项目报告书

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摘要：

　　搭建过程中重温了 MYSQL 集群架构、 Nginx+tomcat 集群架构、内容分发网络(CDN)架构、Nginx 的负载均衡(LB)、分布式存储数据库、Memcached 缓存技术以及一系列服务的基本操作。

　　项目的搭建思路：

1) 搭建 pxe 批量安装系统(kvm 克隆)
2) 安装后端数据库实现 mysql 读写分离与主从复制
3) 安装 servsync 实现页面一致性的发布(NFS 共享存储)
4) 安装 nginx+php+memcache/redis(php 论坛) www.php-fX.com
5) 安装 nginx+tomcat+jdk+jsp+memcache(jsp 企业网站) www.jsp-fX.com
6) 安装 nginx 反向代理服务器(调度器)实现负载均衡(轮循)
7) 安装 squid 或者 varnish 实现静态缓存加速 （CDN）
8) 安装 nginx 反向代理服务器(双机互备)
9) 通过 DNS 轮循访问 2 台 nginx 调度器
10) 设计 ssh 服务(监听内网,使用密钥对登录,设置跳板机)

项目拓扑图
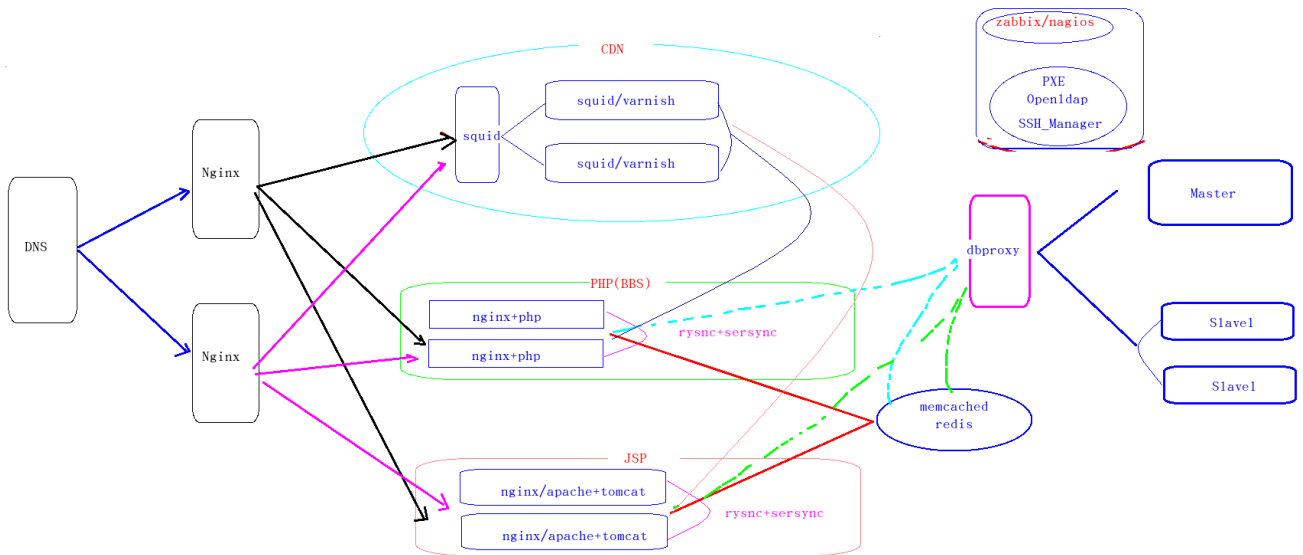
IP 规划：

DNS 轮询

Nginx 反向代理(调度)
nginx-001 172.25.5.10
nginx-002 172.25.5.11

Squid 静态缓存加速器
squid-001 172.25.5.12
squid-002 172.25.5.13

Web 服务器：172.25.254.221

PHP 论坛：www.php-fX.com
nginx1+php1 172.25.5.14
                                        \
                                          NFS(Discuz) 页面数据一致性 172.25.5.20
                                        /
nginx2+php2 172.25.5.15

JSP 门户网站：www.jsp-fX.com
nginx1+tomcat1 172.25.5.16
                                        \
                                          NFS(ejforum) 页面数据一致性 172.25.5.20
                                        /
nginx1+tomcat1 172.25.5.17

memcached/redis 数据库缓存加速器(保证 session 一致性) 172.25.5.18

数据库：mariadb-server 172.25.5.19

主从复制/读写分类

                        / master1(rw) ---- slave1(r)
dbproxy(读写分离)
                        \ master2(rw) ---- slave2(r)

测试机：172.25.254.5

第一步：

安装 DNS:

www.php-f5.com 172.25.5.10
www.jsp-f5.com 172.25.5.11

```
[root@foundation1 ~]# yum -y install bind
[root@foundation1 named]# cat /etc/named.conf
options {
listen-on port 53 { 127.0.0.1; any; };
listen-on-v6 port 53 { ::1; };
directory "/var/named";
dump-file "/var/named/data/cache_dump.db";
statistics-file "/var/named/data/named_stats.txt";
memstatistics-file "/var/named/data/named_mem_stats.txt";
allow-query { localhost; any; };
recursion yes;
dnssec-enable yes;
dnssec-validation yes;
bindkeys-file "/etc/named.iscdlv.key";
managed-keys-directory "/var/named/dynamic";
pid-file "/run/named/named.pid";
session-keyfile "/run/named/session.key";
};

logging {
channel default_debug {
file "data/named.run";
severity dynamic;
};
};

view "php" {
match-clients { 172.25.5.0/24; };
zone "." IN {
type hint;
file "named.ca";
};
zone "php-f5.com" IN {
type master;
file "php-f5.com.zone";
};
include "/etc/named.rfc1912.zones";
};

view "jsp" {
match-clients { 172.25.254.0/24; };
zone "." IN {
type hint;
```

```
file "named.ca";
};
zone "jsp-f5.com" IN {
type master;
file "jsp-f5.com.zone";
};
include "/etc/named.rfc1912.zones";
};
include "/etc/named.root.key";

[root@foundation1 named]# cat /var/named/jsp-f5.com.zone
$TTL 1D
@ IN SOA ns1.jsp-f5.com. nsmail.jsp-f5.com. (
10 ; serial
1D ; refresh
1H ; retry
1W ; expire
3H ) ; minimum
@ NS ns1.jsp-f5.com.
ns1 A 172.25.254.221
www A 172.25.5.11

[root@foundation1 named]# cat /var/named/php-f5.com.zone
$TTL 1D
@ IN SOA ns1.php-f5.com. nsmail.php-f5.com. (
10 ; serial
1D ; refresh
1H ; retry
1W ; expire
3H ) ; minimum
@ NS ns1.php-f5.com.
ns1 A 172.25.254.221
www A 172.25.5.10
```

第二步:

安装数据库

```
[root@foundation1 ~]# yum -y install mariadb-server mariadb
[root@foundation1 ~]# systemctl start mariadb
[root@foundation1 ~]# systemctl enable mariadb
```

初始化数据库

```
MariaDB [(none)]> delete from mysql.user where user='';
MariaDB [(none)]> update mysql.user set password=password('uplooking') where user='root';
MariaDB [(none)]> flush privileges;
```

新建 BBS 论坛 JSP 网站库

```
MariaDB [(none)]> create database bbs default charset utf8;
MariaDB [(none)]> create database jsp default charset utf8;
MariaDB [(none)]> grant all on bbs.* to runbbs@'%' identified by '123456';
MariaDB [(none)]> grant all on jsp.* to runjsp@'%' identified by '123456';
MariaDB [(none)]> flush privileges;
```

第三步:

搭建 NFS 服务，并上传页面源代码

```
[root@foundation1 ~]# yum -y install nfs-utils

[root@foundation1 ~]# vim /etc/exports
/webroot 172.25.5.0/24(rw,sync,no_root_squash)

[root@foundation1 ~]# mkdir /webroot
[root@foundation1 ~]# chmod 777 /webroot/
[root@foundation1 ~]# service nfs restart
[root@foundation1 ~]# service rpcbind restart
[root@foundation1]# wget
ftp://172.25.254.250/notes/project/software/lnmp/Discuz_X3.1_SC_UTF8.zip
[root@foundation1                              ~]#                    wget
ftp://172.25.254.250/notes/project/software/tomcat/ejforum-2.3.zip
[root@foundation1 ~]# unzip Discuz_X3.1_SC_UTF8.zip
[root@foundation1 ~]# mv upload/ /webroot/bbs
[root@foundation1 ~]# unzip ejforum-2.3.zip
[root@foundation1 ~]# mv ejforum-2.3/ejforum/ /webroot/jsp
```

第四步:

推送密钥对,关闭所有节点的防火墙与 selinux （建议永久关闭）

```
[root@foundation1 ~]# ssh-keygen -t dsa
[root@foundation1 ~]# for i in {10..19}
> do
> ssh-copy-id root@172.25.5.$i
> done

[root@foundation1 ~]# for i in {10..19}
> do
> ssh root@172.25.5.$i "setenforce 0 ; iptables -F"
> done
```

推送密钥对,关闭所有节点的防火墙与 selinux （建议永久关闭）

第五步:

搭建 BBS

搭建 PHP 网站：
Srvere 172.25.5.14

[root@foundation1 ~]# ssh root@172.25.5.14

安装 lnp+spawn-fcgi：
[root@servere ~]# yum -y install php php-mysql
[root@servere   ~]#   rpm   -ivh
ftp://172.25.254.250/notes/project/UP200/UP200_nginx-master/pkg/nginx-1.8.1-1.el7.ngx.x
86_64.rpm
[root@servere   ~]#   rpm   -ivh
ftp://172.25.254.250/notes/project/UP200/UP200_nginx-master/pkg/spawn-fcgi-1.6.3-5.el7.
x86_64.rpm

配置虚拟主机
[root@servere ~]# vim /etc/nginx/nginx.conf
worker_processes 2;

events {
use epoll;
worker_connections 1024;
}

[root@servere ~]# vim /etc/nginx/conf.d/www.php-f5.com.conf
server {
listen 80;
server_name www.php-f5.com;
root /usr/share/nginx/php-f5.com;
index index.php index.html index.htm;
location ~ \.php$ {
fastcgi_pass 127.0.0.1:9000;
fastcgi_index index.php;
fastcgi_param SCRIPT_FILENAME /usr/share/nginx/php-f5.com$fastcgi_script_name;
include fastcgi_params;
}
}

[root@servere ~]# mkdir -p /usr/share/nginx/php-f5.com
[root@servere ~]#
wget lftp://172.25.254.250/notes/project/software/lnmp/Discuz_X3.1_SC_UTF8.zip
[root@servere ~]# unzip Discuz_X3.1_SC_UTF8.zip
[root@servere ~]#mv upload/*/usr/share/nginx/php-f5.com/

配置 php 服务(spwan-fcgi)
[root@servere ~]# vim /etc/sysconfig/spawn-fcgi

```
OPTIONS="-u nginx -g nginx -p 9000 -C 32 -F 1 -P /var/run/spawn-fcgi.pid -- /usr/bin/php-cgi"
```

```
[root@servere ~]# service spawn-fcgi startjjitrt
[root@servere ~]# chkconfig spawn-fcgi on
[root@servere ~]# netstat -tnlp |grep :9000
tcp 0 0 0.0.0.0:9000 0.0.0.0:* LISTEN 24248/php-cgi

[root@servere ~]# chkconfig nginx on
[root@servere ~]# service nginx start
```

修改目录权限
```
[root@servere ~]# cd /usr/share/nginx/php-f5.com/
[root@servere php-f5.com]# chown nginx.nginx -R ./config/ ./data/ ./uc_server/ ./uc_client/
```

测试机 172.25.254.5：
```
# vim /etc/hosts
172.25.5.14 www.php-f5.com
```

浏览器查看：http://www.php-f5.com
安装 Discuz 网页
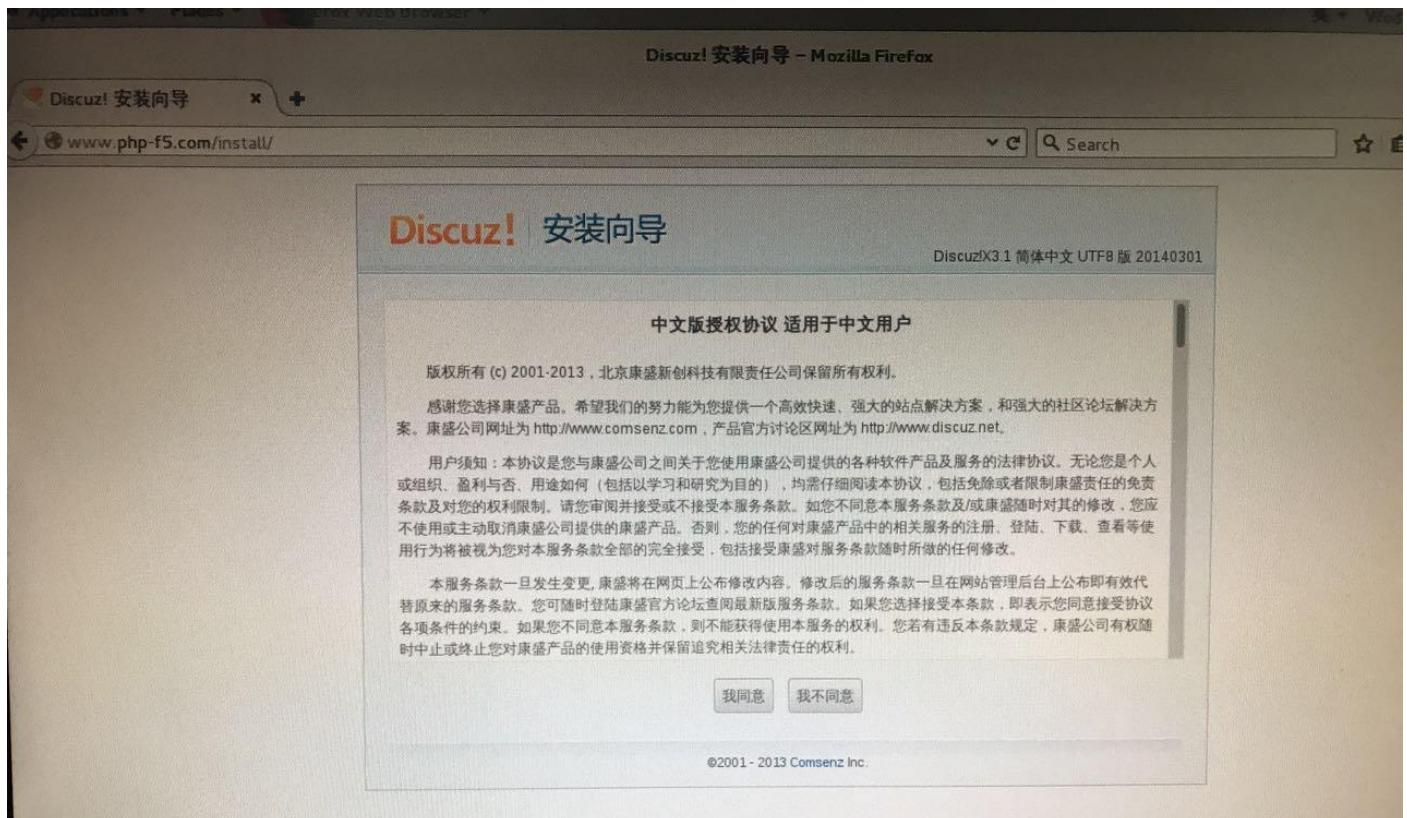填写数据库信息:
数据库服务器：172.25.254.221
数据库名：bbs
数据库用户名：runbbs
数据库密码：123456

安装另外一个节点 php 网站 172.25.5.15

```
[root@foundation1 ~]# ssh root@172.25.5.15

安装软件:
[root@serverf ~]# yum -y install php php-mysql
[root@serverf                            ~]#                      rpm                    -ivh
ftp://172.25.254.250/notes/project/UP200/UP200_nginx-master/pkg/nginx-1.8.1-1.el7.ngx.x
86_64.rpm
[root@serverf                            ~]#                      rpm                    -ivh
ftp://172.25.254.250/notes/project/UP200/UP200_nginx-master/pkg/spawn-fcgi-1.6.3-5.el7.
x86_64.rpm
```

可以将 172.25.5.14 的数据同步到 172.25.5.15 节点:

nginx 配置文件
```
[root@servere ~]# rsync -avzR /etc/nginx/ 172.25.5.15:/
```

php 配置文件
```
[root@servere ~]# rsync -avzR /etc/sysconfig/spawn-fcgi 172.25.5.15:/
[root@servere ~]#rsync -avzR /usr/share/nginx/php-f5.com/ root@172.25.5.15:/

[root@serverf ~]# service nginx start
[root@serverf ~]# service spawn-fcgi start
[root@serverf ~]# chkconfig nginx on ; chkconfig spawn-fcgi on
```

使用共享存储,不需要再次安装 Disczu 论坛
直接访问检测网页,更改客户端域名解析

测试机:172.25.254.5
```
# vim /etc/hosts
172.25.5.15 www.php-f5.com
```

访问页面:http://www.php-f5.com

论坛 – Powered by Discuz! – Mozilla Firefox

论坛 - Powered by Di... ✕

www.php-f5.com/forum.php   ▾ C   🔍 Search

设为首页 收藏本站

社区动力
DISCUZ!

| 用户名 ▾ | | ☐ 自动登录 | 找回密码 |
| 密码 | | 登录 | 立即注册 |

论坛   快捷导航 ▾

请输入搜索内容   帖子 ▾ 🔍   **热搜:** 活动 交友 discuz

🏠 › 论坛

📊 今日: 0 | 昨日: 0 | 帖子: 0 | 会员: 1 | 欢迎新会员: admin   最新回复

| Discuz! | ⊖ |

💬 **默认版块**   0 / 0   从未

在线会员 - 0 人在线 - 0 会员(0 隐身), 0 位游客 - 最高记录是 0 于 2017-9-27.   ⊖

👤管理员 👤超级版主 👤版主 👤会员

当前只有游客或隐身会员在线

官方论坛
提供最新 Discuz! 产品新闻、软件下载与技术交流

Comsenz   漫游平台   Yeswan   专用主机

Powered by **Discuz!** X3.1   Archiver | 手机版 | 小黑屋 | **Comsenz Inc.** ⊙
© 2001-2013 Comsenz Inc.   GMT+8, 2017-9-27 21:59 . Processed in 0.312705 second(s), 15 queries .

第六步:

搭建 JSP 网站:
nginx+tomcat1 172.25.5.16
nginx+tomcat2 172.25.5.17

[root@foundation0 ~]# ssh root@172.25.5.16

下载 jdk 与 tomcat
[root@serverg ~]# yum -y install lftp

[root@serverg ~]# lftp 172.25.254.250:/notes/project/UP200/UP200_tomcat-master
lftp 172.25.254.250:/notes/project/UP200/UP200_tomcat-master> mirror pkg/
lftp 172.25.254.250:/notes/project/UP200/UP200_tomcat-master> exit

[root@serverg ~]# cd pkg/
[root@serverg pkg]# tar xf jdk-7u15-linux-x64.tar.gz -C /opt/
[root@serverg pkg]# mv /opt/jdk1.7.0_15/ /opt/java

[root@serverg pkg]# mkdir /usr/local/tomcat
[root@serverg pkg]# tar -xf apache-tomcat-8.0.24.tar.gz -C /usr/local/tomcat

jsvc 的方式启动:
[root@serverg bin]# groupadd -g 888 tomcat
[root@serverg bin]# useradd -g 888 -u 888 tomcat -s /sbin/nologin

[root@serverg pkg]# cd /usr/local/tomcat/apache-tomcat-8.0.24/bin/
[root@serverg bin]# tar -xf commons-daemon-native.tar.gz
[root@serverg bin]# cd commons-daemon-1.0.15-native-src/unix/
[root@serverg unix]# yum -y install gcc
[root@serverg unix]# ./configure --with-java=/opt/java
[root@serverg unix]# make

[root@serverg unix]# cp -a jsvc /usr/local/tomcat/apache-tomcat-8.0.24/bin/

优化 tomcat 命令,jsvc 的方式启动实际执行的脚本为 bin 目录下的 daemon.sh
[root@serverg unix]# cd /usr/local/tomcat/apache-tomcat-8.0.24/bin/
[root@serverg bin]# cp daemon.sh /etc/init.d/tomcat

[root@serverg bin]# vim /etc/init.d/tomcat
# chkconfig: 2345 30 20
CATALINA_HOME=/usr/local/tomcat/apache-tomcat-8.0.24
CATALINA_BASE=/usr/local/tomcat/apache-tomcat-8.0.24
JAVA_HOME=/opt/java/

[root@serverg bin]# chmod +x /etc/init.d/tomcat
[root@serverg bin]# chkconfig --add tomcat

```
[root@serverg bin]# chown tomcat.tomcat -R /usr/local/tomcat/apache-tomcat-8.0.24/
[root@serverg bin]# service tomcat start
[root@serverg bin]# ps aux |grep tomcat

[root@serverg unix]# netstat -tnlp |grep :80
tcp6 0 0 :::8009 :::* LISTEN 2416/jsvc.exec
tcp6 0 0 :::8080 :::* LISTEN 2416/jsvc.exec
```

配置虚拟主机：www.jsp-f5.com
```
[root@serverg unix]# vim /usr/local/tomcat/apache-tomcat-8.0.24/conf/server.xml
<Host name="www.jsp-f5.com" appBase="jsp-f5.com"
unpackWARs="true" autoDeploy="true">
<Valve className="org.apache.catalina.valves.AccessLogValve" directory="logs"
prefix="jsp-f5.com_access_log" suffix=".txt"
pattern="%h %l %u %t &quot;%r&quot; %s %b" />
</Host>
```

挂载存储：
```
[root@serverg unix]# mkdir -p /usr/local/tomcat/apache-tomcat-8.0.24/jsp-f5.com/ROOT/
[root@serverg unix]#
wget ftp://172.25.254.250/notes/project/software/tomcat/ejforum-2.3.zip
[root@serverg unix]#
mv ejforum-2.3/ejforum/ /usr/local/tomcat/apache-tomcat-8.0.24/jsp-f5.com/ROOT/
[root@serverg bin]#
mv ejforum-2.3.zip /usr/local/tomcat/apache-tomcat-8.0.24/jsp-f5.com/ROOT/
[root@serverg bin]# cd /usr/local/tomcat/apache-tomcat-8.0.24/jsp-f5.com/ROOT/
[root@serverg ROOT]# unzip ejforum-2.3.zip
[root@serverg ROOT]# ls
ejforum-2.3 ejforum-2.3.zip
[root@serverg ejforum]# mv * /usr/local/tomcat/apache-tomcat-8.0.24/jsp-f5.com/ROOT/
[root@serverg conf]# pwd
/usr/local/tomcat/apache-tomcat-8.0.24/conf
[root@serverg ROOT]# vim /usr/local/tomcat/apache-tomcat-8.0.24/conf/server.xml
<Context path="" docBase="/usr/local/tomcat/apache-tomcat-8.0.24/jsp-f5.com/ROOT" />
```

配置和数据库的连接
```
[root@serverg ROOT]# cd ~/pkg/
[root@serverg pkg]# tar xf mysql-connector-java-5.1.36.tar.gz -C /tmp/

[root@serverg pkg]#
cp /tmp/mysql-connector-java-5.1.36/mysql-connector-java-5.1.36-bin.jar
/usr/local/tomcat/apache-tomcat-8.0.24/lib/
```

数据库的帐号与密码：
```
username="runjsp"
password="123456"
```
数据库 IP 地址：
```
url="jdbc:mysql://172.25.254.221:3306/jsp
```

```
[root@serverg pkg]#
vim /usr/local/tomcat/apache-tomcat-8.0.24/jsp-f5.com/ROOT/WEB-INF/conf/config.xml
<database maxActive="10" maxIdle="10" minIdle="2" maxWait="10000"
username="runjsp" password="123456"
driverClassName="com.mysql.jdbc.Driver"
url="jdbc:mysql://172.25.254.221:3306/jsp?characterEncoding=gbk&amp;autoReconnect=true&
amp;autoReconnectForPools=true&amp;zeroDateTimeBehavior=convertToNull"
sqlAdapter="sql.MysqlAdapter"/>
```

导入数据库表结构: <注意:远程导入表结构>
```
[root@serverg ~]#
wget ftp://172.25.254.250/notes/project/software/tomcat/ejforum-2.3.zip
[root@serverg ~]# unzip ejforum-2.3.zip -d /tmp/
[root@serverg ~]# cd /tmp/ejforum-2.3/install/script/
[root@serverg script]# yum -y install mariadb
[root@serverg script]# mysql -urunjsp -p123456 jsp -h172.25.254.221 < easyjforum_mysql.sql
```

修改权限相关:
```
[root@serverg ~]# chown tomcat.tomcat -R /usr/local/tomcat/apache-tomcat-8.0.24/
[root@serverg ~]# service tomcat stop
[root@serverg ~]# service tomcat start
```

测试机 172.25.254.5：

```
# vim /etc/hosts
172.25.5.16 www.jsp-f5.com
```

访问：http://www.jsp-f5.com:8080/

配置 nginx 虚拟主机，实现动静分离
通过 nginx 处理静态数据，让用户访问 80 默认端口：

```
[root@serverg ~]# rpm -ivhftp://172.25.254.250/notes/project/UP200/UP200_nginx-mast
er/pkg/nginx-1.8.1-1.el7.ngx.x86_64.rpm

[root@serverg ~]# vim /etc/nginx/nginx.conf
http {
include /etc/nginx/mime.types;
default_type application/octet-stream;

upstream java_upstream { ----加入此段
server 127.0.0.1:8080 max_fails=2 fail_timeout=30s;
}到此结束，此后再新增 tomcat 在括号内新增即可
log_format main '$remote_addr - $remote_user [$time_local] "$request" '
'$status $body_bytes_sent "$http_referer" '
'"$http_user_agent" "$http_x_forwarded_for"';

access_log /var/log/nginx/access.log main;

sendfile on;
#tcp_nopush on;

keepalive_timeout 65;

#gzip on;

include /etc/nginx/conf.d/*.conf;
}

[root@serverg ~]# vim /etc/nginx/conf.d/www.jsp-f5.com.conf
server {
listen 80;
server_name www.jsp-f5.com;

location / {
root /usr/local/tomcat/apache-tomcat-8.0.24/jsp-f5.com/ROOT;
index index.jsp index.html index.htm;
}

location ~ \.jsp.* {
proxy_set_header Host $host;
proxy_set_header X-Forward-For $remote_addr;
proxy_pass http://java_upstream;
}
}

[root@serverg ~]# nginx -t
nginx: the configuration file /etc/nginx/nginx.conf syntax is ok
nginx: configuration file /etc/nginx/nginx.conf test is successful
```

```
[root@serverg ~]# service nginx start
[root@serverg ~]# chkconfig nginx on
```

再次测试：
测试机 172.25.254.5
访问 www.php-f5.com

将 tomcat1 与 nginx1（程序，配置文件，挂共享存储，启动脚本）同步 tomcat2（172.25.5.17）

```
[root@serverg ~]# service tomcat stop
[root@serverg ~]# service nginx stop

[root@serverg ~]# umount /usr/local/tomcat/apache-tomcat-8.0.24/jsp-f5.com/ROOT/

[root@serverg ~]# rsync -avzR /opt/java/ root@172.25.5.17:/
[root@serverg ~]# rsync -avzR /usr/local/tomcat/ root@172.25.5.17:/
[root@serverg ~]# rsync -avzR /etc/rc.d/init.d/tomcat root@172.25.5.17:/
[root@serverg ~]# rsync -avzR /etc/nginx/ root@172.25.5.17:/
```

启动 tomcat 服务
```
[root@serverg ~]# mount -a
[root@serverg ~]# df -h |tail -1
172.25.254.221:/webroot/jsp          216G          102G          114G          48%
/usr/local/tomcat/apache-tomcat-8.0.24/jsp-f5.com/ROOT
[root@serverg ~]# service tomcat start
[root@serverg ~]# service nginx start
```

再启动 tomcat2
安装 nginx
```
[root@serverh ~]# rpm -ivh ftp://172.25.254.250/notes/project/UP200/UP200_nginx-master/pkg/nginx-1.8.1-1.el7.ngx.x86_64.rpm

[root@serverg ~]# rsync -avzR /usr/local/tomcat/apache-tomcat-8.0.24/jsp-f5.com/ROOT/ root@172.25.5.17:/
[root@serverh ~]# groupadd -g 888 tomcat
[root@serverh ~]# useradd -u 888 -g 888 -s /sbin/nologin tomcat
[root@serverh ~]# service tomcat start
[root@serverh ~]# service nginx start
```

测试：
测试机 172.25.254.5
修改 hosts 文件
[root@foundation0 ~]# vim /etc/hosts
172.25.5.17 www.jsp-f5.com
访问：www.jsp-f5.com

第七步：安装调度器（负载均衡）

```
        1.10 /---> nginx+php1 1.14
    nginx1 (*.php)
    / | \---> nginx+php2 1.15
DNS 轮询 |
    \ | / ---> nginx+tocamt1 1.16
    nginx2 (*.jsp)
        1.11 /---> nginx+tomcat2 1.17
```

```
[root@foundation0 ~]# ssh root@172.25.5.10
```

关于 nginx1 调度 php 轮询

```
[root@servera ~]# rpm -ivh ftp://172.25.254.250/notes/project/UP200/UP200_nginx-master/pkg/nginx-1.8.1-1.el7.ngx.x86_64.rpm

[root@servera ~]# vim /etc/nginx/nginx.conf
http {
include /etc/nginx/mime.types;
default_type application/octet-stream;

upstream php {
server 172.25.5.14:80 weight=1 max_fails=2 fail_timeout=1s;
server 172.25.5.15:80 weight=1 max_fails=2 fail_timeout=1s;
}
log_format main '$remote_addr - $remote_user [$time_local] "$request" '
'$status $body_bytes_sent "$http_referer" '
'"$http_user_agent" "$http_x_forwarded_for"';

access_log /var/log/nginx/access.log main;

sendfile on;
tcp_nopush on;

keepalive_timeout 65;

gzip on;

include /etc/nginx/conf.d/*.conf;
}

[root@servera ~]# vim /etc/nginx/conf.d/default.conf
server {
listen 80;
server_name 127.0.0.1;
location ~ .*\.php$ {
```

```
proxy_pass http://php;
proxy_set_header Host $host;
proxy_set_header X-Forwarded-For $remote_addr;
}
location / {
index index.php index.html index.htm;
proxy_pass http://php;
proxy_set_header Host $host;
proxy_set_header X-Forwarded-For $remote_addr;
}

[root@servera ~]# nginx -t
nginx: the configuration file /etc/nginx/nginx.conf syntax is ok
nginx: configuration file /etc/nginx/nginx.conf test is successful
[root@servera ~]# service nginx restart
```

测试机 172.25.254.5
vim /etc/hosts
172.25.5.10 www.php-f5.com
访问：www.php-f5.com

关于 nginx2 的 jsp 轮询

```
[root@foundation0 Desktop]# ssh root@172.25.5.11
[root@serverb ~]# rpm -ivh ftp://172.25.254.250/notes/project/UP200/UP200_nginx-maste
r/pkg/nginx-1.8.1-1.el7.ngx.x86_64.rpm

[root@serverb ~]# vim /etc/nginx/nginx.conf
upstream static-jsp {
server 172.25.5.16:80 weight=1 max_fails=2 fail_timeout=1s;
server 172.25.5.17:80 weight=1 max_fails=2 fail_timeout=1s;

}

upstream tomcat {
server 172.25.5.16:8080 weight=1 max_fails=2 fail_timeout=1s;
server 172.25.5.17:8080 weight=1 max_fails=2 fail_timeout=1s;

}

[root@serverb ~]# vim /etc/nginx/conf.d/default.conf
server {
listen 80;
server_name 127.0.0.1;
location ~ .*\.jsp$ {
proxy_pass http://tomcat;
proxy_set_header Host $host;
proxy_set_header X-Forwarded-For $remote_addr;
}
location / {
index index.jsp index.html index.htm;
proxy_pass http://static-jsp;
proxy_set_header Host $host;
proxy_set_header X-Forwarded-For $remote_addr;
}

location ~ ^/forum-[0-9]-[0-9]-[0-9]\.html$ {
proxy_pass http://tomcat;
proxy_set_header Host $host;
proxy_set_header X-Forwarded-For $remote_addr;

}

}

[root@serverb ~]# service nginx restart
```

测试机 172.25.254.5:
vim /etc/hosts
172.25.5.11 www.jsp-f5.com
浏览器访问：www.jsp-f5.com

第八步：
安装内存缓存服务器 memcached

memcached+php(memcache.so) ----> 缓存加速

memcached+tomcat(memcache.jar[*.class]) ---> session 一致

```
[root@foundation0 ~]# ssh root@172.25.5.18
[root@serveri ~]# yum -y install memcached
[root@serveri ~]# systemctl start memcached
[root@serveri ~]# systemctl enable memcached
```

上传 memcached 的 jar 文件到 tomcat

```
[root@foundation0 ~]# ssh root@172.25.5.16
[root@serverg ~]# lftp 172.25.254.250:/notes/project/software/tomcat_soft> mirror msm/
[root@serverg ~]# cp msm/* /usr/local/tomcat/apache-tomcat-8.0.24/lib/
[root@serverg ~]# vim /usr/local/tomcat/apache-tomcat-8.0.24/conf/context.xml
<?xml version='1.0' encoding='utf-8'?>
<Context>
<WatchedResource>WEB-INF/web.xml</WatchedResource>
<WatchedResource>${catalina.base}/conf/web.xml</WatchedResource>
<Manager className="de.javakaffee.web.msm.MemcachedBackupSessionManager"
memcachedNodes="n1:172.25.5.18:11211"
lockingMode="auto"
sticky="false"
requestUriIgnorePattern= ".*\.(png|gif|jpg|css|js)$"
sessionBackupAsync= "false"
sessionBackupTimeout= "100"
copyCollectionsForSerialization="true"
transcoderFactoryClass="de.javakaffee.web.msm.serializer.kryo.KryoTranscoderFactory" />
</Context>

[root@serverg ~]# service tomcat stop ; service tomcat start
```

测试页面：
```
[root@serverg ~]# vim /usr/local/tomcat/apache-tomcat-8.0.24/jsp-f5.com/ROOT/test.jsp
<html>
<body bgcolor="red">
<center>
<%out.print(request.getSession().getId()) ;%>
<h1>Tomcat</h1>
</body>
</html>
```

上传 tomcat2

```
[root@serverg ~]# scp msm/* 172.25.5.17:/usr/local/tomcat/apache-tomcat-8.0.24/lib/
[root@serverg ~]# rsync -avzR /usr/local/tomcat/apache-tomcat-8.0.24/conf/context.xml
root@172.25.5.17:/
[root@serverg ~]# ssh root@172.25.5.17 "service tomcat stop && service tomcat start"
```

测试机 172.25.254.5：

```
vim /etc/hosts
172.25.5.17 www.jsp-f5.com
```



```
[root@foundation0 ~]# elinks http://www.jsp-f5.com/test.jsp -dump
8F9741F4860A28BFFE95738CBC2D9AC7-n1
```

Tomcat

第九步:

配置静态缓存服务器:

squid1: 172.25.5.12
squid2: 172.25.5.13

```
[root@foundation0 ~]# ssh root@172.25.5.12
[root@serverc ~]# yum -y install squid
[root@serverc ~]# systemctl start squid
[root@serverc ~]# vim /etc/squid/squid.conf
56 http_access allow all

59 http_port 3128 accel vhost vport
60 cache_dir ufs /var/spool/squid 256 16 256
61 cache_peer 172.25.5.14 parent 80 0 no-query originserver name=web1
62 cache_peer 172.25.5.15 parent 80 0 no-query originserver name=web2
63 cache_peer 172.25.5.16 parent 80 0 no-query originserver name=web3
64 cache_peer 172.25.5.17 parent 80 0 no-query originserver name=web4
65 cache_peer_domain web1 www.php-f5.com
66 cache_peer_domain web2 www.php-f5.com
67 cache_peer_domain web1 172.25.5.14
68 cache_peer_domain web2 172.25.5.15
69 cache_peer_domain web3 www.jsp-f5.com
70 cache_peer_domain web4 www.jsp-f5.com
71 cache_peer_domain web3 172.25.5.16
72 cache_peer_domain web4 172.25.5.17

[root@serverc ~]# systemctl start squid
```

测试机 172.25.254.5：
执行 squid 缓存:
```
# curl -I http://www.php-f5.com:3128/static/image/common/logo.png
# curl -I http://www.jsp-f5.com:3128/images/answer.gif
# vim /etc/hosts
172.25.5.12 www.php-f5.com
172.25.5.12 www.jsp-f5.com
```

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远程部属 squid2:
```
[root@serverc ~]# ssh root@172.25.5.13 "yum -y install squid"
[root@serverc ~]# rsync -avzR /etc/squid/squid.conf root@172.25.5.13:/
[root@serverc ~]# ssh root@172.25.5.13 "service squid start"
```

测试机 172.25.254.5：
```
# vim /etc/hosts
172.25.5.13 www.php-f5.com
172.25.5.13 www.jsp-f5.com
```

```
# curl -I http://www.php-f5.com:3128/static/image/common/logo.png
HTTP/1.1 200 OK
Server: nginx/1.8.1
Date: Thu, 28 Sep 2017 07:09:46 GMT
Content-Type: image/png
Content-Length: 4425
Last-Modified: Fri, 28 Feb 2014 19:52:18 GMT
ETag: "5310e8f2-1149"
Accept-Ranges: bytes
X-Cache: MISS from serverc.pod5.example.com ----MISS 未成功，再试
X-Cache-Lookup: MISS from serverc.pod5.example.com:3128
Via: 1.1 serverc.pod5.example.com (squid/3.3.8)
Connection: keep-alive
```

```
# curl -I http://www.php-f5.com:3128/static/image/common/logo.png
HTTP/1.1 200 OK
Server: nginx/1.8.1
Date: Thu, 28 Sep 2017 07:09:46 GMT
Content-Type: image/png
Content-Length: 4425
Last-Modified: Fri, 28 Feb 2014 19:52:18 GMT
ETag: "5310e8f2-1149"
Accept-Ranges: bytes
Age: 9
X-Cache: HIT from serverc.pod5.example.com ----HIT 已成功
X-Cache-Lookup: HIT from serverc.pod5.example.com:3128
Via: 1.1 serverc.pod5.example.com (squid/3.3.8)
Connection: keep-alive
```

```
# curl -I http://www.jsp-f5.com:3128/images/answer.gif
HTTP/1.1 200 OK
Server: nginx/1.8.1
Date: Thu, 28 Sep 2017 07:10:01 GMT
Content-Type: image/gif
Content-Length: 864
Last-Modified: Wed, 16 Apr 2008 22:29:56 GMT
ETag: "48067de4-360"
Accept-Ranges: bytes
X-Cache: MISS from serverc.pod5.example.com ----MISS 未成功，再试
```

```
X-Cache-Lookup: MISS from serverc.pod5.example.com:3128
Via: 1.1 serverc.pod5.example.com (squid/3.3.8)
Connection: keep-alive

# curl -I http://www.jsp-f5.com:3128/images/answer.gif
HTTP/1.1 200 OK
Server: nginx/1.8.1
Date: Thu, 28 Sep 2017 07:10:01 GMT
Content-Type: image/gif
Content-Length: 864
Last-Modified: Wed, 16 Apr 2008 22:29:56 GMT
ETag: "48067de4-360"
Accept-Ranges: bytes
Age: 4
X-Cache: HIT from serverc.pod5.example.com ----HIT 已成功
X-Cache-Lookup: HIT from serverc.pod5.example.com:3128
Via: 1.1 serverc.pod5.example.com (squid/3.3.8)
Connection: keep-alive
```

第十步:
如果是静态数据 通过调度器 squid_upstream 轮询；如果是 PHP 动态数据 通过调度器 php_upstream 轮询；如果是 JSP 动态数据 通过调度器 jsp_upstream 轮询

servera: 172.25.5.10
serverb: 172.25.5.11

```
[root@foundation0 ~]# ssh root@172.25.5.10
[root@servera ~]# vim /etc/nginx/nginx.conf
upstream squid_upstream {
server 172.25.5.12:3128 weight=1 max_fails=2 fail_timeout=1s;
server 172.25.5.13:3128 weight=1 max_fails=2 fail_timeout=1s;
}

upstream php_upstream {
server 172.25.5.14:80 weight=1 max_fails=2 fail_timeout=1s;
server 172.25.5.15:80 weight=1 max_fails=2 fail_timeout=1s;

}

upstream jsp_upstream {
server 172.25.5.16:8080 weight=1 max_fails=2 fail_timeout=1s;
server 172.25.5.17:8080 weight=1 max_fails=2 fail_timeout=1s;

}

[root@servera ~]# vim /etc/nginx/conf.d/default.conf
server {
listen 80;
server_name 127.0.0.1;
location / {
index index.php index.jsp index.html index.htm;
proxy_pass http://squid_upstream;
proxy_set_header Host $host;
proxy_set_header X-Forwarded-For $remote_addr;
}
location ~ .*\.php$ {
proxy_pass http://php_upstream;
proxy_set_header Host $host;
proxy_set_header X-Forwarded-For $remote_addr;
}

location ~ .*\.jsp$ {
proxy_pass http://jsp_upstream;
proxy_set_header Host $host;
proxy_set_header X-Forwarded-For $remote_addr;
}

}
```
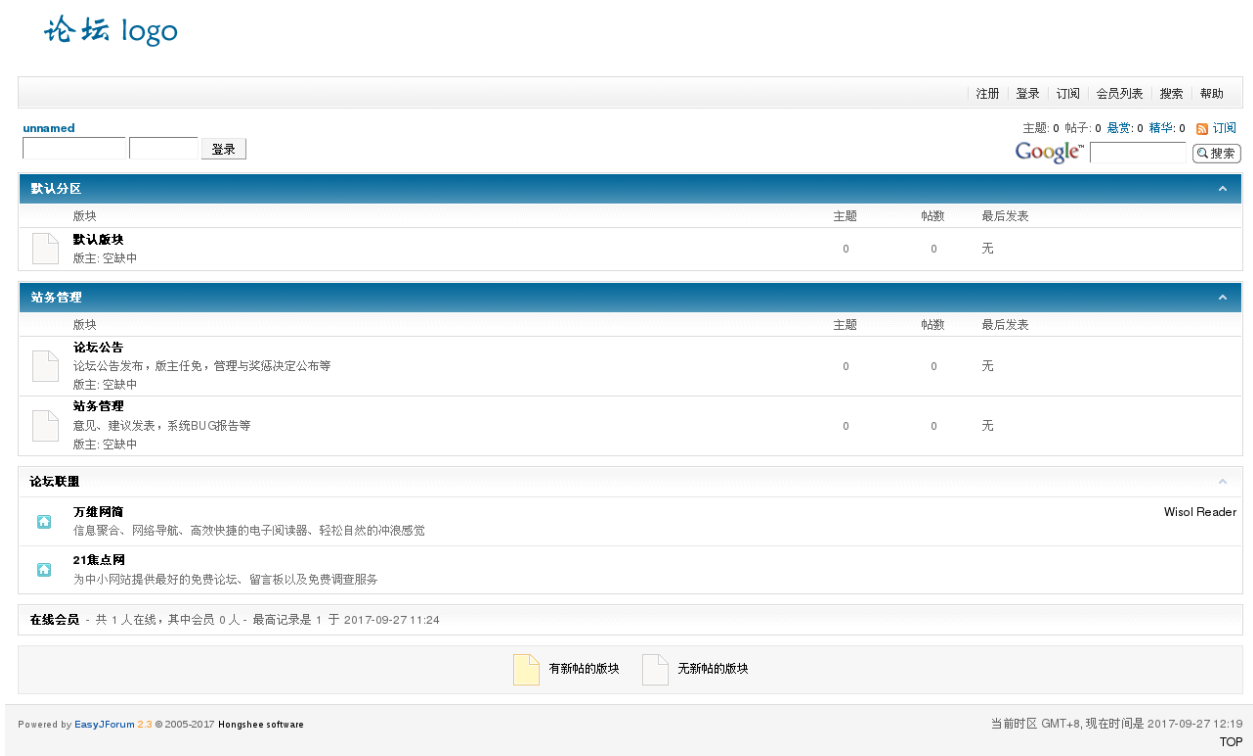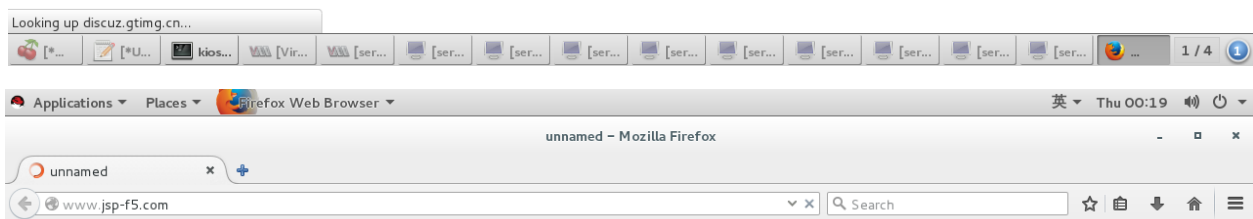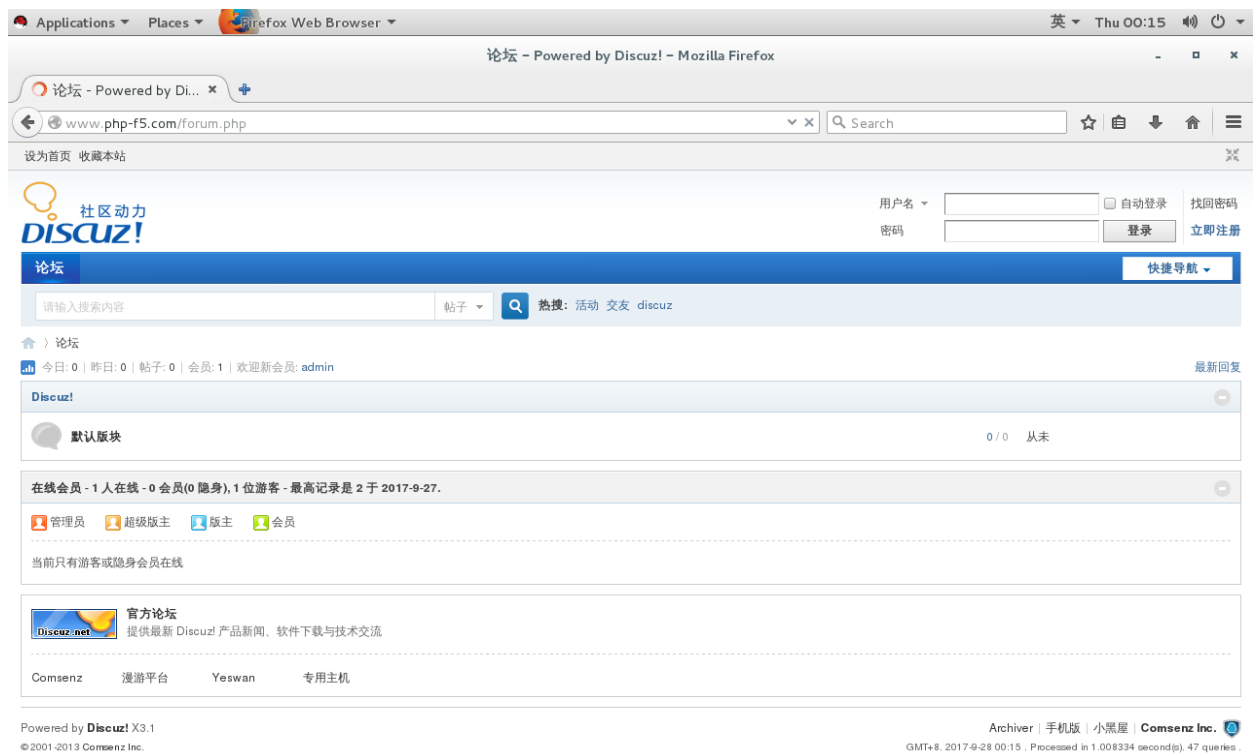
将配置文件同步 nginx2:

```
[root@servera ~]# rsync -avzR /etc/nginx/ 172.25.5.11:/
[root@servera ~]# ssh root@172.25.5.11 "service nginx restart"
```

测试机 172.25.254.5:
```
# vim /etc/hosts
172.25.5.11 www.jsp-f5.com
172.25.5.10 www.php-f5.com
```

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                                                                                   TOP

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配置 php、jsp 的 rsync 同步
Servere 与 serverf 进行以下相同操作、配置文件一致

```
[root@servere ~]# yum -y install rsync
[root@servere ~]# chown nginx.nginx /usr/share/nginx/php-f5.com/
[root@servere ~]# chmod 775 /usr/share/nginx/php-f5.com/
[root@servere ~]# vim /etc/rsyncd.conf
uid=nginx
gid=nginx
use chroot=yes
port 873
log file=/var/log/rsyncd.log
pid file=/var/run/rsyncd.pid
hosts allow=172.25.0.0/16
motd file=/etc/rsyncd.welcome

[php]
path=/usr/share/nginx/php-f5.com
comment= web root share with rsync
read only=no
dont compress=*.gz *.bz2 *.tgz *.rar *.zip *.rpm
auth users=user01 user02
secrets file=/etc/rsyncd_user.db

[root@servere ~]# vim /etc/rsyncd_user.db
user01:123
user02:456

[root@servere ~]# chmod 600 /etc/rsyncd_user.db

[root@servere ~]# vim /etc/rc.local
/usr/bin/rsync --daemon

[root@servere ~]# source /etc/rc.local

[root@servere ~]# netstat -tnlp |grep :873
tcp 0 0 0.0.0.0:873 0.0.0.0:* LISTEN 1265/rsync
tcp6 0 0 :::873 :::* LISTEN 1265/rsync
```

serverg 与 serverh 进行以下操作、配置文件一致

```
[root@serverg ~]# yum -y install rsync
[root@serverg ~]# chown tomcat.tomcat /usr/local/tomcat/apache-tomcat-8.0.24/jsp-f5.com
/ROOT/
[root@serverg ~]# chmod 775 /usr/local/tomcat/apache-tomcat-8.0.24/jsp-f5.com/ROOT/
[root@serverg ~]# vim /etc/rsyncd.conf
uid=tomcat
gid=tomcat
use chroot=yes
port 873
log file=/var/log/rsyncd.log
pid file=/var/run/rsyncd.pid
hosts allow=172.25.0.0/16
motd file=/etc/rsyncd.welcome

[jsp]
path=/usr/local/tomcat/apache-tomcat-8.0.24/jsp-f5.com/ROOT
comment= web root share with rsync
read only=no
dont compress=*.gz *.bz2 *.tgz *.rar *.zip *.rpm
auth users=user01 user02
secrets file=/etc/rsyncd_user.db

[root@serverg ~]# vim /etc/rsyncd_user.db
user01:123
user02:456

[root@serverg ~]# chmod 600 /etc/rsyncd_user.db
[root@serverg ~]# vim /etc/rc.local
/usr/bin/rsync --daemon
[root@serverg ~]# source /etc/rc.local
[root@serverg ~]# netstat -tnlp |grep :873
tcp 0 0 0.0.0.0:873 0.0.0.0:* LISTEN 1473/rsync
tcp6 0 0 :::873 :::* LISTEN 1473/rsync
```

配置独立的 servsync
172.25.5.18

1）下载软件包
[root@localhost ~]# ssh root@172.25.5.18
[root@serveri ~]# rpm -q rsync
rsync-3.0.9-15.el7.x86_64
[root@serveri ~]# yum -y install lftp
[root@serveri ~]# lftp 172.25.254.250
lftp 172.25.254.250:~> cd notes/project/software/
cd ok, cwd=/notes/project/software
lftp 172.25.254.250:/notes/project/software> mirror sersync/
Total: 2 directories, 3 files, 0 symlinks
New: 3 files, 0 symlinks
2539632 bytes transferred
lftp 172.25.254.250:/notes/project/software> exit

2）安装
[root@serveri ~]# tar xf sersync/sersync2.5.4_64bit_binary_stable_final.tar.gz -C /opt/
[root@serveri ~]# mv /opt/GNU-Linux-x86/ /opt/servsync

3）测试 能否与 rsyncd 同步数据
[root@serveri ~]# mkdir /webserver/jsp
[root@serveri ~]# mkdir /webserver/php
[root@serveri ~]# chown nobody. /webserver/ -R
[root@serveri ~]# chmod 775 /webserver/ -R

4）定义 sersync 配置文件

指定 php 配置文件
[root@serveri ~]# vim /opt/servsync/confxml.xml
<?xml version="1.0" encoding="ISO-8859-1"?>
<head version="2.5">
<host hostip="localhost" port="8008"></host>
<debug start="false"/>
<fileSystem xfs="false"/>
<filter start="ture">
<exclude expression="(.*)\.svn"></exclude>
<exclude expression="(.*)\.gz"></exclude>
<exclude expression="^info/*"></exclude>
<exclude expression="^static/*"></exclude>
<exclude expression="(.*)\.mp3"></exclude>
</filter>
<inotify>
<delete start="true"/>
<createFolder start="true"/>
<createFile start="true"/>
<closeWrite start="true"/>

```xml
<moveFrom start="true"/>
<moveTo start="true"/>
<attrib start="false"/>
<modify start="true"/>
</inotify>

<sersync>
<localpath watch="/webserver/php">
<remote ip="172.25.5.14" name="php"/>
<remote ip="172.25.5.15" name="php"/>
</localpath>
<rsync>
<commonParams params="-az"/>
<auth start="true" users="user01" passwordfile="/etc/rsync.pas"/>
<userDefinedPort start="false" port="874"/><!-- port=874 -->
<timeout start="false" time="100"/><!-- timeout=100 -->
<ssh start="false"/>
</rsync>
<failLog path="/tmp/rsync_fail_log.sh" timeToExecute="60"/><!--default
every 60mins execute once-->
<crontab start="false" schedule="600"><!--600mins-->
<crontabfilter start="false">
<exclude expression="*.php"></exclude>
<exclude expression="info/*"></exclude>
</crontabfilter>
</crontab>
<plugin start="false" name="command"/>
</sersync>

<plugin name="command">
<param prefix="/bin/sh" suffix="" ignoreError="true"/> <!--prefix
/opt/tongbu/mmm.sh suffix-->
<filter start="false">
<include expression="(.*)\.php"/>
<include expression="(.*)\.sh"/>
</filter>
</plugin>

<plugin name="socket">
<localpath watch="/opt/tongbu">
<deshost ip="192.168.138.20" port="8009"/>
</localpath>
</plugin>
<plugin name="refreshCDN">
<localpath watch="/data0/htdocs/cms.xoyo.com/site/">
<cdninfo domainname="ccms.chinacache.com" port="80"
username="xxxx" passwd="xxxx"/>
<sendurl base="">http://pic.xoyo.com/cms"/>
<regexurl regex="false"
```

```
match="cms.xoyo.com/site([/a-zA-Z0-9]*).xoyo.com/images"/>
</localpath>
</plugin>
</head>
```

指定 jsp 配置文件
```
[root@serveri ~]# vim /opt/servsync/confxml2.xml
<?xml version="1.0" encoding="ISO-8859-1"?>
<head version="2.5">
<host hostip="localhost" port="8009"></host>
<debug start="false"/>
<fileSystem xfs="false"/>
<filter start="ture">
<exclude expression="(.*)\.svn"></exclude>
<exclude expression="(.*)\.gz"></exclude>
<exclude expression="^info/*"></exclude>
<exclude expression="^static/*"></exclude>
<exclude expression="(.*)\.mp3"></exclude>
</filter>
<inotify>
<delete start="true"/>
<createFolder start="true"/>
<createFile start="true"/>
<closeWrite start="true"/>
<moveFrom start="true"/>
<moveTo start="true"/>
<attrib start="false"/>
<modify start="true"/>
</inotify>

<sersync>
<localpath watch="/webserver/jsp">
<remote ip="172.25.5.16" name="jsp"/>
<remote ip="172.25.5.17" name="jsp"/>
</localpath>
<rsync>
<commonParams params="-az"/>
<auth start="true" users="user01" passwordfile="/etc/rsync.pas"/>
<userDefinedPort start="false" port="874"/><!-- port=874 -->
<timeout start="false" time="100"/><!-- timeout=100 -->
<ssh start="false"/>
</rsync>
<failLog path="/tmp/rsync_fail_log.sh" timeToExecute="60"/><!--default
every 60mins execute once-->
<crontab start="false" schedule="600"><!--600mins-->
<crontabfilter start="false">
<exclude expression="*.php"></exclude>
<exclude expression="info/*"></exclude>
</crontabfilter>
```

```
</crontab>
<plugin start="false" name="command"/>
</sersync>

<plugin name="command">
<param prefix="/bin/sh" suffix="" ignoreError="true"/> <!--prefix
/opt/tongbu/mmm.sh suffix-->
<filter start="false">
<include expression="(.*)\.php"/>
<include expression="(.*)\.sh"/>
</filter>
</plugin>

<plugin name="socket">
<localpath watch="/opt/tongbu">
<deshost ip="192.168.138.20" port="8009"/>
</localpath>
</plugin>
<plugin name="refreshCDN">
<localpath watch="/data0/htdocs/cms.xoyo.com/site/">
<cdninfo domainname="ccms.chinacache.com" port="80"
username="xxxx" passwd="xxxx"/>
<sendurl base="">http://pic.xoyo.com/cms"/>
<regexurl regex="false"
match="cms.xoyo.com/site([/a-zA-Z0-9]*).xoyo.com/images"/>
</localpath>
</plugin>
</head>
```

设置 rsync daemon 通道
```
[root@serveri ~]# echo 123 > /etc/rsync.pas
[root@serveri ~]# chmod 600 /etc/rsync.pas
```

5）启动
```
[root@serveri ~]# /opt/servsync/sersync2 -h
set the system param
execute: echo 50000000 > /proc/sys/fs/inotify/max_user_watches
execute：echo 327679 > /proc/sys/fs/inotify/max_queued_events
parse the command param
```
_____
参数-d:启用守护进程模式
参数-r:在监控前，将监控目录与远程主机用 rsync 命令推送一遍
c 参数-n: 指定开启守护线程的数量，默认为 10 个
参数-o:指定配置文件，默认使用 confxml.xml 文件
参数-m:单独启用其他模块，使用 -m refreshCDN 开启刷新 CDN 模块
参数-m:单独启用其他模块，使用 -m socket 开启 socket 模块
参数-m:单独启用其他模块，使用 -m http 开启 http 模块
不加-m 参数，则默认执行同步程序

_____

```
[root@serveri ~]# /opt/servsync/sersync2 -d -n 12 -o /opt/servsync/confxml.xml ----php
set the system param
execute: echo 50000000 > /proc/sys/fs/inotify/max_user_watches
execute: echo 327679 > /proc/sys/fs/inotify/max_queued_events
parse the command param
option: -d run as a daemon
option: -r rsync all the local files to the remote servers before the sersync work
option: -n thread num is:  12
option: -o config xml name:  /opt/servsync/confxml.xml
parse xml config file
host ip : localhost host port: 8008
will ignore the inotify createFile event
daemon start, sersync run behind the console
use rsync password-file :
user is user01
passwordfile is /etc/rsync.pas
config xml parse success
please set /etc/rsyncd.conf max connections=0 Manually
sersync working thread 14 = 1(primary thread) + 1(fail retry thread) + 12(daemon sub threads)
Max threads numbers is: 38 = 14(Thread pool nums) + 24(Sub threads)
please according your cpu , use -n param to adjust the cpu rate
----------------------------------------
rsync the directory recursivly to the remote servers once
working please wait...
execute command: cd /webserver/php && rsync -az -R --delete ./ user01@172.25.5.14::php
--password-file=/etc/rsync.pas >/dev/null 2>&1
[root@serveri ~]# run the sersync:
watch path is: /webserver/php


[root@serveri php]# /opt/servsync/sersync2 -d -n 12 -o /opt/servsync/confxml2.xml
----tomcat
set the system param
execute: echo 50000000 > /proc/sys/fs/inotify/max_user_watches
execute: echo 327679 > /proc/sys/fs/inotify/max_queued_events
parse the command param
option: -d run as a daemon
option: -r rsync all the local files to the remote servers before the sersync work
option: -n thread num is:  12
option: -o config xml name:  /opt/servsync/confxml2.xml
parse xml config file
host ip : localhost host port: 8009
will ignore the inotify createFile event
daemon start, sersync run behind the console
use rsync password-file :
user is user01
passwordfile is /etc/rsync.pas
config xml parse success
please set /etc/rsyncd.conf max connections=0 Manually
```

```
sersync working thread 14 = 1(primary thread) + 1(fail retry thread) + 12(daemon sub threads)
Max threads numbers is: 38 = 14(Thread pool nums) + 24(Sub threads)
please according your cpu , use -n param to adjust the cpu rate
----------------------------------------
rsync the directory recursivly to the remote servers once
working please wait...
execute command: cd /webserver/jsp && rsync -az -R --delete ./ user01@172.25.5.16::jsp
--password-file=/etc/rsync.pas >/dev/null 2>&1
[root@serveri php]# run the sersync:
watch path is: /webserver/jsp
```

验证 php 是否成功同步：
```
[root@serveri ~]# cd /webserver/php/
[root@serveri php]# touch 123
[kiosk@foundation5 Desktop]$ ssh root@172.25.5.14
[root@servere ~]# ls /usr/share/nginx/php-f5.com/
123 api archiver install source static template
```

验证 jsp 是否成功同步：
```
[root@serveri php]# cd ../jsp/
[root@serveri jsp]# touch 345
[root@serveri jsp]# ls
345 forum.jsp login.jsp report.jsp topic.jsp
admin help manage.jsp resetpwd.jsp upload
advsearch.jsp images member search_result.jsp userlist.jsp
error.jsp include perform.jsp spec_topics.jsp uspace.jsp
feeds.jsp index.jsp post.jsp stat WEB-INF
findpwd.jsp js register.jsp styles
```

```
[root@serverg ROOT]# pwd
/usr/local/tomcat/apache-tomcat-8.0.24/jsp-f5.com/ROOT
[root@serverg ROOT]# ls
345 forum.jsp login.jsp report.jsp topic.jsp
admin help manage.jsp resetpwd.jsp upload
advsearch.jsp images member search_result.jsp userlist.jsp
error.jsp include perform.jsp spec_topics.jsp uspace.jsp
feeds.jsp index.jsp post.jsp stat WEB-INF
findpwd.jsp js register.jsp styles
```