Httpd+源码安装php7

环境：centos7.4虚拟机1台，搭建好yum，关闭防火墙、SELinux，清空iptables规则

规划：IP地址：192.168.1.1

说明：httpd采用rpm包方式，源码安装PHP7，以php-fpm的方式运行php

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源码安装php7

[root@node01 ~]# ls

in\_php7.sh #安装脚本

libiconv-1.14.tar.gz #字符集依赖包

php-7.2.17.tar.gz #源码包

[root@node01 ~]# cat in\_php7.sh

#!/bin/bash

#Author: Mark Li

#Date: 2019-05-08

#Version: v1

#Description: this is a shell script for install php7 of source code

##退出信息

#exit--1-->相关包主备不全

#exit--2-->yum不可用

#exit--3-->rpm依赖包安装失败

#exit--4-->字符集转换库安装失败

#exit--5-->PHP7源码包安装失败

##检查相关包

if [ -e libiconv-1.14.tar.gz -a -e php-7.2.17.tar.gz ];then

echo "All packages is already gear up"

else

echo "All packages is not gear up"

exit 1

fi

##检查yum是否可用

yum clean all &> /dev/null

num=`yum repolist | tail -1 | awk '{print $2}' | sed -n 's/,//gp'`

if [ ${num} -eq 0 ];then

echo "yum error"

exit 2

else

echo "yum ok"

fi

##安装依赖包

#安装rpm依赖包

yum -y install gcc make libxml2 libxml2-devel openssl openssl-devel libjpeg-devel libpng-devel freetype-devel libmcrypt-devel pcre-devel libcurl-devel libjpeg-turbo-devel &> /dev/null

if [ $? -eq 0 ];then

echo "rpm rely packages install successful"

else

echo "rpm rely packages install failed"

exit 3

fi

#安装字符集转换库

tar -xf libiconv-1.14.tar.gz

cd libiconv-1.14

./configure --prefix=/usr/local/libiconv &> /dev/null

make &> /dev/null

res=$?

if [ $res -eq 0 ];then

make install &> /dev/null

if [ $? -eq 0 ];then

echo "libiconv install successful"

else

echo "libiconv install filed"

exit 4

fi

elif [ $res -eq 2 ];then

sed -ri '1010s/^/\/\*/' srclib/stdio.h

sed -ri '1010s/$/\*\//' srclib/stdio.h

make &> /dev/null

if [ $? -eq 0 ];then

make install &> /dev/null

if [ $? -eq 0 ];then

echo "libiconv install successfule"

else

echo "libiconv install failed"

exit 4

fi

else

echo "libiconv install failed"

exit 4

fi

else

echo "libiconv install failed"

exit 4

fi

cd ..

rm -rf libiconv-1.14

##安装php7源码包

#安装源码php7

tar -xf php-7.2.17.tar.gz

cd php-7.2.17

./configure --prefix=/usr/local/php --with-config-file-path=/usr/local/php/etc --with-config-file-scan-dir=/usr/local/php/etc/php.d --enable-mysqlnd --with-mysqli --with-pdo-mysql --enable-fpm --with-fpm-user=www --with-fpm-group=www --with-gd --with-iconv=/usr/local/libiconv --with-zlib --enable-xml --enable-shmop --enable-sysvsem --enable-inline-optimization --enable-mbregex --enable-mbstring --enable-ftp --with-openssl --enable-pcntl --enable-sockets --with-xmlrpc --enable-zip --enable-soap --without-pear --with-gettext --enable-session --with-curl --with-jpeg-dir --with-freetype-dir --enable-opcache --enable-bcmath &> /dev/null

make &> /dev/null

make install &> /dev/null

if [ $? -eq 0 ];then

echo "php7 install successful"

else

echo "php7 install failed"

exit 5

fi

#拷贝配置文件

cp php.ini-production /usr/local/php/etc/php.ini

cp sapi/fpm/init.d.php-fpm /etc/init.d/php-fpm

chmod +x /etc/init.d/php-fpm

sed -ri '/7/s/7//' /etc/init.d/php-fpm

cd /usr/local/php/

cp etc/php-fpm.conf.default etc/php-fpm.conf

sed -ri '/include=/s/7//' etc/php-fpm.conf

id nginx &> /dev/null

if [ $? -eq 0 ];then

cat > etc/php-fpm.d/www.conf << EOF

[www]

user = nginx

group = nginx

listen = 127.0.0.1:9000

pm = dynamic

pm.max\_children = 32

pm.start\_servers = 8

pm.min\_spare\_servers = 5

pm.max\_spare\_servers = 10

EOF

else

useradd -s /sbin/nologin www

cat > etc/php-fpm.d/www.conf << EOF

[www]

user = www

group = www

listen = 127.0.0.1:9000

pm = dynamic

pm.max\_children = 32

pm.start\_servers = 8

pm.min\_spare\_servers = 5

pm.max\_spare\_servers = 10

EOF

fi

ln -s /usr/local/php/bin/\* /usr/bin/

#/etc/init.d/php-fpm status

cd -

cd ..

rm -rf php-7.2.17

#编写systemctl服务控制脚本

cat > /usr/lib/systemd/system/php-fpm.service << EOF

[Unit]

Description=The PHP FastCGI Process Manager

After=network.target

[Service]

Type=simple

PIDFile=/usr/local/php/var/run/php-fpm.pid

ExecStart=/usr/local/php/sbin/php-fpm --nodaemonize --fpm-config /usr/local/php/etc/php-fpm.conf

ExecReload=/bin/kill -USR2 $MAINPID

PrivateTmp=true

[Install]

WantedBy=multi-user.target

EOF

echo "You have two ways to contorl the php-fpm service

1-Usage: /etc/init.d/php-fpm {start|stop|status}

2-Usage: systemctl {start|stop|status} php-fpm.service

enjoy yourself which method you likely!!"

[root@node01 ~]# bash in\_php7.sh

All packages is already gear up

yum ok

rpm rely packages install successful

libiconv install successfule

php7 install successful

/root/php-7.2.17

You have two ways to contorl the php-fpm service

1-Usage: /etc/init.d/php-fpm {start|stop|status}

2-Usage: systemctl {start|stop|status} php-fpm.service

enjoy yourself which method you likely!!

[root@node01 ~]#

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安装httpd

[root@node01 ~]# yum -y install httpd

配置httpd

[root@node01 ~]# sed -ri '95s/^#//' /etc/httpd/conf/httpd.conf

[root@node01 ~]# sed -rn '95p' /etc/httpd/conf/httpd.conf

ServerName www.example.com:80

[root@node01 ~]# vim /etc/httpd/conf.d/php7.conf

[root@node01 ~]# cat /etc/httpd/conf.d/php7.conf

<VirtualHost \*:80>

ServerName www.tedu.cn

DocumentRoot "/var/www/html/"

ProxyRequests Off

ProxyPassMatch ^/(.\*\.php)$ fcgi://127.0.0.1:9000/var/www/html/$1

<Directory "/var/www/html/">

Options FollowSymLinks Includes

AllowOverride All

Require all granted

</Directory>

<IfModule mime\_module>

AddType application/x-httpd-php .php

AddType applicaiton/x-httpd-php-source .phps

</IfModule>

</VirtualHost>

[root@node01 ~]# apachectl -t

Syntax OK

[root@node01 ~]# systemctl start httpd

[root@node01 ~]# netstat -antpu | grep httpd

tcp6 0 0 :::80 :::\* LISTEN 31540/httpd

[root@node01 ~]#

#配置php-fpm

[root@node01 ~]# vim /usr/local/php/etc/php-fpm.d/www.conf

[root@node01 ~]# cat /usr/local/php/etc/php-fpm.d/www.conf

[www]

user = apache

group = apache

listen = 127.0.0.1:9000

pm = dynamic

pm.max\_children = 32

pm.start\_servers = 8

pm.min\_spare\_servers = 5

pm.max\_spare\_servers = 10

[root@node01 ~]# systemctl start php-fpm.service

[root@node01 ~]# netstat -anptu | grep php

tcp 0 0 127.0.0.1:9000 0.0.0.0:\* LISTEN 31645/php-fpm: mast

[root@node01 ~]# ps aux | grep php

root 31645 0.0 0.6 220260 10172 ? Ss 14:11 0:00 php-fpm: master process (/usr/local/php/etc/php-fpm.conf)

apache 31646 0.0 0.3 220260 5928 ? S 14:11 0:00 php-fpm: pool www

apache 31647 0.0 0.3 220260 5928 ? S 14:11 0:00 php-fpm: pool www

apache 31648 0.0 0.3 220260 5928 ? S 14:11 0:00 php-fpm: pool www

apache 31649 0.0 0.3 220260 5928 ? S 14:11 0:00 php-fpm: pool www

apache 31650 0.0 0.3 220260 5932 ? S 14:11 0:00 php-fpm: pool www

apache 31651 0.0 0.3 220260 5932 ? S 14:11 0:00 php-fpm: pool www

apache 31652 0.0 0.3 220260 5932 ? S 14:11 0:00 php-fpm: pool www

apache 31653 0.0 0.3 220260 5932 ? S 14:11 0:00 php-fpm: pool www

root 31657 0.0 0.0 112676 956 pts/0 S+ 14:11 0:00 grep --color=auto php

[root@node01 ~]#

#设置测试页面

[root@node01 ~]# vim /var/www/html/test.php

[root@node01 ~]# cat /var/www/html/test.php

<?php

$i=33;

echo $i;

?>

[root@node01 ~]# curl localhost/test.php

33[root@node01 ~]#

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[root@node02 ~]# tree

.

├── apache

│   ├── apr-1.6.5.tar.gz #依赖包

│   ├── apr-util-1.6.1.tar.bz2 #依赖包

│   ├── httpd-2.4.39.tar.gz #apache源码包

│   └── in\_apache.sh #安装脚本

└── php

├── in\_php7.sh #安装脚本

├── libiconv-1.14.tar.gz #字符集依赖包

└── php-7.2.17.tar.gz #php源码包

2 directories, 7 files

[root@node02 ~]#

源码部署apache

[root@node02 ~]# cd apache/

[root@node02 apache]# cat in\_apache.sh

#!/bin/bash

#Author: Mark Li

#Date: 2019-05-08

#Version: v1

#Description: this is a shell script for install apache of source package

#exit-1-->源码包不全

#exit-2-->yum不可用

#exit-3-->rpm依赖包安装失败

#exit-4-->源码依赖包安装失败

#exit-5-->源码apache安装失败

#判断源码包是否准备齐全

if [ -e apr-1.6.5.tar.gz -a -e apr-util-1.6.1.tar.bz2 -a -e httpd-2.4.39.tar.gz ];then

echo "Source packages is already gear up"

else

echo "Source packages is not grea up, Please prepair for apr-1.6.5.tar.gz,apr-util-1.6.1.tar.bz2 and httpd-2.4.39.tar.gz"

exit 1

fi

#判断yum源是否可用

yum clean all &> /dev/null

num=`yum repolist | tail -1 | awk '{print $2}' | sed -n 's/,//gp'`

if [ ${num} -eq 0 ];then

echo "yum error"

exit 2

else

echo "yum ok"

fi

##安装rpm依赖包

yum -y install gcc make bzip2 pcre pcre-devel zlib zlib-devel openssl-devel expat-devel &> /dev/null

if [ $? -eq 0 ];then

echo "rpm rely packages install successful"

else

echo "rpm rely packages install failed"

exit 3

fi

##安装源码依赖包

#安装apr

tar -xf apr-1.6.5.tar.gz

cd apr-1.6.5

./configure --prefix=/usr/local/apr/ &> /dev/null

make &> /dev/null

make install &> /dev/null

if [ $? -eq 0 ];then

echo "source packages apr install successful"

else

echo "source packages apr install failed"

exit 4

fi

cd ..

rm -rf apr-1.6.5

#安装apr-util

tar -xf apr-util-1.6.1.tar.bz2

cd apr-util-1.6.1

./configure --prefix=/usr/local/apr-util --with-apr=/usr/local/apr &> /dev/null

make &> /dev/null

make install &> /dev/null

if [ $? -eq 0 ];then

echo "source package apr-util install successful"

else

echo "source package apr-util install failed"

exit 4

fi

cd ..

rm -rf apr-util-1.6.1

#安装apache

tar -xf httpd-2.4.39.tar.gz

cd httpd-2.4.39

./configure --prefix=/usr/local/apache --with-apr=/usr/local/apr --with-apr-util=/usr/local/apr-util/ --enable-so --enable-ssl --enable-deflate=shared --enable-expires=shared --enable-rewrite=shared --enable-static-support --with-zlib --with-pcre &> /dev/null

make &> /dev/null

make install &> /dev/null

if [ $? -eq 0 ];then

echo "source package apache install successful"

else

echo "souce package apache install failed"

exit 5

fi

cd ..

rm -rf httpd-2.4.39

cd /usr/local/apache

./bin/apachectl -t

[root@node02 apache]# bash in\_apache.sh

Source packages is already gear up

yum ok

rpm rely packages install successful

source packages apr install successful

source package apr-util install successful

source package apache install successful

AH00558: httpd: Could not reliably determine the server's fully qualified domain name, using 192.168.1.2. Set the 'ServerName' directive globally to suppress this message

Syntax OK

[root@node02 apache]#

##################################################################

源码安装php

[root@node02 apache]# cd ../php/

[root@node02 php]# cat in\_php7.sh

#!/bin/bash

#Author: Mark Li

#Date: 2019-05-08

#Version: v1

#Description: this is a shell script for install php7 of source code

##退出信息

#exit--1-->相关包主备不全

#exit--2-->yum不可用

#exit--3-->rpm依赖包安装失败

#exit--4-->字符集转换库安装失败

#exit--5-->PHP7源码包安装失败

##检查相关包

if [ -e libiconv-1.14.tar.gz -a -e php-7.2.17.tar.gz ];then

echo "All packages is already gear up"

else

echo "All packages is not gear up"

exit 1

fi

##检查yum是否可用

yum clean all &> /dev/null

num=`yum repolist | tail -1 | awk '{print $2}' | sed -n 's/,//gp'`

if [ ${num} -eq 0 ];then

echo "yum error"

exit 2

else

echo "yum ok"

fi

##安装依赖包

#安装rpm依赖包

yum -y install gcc make libxml2 libxml2-devel openssl openssl-devel libjpeg-devel libpng-devel freetype-devel libmcrypt-devel pcre-devel libcurl-devel libjpeg-turbo-devel &> /dev/null

if [ $? -eq 0 ];then

echo "rpm rely packages install successful"

else

echo "rpm rely packages install failed"

exit 3

fi

#安装字符集转换库

tar -xf libiconv-1.14.tar.gz

cd libiconv-1.14

./configure --prefix=/usr/local/libiconv &> /dev/null

make &> /dev/null

res=$?

if [ $res -eq 0 ];then

make install &> /dev/null

if [ $? -eq 0 ];then

echo "libiconv install successful"

else

echo "libiconv install filed"

exit 4

fi

elif [ $res -eq 2 ];then

sed -ri '1010s/^/\/\*/' srclib/stdio.h

sed -ri '1010s/$/\*\//' srclib/stdio.h

make &> /dev/null

if [ $? -eq 0 ];then

make install &> /dev/null

if [ $? -eq 0 ];then

echo "libiconv install successfule"

else

echo "libiconv install failed"

exit 4

fi

else

echo "libiconv install failed"

exit 4

fi

else

echo "libiconv install failed"

exit 4

fi

cd ..

rm -rf libiconv-1.14

##安装php7源码包

#安装源码php7

tar -xf php-7.2.17.tar.gz

cd php-7.2.17

./configure --prefix=/usr/local/php --with-config-file-path=/usr/local/php/etc --with-config-file-scan-dir=/usr/local/php/etc/php.d --enable-mysqlnd --with-mysqli --with-pdo-mysql --enable-fpm --with-fpm-user=www --with-fpm-group=www --with-gd --with-iconv=/usr/local/libiconv --with-zlib --enable-xml --enable-shmop --enable-sysvsem --enable-inline-optimization --enable-mbregex --enable-mbstring --enable-ftp --with-openssl --enable-pcntl --enable-sockets --with-xmlrpc --enable-zip --enable-soap --without-pear --with-gettext --enable-session --with-curl --with-jpeg-dir --with-freetype-dir --enable-opcache --enable-bcmath &> /dev/null

make &> /dev/null

make install &> /dev/null

if [ $? -eq 0 ];then

echo "php7 install successful"

else

echo "php7 install failed"

exit 5

fi

#拷贝配置文件

cp php.ini-production /usr/local/php/etc/php.ini

cp sapi/fpm/init.d.php-fpm /etc/init.d/php-fpm

chmod +x /etc/init.d/php-fpm

sed -ri '/7/s/7//' /etc/init.d/php-fpm

cd /usr/local/php/

cp etc/php-fpm.conf.default etc/php-fpm.conf

sed -ri '/include=/s/7//' etc/php-fpm.conf

id nginx &> /dev/null

if [ $? -eq 0 ];then

cat > etc/php-fpm.d/www.conf << EOF

[www]

user = nginx

group = nginx

listen = 127.0.0.1:9000

pm = dynamic

pm.max\_children = 32

pm.start\_servers = 8

pm.min\_spare\_servers = 5

pm.max\_spare\_servers = 10

EOF

else

useradd -s /sbin/nologin www

cat > etc/php-fpm.d/www.conf << EOF

[www]

user = www

group = www

listen = 127.0.0.1:9000

pm = dynamic

pm.max\_children = 32

pm.start\_servers = 8

pm.min\_spare\_servers = 5

pm.max\_spare\_servers = 10

EOF

fi

ln -s /usr/local/php/bin/\* /usr/bin/

#/etc/init.d/php-fpm status

cd -

cd ..

rm -rf php-7.2.17

#编写systemctl服务控制脚本

cat > /usr/lib/systemd/system/php-fpm.service << EOF

[Unit]

Description=The PHP FastCGI Process Manager

After=network.target

[Service]

Type=simple

PIDFile=/usr/local/php/var/run/php-fpm.pid

ExecStart=/usr/local/php/sbin/php-fpm --nodaemonize --fpm-config /usr/local/php/etc/php-fpm.conf

ExecReload=/bin/kill -USR2 $MAINPID

PrivateTmp=true

[Install]

WantedBy=multi-user.target

EOF

echo "You have two ways to contorl the php-fpm service

1-Usage: /etc/init.d/php-fpm {start|stop|status}

2-Usage: systemctl {start|stop|status} php-fpm.service

enjoy yourself which method you likely!!"

[root@node02 php]# bash in\_php7.sh

All packages is already gear up

yum ok

rpm rely packages install successful

libiconv install successfule

php7 install successful

/root/php/php-7.2.17

You have two ways to contorl the php-fpm service

1-Usage: /etc/init.d/php-fpm {start|stop|status}

2-Usage: systemctl {start|stop|status} php-fpm.service

enjoy yourself which method you likely!!

[root@node02 php]#

##################################################################

配置apache

[root@node02 ~]# useradd -s /sbin/nologin apache

[root@node02 ~]# id apache

uid=1001(apache) gid=1001(apache) 组=1001(apache)

[root@node02 ~]# cd /usr/local/apache/

[root@node02 apache]# vim conf/httpd.conf

[root@node02 apache]# sed -rn '164,165p;195p;$p' conf/httpd.conf

User apache

Group apache

ServerName www.example.com:80

Include conf/extra/httpd-php7.conf

[root@node02 apache]#

[root@node02 apache]# vim conf/extra/httpd-php7.conf

[root@node02 apache]# cat conf/extra/httpd-php7.conf

<VirtualHost \*:80>

ServerName www.example.com

DocumentRoot "/usr/local/apache/php/"

LoadModule proxy\_module modules/mod\_proxy.so

LoadModule proxy\_connect\_module modules/mod\_proxy\_connect.so

LoadModule proxy\_fcgi\_module modules/mod\_proxy\_fcgi.so

LoadModule proxy\_http\_module modules/mod\_proxy\_http.so

ProxyRequests Off

ProxyPassMatch ^/(.\*\.php)$ fcgi://127.0.0.1:9000/usr/local/apache/php/$1

<Directory "/usr/local/apache/php/">

Options FollowSymLinks Includes

AllowOverride All

Require all granted

</Directory>

<IfModule mime\_module>

AddType application/x-httpd-php .php

AddType applicaiton/x-httpd-php-source .phps

</IfModule>

</VirtualHost>

[root@node02 apache]# mkdir php

[root@node02 apache]# vim php/test.php

[root@node02 apache]# cat php/test.php

<?php

$i='33\n'

echo $i

?>

[root@node02 apache]#

#启动apache服务

[root@node02 apache]# ./bin/apachectl -t

Syntax OK

[root@node02 apache]# ./bin/apachectl

[root@node02 apache]# netstat -anptu | grep httpd

tcp6 0 0 :::80 :::\* LISTEN 31057/httpd

[root@node02 apache]# ps aux | grep httpd

root 31057 0.0 0.1 77316 2488 ? Ss 14:51 0:00 /usr/local/apache/bin/httpd

apache 31058 0.0 0.2 366412 4304 ? Sl 14:51 0:00 /usr/local/apache/bin/httpd

apache 31059 0.0 0.2 366412 4304 ? Sl 14:51 0:00 /usr/local/apache/bin/httpd

apache 31060 0.0 0.2 366412 4304 ? Sl 14:51 0:00 /usr/local/apache/bin/httpd

root 31145 0.0 0.0 112676 956 pts/0 S+ 14:51 0:00 grep --color=auto httpd

[root@node02 apache]# echo test > php/test.html

[root@node02 apache]# curl 127.0.0.1/test.html

test

[root@node02 apache]#

##################################################################

配置php-fpm

[root@node02 apache]# cd

[root@node02 ~]# vim /usr/local/php/etc/php-fpm.d/www.conf

[root@node02 ~]# cat /usr/local/php/etc/php-fpm.d/www.conf

[www]

user = apache

group = apache

listen = 127.0.0.1:9000

pm = dynamic

pm.max\_children = 32

pm.start\_servers = 8

pm.min\_spare\_servers = 5

pm.max\_spare\_servers = 10

[root@node02 ~]# systemctl start php-fpm.service

[root@node02 ~]# netstat -anptu | grep php

tcp 0 0 127.0.0.1:9000 0.0.0.0:\* LISTEN 31260/php-fpm: mast

[root@node02 ~]# ps aux | grep php

root 31260 0.0 0.6 220260 10168 ? Ss 14:54 0:00 php-fpm: master process (/usr/local/php/etc/php-fpm.conf)

apache 31261 0.0 0.3 220260 5924 ? S 14:54 0:00 php-fpm: pool www

apache 31262 0.0 0.3 220260 5924 ? S 14:54 0:00 php-fpm: pool www

apache 31263 0.0 0.3 220260 5924 ? S 14:54 0:00 php-fpm: pool www

apache 31264 0.0 0.3 220260 5924 ? S 14:54 0:00 php-fpm: pool www

apache 31265 0.0 0.3 220260 5928 ? S 14:54 0:00 php-fpm: pool www

apache 31266 0.0 0.3 220260 5928 ? S 14:54 0:00 php-fpm: pool www

apache 31267 0.0 0.3 220260 5928 ? S 14:54 0:00 php-fpm: pool www

apache 31268 0.0 0.3 220260 5928 ? S 14:54 0:00 php-fpm: pool www

root 31272 0.0 0.0 112676 956 pts/0 S+ 14:54 0:00 grep --color=auto php

[root@node02 ~]# php /usr/local/apache/php/test.php

33\n[root@node02 ~]#

[root@node02 apache]# curl 127.0.0.1/test.php

33\n[root@node02 apache]#