**Service云端部署运维操作步骤**

**V1.1**

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# 概述

本文档主要描述VoIP Media Service系统的软件环境部署及安装说明，包括安装过程中简单的故障排查。

## 1.1网络带宽要求

内网带宽：建议100M或以上

外网带宽：建议10M或以上，此项须根据用户数及活跃度进行自由分配，初期用户少可先不用考虑，后期根据需要进行提升即可。

## 1.2硬件配置要求

建议4核8G或以上

## 1.3软件配置要求

Linux OS: CentOS 7 x86\_64（minimal）

# 2.安装步骤

## 2.1准备安装包

将安装包VoIPMediaService\_V01.tar.gz上传至相应的服务器相应路径下，解压缩后进入此目录：

tar –xvf VoIPMediaService\_V01.tar.gz

cd VoIPMediaService\_V01

## 2.2安装定制化软件源

rpm -ivh http://repo.mysql.com/mysql-community-release-el7-5.noarch.rpm

cp -f internal\_repo/mysql-community.repo /etc/yum.repos.d/

rpm -ivh http://mirror.webtatic.com/yum/el7/epel-release.rpm

rpm -ivh http://mirror.webtatic.com/yum/el7/webtatic-release.rpm

cp -f internal\_repo/webtatic.repo /etc/yum.repos.d/

## 2.3关闭系统防火墙

setenforce 0

sed -i 's/SELINUX=enforcing/SELINUX=disabled/g' /etc/selinux/config

systemctl stop firewalld

systemctl disable firewalld

systemctl daemon-reexec

## 2.4数据库安装部署

### 2.3.1安装MySQL 5.5

yum install -y mysql-community-server

systemctl restart mysqld.service

systemctl enable mysqld

### 2.3.2配置权限

cat > /tmp/mysql\_sec\_script<<EOF

use mysql;

set names utf8;

grant all privileges on \*.\* to asterisk@'%' identified by '1q2w3e4r';

grant all privileges on \*.\* to asterisk@localhost identified by '1q2w3e4r';

flush privileges;

create database asterisk;

EOF

mysql -u root -h localhost < /tmp/mysql\_sec\_script

rm -f /tmp/mysql\_sec\_script

echo -e "\nexpire\_logs\_days = 10" >> /etc/my.cnf

sed -i '/skip-external-locking/a\max\_connections = 1000' /etc/my.cnf

### 2.3.3导入表结构

mysql -uasterisk -p1q2w3e4r asterisk < internal\_data/asterisk-aio.sql

mysql -uasterisk -p1q2w3e4r asterisk < internal\_data/ p\_ipphone\_user\_register\_by\_mail.sql

systemctl restart mysqld.service

### 2.3.4手动修改相关配置

命令行执行:mysql

进入MySQL控制台(假设服务器IP为192.168.0.131)

>use asterisk;

>UPDATE `server\_config` SET ip = '192.168.0.131' WHERE ip = '192.168.4.121';

>UPDATE `server\_config` SET max\_loading = '1000';

>UPDATE `base\_config` SET `value`='127.0.0.1' WHERE `key` = 'mec.server.ip';

>UPDATE `base\_config` SET `value`='192.168.0.131' WHERE `value`='192.168.4.121';

>UPDATE `base\_config` SET `value`='1q2w3e4r' WHERE `key`='DB\_PASS';

>UPDATE `base\_config` SET `value`='1q2w3e4r' WHERE `key`='IPPHONE\_DB\_PASS';

>UPDATE `base\_config` SET `value`='1q2w3e4r' WHERE `key`='SLAVE\_DB\_PASS';

>UPDATE `base\_config` SET `value`='1q2w3e4r' WHERE `key`='MASTER\_DB\_PASS';

>UPDATE `base\_config` SET `value`='http://192.168.0.131' WHERE `key`='mobile.stickerpath';

>UPDATE `base\_config` SET `value`='192.168.0.131:465' WHERE `key`='mail\_server';

>CALL `p\_iphone\_number\_pool`(86,40000000,40001000);

>quit;

mkdir –p /var/NFS/mms

mkdir –p /var/NFS/headimg

chmod 777 /var/NFS/mms

chmod 777 /var/NFS/ headimg

### 2.3.5安装PHP 5.5

yum install -y php55w php55w-cli php55w-common

yum install -y php55w-mbstring php55w-xml php55w-pecl-apc php55w-pecl-apcu php55w-pecl-memcached php55w-pear php55w-fpm php55w-gd php55w-xmlrpc php55w-mysql php55w-mcrypt php55w-devel php55w-tidy php55w-pdo php55w-pecl-geoip

mv /etc/php.ini /etc/php.ini.org

cp internal\_config/php.ini /etc/php.ini

systemctl restart php-fpm.service

### 2.3.6安装nginx

yum install nginx

ulimit -SHn 51200

mv /etc/nginx/nginx.conf /etc/nginx/nginx.conf.org

cp internal\_config/nginx.conf /etc/nginx/nginx.conf

systemctl restart nginx.service

### 2.3.7安装JDK 7及修改配置

rpm -ivh jdk-7u71-linux-x64.rpm

vi /etc/profile

export JAVA\_HOME=/usr/java/jdk1.7.0\_71

export CLASSPATH=.:$JAVA\_HOME/jre/lib/rt.jar:$JAVA\_HOME/lib/dt.jar:$JAVA\_HOME/lib/tools.jar

export PATH=$PATH:$JAVA\_HOME/bin

### 2.3.8安装Push Service

yum install memcached

memcached -d -p11211 -u memcached -m 64 -c 1024 –P/var/run/memcached/memcached.pid

tar xvf fps.tar.gz

cd fps

yum install json-c json-c-devel openssl-devel telnet

make WITH\_TLS=no

make install WITH\_TLS=no

cp ../internal\_config/mosquitto1183.conf /etc/mosquitto/

cp ../internal\_config/mosquitto1184.conf /etc/mosquitto/

mosquitto -c /etc/mosquitto/mosquitto1183.conf –d

mosquitto -c /etc/mosquitto/mosquitto1184.conf **–**d

cd ../

cp mec.tar.gz /usr/local

cd /usr/local

tar xvf mec.tar.gz

cd mec/

sh monitor\_mec.sh

### 2.3.8安装VoIP Service

yum install -y gcc gcc-c++ uuid-devel libuuid-devel sqlite-devel libedit-devel libsrtp libsrtp-devel opus opus-devel alsa-lib

cd /home/VoIP/VoIPMediaService\_Install\_V01

tar xfz libiconv-1.14.tar.gz

cd libiconv-1.14

./configure && make && make install

ln -s /usr/local/lib/libiconv.so.2 /usr/lib64/libiconv.so.2

cd ../

rpm -ivh asterisk-11.16.0-2.0.1.x86\_64.rpm –nodeps

cd internal\_data/

cp codec\_g729.so /usr/lib64/asterisk/modules/

cd ../

cp -f internal\_config/asterisk\_config/\* /etc/asterisk/

sed -i 's/192.168.4.121/192.168.0.131/g' /etc/asterisk/iax.conf

systemctl restart asterisk.service

systemctl enable asterisk.service

rpm -ivh relayserver-2.0-0.x86\_64.rpm

/usr/local/bin/relayserver

### 2.3.9安装Web Service

tar xvf web\_api\_v01.tar.gz

mv web\_api\_v01/var/www/html/\* /var/www/html/

mv web\_api\_v01/etc/\* /etc/

mkdir /var/log/voipserver

chmod 777 /var/log/voipserver/

find /var/www/html/ -type f -name "tempConfig.ini" | xargs chmod 777

sed -i "s/192.168.4.114/192.168.0.131/g" /var/www/html/rootcs/2.0/get\_cs\_address.php

sed -i "s/192.168.4.114/192.168.0.131/g" /var/www/html/shared/publicFun.php

sed -i "s/192.168.4.114/192.168.0.131/g" /var/www/html/cs/2.0/config/\*.html

sed -i "s/192.168.4.114/192.168.0.131/g" /var/www/html/app/protected/config/main.php

### 2.3.10开机启动

vi /etc/rc.local添加以下行：

/sbin/service nginx restart

/sbin/service php-fpm restart

/sbin/service mysqld restart

/sbin/service asterisk restart

/usr/local/sbin/mosquitto -c /etc/mosquitto/mosquitto1183.conf -d

/usr/local/sbin/mosquitto -c /etc/mosquitto/mosquitto1184.conf -d

/usr/bin/memcached -d -p 11211 -u memcached -m 64 -c 1024 –P/var/run/memcached/memcached.pid

cd /usr/local/mec

/bin/sh monitor\_mec.sh

/usr/local/bin/relayserver

增加可执行权限

chmod +x /etc/rc.d/rc.local