

Setup Guide of Iperf Daemon for Linux

2022.11.24

Ubuntu 14.04.1, 64bits
CentOS 7.6.1810/2009 64bits

Iperf Daemon for Linux – Install

1. Copy “IperfDaemon.tar.gz” to Linux server.
2. Extract IperfDaemon.tar.gz
-> `tar -zxvf IperfDaemon.tar.gz`
3. Enter the IperfDaemon folder.
-> `cd IperfDaemon`
4. Check the version of the IperfDaemon.
-> `./IperfDaemon2 -v`
5. If you want to install Iperf in the OS, run shell script file (#iperf_setup.sh).
-> `./ #iperf_setup.sh`

Iperf Daemon for Linux – Install

```
owner@INNO-C-287: ~/workspace/IperfDaemon
파일(F) 편집(E) 보기(V) 검색(S) 터미널(T) 도움말(H)
owner@INNO-C-287:~/workspace/IperfDaemon$ ./IperfDaemon2
Kill netstat

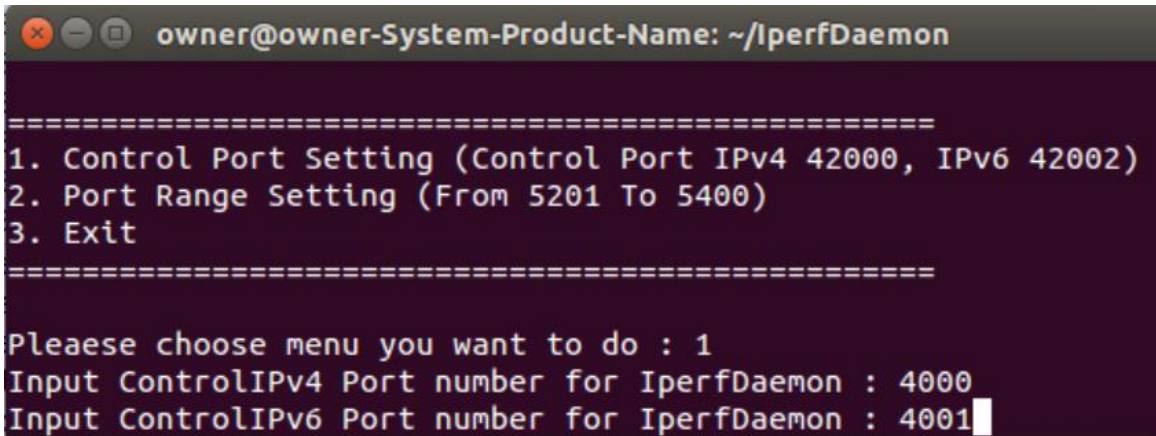
Kill Iperf

/home/owner/workspace/IperfDaemon
█
```

6. Run IperfDaemon2
->./IperfDaemon2

Iperf Daemon for Linux – Control Port Setting

1. Execute #Daemon_Setting.sh in IperfDaemon folder.
-> ./Daemon_PortSetting.sh
2. You can change Control Port number using “1. Control Port Setting”.
3. Input control port number. (Default control port, IPv4 42000, IPv6 42002)



```
owner@owner-System-Product-Name: ~/IperfDaemon
=====
1. Control Port Setting (Control Port IPv4 42000, IPv6 42002)
2. Port Range Setting (From 5201 To 5400)
3. Exit
=====
Please choose menu you want to do : 1
Input ControlIPv4 Port number for IperfDaemon : 4000
Input ControlIPv6 Port number for IperfDaemon : 4001
```

4. Run IperfDaemon2 again.
-> ./IperfDaemon2

Iperf Daemon for Linux – Port Range Setting

1. Execute Daemon_PortSetting.sh in IperfDaemon folder.
-> ./Daemon_PortSetting.sh

2. You can change Control Port number using “2. Control Port Setting”.

3. Start Port Num is first port number for using Iperf.

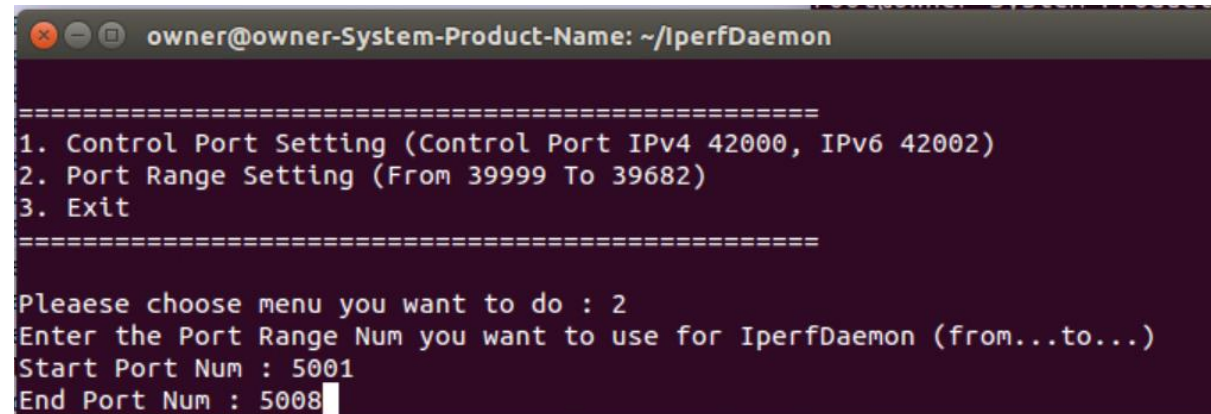
4. End Port Num is last port number for using Iperf.

Ex>

If you want to use Iperf port from 5001 to 5008(8 ports),
Please enter Start Port Num : 5001, End Port Num : 5008

5. Run IperfDaemon2 again.

->./IperfDaemon2



```
owner@owner-System-Product-Name: ~/IperfDaemon
=====
1. Control Port Setting (Control Port IPv4 42000, IPv6 42002)
2. Port Range Setting (From 39999 To 39682)
3. Exit
=====
Pleasease choose menu you want to do : 2
Enter the Port Range Num you want to use for IperfDaemon (from...to...)
Start Port Num : 5001
End Port Num : 5008
```

Iperf Daemon for Linux – Trouble shooting

<Case 1 – Socket bind fail>

This Error message is triggered by using TCP port for Control Port of IperfDaemon in any process when executing IperfDaemon.

In this case, It is too difficult to find interrupting process.
I recommend that just reboot Iperf server PC.

<Normal status>

```

root@ubuntu-QuantaGrid-D52BQ-2U-3UPI:~/Accuver/IperfDaemon# ./IperfDaemon -v
1.0.0.1
root@ubuntu-QuantaGrid-D52BQ-2U-3UPI:~/Accuver/IperfDaemon# ./IperfDaemon
/root/Accuver/IperfDaemon
File Opened
42000
42002
5400
5201

File Opened
42000
42002
5400
5201

Start Server
Start Server
allive - 0
Client Cnt 0
Iperf Cnt 0
allive - 0

```

<Error status>

```

socket bind fail!: Address already in use
File Opened
42000
42002
5400
5201

socket bind fail!: Address already in use
allive - 0
Client Cnt 0
Iperf Cnt 0
allive - 0
Client Cnt 0
Iperf Cnt 0
allive - 0
Client Cnt 0
Iperf Cnt 0

```

Iperf Daemon for Linux – Trouble shooting

<Debugging method 1 – Checking Listening Port>

Enter “netstat -anp tcp | grep ###” after executing Iperf Daemon.
(ex: netstat -anp tcp | grep 4200, if control ports are 42000, 42002)
TCP 42000 and TCP6 42002 ports should be “LISTEN” like below it.

```
owner@owner-System-Product-Name: ~/IperfDaemon
owner@owner-System-Product-Name:~/IperfDaemon$ netstat -anp tcp | grep 4200
(Not all processes could be identified, non-owned process info
 will not be shown, you would have to be root to see it all.)
tcp        0      0 0.0.0.0:42000        0.0.0.0:*          LISTEN    -
tcp6      0      0 :::42002           :::*               LISTEN    -
owner@owner-System-Product-Name:~/IperfDaemon$
```

<Debugging method 2 – Checking IperfDaemon Process>

Enter “ps -aux | grep IperfDaemon” after executing Iperf Daemon.
IperfDaemon process should be displayed like below it.

```
owner@owner-System-Product-Name: ~/IperfDaemon
owner@owner-System-Product-Name:~/IperfDaemon$ ps -aux | grep IperfDaemon
root      16981  99.9  0.0  31260  1372 pts/4    Rl+  18:26   5:31 ./IperfDaemon
owner     17026   0.0  0.0  17156   984 pts/3    S+   18:32   0:00 grep --color=auto IperfDaemon
owner@owner-System-Product-Name:~/IperfDaemon$
```

Thanks
