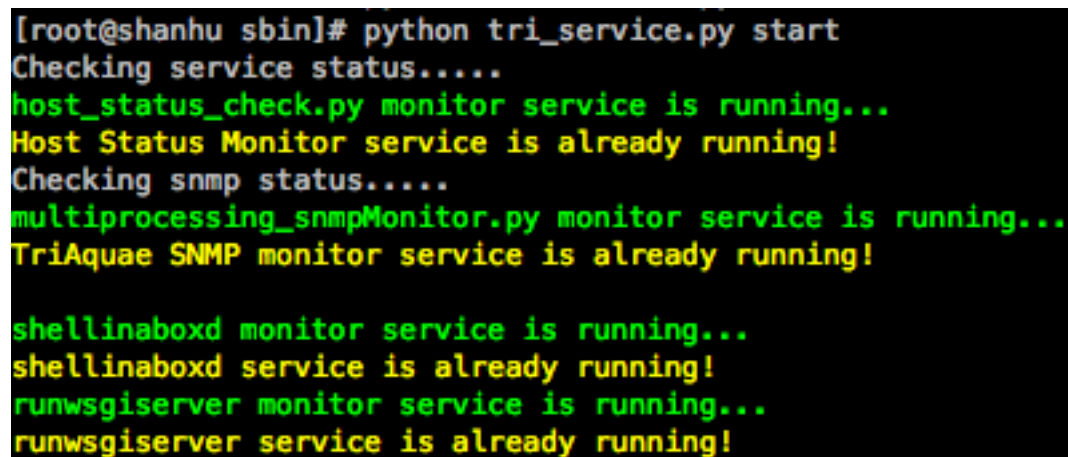
3.1 Start TriAqua service

Locate to your TriAqua install path

```
cd /your installdir/TriAqua/sbin
```

3.1.1

```
python tri_service.py start
```



```
[root@shanhu sbin]# python tri_service.py start
Checking service status.....
host_status_check.py monitor service is running...
Host Status Monitor service is already running!
Checking snmp status.....
multiprocessing_snmpMonitor.py monitor service is running...
TriAqua SNMP monitor service is already running!

shellinaboxd monitor service is running...
shellinaboxd service is already running!
runwsgiserver monitor service is running...
runwsgiserver service is already running!
```

3.1.2

```
python tri_service.py status
```

```
[root@shanhu sbin]# python tri_service.py status
multiprocessing_snmpMonitor.py monitor service is running...
host_status_check.py monitor service is running...
shellinaboxd monitor service is running...
runwsgiserver monitor service is running...
```

3.1.3

```
python tri_service.py stop
```

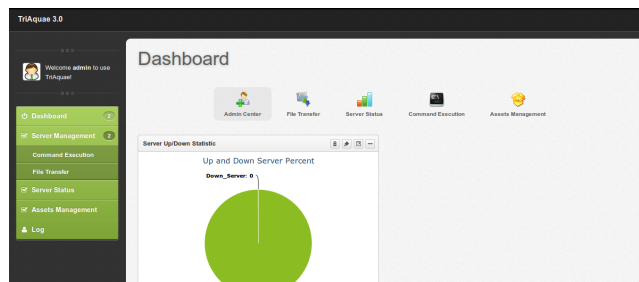
```
[root@shanhu sbin]# python tri_service.py stop
multiprocessing_snmpMonitor.py monitor service is running...
.....
multiprocessing_snmpMonitor.py stopped!
host_status_check.py monitor service is running...
.....
host_status_check.py stopped!
shellinaboxd monitor service is running...
kill 10877: No such process
Cannot stop shellinaboxd service successfully, please manually kill the pid!
runwsgiserver monitor service is running...
.....
runwsgiserver stopped!
```

3.2 Add a new host

TriAqua

3.2.1

- TriAqua, "Admin Center"



- "hosts" "ips", add



- add ,

Fields in bold are required.

Hostname:

Ip:

Idc:

Group: ☒ Add down "Control" or "Command" on a Mac. To select more than one.

Available group

Filter

Choose all

Chosen group

Remove all

Port:

Note:

, group() idc () .

.

Home Hosts Groups Add group

Add group

Fields in bold are required.

Name:

Ip:

Available Ip list

Filter

127.0.0.1

Choose all

Chosen Ip list

Remove all

Save and add another Save and continue editing Save

.

Home Hosts Idcs Add idc

Add idc

Fields in bold are required.

Name:

Save and add another Save and continue editing Save

.

3.2.2

TriAqua , .

TriAqua Administration , "Batch Add Servers"

, , '''

load batch ip

#Input your authorization for ip & remoteuser here.
#Example
#Format: ip hostname IDC port operating system.
192.168.1.1 test1 BJ 22 linux
192.168.1.2 test2 SH 22 linux

192.168.1.1 test1 BJ 22 linux
192.168.1.2 test2 SH 22 linux
192.168.1.3 test1 BJ 22 linux
192.168.1.4 test2 SH 22 linux
192.168.1.5 test1 BJ 22 linux
192.168.1.6 test2 SH 22 linux
192.168.1.7 test1 BJ 22 linux
192.168.1.8 test2 SH 22 linux
192.168.1.9 test1 BJ 22 linux
192.168.1.10 test2 SH 22 linux
192.168.1.11 test1 BJ 22 linux
192.168.1.12 test2 SH 22 linux

Submit

重置

3.3

3.3.1 TriAqua

Hint:

- TriAqua, ,
- .

TriAqua administartion TriAqua Users , “Add TriAqua User”

User:  

Email:

user ,

First, enter a username and password. Then, you'll be able to edit more user options.

Fields in **bold** are required.

Username:

Required. 30 characters or fewer. Letters, digits and @/./+/-/_ only.

Password:

Password confirmation:

Enter the same password as above, for verification.

Remoteuser:  Hold down "Control", or "Command" on a Mac, to select more than one.

Available remoteuser ⓘ	Chosen remoteuser ⓘ
Filter root triaquae coral	
Choose all ⓘ	Remove all ⓘ

Hint: TriAquaе , . , TriAquaе

Group:  Hold down "Control", or "Command" on a Mac, to select more than one.

Available group ⓘ	Chosen group ⓘ
Filter TestGroup BJ	
Choose all ⓘ	Remove all ⓘ

Hint: TriAquaе

Ip:  Hold down "Control", or "Command" on a Mac, to select more than one.

Available ip 	Chosen ip 
Filter 127.0.0.1 61.135.169.105 10.98.33.226 192.168.1.106 Choose all 	Remove all 

Hint: ,.

3.3.2

TriAqua Administration Users, ,.

”

:

Personal info

First name:

Last name:

Email address:

:

Permissions

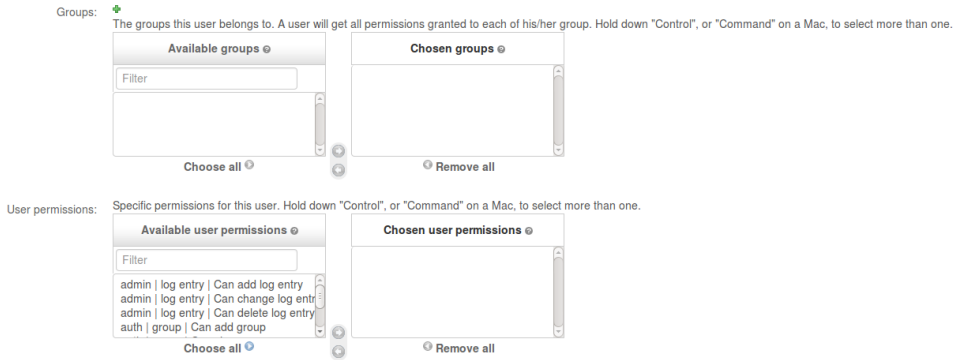
☒ Active

☒ Staff status

☒ Superuser status

Hint: :

- Active :
 - Staff Status : TriAqua administration
 - Superuser Status :
-



3.4

3.4.1

TriAqua administration, "Remote Users".

Add remote user

Fields in **bold** are required.

Name:

TriAqua users:

Available TriAqua User

Filter

admin

Choose all

Chosen TriAqua User

tri_user01

Remove all

Note: remote user . , .

Hint:

- ,
- ,

3.4.2

,user.

TriAqua .

TriAqua Administration "Batch Add RemoteUsers"

'''

load batch authorization

```
#Input your authorization for ip & remoteuser here.  
#Format: ip      remote_user  auth_type      password or key_file path.  
#Example:  
#192.168.1.1    apache  ssh-password   pass1234Aer3  
#192.168.1.2    test2    ssh-key        /root/.ssh/id_rsa  
  
192.168.1.3     apache  ssh-password   pass1234Aer3  
192.168.1.4     test2    ssh-key        /root/.ssh/id_rsa
```

A red rectangular button with rounded corners and the word "Submit" in white text.A blue rectangular button with rounded corners and the Chinese characters "重置" (Reset) in white text.

3.4.3

,ssh-password ssh-key ,

TriAquaе ,.

TriAquaе Administration ”Auth by IP and Remote Users”

Ip:	10.98.33.226	+
RemoteUser:	triaquae	+
Authtype:	ssh-password	
Password or SSH_KEY:	dAE9w2	

Note: „SELinux

3.4.4

TriAqua .

TriAqua Administration “Batch Add Auth_IP_User Binding”

”

load batch remoteuser

#Input your remoteuser and TriAqua_accounts here.

#Example

#Format: remoteuser user.

apache AlexLi

weblogic Jerry

apache AlexLi

weblogic Jerry

nagios Dongxu

Submit

重置

3.5

, (Ping)

:

Host:	59.151.61.61
Hostname:	www.qunar.com
Host status:	UP
Ping status:	rtt min/avg/max/mdev = 2.987/3.112/3.29
Last check:	2013_11_22 11:03:00
Host uptime:	2013_11_22 10:30:31
Attempt count:	0
Breakdown count:	0
Up count:	46
Snmp alert count:	0
Availability:	100

3.5.1

TriAqua Administration Server status

host name IP .

Host:	
Hostname:	
Host status:	Unkown
Ping status:	Unkown
Last check:	N/A
Host uptime:	Unkown
Attempt count:	0
Breakdown count:	0
Up count:	0
Snmp alert count:	0
Availability:	0

3.6 SNMP

3.6.1 SNMP

Note: SNMP . //TriAqua/sbin/

-h

```
[root@localhost sbin]# python snmp_monitor.py -h
Error:wrong argument,please check!!!
usage: ./snmp_monitory.py -v 2c -c public -h 192.168.2.33
       ./snmp_monitor.py -v 3 -u my_username -l auth -a MD5 -A my_password -h 192.168.3.42
[root@localhost sbin]#
```

,CentOS, SNMP V3, Ubuntu V2

Hint: SNMP v3 :

service snmpd stop

chmod 777 net-snmp-config

```
net-snmp-config --create-snmpv3-user -ro -a mypass -A MD5 myname  
#-a-A
```

3.6.2 SNMP

SNMP

Port:

Operating System:

☒ Status monitor on

☒ Snmp on

☒ Enable asset collection

Alert limit:

Snmp alert limit:

Snmp version:

Snmp security level:

Snmp community name:

Snmp auth protocol:

Snmp user:

Snmp pass:

3.7

TriAqua Users , ips

- Select triaquae user to change [+ Add triaquae user](#)

☐	User	Email
☐	tri_user01	tri_user01@gmail.com
☐	admin	admin@gmail.com
-

Load >:	0
System load critical:	0
Cpu idle % <:	0
Cpu idle critical:	0
MemoryUsage% >:	0
Mem usage critical:	0

3.8

Port:	80
Operating System:	linux
☒ Status monitor on	
☒ Snmp on	
☒ Enable asset collection	