

北京华夏易联科技开发有限公司

即时通讯系统

部署手册

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多人音视频系统部署

一、特殊说明

目前只支持 优麒麟 16.04 LTS(长期支持)版本-64 位系统, 系统远程链接工具推荐使用

Xmanager Enterprise5.0;

系 统 镜 像 下 载 地 址 :

<http://cdimage.ubuntu.com/ubuntukylin/releases/16.04/release/ubuntukylin-1>

6.04-desktop-amd64.iso

二、部署环境

- 1、 将
- 2、 1Video 文件夹通过 FTP 工具或其他方式上传到服务器中, 以/home/hxyl 文件夹为例。

```
total 104
drwxr-xr-x 17 hxyl hxyl 4096 Jan  6 00:21 ./
drwxr-xr-x  3 root root 4096 Mar  8 2019 ../
-rw-----  1 hxyl hxyl   82 Jan  6 00:10 .bash_history
-rw-r--r--  1 hxyl hxyl  220 Mar  8 2019 .bash_logout
-rw-r--r--  1 hxyl hxyl 3771 Mar  8 2019 .bashrc
drwx----- 15 hxyl hxyl 4096 Jan  6 00:15 .cache/
drwx----- 15 hxyl hxyl 4096 Mar  8 2019 .config/
drwxr-xr-x  2 hxyl hxyl 4096 Mar  8 2019 Desktop/
-rw-r--r--  1 hxyl hxyl   25 Mar  8 2019 .dmrc
drwxr-xr-x  2 hxyl hxyl 4096 Mar  8 2019 Documents/
drwxr-xr-x  2 hxyl hxyl 4096 Mar  8 2019 Downloads/
drwx-----  2 hxyl hxyl 4096 Jan  6 00:11 .gconf/
drwx-----  3 hxyl hxyl 4096 Jan  6 00:11 .gnupg/
-rw-----  1 hxyl hxyl 1908 Jan  6 00:11 .ICEauthority
drwx-----  3 hxyl hxyl 4096 Mar  8 2019 .local/
drwxr-xr-x  2 hxyl hxyl 4096 Mar  8 2019 Music/
drwxr-xr-x  2 hxyl hxyl 4096 Mar  8 2019 Pictures/
-rw-r--r--  1 hxyl hxyl  675 Mar  8 2019 .profile
drwxr-xr-x  2 hxyl hxyl 4096 Mar  8 2019 Public/
drwxrwxrwx  3 hxyl hxyl 4096 Mar 10 2019 ssh/
-rw-r--r--  1 hxyl hxyl    0 Jan  5 23:13 .sudo_as_admin_successful
drwxr-xr-x  2 hxyl hxyl 4096 Mar  8 2019 Templates/
drwxrwxr-x  6 hxyl hxyl 4096 Jan  6 00:22 Video/
drwxrwxrwx  3 hxyl hxyl 4096 Mar 10 2019 vim/
-rw-----  1 hxyl hxyl  103 Jan  6 00:15 .Xauthority
-rw-----  1 hxyl hxyl   82 Jan  6 00:11 .xsession-errors
-rw-----  1 hxyl hxyl  739 Jan  6 00:10 .xsession-errors.old
root@ubuntu:/home/hxyl#
```

- 3、 输入 “cd /home/hxyl” 进入到 Video 文件夹下;

```
root@ubuntu:~# cd /home/hxyl/Video/  
root@ubuntu:/home/hxyl/Video# █
```

- 4、 输入 “sudo chmod +x php.sh” 将 “php.sh” 赋权;

```
root@ubuntu:~# cd /home/hxyl/Video/  
root@ubuntu:/home/hxyl/Video# sudo chmod +x php.sh  
root@ubuntu:/home/hxyl/Video# █
```

- 5、 执行 “sudo rm /var/lib/dpkg/lock” ;

```
root@ubuntu:~# cd /home/hxyl/Video/  
root@ubuntu:/home/hxyl/Video# sudo chmod +x php.sh  
root@ubuntu:/home/hxyl/Video# sudo rm /var/lib/dpkg/lock  
root@ubuntu:/home/hxyl/Video# █
```

- 6、 输入 “sudo ./php.sh” 执行 php.sh 文件, 待程序自动运行完成;

```
pm2/node_modules/sprintf-js/dist/angular-sprintf.min.js  
pm2/node_modules/sprintf-js/bower.json  
pm2/node_modules/sprintf-js/gulpfile.js  
pm2/node_modules/sprintf-js/.eslintignore  
pm2/node_modules/sprintf-js/demo/  
pm2/node_modules/sprintf-js/demo/angular.html  
pm2/node_modules/sprintf-js/LICENSE  
pm2/node_modules/sprintf-js/src/  
pm2/node_modules/sprintf-js/src/angular-sprintf.js  
pm2/node_modules/sprintf-js/src/sprintf.js  
pm2/node_modules/sprintf-js/test/  
pm2/node_modules/sprintf-js/test/test_validation.js  
pm2/node_modules/sprintf-js/test/test.js  
pm2/node_modules/sprintf-js/CHANGELOG.md  
pm2/node_modules/sprintf-js/package.json  
pm2/node_modules/sprintf-js/.travis.yml  
pm2/GNU-AGPL-3.0.txt  
pm2/LICENSE  
pm2/CHANGELOG.md  
pm2/.drone.yml  
pm2/currentTagChangelog.md  
pm2/package.json  
pm2/.travis.yml  
ubuntu-16.04-x64/  
ubuntu-16.04-x64/.DS_Store  
ubuntu-16.04-x64/.DS_Store  
ubuntu-16.04-x64/vvroom-server-linux-x64  
ubuntu-16.04-x64/worker  
root@ubuntu:/home/hxyl/Video# █
```

注: 在执行脚本时如果程序提示“.....dpkg 状态数据库 加锁”的信息, 那么先执行“sudo rm /var/lib/dpkg/lock”命令, 然后再次运行脚本, 如果执行一次后仍有该提示那么再次运行此命令。

三、 服务部署

- 1、执行 “sudo su -” 命令切换至 root 用户
- 2、输入 “/var/www/html/configs.php” 编辑文件,

```
pm2/node_modules/sprintf-js/dist/angular-sprintf.min.js
pm2/node_modules/sprintf-js/bower.json
pm2/node_modules/sprintf-js/gulpfile.js
pm2/node_modules/sprintf-js/.eslintignore
pm2/node_modules/sprintf-js/demo/
pm2/node_modules/sprintf-js/demo/angular.html
pm2/node_modules/sprintf-js/LICENSE
pm2/node_modules/sprintf-js/src/
pm2/node_modules/sprintf-js/src/angular-sprintf.js
pm2/node_modules/sprintf-js/src/sprintf.js
pm2/node_modules/sprintf-js/test/
pm2/node_modules/sprintf-js/test/test_validation.js
pm2/node_modules/sprintf-js/test/test.js
pm2/node_modules/sprintf-js/CHANGELOG.md
pm2/node_modules/sprintf-js/package.json
pm2/node_modules/sprintf-js/.travis.yml
pm2/GNU-AGPL-3.0.txt
pm2/LICENSE
pm2/CHANGELOG.md
pm2/.drone.yml
pm2/currentTagChangelog.md
pm2/package.json
pm2/.travis.yml
ubuntu-16.04-x64/
ubuntu-16.04-x64/.DS_Store
ubuntu-16.04-x64/.DS_Store
ubuntu-16.04-x64/vvroom-server-linux-x64
ubuntu-16.04-x64/worker
root@ubuntu:/home/hxyl/Video# vi /var/www/html/configs.php
```

向下翻页至下图所示信息，点击 “i” 进入编辑模式，修改其中数据库连接信息，填写正确的数据库信息；

修改完后点击 Esc 并输入 “:wq” 保存退出；

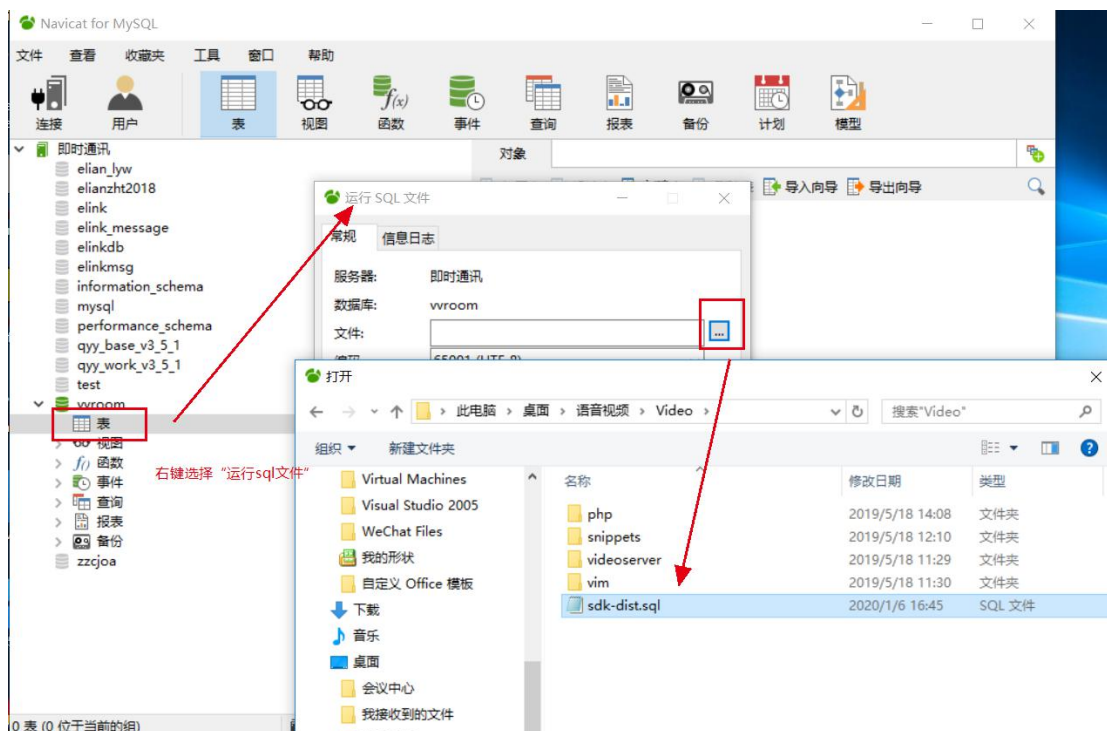
```
$configs['database']['driver'] = 'mysql';  
$configs['database']['host'] = 'localhost:3307';  
$configs['database']['port'] = '3306';  
$configs['database']['username'] = 'root';  
$configs['database']['password'] = 'hxy11211';  
$configs['database']['database'] = 'vvroom';  
$configs['database']['charset'] = 'utf8';
```

注：当数据库端口有改变时在 IP 地址后面直接加冒号端口即可，不用修改下方的 port 参数

3、在 mysql 数据库中新建名称为“vvroom”的数据库，字符集和排序规则如下图所示



4、进入 vvroom 数据库中，将“sdk-dist.sql”导入到数据库中；



5、编辑/usr/local/nginx/conf/nginx.conf 文件;

```

pm2/node_modules/sprintf-js/test/test_validation.js
pm2/node_modules/sprintf-js/test/test.js
pm2/node_modules/sprintf-js/CHANGELOG.md
pm2/node_modules/sprintf-js/package.json
pm2/node_modules/sprintf-js/.travis.yml
pm2/GNU-AGPL-3.0.txt
pm2/LICENSE
pm2/CHANGELOG.md
pm2/.drone.yml
pm2/currentTagChangeLog.md
pm2/package.json
pm2/.travis.yml
ubuntu-16.04-x64/
ubuntu-16.04-x64/.DS_Store
ubuntu-16.04-x64/.DS_Store
ubuntu-16.04-x64/vvroom-server-linux-x64
ubuntu-16.04-x64/worker
root@ubuntu:/home/hxyl/Video# vi /var/www/html/configs.php
root@ubuntu:/home/hxyl/Video# telnet 192.168.2.95 3307
Trying 192.168.2.95...
^C
root@ubuntu:/home/hxyl/Video# telnet 192.168.2.176 3307
Trying 192.168.2.176...
Connected to 192.168.2.176.
Escape character is '^]'.
J
5.6.10nXPg7{'M.?1twyyu^UoRmysql_native_passwordConnection closed by foreign host.
root@ubuntu:/home/hxyl/Video# vi /var/www/html/configs.php
root@ubuntu:/home/hxyl/Video# vi /usr/local/nginx/conf/nginx.conf

```

点击 “i” 进入编辑模式，将里面 server{*}) 的白色字体内容内容前面加#号键全部注释掉，

然后写入以下内容（**建议直接复制粘贴，避免误输空格导致异常**）

```
#gzip on;

server {
    listen      80;
    server_name localhost;

    #charset koi8-r;

    #access_log logs/host.access.log main;

    location / {
        root    html;
        index  index.html index.htm;
    }

    #error_page 404              /404.html;

    # redirect server error pages to the static page /50x.html
    #
    error_page   500 502 503 504  /50x.html;
    location = /50x.html {
        root    html;
    }

    # proxy the PHP scripts to Apache listening on 127.0.0.1:80
    #
    #location ~ \.php$ {
```

34,0-1

34%

```
    # proxy the PHP scripts to Apache listening on 127.0.0.1:80
    #
    #location ~ \.php$ {
        #    proxy_pass    http://127.0.0.1;
    #}

    # pass the PHP scripts to FastCGI server listening on 127.0.0.1:9000
    #
    #location ~ \.php$ {
        #    root            html;
        #    fastcgi_pass    127.0.0.1:9000;
        #    fastcgi_index  index.php;
        #    fastcgi_param  SCRIPT_FILENAME  /scripts$fastcgi_script_name;
        #    include        fastcgi_params;
    #}

    # deny access to .htaccess files, if Apache's document root
    # concurs with nginx's one
    #
    #location ~ /\.ht {
        #    deny  all;
    #}

    # another virtual host using mix of IP-, name-, and port-based configuration
    #
```

56,0-1

61%

```

server {
    listen 80;
    root /var/www/html/public;
    index index.php index.html index.htm index.nginx-debian.html;
    server_name _;
    location / {
        try_files $uri $uri/ /index.php?$query_string;

#index 前的//中间有空格

    }
    location ~ \.php$ {
        include snippets/fastcgi-php.conf;
        fastcgi_pass unix:/run/php/php7.0-fpm.sock;
    }
}

```



```

server {
    listen 80;

    root /var/www/html/public;
    index index.php index.html index.htm index.nginx-debian.html;
    server_name _;
    location / {
        try_files $uri $uri/ /index.php?$query_string;
    }
    location ~ \.php$ {
        include snippets/fastcgi-php.conf;
        fastcgi_pass unix:/run/php/php7.0-fpm.sock;
    }
}

```

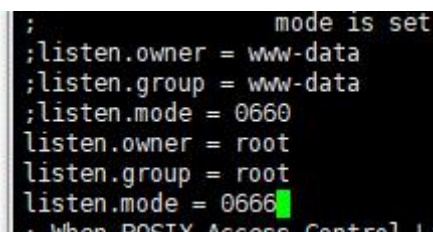
修改完后，输入 “:wq” 保存退出；

6、输入 “vi /etc/php/7.0/fpm/pool.d/www.conf” 打开文件，点击 “i” 编辑文件，然后修改以下内容，修改完成后输入 “:wq” 保存退出；

```

listen.owner = root
listen.group = root
listen.mode = 0666

```



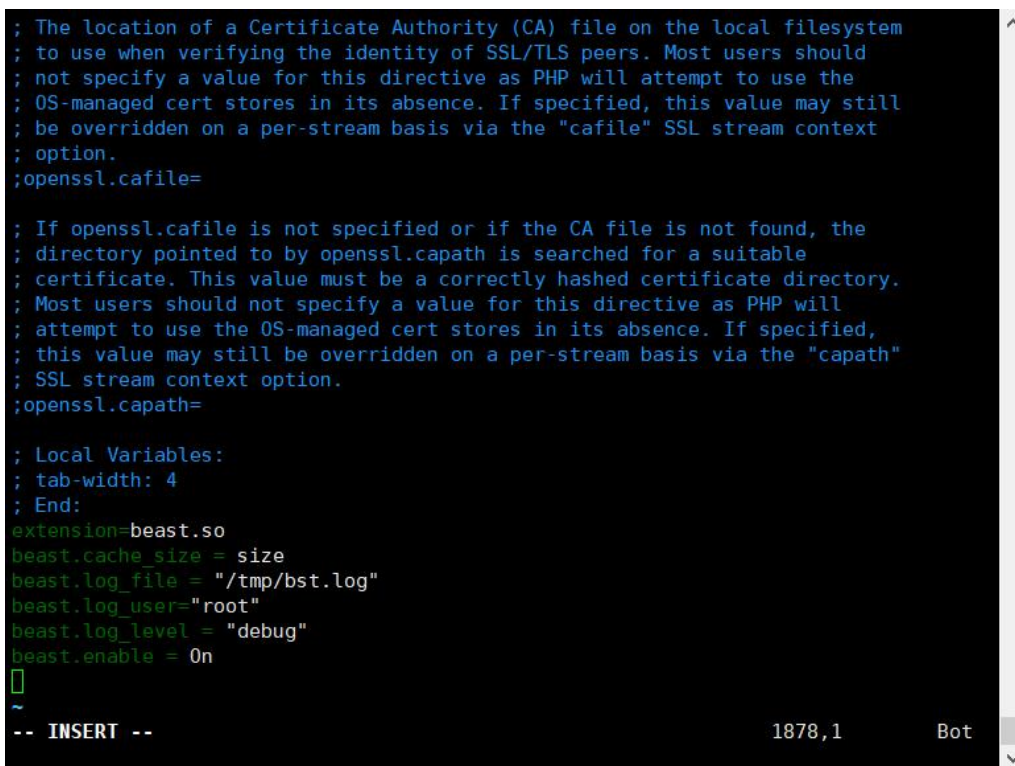
```

; mode is set
;listen.owner = www-data
;listen.group = www-data
;listen.mode = 0660
listen.owner = root
listen.group = root
listen.mode = 0666
; When POSTY Access Control is

```

7、输入 “vi /etc/php/7.0/fpm/php.ini” 打开文件，点击 “i” 编辑文件，在最下方加入如下内容，完成后点击 Esc 并输入 “:wq” 保存退出；

```
extension=beast.so
beast.cache_size = size
beast.log_file = "/tmp/bst.log"
beast.log_user="root"
beast.log_level = "debug"
beast.enable = On
```



```
; The location of a Certificate Authority (CA) file on the local filesystem
; to use when verifying the identity of SSL/TLS peers. Most users should
; not specify a value for this directive as PHP will attempt to use the
; OS-managed cert stores in its absence. If specified, this value may still
; be overridden on a per-stream basis via the "cafile" SSL stream context
; option.
;openssl.cafile=

; If openssl.cafile is not specified or if the CA file is not found, the
; directory pointed to by openssl.capath is searched for a suitable
; certificate. This value must be a correctly hashed certificate directory.
; Most users should not specify a value for this directive as PHP will
; attempt to use the OS-managed cert stores in its absence. If specified,
; this value may still be overridden on a per-stream basis via the "capath"
; SSL stream context option.
;openssl.capath=

; Local Variables:
; tab-width: 4
; End:
extension=beast.so
beast.cache_size = size
beast.log_file = "/tmp/bst.log"
beast.log_user="root"
beast.log_level = "debug"
beast.enable = On
~
-- INSERT --                               1878,1       Bot
```

- 8、输入“vi /etc/php/7.0/cli/php.ini”打开文件，输入“i”编辑文件，在最下面加入以下内容，完成后点击 Esc 并输入“:wq”保存退出；

```
extension=beast.so
beast.cache_size = size
beast.log_file = "/tmp/bst.log"
beast.log_user="root"
beast.log_level = "debug"
beast.enable = On
```

```

; About php.ini ;
; PHP's initialization file, generally called php.ini, is responsible for
; configuring many of the aspects of PHP's behavior.

; PHP attempts to find and load this configuration from a number of locations.
; The following is a summary of its search order:
; 1. SAPI module specific location.
; 2. The PHPRC environment variable. (As of PHP 5.2.0)
; 3. A number of predefined registry keys on Windows (As of PHP 5.2.0)
; 4. Current working directory (except CLI)
; 5. The web server's directory (for SAPI modules), or directory of PHP
; (otherwise in Windows)
; 6. The directory from the --with-config-file-path compile time option, or the
; Windows directory (C:\windows or C:\winnt)
; See the PHP docs for more specific information.
; http://php.net/configuration.file

; End:
extension=beast.so
beast.cache_size = size
beast.log_file = "/tmp/bst.log"
beast.log_user="root"
beast.log_level = "debug"
beast.enable = 0n
~

```

- 8、将 sdk.lic 授权文件拷贝至/var/www/html 目录下（如没有 sdk.lic 授权文件请联系商务人员）
- 9、执行 “service php7.0-fpm restart” 重启 php 服务；

```

pm2/node_modules/sprintf-js/.travis.yml
pm2/GNU-AGPL-3.0.txt
pm2/LICENSE
pm2/CHANGELOG.md
pm2/.drone.yml
pm2/currentTagChangelog.md
pm2/package.json
pm2/.travis.yml
ubuntu-16.04-x64/
ubuntu-16.04-x64/.DS_Store
ubuntu-16.04-x64/.DS_Store
ubuntu-16.04-x64/vvroom-server-linux-x64
ubuntu-16.04-x64/worker
root@ubuntu:/home/hxyl/Video# vi /var/www/html/configs.php
root@ubuntu:/home/hxyl/Video# telnet 192.168.2.95 3307
Trying 192.168.2.95...
^C
root@ubuntu:/home/hxyl/Video# telnet 192.168.2.176 3307
Trying 192.168.2.176...
Connected to 192.168.2.176.
Escape character is '^]'.
J
5.6.10nXPg7{'M.?1twyyu^UoRmysql_native_passwordConnection closed by foreign host.
root@ubuntu:/home/hxyl/Video# vi /var/www/html/configs.php
root@ubuntu:/home/hxyl/Video# vi /usr/local/nginx/conf/nginx.conf
root@ubuntu:/home/hxyl/Video# vim /etc/php/7.0/fpm/php.ini
root@ubuntu:/home/hxyl/Video# vim /etc/php/7.0/cli/php.ini
root@ubuntu:/home/hxyl/Video# service php7.0-fpm restart
root@ubuntu:/home/hxyl/Video# █

```

10、执行 “#/usr/local/nginx/sbin/nginx -c /usr/local/nginx/conf/nginx.conf” 命令

启动 nginx 服务;

```

5.6.10nXPg7{'M.?1twyyu^UoRmysql_native_passwordConnection closed by foreign host.
root@ubuntu:/home/hxyl/Video# vi /var/www/html/configs.php
root@ubuntu:/home/hxyl/Video# vi /usr/local/nginx/conf/nginx.conf
root@ubuntu:/home/hxyl/Video# vim /etc/php/7.0/fpm/php.ini
root@ubuntu:/home/hxyl/Video# vim /etc/php/7.0/cli/php.ini
root@ubuntu:/home/hxyl/Video# service php7.0-fpm restart
root@ubuntu:/home/hxyl/Video# /usr/local/nginx/sbin/nginx -c /usr/local/nginx/conf
/nginx.conf

```

注: 重启 nginx 命令为 (/usr/local/nginx/sbin/nginx -s reload)

11、输入 “cd /opt/ubuntu-16.04-x64” 目录下，执行命令 “pm2 start

vvroom-server-linux-x64 -- --apiServer=http://服务器 IP --videoCodec=VP9 ”

注: 如外网使用则命令为 “#pm2 start vvroom-server-linux-x64 -- --apiServer=http://

服务器 IP --videoCodec=VP9 --IPV4=外网 IP”

```

root@hxyzl-virtual-machine:/home/hxyzl/down/ubuntu-16.04-x64# ll
总用量 70376
drwxr-xr-x 2 502 staff 4096 4月 16 15:57 ./
drwxrwxr-x 6 hxyzl hxyzl 4096 4月 16 17:45 ../
-rw-r--r-- 1 502 staff 120 4月 16 15:57 ._DS_Store
-rw-r--r-- 1 502 staff 6148 4月 16 15:57 .DS_Store
-rwxr-xr-x 1 502 staff 47401910 4月 16 15:56 vvroom-server-linux-x64*
-rwxr-xr-x 1 502 staff 24640208 4月 10 08:56 worker*
root@hxyzl-virtual-machine:/home/hxyzl/down/ubuntu-16.04-x64# pm2 start vvroom-server-linux-x64 -- --apiServer=http://192.168.2.114
[PM2] Starting /home/hxyzl/down/ubuntu-16.04-x64/vvroom-server-linux-x64 in fork_mode (1 instance)
[PM2] Done.

```

App name	id	mode	pid	status	restart	uptime	cpu	mem	user	watching
vvroom-server-linux-x64	0	fork	4887	online	0	0s	0%	2.6 MB	root	disabled

Use `pm2 show <id|name>` to get more details about an app

12、执行“#pm2 list”可查看当前服务是否启动

```

root@hxyzl-virtual-machine:/home/hxyzl/down/ubuntu-16.04-x64# pm2 list

```

App name	id	mode	pid	status	restart	uptime	cpu	mem	user	watching
vvroom-server-linux-x64	0	fork	4887	online	0	7s	0%	57.8 MB	root	disabled

Use `pm2 show <id|name>` to get more details about an app

四、即时通讯参数配置

- 1、进入到即时通讯服务器管理控制台的系统配置页面
- 2、新建如下图所示信息并保存

参数名称: conference.switch

参数值: 1

conference.switch	1	系统参数	语音视频开关; 0: 关, 1: 开
-------------------	---	------	--------------------

- 3、打开到即时通讯服务器配置文件, 在最后输入以下参数, 如已有则修改红框中相应信息

```

#公钥
shinevv.accesskey=1xJLyMnjHjoTI1Ez1cuaw3MEI6MX5hbT
#私钥
shinevv.securekey=Ky4r7F9n4Ps9kwH5v7fENpKIw2j
#EIMServer服务器调用Shinevv服务器接口的地址, 可以是内网ip
shinevv.server.apiurl=http://218.241.204.173/api/v1/
#客户端连接Shinevv服务器的ip, 如果有外网访问的话必须是外网ip
shinevv.server.ip=218.241.204.173
#客户端连接Shinevv服务器的端口, 如果有外网访问的话必须是外网端口
shinevv.server.port=3443

```

- 4、完成以上设置后重启即时通讯服务

五、端口信息

TCP: 3443

udp: 40000-49999

