我的测试环境

系统：Ubuntu 12.04.1 LTS 64位

ip：192.168.101.236

主机名：squid

一、软件的安装

1、先解压软件

root@squid:/tmp# tar zxvf auto\_op.tar.gz

auto/

auto/auto\_op.py

auto/setup.py

auto/install.txt

安装前软件的结构

root@squid:/tmp# tree auto

auto

|-- auto\_op-software-install-and-function-document.docx #中文的安装文档

|-- auto\_op.py #程序包

|-- install.txt #软件介绍与安装说明

`-- setup.py #部署环境与安装

0 directories, 4 files

2、进入目录查看安装文档install.txt

root@squid:/tmp# cd auto/

root@squid:/tmp/auto# ll

total 44

drwxr-xr-x 2 root root 4096 Mar 20 23:44 ./

drwxrwxrwt 8 root root 4096 Mar 21 09:56 ../

-rw-r--r-- 1 root root 24774 Mar 20 23:33 auto\_op.py

-rw-r--r-- 1 root root 494 Mar 20 23:44 install.txt

-rw-r--r-- 1 root root 3346 Mar 20 22:53 setup.py

root@squid:/tmp/auto# cat install.txt

Version 1.0

Introduction

This software is manage many servers.I refer to TriAquae.TriAquae's author is Alex Li.You can let all your Linux servers(or single server) doing the same job in the same time,such as send a file,run a script,modify file,excute command and etc.

Install

1. tar zxvf auto\_op.tar.gz

2. cd auto

3. python setup.py build --prefix=/installdir/

4. python setup.py install

5. /installdir/auto\_op.py

Support

If you have some problem , you can send mailto 244979152@qq.com.

3、根据安装文档安装，先指定安装目录

root@squid:/tmp/auto# python setup.py build --prefix=/usr/local/auto\_op

Start to check pre-installation environment...................................

direcotry not exsit,creating successful........

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

4、然后再进行安装

root@squid:/tmp/auto# python setup.py install

Extract files to working directory...

Complete ok

Now you can run /usr/local/auto\_op/auto\_op.py start manage your network.

5、进入安装目录运行软件

root@squid:/tmp/auto# cd /usr/local/auto\_op/

root@squid:/usr/local/auto\_op# ll

total 36

drwxr-xr-x 2 root root 4096 Mar 21 10:02 ./

drwxr-xr-x 12 root root 4096 Mar 21 10:02 ../

-rw-r--r-- 1 root root 24783 Mar 21 10:02 auto\_op.py

root@squid:/usr/local/auto\_op# chmod 755 auto\_op.py

root@squid:/usr/local/auto\_op# ll

total 36

drwxr-xr-x 2 root root 4096 Mar 21 10:02 ./

drwxr-xr-x 12 root root 4096 Mar 21 10:02 ../

-rwxr-xr-x 1 root root 24783 Mar 21 10:02 auto\_op.py\*

root@squid:/usr/local/auto\_op# ./auto\_op.py

------------------------------------Memu list-----------------------------------------------------------

1. Add new group

2. Rename group name

3. Delete group

4. List group member

5. List host in the group

6. Add new server to group

7. Delete server from group

8. Command excution on group servers

9. Command excution on one server

10. Upload or download on group servers

11. Upload or download on one server

12. Quit

--------------------------------Input number of you want to exec command---------------------------------

Author is DengLei

可以看到有很多选项，下面是介绍

1. Add new group #添加新组

2. Rename group name #对组重命名

3. Delete group #删除组

4. List group member #列出已有的组名称与成员数量

5. List host in the group #列出组内的主机ip

6. Add new server to group #增加新主机到组里

7. Delete server from group #删除组里的主机

8. Command excution on group servers #在组内的所有主机统一执行命令

9. Command excution on one server #对组内的某个主机执行命令

10. Upload or download on group servers #对组内的所有主机进行上传与下载文件

11. Upload or download on one server #对组内的某个主机进行上传与下载文件

12. Quit #退出

安装后的软件结构

root@squid:/tmp# tree /usr/local/auto\_op/

/usr/local/auto\_op/

|-- auto\_op.py #程序包

|-- logs #日志目录

| `-- operation.log #操作日志

`-- server\_list #组目录

`-- test #组

2 directories, 3 files

二、测试

1、选择1进行创建新组

please input you choice:1 #选择1创建新组

please input new group name:test #组名为test

Created group test successful.

Do you want to add new server to Group test [ Y / N ]:y #选择添加新主机到test组里

Input new server IP or Hostname:192.168.101.235 #新主机的ip

Input newser's port:22 #新主机的端口

Input newser's username:root #新主机的用户名

Input newser's password:123456 #新主机的秘密

New server 192.168.101.235 added successfully.

2、在新创建个one组，然后进行重命名组操作

please input you choice:1 #选项1是创建新组

please input new group name:one #新组名为one

Created group one successful.

Do you want to add new server to Group one [ Y / N ]:n #不添加主机到组里

------------------------------------Memu list-----------------------------------------------------------

1. Add new group

2. Rename group name

3. Delete group

4. List group member

5. List host in the group

6. Add new server to group

7. Delete server from group

8. Command excution on group servers

9. Command excution on one server

10. Upload or download on group servers

11. Upload or download on one server

12. Quit

--------------------------------Input number of you want to exec command---------------------------------

Author is DengLei

please input you choice:2 #选项2是对组重命名

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Which group name do you want to change?:one #重命名组为one

New name:first #重命名为first

group name of one changed to first

3、选择4查看本机所有组的状态

please input you choice:4

now there is group is

test[1]

first[0]

可以看到test组有1个成员，first没有成员

4、删除first组

please input you choice:3 #选项3是删除组

please inupt you want to del group name:first #输入要删除的组名

first

Are you sure you want to delete groupfirst [ Y / N ]: y #确认是否删除

Deleted group first

------------------------------------Memu list-----------------------------------------------------------

1. Add new group

2. Rename group name

3. Delete group

4. List group member

5. List host in the group

6. Add new server to group

7. Delete server from group

8. Command excution on group servers

9. Command excution on one server

10. Upload or download on group servers

11. Upload or download on one server

12. Quit

--------------------------------Input number of you want to exec command---------------------------------

Author is DengLei

please input you choice:4 #在查看一下当前的所有组

now there is group is

test[1]

5、选择5查看test组里所有的主机

please input you choice:5 #选项5查看组内的主机

Input Group name which the server is in:test #输入查看的组名

------------------------Server List----------------------------

192.168.101.235 #test组内的主机

6、选项6增加新主机到组里

please input you choice:6 #选项6添加新主机到组

Input Group name which the server is in:test #选项添加新主机的组

------------------------Server List----------------------------

192.168.101.235 #组内的所有主机

groupfile is /usr/local/auto\_op/server\_list/test

Input new server IP or Hostname:192.168.101.236 #新主机的ip

Input newser's port:22 #新主机的端口

Input newser's username:root #新主机的用户

Input newser's password:123456 #新主机的密码

New server 192.168.101.236 added successfully.

Keep on adding new server?:[ Y / N ]y #是否继续添加新主机

Input new server IP or Hostname:1.1.1.1

Input newser's port:22

Input newser's username:root

Input newser's password:123456

New server 1.1.1.1 added successfully.

Keep on adding new server?:[ Y / N ]n

7、选择7删除主机从组里

please input you choice:7

Input Group name which the server is in:test

------------------------Server List----------------------------

192.168.101.235

192.168.101.236

1.1.1.1

Notice: All matched IP adresses will be deleted,becare

Input the server IP which you want to delete:1.1.1.1

1.1.1.1

matched rows: 1

Do you want to delete all the matched rows?(y/n)y

IP 1.1.1.1 has been deleted from group test

Notice: All matched IP adresses will be deleted,becare

Input the server IP which you want to delete:you command is CTRL+C go back

------------------------------------Memu list-----------------------------------------------------------

1. Add new group

2. Rename group name

3. Delete group

4. List group member

5. List host in the group

6. Add new server to group

7. Delete server from group

8. Command excution on group servers

9. Command excution on one server

10. Upload or download on group servers

11. Upload or download on one server

12. Quit

--------------------------------Input number of you want to exec command---------------------------------

Author is DengLei

please input you choice:5

Input Group name which the server is in:test

------------------------Server List----------------------------

192.168.101.235

192.168.101.236

8、选项8对组内所有主机同时执行命令

please input you choice:8 #选择8对组内所有主机执行命令

now there is group is #列出当前所有的组

test[2]

please input you choice group:test #输入项执行命令的组

You choice test group

please input you want to select command,Ctrl + C to quit:hostname #输入执行的命令

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start to connect ip 192.168.101.235 port 22 username root at time 2013-03-21 10:21:51

exec result is

linux-cbb3 #执行的结果

192.168.101.235 exec command ['hostname'] OK!

end time is 2013-03-21 10:21:51

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start to connect ip 192.168.101.236 port 22 username root at time 2013-03-21 10:21:51

exec result is

squid

192.168.101.236 exec command ['hostname'] OK!

end time is 2013-03-21 10:21:52

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please input you want to select command,Ctrl + C to quit:

9、选项9对组内的某个主机执行命令

please input you choice:9 #选择9

now there is group is

test[2]

Input Group name which the server is in:test #选择test组

------------------------Server List----------------------------

192.168.101.235

192.168.101.236

Please input you want to execute the command of the host name:192.168.101.235 #选择主机

please input you want to select command,Ctrl + C to quit:uptime #输入命令

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start to connect ip 192.168.101.235 port 22 username root at time 2013-03-21 10:23:50

exec result is

10:25pm up 152 days 18:02, 1 user, load average: 0.07, 0.02, 0.00

192.168.101.235 exec command ['uptime'] OK!

end time is 2013-03-21 10:23:51

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please input you want to select command,Ctrl + C to quit:

10、选项10是对组内进行文件的上传与下载

please input you choice:10

------------------------------------Memu list-----------------------------------------------------------

1. Upload file to remote group servers

2. Download file to remote group server

3. Quit

--------------------------------Input number of you want to exec command---------------------------------

Author is DengLei

可以看到选项10里有3个选项

1、把本地的文件上传到组内所有主机里

2、从组内的所有主机下载文件到本机

3、退出

我们先进行1项，把本地的文件上传到组内所有主机里

please input you choice:1

now there is group is

test[2]

please input you choice group:test

You choice test group

please input you want to upload localpath file name,Ctrl + C to quit:/tmp/log #上传本机的文件

please input you want to upload remotepath file name,Ctrl + C to quit:/tmp/test-upload-file-to-group.log #上传到组内主机的文件名

Are you sure upload file from /tmp/log to /tmp/test-upload-file-to-group.log in the test group y

------------------------------- #确认是否传输

start to connect ip 192.168.101.235 port 22 username root at time 2013-03-21 10:28:46

192.168.101.235 exec put /tmp/log to /tmp/test-upload-file-to-group.log OK!

end time is 2013-03-21 10:28:47

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start to connect ip 192.168.101.236 port 22 username root at time 2013-03-21 10:28:47

192.168.101.236 exec put /tmp/log to /tmp/test-upload-file-to-group.log OK!

end time is 2013-03-21 10:28:47

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查询的话就是

please input you choice:8

now there is group is

test[2]

please input you choice group:test

You choice test group

please input you want to select command,Ctrl + C to quit:ls -l /tmp/test-upload-file-to-group.log

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start to connect ip 192.168.101.235 port 22 username root at time 2013-03-21 10:30:42

exec result is

-rw-r--r-- 1 root root 21 Mar 21 22:30 /tmp/test-upload-file-to-group.log

192.168.101.235 exec command ['ls -l /tmp/test-upload-file-to-group.log'] OK!

end time is 2013-03-21 10:30:42

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start to connect ip 192.168.101.236 port 22 username root at time 2013-03-21 10:30:42

exec result is

-rw-r--r-- 1 root root 21 Mar 21 10:28 /tmp/test-upload-file-to-group.log

192.168.101.236 exec command ['ls -l /tmp/test-upload-file-to-group.log'] OK!

end time is 2013-03-21 10:30:43

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下面进行选项2，从组内的所有主机下载文件到本机

please input you choice:10

------------------------------------Memu list-----------------------------------------------------------

1. Upload file to remote group servers

2. Download file to remote group server

3. Quit

--------------------------------Input number of you want to exec command---------------------------------

Author is DengLei

please input you choice:2

now there is group is

test[2]

please input you choice group:test

You choice test group

please input you want to download localpath file name,Ctrl + C to quit:/tmp/test-download-to-group.log

please input you want to download remotepath file name,Ctrl + C to quit:/tmp/test-upload-file-to-group.log

Are you sure download file from /tmp/test-download-to-group.log to /tmp/test-upload-file-to-group.log in the test group y

-------------------------------

start to connect ip 192.168.101.235 port 22 username root at time 2013-03-21 10:32:13

192.168.101.235 exec get /tmp/test-upload-file-to-group.log from /tmp/test-download-to-group.log\_192.168.101.235 OK!

end time is 2013-03-21 10:32:13

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start to connect ip 192.168.101.236 port 22 username root at time 2013-03-21 10:32:13

192.168.101.236 exec get /tmp/test-upload-file-to-group.log from /tmp/test-download-to-group.log\_192.168.101.236 OK!

end time is 2013-03-21 10:32:14

我这回是把之前上传的/tmp/test-upload-file-to-group.log文件给现在到本地，命名为/tmp/test-download-to-group.log，由于是不同主机把文件传给本机，所以我在文件名后面加上了他们的ip好区分。

下面是查看的结果

please input you choice:8

now there is group is

test[2]

please input you choice group:test

You choice test group

please input you want to select command,Ctrl + C to quit:ls -l /tmp/test-download-to-group.log\*

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start to connect ip 192.168.101.235 port 22 username root at time 2013-03-21 10:34:22

exec result is

192.168.101.235 exec command ['ls -l /tmp/test-download-to-group.log\*'] OK!

end time is 2013-03-21 10:34:22

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start to connect ip 192.168.101.236 port 22 username root at time 2013-03-21 10:34:22

exec result is

-rw-r--r-- 1 root root 21 Mar 21 10:32 /tmp/test-download-to-group.log\_192.168.101.235

-rw-r--r-- 1 root root 21 Mar 21 10:32 /tmp/test-download-to-group.log\_192.168.101.236

192.168.101.236 exec command ['ls -l /tmp/test-download-to-group.log\*'] OK!

end time is 2013-03-21 10:34:23

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可以看到主机192.168.101.236已经获得了/tmp/test-download-to-group.log\_192.168.101.235与/tmp/test-download-to-group.log\_192.168.101.236的2个文件

11、选项11是进行组内某主机的上传与下载，也就是单台主机的

please input you choice:11

------------------------------------Memu list-----------------------------------------------------------

1. Upload file to remote one server

2. Download file to remote one server

3. Quit

--------------------------------Input number of you want to exec command---------------------------------

Author is DengLei

里面也有3个选项

1、从本机上传文件给远程主机

2、从远程主机下载文件给本机

3、退出

现在进行选项1，从本机上传文件给远程主机

please input you choice:1

now there is group is

test[2]

Input Group name which the server is in:test

------------------------Server List----------------------------

192.168.101.235

192.168.101.236

Please input you want to execute the command of the host name:192.168.101.235

please input you want to upload localpath file name,Ctrl + C to quit:/tmp/test-download-to-group.log\_192.168.101.236

please input you want to upload remotepath file name,Ctrl + C to quit:/tmp/test-upload-to-host.log

Are you sure upload file from /tmp/test-download-to-group.log\_192.168.101.236 to /tmp/test-upload-to-host.log in the 192.168.101.235 host y

-------------------------------

start to connect ip 192.168.101.235 port 22 username root at time 2013-03-21 10:38:44

192.168.101.235 exec put /tmp/test-download-to-group.log\_192.168.101.236 to /tmp/test-upload-to-host.log OK!

end time is 2013-03-21 10:38:44

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然后查询

please input you choice:9

now there is group is

test[2]

Input Group name which the server is in:test

------------------------Server List----------------------------

192.168.101.235

192.168.101.236

Please input you want to execute the command of the host name:192.168.101.235

please input you want to select command,Ctrl + C to quit:ls -l /tmp/test-upload-to-host.log

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start to connect ip 192.168.101.235 port 22 username root at time 2013-03-21 10:39:59

exec result is

-rw-r--r-- 1 root root 21 Mar 21 22:40 /tmp/test-upload-to-host.log

192.168.101.235 exec command ['ls -l /tmp/test-upload-to-host.log'] OK!

end time is 2013-03-21 10:40:00

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可以看到文件已经上传到192.168.101.235主机了

现在进行选项2，从远程主机下载文件给本机

please input you choice:11

------------------------------------Memu list-----------------------------------------------------------

1. Upload file to remote one server

2. Download file to remote one server

3. Quit

--------------------------------Input number of you want to exec command---------------------------------

Author is DengLei

please input you choice:2

now there is group is

test[2]

Input Group name which the server is in:test

------------------------Server List----------------------------

192.168.101.235

192.168.101.236

Please input you want to execute the command of the host name:192.168.101.235

please input you want to download localpath file name,Ctrl + C to quit:/tmp/test-download-to-host.log

please input you want to download remotepath file name,Ctrl + C to quit:/tmp/test-upload-to-host.log

Are you sure download file from /tmp/test-download-to-host.log to /tmp/test-upload-to-host.log in the 192.168.101.235 host y

-------------------------------

start to connect ip 192.168.101.235 port 22 username root at time 2013-03-21 10:41:04

192.168.101.235 exec get /tmp/test-upload-to-host.log from /tmp/test-download-to-host.log\_192.168.101.235 OK!

end time is 2013-03-21 10:41:04

-------------------------------

进行查看

please input you choice:9

now there is group is

test[2]

Input Group name which the server is in:test

------------------------Server List----------------------------

192.168.101.235

192.168.101.236

Please input you want to execute the command of the host name:192.168.101.236

please input you want to select command,Ctrl + C to quit:ls -l /tmp/test-download-to-host.log\_192.168.101.235

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start to connect ip 192.168.101.236 port 22 username root at time 2013-03-21 10:41:45

exec result is

-rw-r--r-- 1 root root 21 Mar 21 10:41 /tmp/test-download-to-host.log\_192.168.101.235

192.168.101.236 exec command ['ls -l /tmp/test-download-to-host.log\_192.168.101.235'] OK!

end time is 2013-03-21 10:41:46

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也传输成功

12、操作日志查看

所有的操作都有存放到日志里，方便查看

root@squid:/tmp# cd /usr/local/auto\_op/

root@squid:/usr/local/auto\_op# ll

total 44

drwxr-xr-x 4 root root 4096 Mar 21 10:03 ./

drwxr-xr-x 12 root root 4096 Mar 21 10:02 ../

-rwxr-xr-x 1 root root 24783 Mar 21 10:02 auto\_op.py\*

drwxr-xr-x 2 root root 4096 Mar 21 10:09 logs/

drwxr-xr-x 2 root root 4096 Mar 21 10:19 server\_list/

root@squid:/usr/local/auto\_op# cd logs/

root@squid:/usr/local/auto\_op/logs# ll

total 16

drwxr-xr-x 2 root root 4096 Mar 21 10:09 ./

drwxr-xr-x 4 root root 4096 Mar 21 10:03 ../

-rw-r--r-- 1 root root 5415 Mar 21 10:41 operation.log

root@squid:/usr/local/auto\_op/logs# tail -f operation.log

2013-03-21 10:36:40 show group test server list['192.168.101.235', '192.168.101.236']

2013-03-21 10:38:44 192.168.101.235 exec put /tmp/test-download-to-group.log\_192.168.101.236 to /tmp/test-upload-to-host.log OK!

2013-03-21 10:39:08 show group test server list['192.168.101.235', '192.168.101.236']

2013-03-21 10:39:25 192.168.101.235 exec command ['ls -l /tmp/test-download-to-group.log\_192.168.101.236'] OK!

2013-03-21 10:39:50 show group test server list['192.168.101.235', '192.168.101.236']

2013-03-21 10:40:00 192.168.101.235 exec command ['ls -l /tmp/test-upload-to-host.log'] OK!

2013-03-21 10:40:38 show group test server list['192.168.101.235', '192.168.101.236']

2013-03-21 10:41:04 192.168.101.235 exec get /tmp/test-upload-to-host.log from /tmp/test-download-to-host.log\_192.168.101.235 OK!

2013-03-21 10:41:24 show group test server list['192.168.101.235', '192.168.101.236']

2013-03-21 10:41:46 192.168.101.236 exec command ['ls -l /tmp/test-download-to-host.log\_192.168.101.235'] OK!

可以看到之前的操作