

# 项目要求

项目名称: ABC公司IDC机房托管中心项目实施

项目要求:

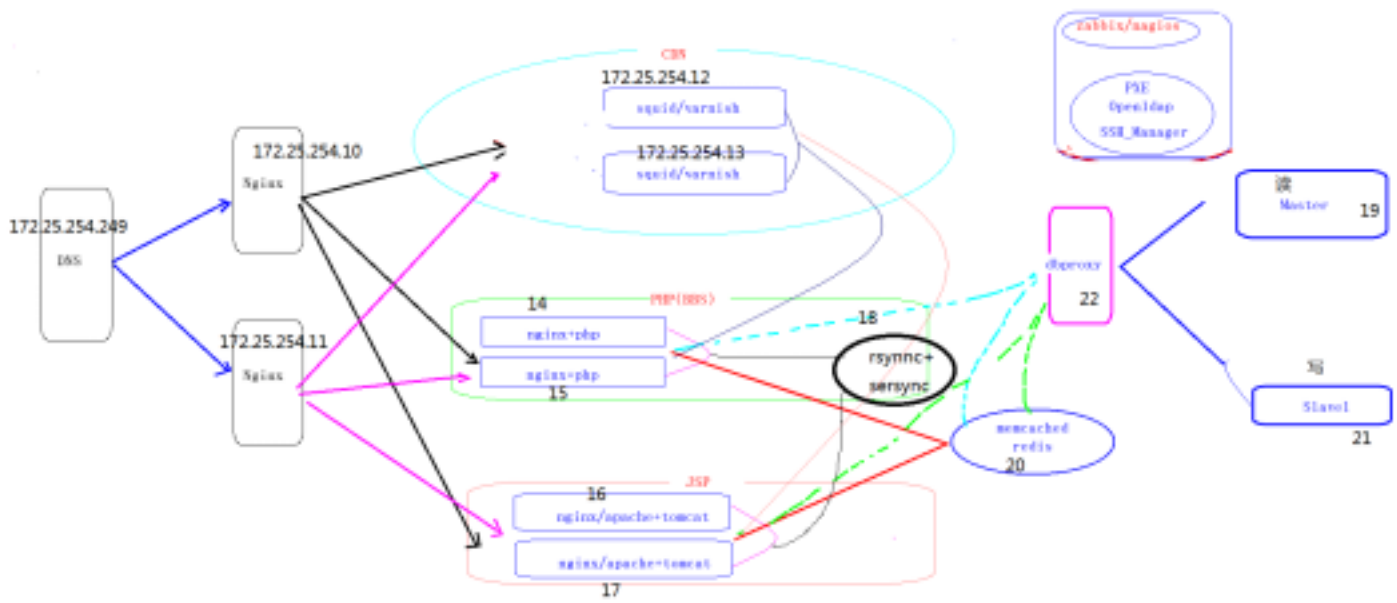
- 1.租用IDC机房机柜,机柜带宽,服务器性能自己挑选
- 2.使用pxe(cobbler)批量安装系统与初始化配置(规划IP地址)
- 3.服务器采用2网卡设计,接入公网与内网IP
- 4.实现智能DNS,方便公网用户快速访问
- 5.采用LNMP架构,实现ABC公司论坛到搭建,论坛采用PHP语言开发
- 6.采用nginx+tomcat+jdk+jsp页面,实现对公司企业网站的WEB实现
- 7.使用nginx调度器,对2套网页(PHP,JSP)负载均衡
- 8.采用CDN架构(squid/varnish)实现静态数据加速
- 9.采用rsync-sersync将所有服务器数据实现一致性
- 10.安装mysql集群实现一主多从,通过读写分离实现主读从写
- 11.使用redis或者memcache对PHP加速缓存,解决JSP会话一致性
- 12.采用openldap,实现对服务器帐号集中制管理
- 13.设计内网ssh管理方案
- 14.设置公网防火墙,对ssh与http协议开放
- 15.使用监控系统cacti,nagios,zabbix监控主机资源及时报警
- 16.IDC托管中心考察广州几家:如唯一网络,长城带宽等(各种费用)

说明(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(建议5台[1台])
- 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) bbs.abc.com 2台
- 5) 安装nginx+tomcat+jdk+jsp+memcache(JSP企业网站) www.abc.com 2台
- 6) 安装nginx反向代理服务器(调度器)实现负载均衡(轮循) 1台
- 7) 安装squid或者varnish实现静态缓存加速(CDN) 2台
- 8) 安装nginx反向代理服务器(双机互备) 1台
- 9) 通过DNS轮循访问2台nginx调度器 建议2台<DNS主从> 1台
- 10) 搭建openldap实现帐号集中制管理
- 11) 设计ssh服务(监听内网,使用密钥对登录,设置跳板机)
- 12) 设计防火墙规则,只允许公网访问http与ssh协议
- 13) 编写项目文档

-----  
mysql/servsync 1台  
nginx+php+memcache 2台  
nginx+tomcat+memcache 2台  
nginx反向代理 2台  
squid反向代理 2台  
DNS轮循 1台  
-----10台-----

## 项目准备工作



## 步骤

### 第一步

用以下三台机器先搭建一个bbs

nginx 172.25.254.10(调度器)

php 172.25.254.14

mysql 172.25.254.19

```
[root@nginx ~]# rpm -ivh nginx-1.8.1-1.el7.ngx.x86_64.rpm
```

```
[root@php ~]# rpm -ivh spawn-fcgi-1.6.3-5.el7.x86_64.rpm
```

```
[root@php ~]# rpm -ivh nginx-1.8.1-1.el7.ngx.x86_64.rpm
```

```
[root@php ~]# yum -y install php php-mysql
```

```
[root@mysql ~]# yum -y install mariadb
```

```
[root@nginx ~]# cd /etc/nginx/conf.d/
```

```
[root@nginx conf.d]# ls
default.conf  example_ssl.conf
```

```
[root@nginx conf.d]# cat default.conf
```

```
server {
    listen      80;
    server_name 127.0.0.1;
    location ~ .*\.php$ {
        proxy_pass http://wphp_pools;
        proxy_set_header Host $host;
        proxy_set_header X-Forwarded-For $remote_addr;
    }
    location / {
        index index.php index.html index.htm;
        proxy_pass http://wphp_pools;
        proxy_set_header Host $host;
        proxy_set_header X-Forwarded-For $remote_addr;
    }
}
```

```
[root@nginxa conf.d]# vim /etc/nginx/nginx.conf
```

```
    upstream wphp_pools {
        server 172.25.254.14;
    }
```

```
[root@phpe ~]# ls
anaconda-ks.cfg      nginx-1.8.1-1.el7ngx.x86_64.rpm  upload
Discuz_X3.1_SC_UTF8.zip  readme                          utility
[root@phpe ~]# mkdir /usr/share/nginx/wphp.com
[root@phpe ~]# unzip Discuz_X3.1_SC_UTF8.zip
```

```
[root@phpe ~]# cp -r upload/* /usr/share/nginx/wphp.com
[root@phpe ~]# cd /usr/share/nginx/
[root@phpe nginx]# chown -R nginx. wphp.com/
```

```
[root@nginxa ~]#systemctl start nginx
[root@mysqlj ~]#systemctl start mariadb
[root@mysqlj ~]# mysql
```

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

新建BBS论坛 JSP网站库

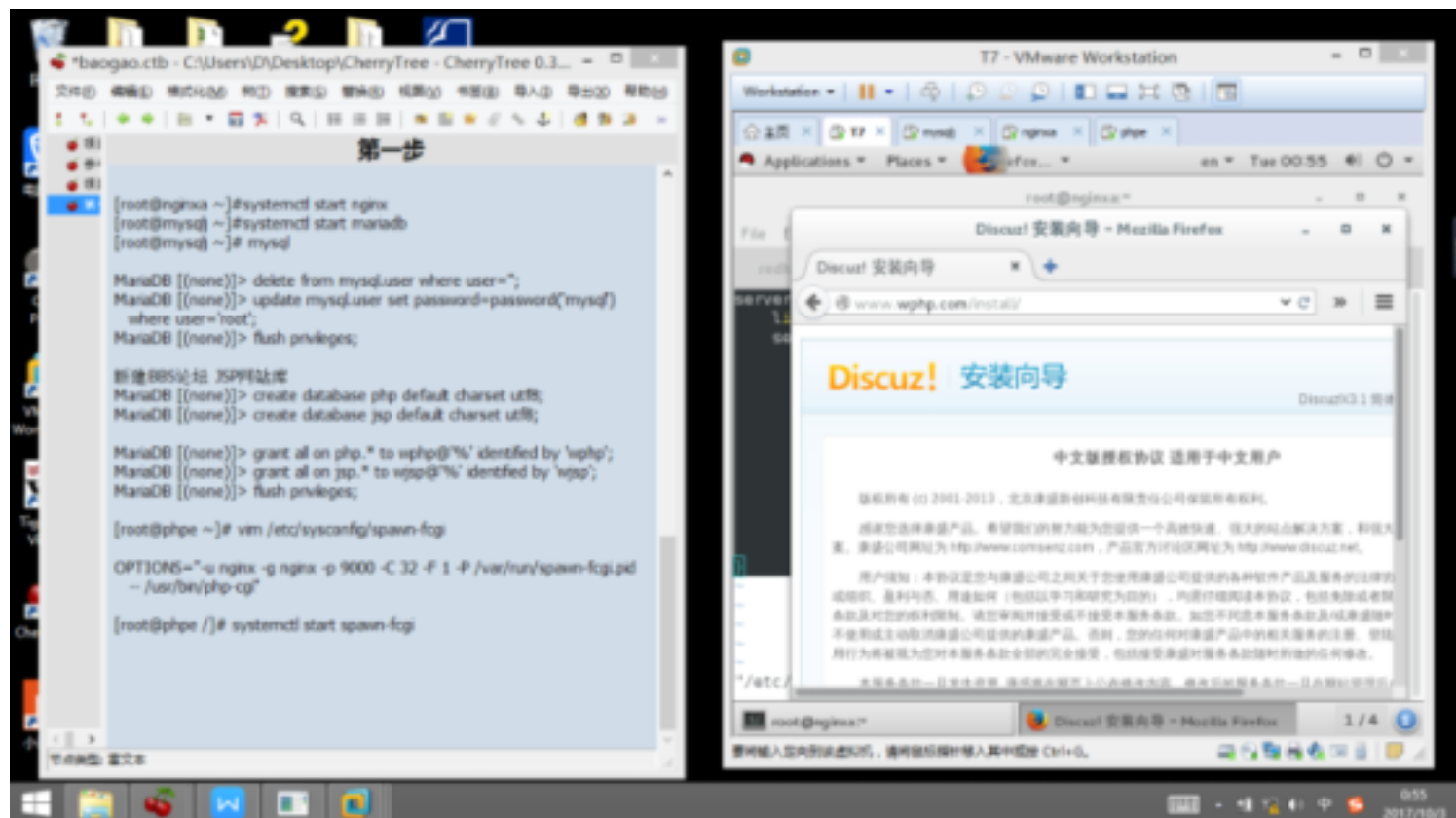
```
MariaDB [(none)]> create database php default charset utf8;
MariaDB [(none)]> create database jsp default charset utf8;
```

```
MariaDB [(none)]> grant all on php.* to wphp@'%' identified by 'wphp';
MariaDB [(none)]> grant all on jsp.* to wjsp@'%' identified by 'wjsp';
MariaDB [(none)]> flush privileges;
```

```
[root@phpe ~]# 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@phpe /]# systemctl start spawn-fcgi
```



nginx 172.25.254.10 轮询 phpe 和phpf 访问www.wphp.com  
phpf 172.25.254.15

```
[root@nginxa ~]# rpm -ivh nginx-1.8.1-1.el7ngx.x86_64.rpm
[root@phpf ~]# rpm -ivh spawn-fcgi-1.6.3-5.el7.x86_64.rpm
[root@phpf ~]# yum -y install php php-mysql
[root@phpf ~]# mkdir /usr/share/nginx/wphp.com
```

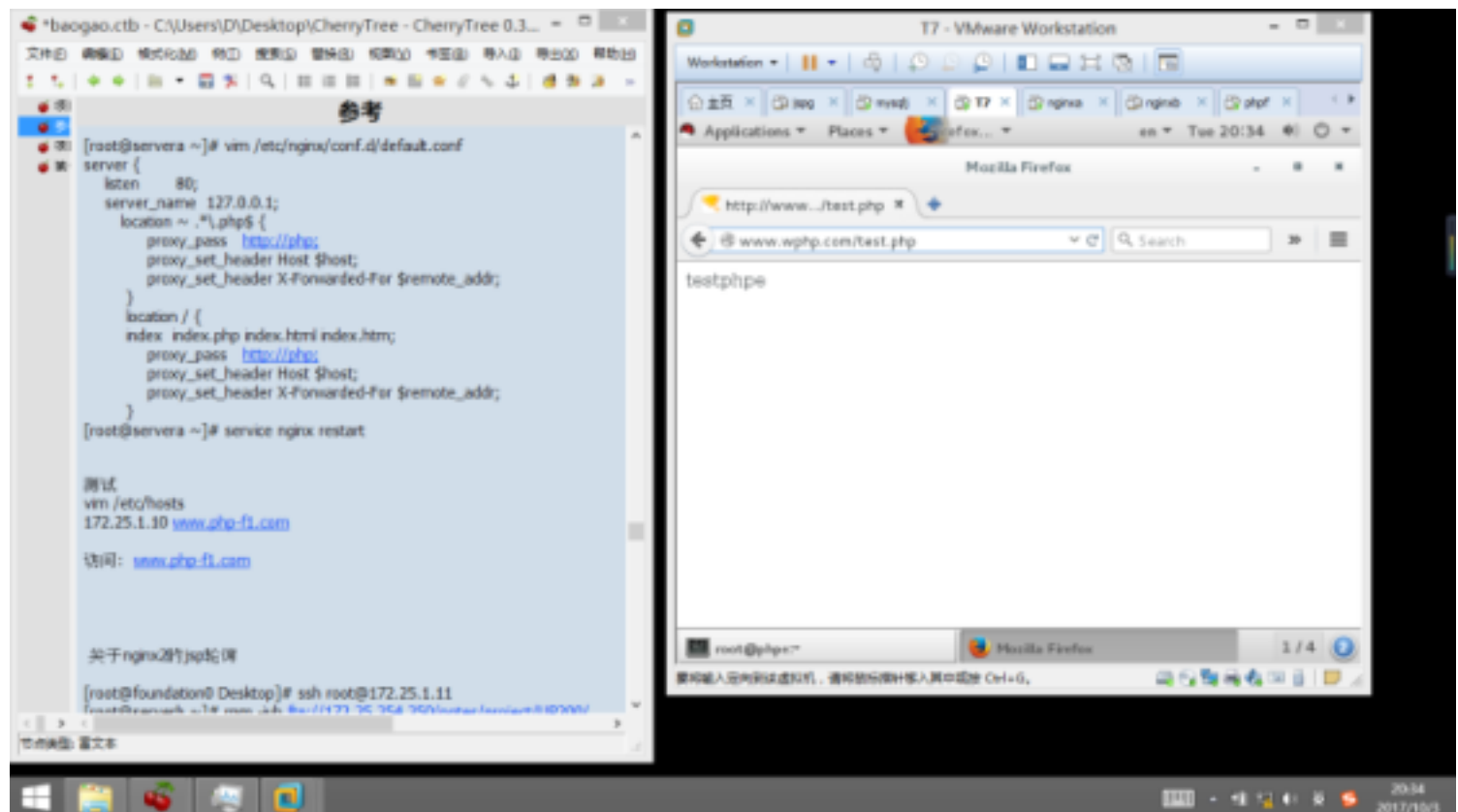
```
[root@phpe ~]# scp -r /usr/share/nginx/wphp.com/* 172.25.254.15:/usr/share/nginx/wphp.com
[root@phpf wphp.com]# ls
admin.php  cp.php      home.php  portal.php test.php
api        crossdomain.xml index.php robots.txt uc_client
api.php    data        install   search.php uc_server
archiver   favicon.ico member.php source    userapp.php
config     forum.php   misc.php static
connect.php group.php   plugin.php template
```

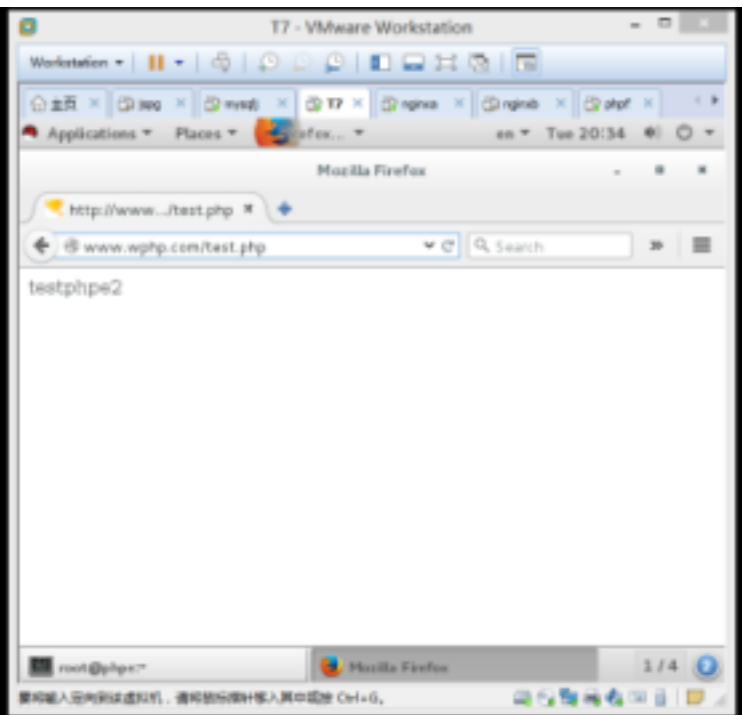
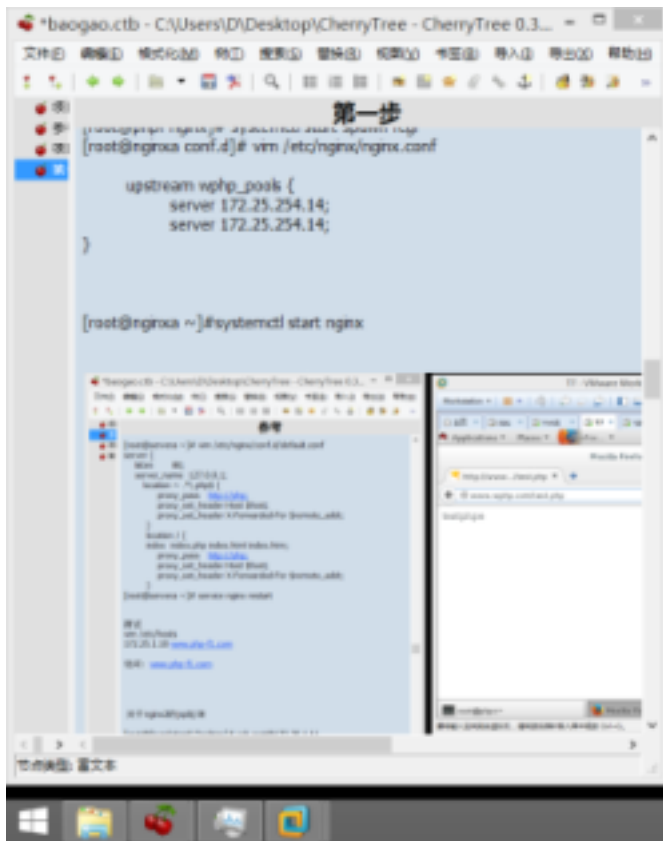
```
[root@phpe ~]# scp /etc/sysconfig/spawn-fcgi 172.25.254.15:/etc/sysconfig/spawn-fcgi
```

```
[root@phpf ~]# cd /usr/share/nginx/
[root@phpf nginx]# chown -R nginx. wphp.com/
[root@phpf nginx]# systemctl start spawn-fcgi
[root@nginxa conf.d]# vim /etc/nginx/nginx.conf
```

```
upstream wphp_pools {
    server 172.25.254.14;
    server 172.25.254.15;
}
```

```
[root@nginxa ~]# systemctl start nginx
```





## 第二步：

用以下机器搭建一个jsp论坛

nginxb 172.25.254.11  
jspg 172.25.254.16  
mysqlj 172.25.254.19

```
[root@jspg ~]# ls
anaconda-ks.cfg          jdk-7u15-linux-x64.tar.gz
apache-tomcat-8.0.24.tar.gz
```

```
[root@jspg ~]# tar -xf jdk-7u15-linux-x64.tar.gz -C /opt/
[root@jspg ~]# mv /opt/jdk1.7.0_15/ /opt/java
[root@jspg ~]# mkdir /usr/local/tomcat
[root@jspg ~]# tar -xf apache-tomcat-8.0.24.tar.gz -C /usr/local/tomcat/
```

```
[root@jspg ~]# groupadd -g 888 tomcat
[root@jspg ~]# useradd -g 888 -u 888 tomcat -s /sbin/nologin
[root@jspg ~]# cd /usr/local/tomcat/apache-tomcat-8.0.24/bin/
[root@jspg bin]# tar -xf commons-daemon-native.tar.gz
[root@jspg bin]# cd commons-daemon-1.0.15-native-src/unix/
```

```
[root@jspg unix]# yum -y install gcc
[root@jspg unix]# ./configure --with-java=/opt/java
[root@jspg unix]# make
```

```
[root@jspg unix]# cp -a jsvc /usr/local/tomcat/apache-tomcat-8.0.24/bin/
[root@jspg unix]# cd /usr/local/tomcat/apache-tomcat-8.0.24/bin/
[root@jspg bin]# cp daemon.sh /etc/init.d/tomcat
```

```
[root@jspg 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@jspg bin]# chmod +x /etc/init.d/tomcat
```

```
[root@jspg bin]# chown tomcat.tomcat -R /usr/local/tomcat/apache-tomcat-8.0.24/
```

```
[root@jspg bin]# service tomcat start
[root@jspg bin]# ps aux |grep tomcat
```

```
root    4344  0.0  0.0 10684   20 ?        Ss   23:48   0:00 jsvc.exec -java-home /opt/java/ -user tomcat -
pidfile /usr/local/tomcat/apache-tomcat-8.0.24/logs/catalina-daemon.pid -wait 10 -outfile /usr/local/tomcat/
apache-tomcat-8.0.24/logs/catalina-daemon.out -errfile &1 -classpath /usr/local/tomcat/apache-tomcat-8.0.24/bin/
bootstrap.jar:/usr/local/tomcat/apache-tomcat-8.0.24/bin/commons-daemon.jar:/usr/local/tomcat/apache-
tomcat-8.0.24/bin/tomcat-juli.jar -Djava.util.logging.config.file=/usr/local/tomcat/apache-tomcat-8.0.24/conf/
logging.properties -Djava.util.logging.manager=org.apache.juli.ClassLoaderLogManager -Djava.endorsed.dirs= -
Dcatalina.base=/usr/local/tomcat/apache-tomcat-8.0.24 -Dcatalina.home=/usr/local/tomcat/apache-
tomcat-8.0.24 -Djava.io.tmpdir=/usr/local/tomcat/apache-tomcat-8.0.24/temp
org.apache.catalina.startup.Bootstrap
tomcat   4345 28.2 21.5 818580 36620 ?        Sl   23:48   0:10 jsvc.exec -java-home /opt/java/ -user tomcat -
pidfile /usr/local/tomcat/apache-tomcat-8.0.24/logs/catalina-daemon.pid -wait 10 -outfile /usr/local/tomcat/
apache-tomcat-8.0.24/logs/catalina-daemon.out -errfile &1 -classpath /usr/local/tomcat/apache-tomcat-8.0.24/bin/
bootstrap.jar:/usr/local/tomcat/apache-tomcat-8.0.24/bin/commons-daemon.jar:/usr/local/tomcat/apache-
tomcat-8.0.24/bin/tomcat-juli.jar -Djava.util.logging.config.file=/usr/local/tomcat/apache-tomcat-8.0.24/conf/
logging.properties -Djava.util.logging.manager=org.apache.juli.ClassLoaderLogManager -Djava.endorsed.dirs= -
Dcatalina.base=/usr/local/tomcat/apache-tomcat-8.0.24 -Dcatalina.home=/usr/local/tomcat/apache-
tomcat-8.0.24 -Djava.io.tmpdir=/usr/local/tomcat/apache-tomcat-8.0.24/temp
org.apache.catalina.startup.Bootstrap
root     4361  1.0  0.1 112644  288 pts/0    R+   23:49   0:00 grep --color=auto tomcat
```

```
[root@jspg bin]# netstat -tnlp |grep :80
tcp6     0      0 :::8009          :::*              LISTEN      4345/jsvc.exec
tcp6     0      0 :::8080          :::*              LISTEN      4345/jsvc.exec
```

```
[root@jspg bin]# vim /usr/local/tomcat/apache-tomcat-8.0.24/conf/server.xml
```

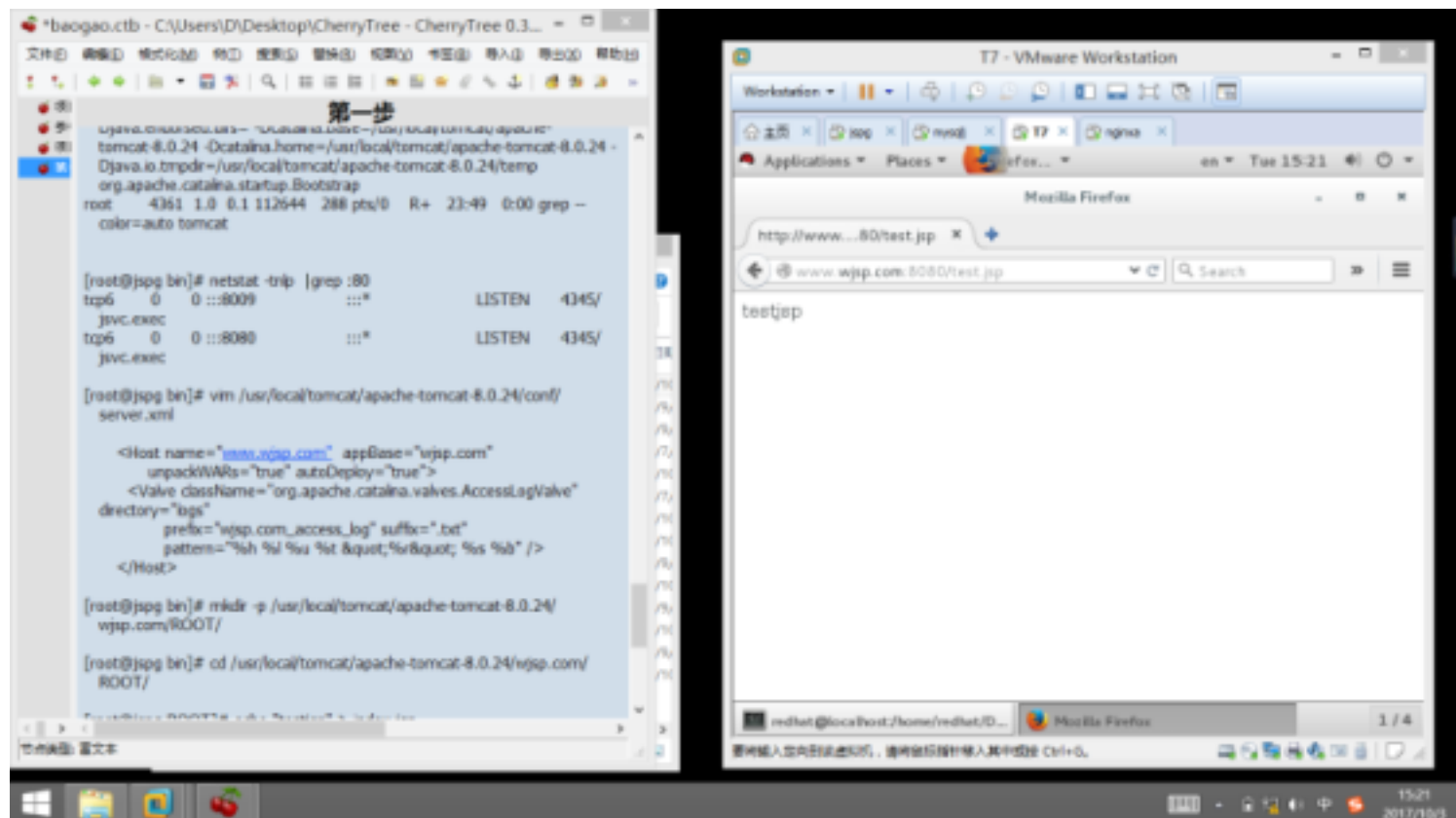
```
<Host name="www.wjsp.com" appBase="wjsp.com"
    unpackWARs="true" autoDeploy="true">
    <Valve className="org.apache.catalina.valves.AccessLogValve" directory="logs"
        prefix="wjsp.com_access_log" suffix=".txt"
        pattern="%h %l %u %t &quot;%r&quot; %s %b" />
</Host>
```

```
[root@jspg bin]# mkdir -p /usr/local/tomcat/apache-tomcat-8.0.24/wjsp.com/ROOT/
```

```
[root@jspg bin]# cd /usr/local/tomcat/apache-tomcat-8.0.24/wjsp.com/ROOT/
```

```
[root@jspg ROOT]# echo "testjsp" > index.jsp
```

```
[root@localhost pkg]# echo "172.25.254.16 www.wjsp.com" >> /etc/hosts
```



改端口

```
[root@jspg wjsp.com]# vim /usr/local/tomcat/apache-tomcat-8.0.24/conf/server.xml
```

```
<Connector port="80" protocol="HTTP/1.1"
connectionTimeout="20000"
redirectPort="8443" />
```

```
[root@jspg ~]# unzip ejforum-2.3.zip -d /tmp/
[root@jspg ~]# cd /tmp/
[root@jspg tmp]# ls
4454.jsvc_up ejforum-2.3 hspferdata_tomcat tmpwqqOFS
```

```
[root@jspg tmp]# cp -r ejforum-2.3/ejforum/* /usr/local/tomcat/apache-tomcat-8.0.24/wjsp.com/ROOT/
[root@jspg tmp]# cd /usr/local/tomcat/apache-tomcat-8.0.24/wjsp.com/ROOT/
[root@jspg ROOT]# ls
admin          include        register.jsp   topic.jsp
advsearch.jsp  index.jsp     report.jsp    upload
error.jsp      js            resetpwd.jsp  userlist.jsp
feeds.jsp      login.jsp     search_result.jsp uspace.jsp
findpwd.jsp    manage.jsp    spec_topics.jsp WEB-INF
forum.jsp      member        stat
help           perform.jsp   styles
images         post.jsp      test.jsp
```

```
[root@jspg ~]# tar -xf mysql-connector-java-5.1.36.tar.gz -C /tmp/
[root@jspg ~]# 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/
```

```
[root@jspg ~]# cd //usr/local/tomcat/apache-tomcat-8.0.24/wjsp.com/ROOT/WEB-INF/conf/
```

```
[root@jspg conf]# vim config.xml
```

将第一段注释掉，打开第二段和mysql的连接

```
<database maxActive="10" maxIdle="10" minIdle="2" maxWait="10000"
```



```

username="wjsp" password="wjsp"
driverClassName="com.mysql.jdbc.Driver"
url="jdbc:mysql://172.25.254.19:3306/wjsp?
characterEncoding=gbk&autoReconnect=true&autoReconnectForPools=true&zeroDateTimeBehavior=co
sqlAdapter="sql.MySqlAdapter"/>

```

```
[root@jspg conf]# chown -R tomcat. /usr/local/tomcat/apache-tomcat-8.0.24/
```

```

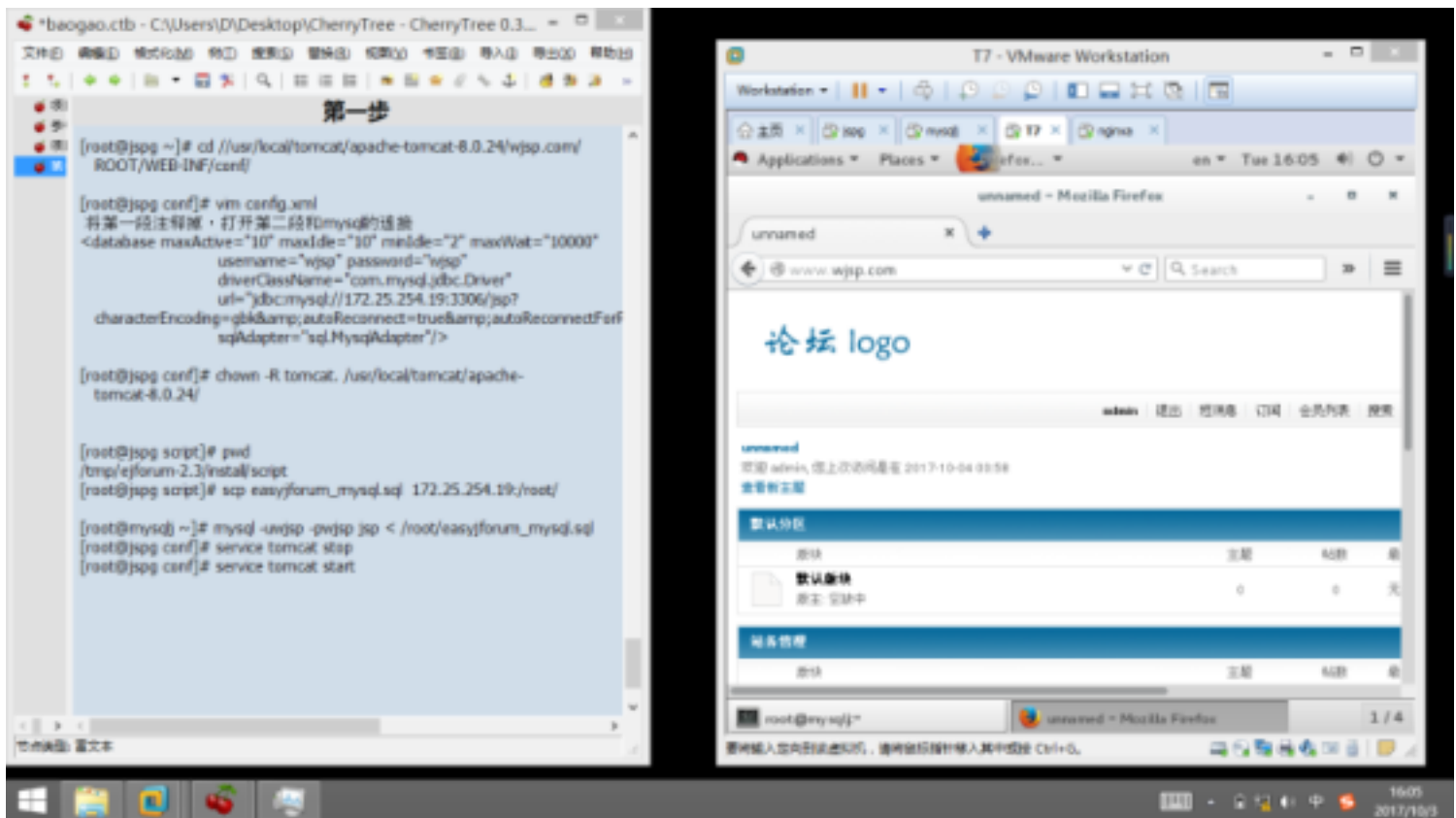
[root@jspg script]# pwd
/tmp/ejforum-2.3/install/script
[root@jspg script]# scp easyjforum_mysql.sql 172.25.254.19:/root/

```

```

[root@mysqlj ~]# mysql -uwjsp -pwjsp jsp < /root/easyjforum_mysql.sql
[root@jspg conf]# service tomcat stop
[root@jspg conf]# service tomcat start

```



nginx 172.25.254.11 代理jspg访问 www.wjsp.com

```
[root@nginx ~]# rpm -ivh nginx-1.8.1-1.el7ngx.x86_64.rpm
```

```
[root@nginx ~]# vim /etc/nginx/nginx.conf
```

```
[root@nginx ~]# vim /etc/nginx/conf.d/default.conf
```

```

upstream wjsp_pools {
    server 172.25.254.16;
}

```

```
[root@nginx ~]# vim /etc/nginx/conf.d/default.conf
```

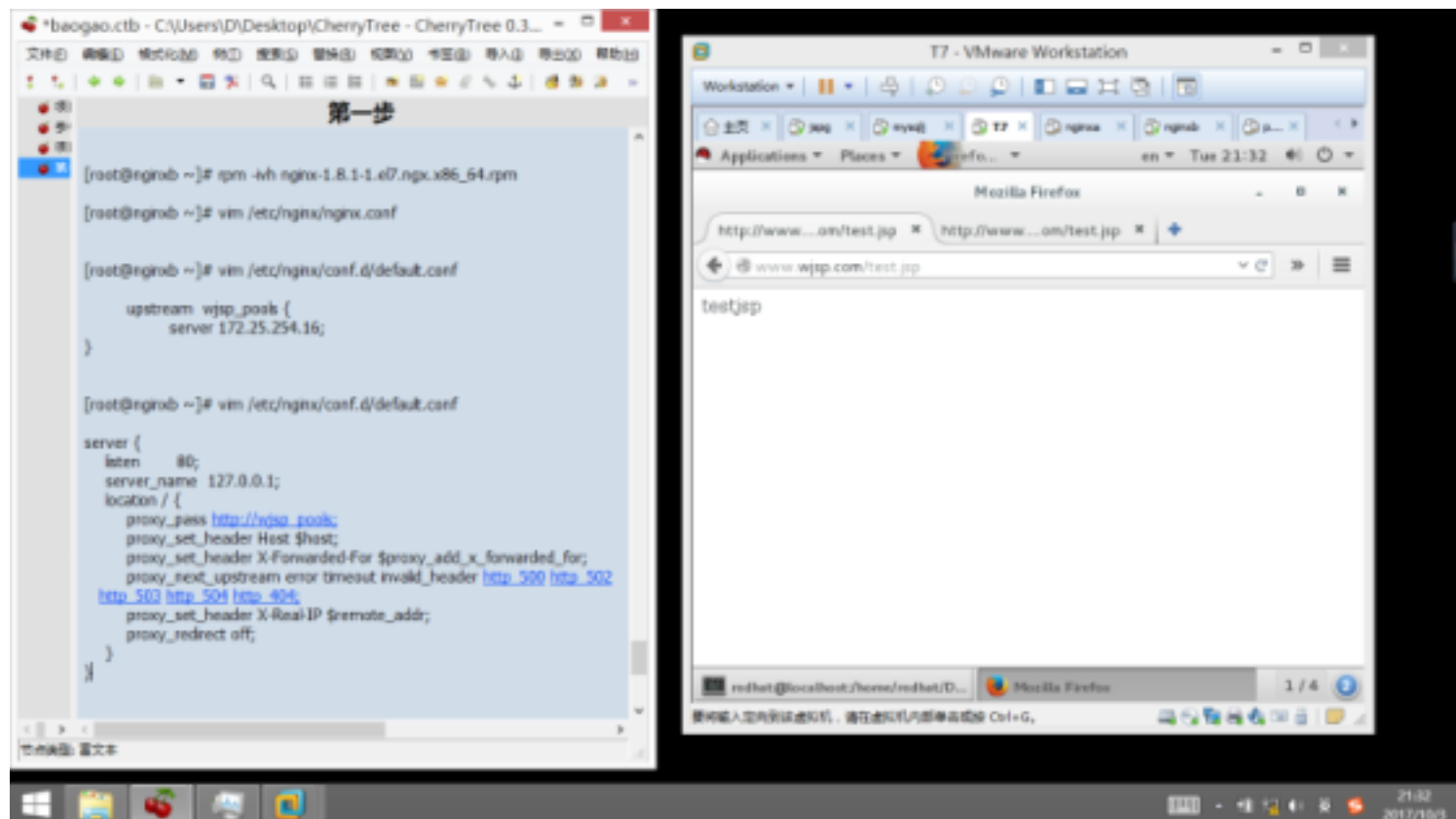
```
server {
```

```

listen      80;
server_name 127.0.0.1;
location / {
    proxy_pass http://wjsp_pools;
    proxy_set_header Host $host;
    proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
    proxy_next_upstream error timeout invalid_header http_500 http_502 http_503 http_504 http_404;
    proxy_set_header X-Real-IP $remote_addr;
    proxy_redirect off;
}
}

```

```
[root@localhost pkg1]# echo "172.25.254.11 www.wjsp.com" >> /etc/hosts
```



nginxb 轮询 jspg 和 jsph 访问 www.wjsp.com

jsph 172.25.254.17

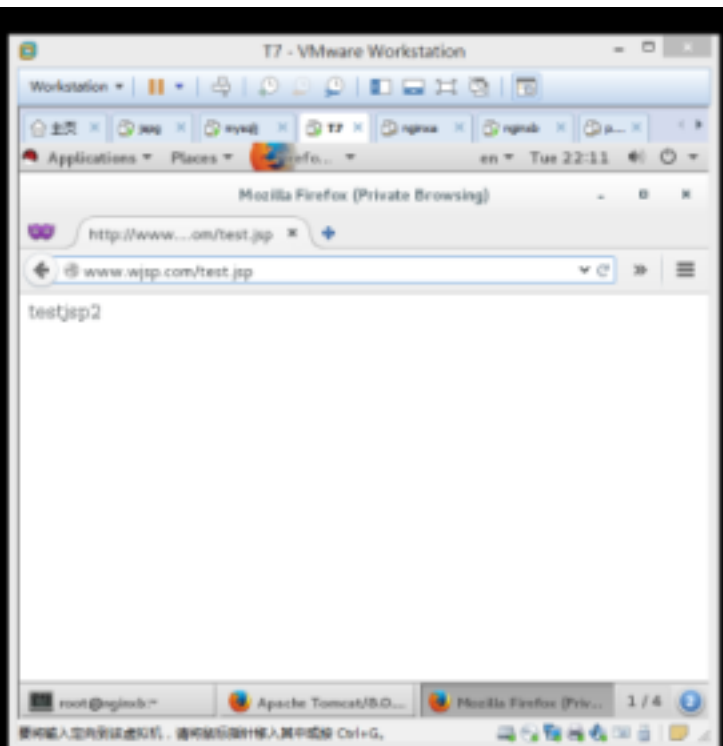
将 jspg 数据同步到 jsph

```

[root@jspg bin]# scp /etc/init.d/tomcat 172.25.254.17:/etc/init.d/tomcat
[root@jspg bin]# scp -r /opt/java 172.25.254.17:/opt
[root@jspg ~]# scp -r /usr/local/tomcat/ 172.25.254.17:/usr/local/
[root@jsph bin]# chmod +x /etc/init.d/tomcat
[root@jsph ~]# groupadd -g 888 tomcat
[root@jsph ~]# useradd -g 888 -u 888 tomcat -s /sbin/nologin

```

```
[root@jsph bin]# chown tomcat.tomcat -R /usr/local/tomcat/apache-tomcat-8.0.24/
```

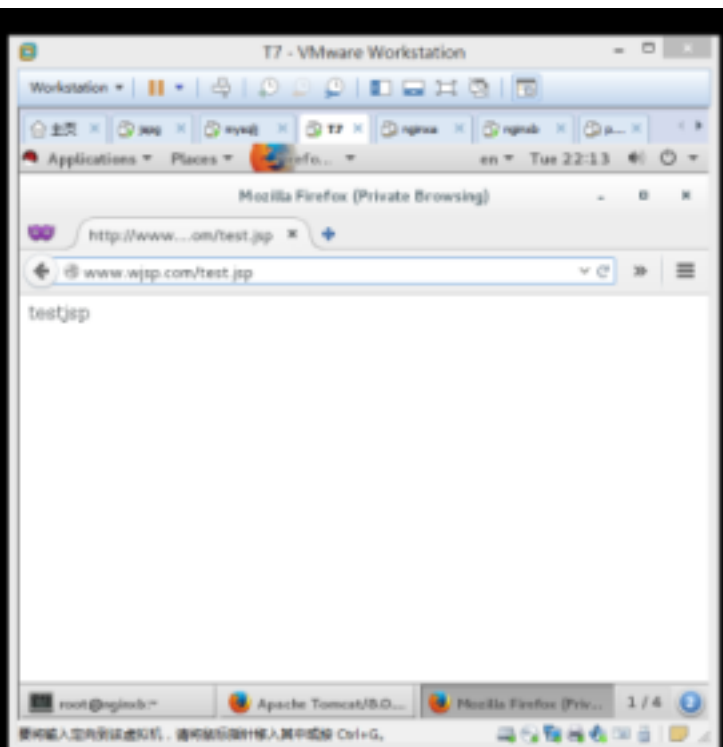
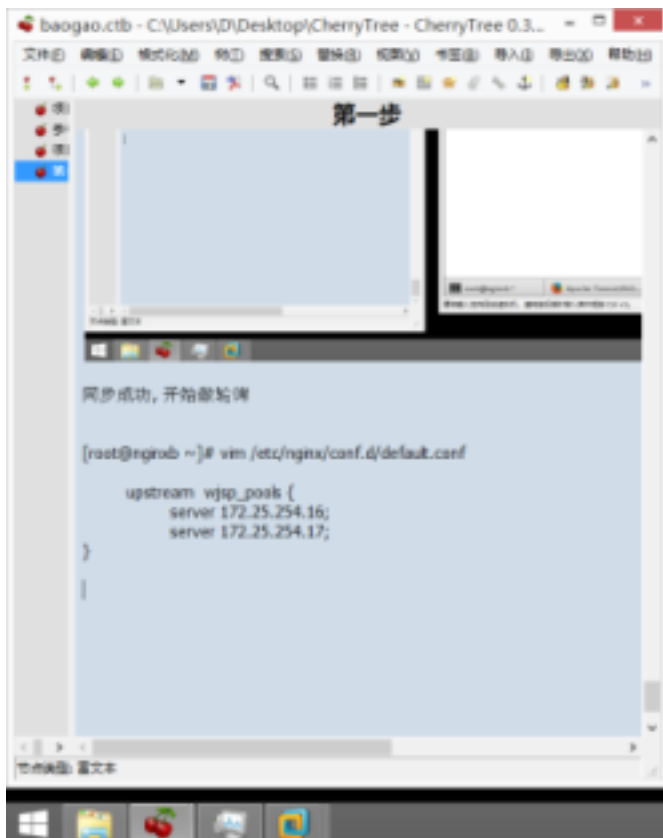


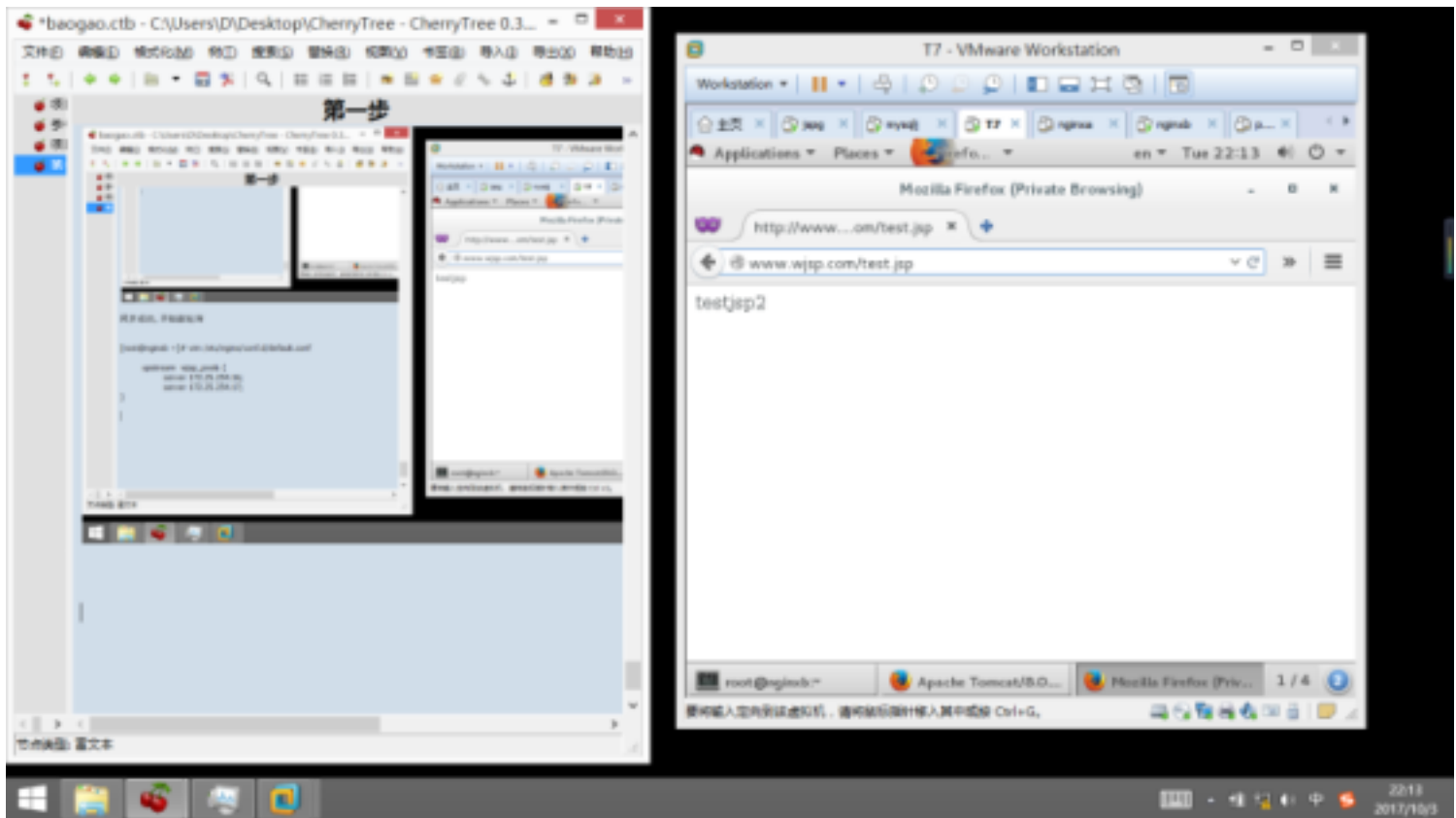
同步成功, 开始做轮询

```
[root@nginxb ~]# vim /etc/nginx/conf.d/default.conf
```

```

upstream wjsp_pools {
    server 172.25.254.16;
    server 172.25.254.17;
}
  
```





第三步：rsync+sersync：172.25.254.18 同步php数据

rsynci：172.25.254.18

```
[root@phpe ~]# yum -y install rsync
```

```
[root@phpe ~]# cat /etc/rsyncd.conf
```

```
uid=nginx
gid=nginx
use chroot=no
address=172.25.254.14
port 873
log file=/var/log/rsyncd.log
pid file=/var/run/rsyncd.pid
host allow=172.25.254.0/24
```

```
[wphp]
```

```
path=/usr/share/nginx/wphp.com
comment= web wphp share with rsync
read only=no
dont compress=*.gz *.bz2 *.tgz *.rar *.zip
auth users=root
secrets file=/etc/rsyncd_user.pass
```

```
[root@phpe ~]# cat /etc/rsyncd_user.pass
```

```
root:admin
```

```
[root@phpe ~]# chmod 600 /etc/rsyncd_user.pass
```

```
[root@phpe ~]# rsync --daemon
```

```
[root@phpe ~]# netstat -tlnl |grep 873
```

```
tcp      0      0 0.0.0.0:873          0.0.0.0:*           LISTEN    2803/rsync
tcp6     0      0 :::873              :::*                  LISTEN    2803/rsync
```

```
[root@phpf ~]# yum -y install rsync
```

```
[root@phpf ~]# cat /etc/rsyncd.conf
uid=nginx
gid=nginx
use chroot=no
address=172.25.254.15
port 873
log file=/var/log/rsyncd.log
pid file=/var/run/rsyncd.pid
host allow=172.25.254.0/24
```

```
[wphp]
path=/usr/share/nginx/wphp.com
comment= web wphp share with rsync
read only=no
dont compress=*.gz *.bz2 *.tgz *.rar *.zip
auth users=root
secrets file=/etc/rsyncd_user.pass
```

```
[root@phpf ~]# cat /etc/rsyncd_user.pass
root:admin
```

```
[root@phpf ~]# chmod 600 /etc/rsyncd_user.pass
```

```
[root@phpf ~]# rsync --daemon
```

```
[root@phpf ~]# netstat -tlnl |grep 873
tcp      0      0 0.0.0.0:873          0.0.0.0:*            LISTEN   2803/rsync
tcp6     0      0 :::873              :::*                  LISTEN   2803/rsync
```

```
[root@rsynci ~]# yum -y install rsync
[root@rsynci ~]# rsync -v 172.25.254.14::
wphp      www.wphp.com html page
```

```
[root@rsynci ~]# rsync -v 172.25.254.15::
wphp      www.wphp.com html page
```

```
[root@rsynci ~]# touch test001
```

测试：

```
[root@rsynci ~]# touch test123
[root@rsynci ~]# rsync -avz /root/test001 root@172.25.254.14::wphp
Password:
sending incremental file list
test001
```

```
sent 64 bytes received 27 bytes 36.40 bytes/sec
total size is 0 speedup is 0.00
```

```
[root@rsynci ~]# ls
anaconda-ks.cfg      test001
sersync2.5.4_64bit_binary_stable_final.tar.gz
```

```
[root@rsynci ~]# tar -xf sersync2.5.4_64bit_binary_stable_final.tar.gz -C /opt/
[root@rsynci ~]# cd /opt/
[root@rsynci opt]# ls
GNU-Linux-x86
```

```
[root@rsynci opt]# mv GNU-Linux-x86/ sersync
```

```
[root@rsynci ~]# cat /opt/sersync/confxml.xml
```

```
<sersync>
  <localpath watch="/root/wphp">
    <remote ip="172.25.254.14" name="wphp"/>
    <remote ip="172.25.254.15" name="wphp"/>
  </localpath>
  <rsync>
    <commonParams params="-artuz"/>
    <auth start="true" users="root" passwordfile="/etc/rsync.pas"/>
    <userDefinedPort start="false" port="874"/><!-- port=874 -->
    <timeout start="false" time="100"/><!-- timeout=100 -->
    <ssh start="false"/>
  </rsync>
</sersync>
```

```
[root@rsynci ~]# mkdir wphp
```

```
[root@phpe ~]# scp -r /usr/share/nginx/wphp.com/* 172.25.254.18:/root/wphp
```

```
[root@phpe wphp.com]# ll |grep test111
-rw-r--r--. 1 nginx nginx  0 Oct  9 07:12 test111
```

```
[root@rsynci wphp]# ./sersync2 -d -r -n 12 -o ./confxml.xml
```

```
[root@rsynci ~]# cd wphp/
```

```
[root@rsynci wphp]# touch test111
```

```
[root@phpf wphp.com]# ll |grep test111
-rw-r--r--. 1 nginx nginx  0 Oct  9 07:12 test111
```

第四步：rsync+sersync：172.25.254.18 同步jsp数据

rsynci：172.25.254.18

```
[root@rsynci opt]# cp sersync/ sersync2/ -r
```

```
[root@jspf ~]# yum -y install rsync
```

```
[root@jspf ~]# cat /etc/rsyncd.conf
```

```
uid=tomcat
gid=tomcat
use chroot=no
address=172.25.254.16
port 873
log file=/var/log/rsyncd.log
pid file=/var/run/rsyncd.pid
host allow=172.25.254.0/24
```

```
[wjsp]
```

```
path=/usr/local/tomcat/apache-tomcat-8.0.24/wjsp.com/
comment= web wjsp share with rsync
read only=no
dont compress=*.gz *.bz2 *.tgz *.rar *.zip
auth users=root
secrets file=/etc/rsyncd_user.pass
```

```
[root@jspf ~]# cat /etc/rsyncd_user.pass
root:admin
[root@jspf ~]# chmod 600 /etc/rsyncd_user.pass
[root@jspf ~]# rsync --daemon
```

```
[root@jspf ~]# netstat -tlnl |grep 873
tcp      0      0 0.0.0.0:873          0.0.0.0:*            LISTEN    2803/rsync
tcp6     0      0 :::873              :::*                  LISTEN    2803/rsync
```

```
[root@jsph ~]# yum -y install rsync
```

```
[root@jsph~]# cat /etc/rsyncd.conf
uid=tomcat
gid=tomcat
use chroot=no
address=172.25.254.17
port 873
log file=/var/log/rsyncd.log
pid file=/var/run/rsyncd.pid
host allow=172.25.254.0/24
```

```
[wjsp1]
path=/usr/local/tomcat/apache-tomcat-8.0.24/wjsp.com/
comment= web wjsp share with rsync
read only=no
dont compress=*.gz *.bz2 *.tgz *.rar *.zip
auth users=root
secrets file=/etc/rsyncd_user.pass
```

```
[root@jspf ~]# cat /etc/rsyncd_user.pass
root:admin
```

```
[root@jspf ~]# chmod 600 /etc/rsyncd_user.pass
```

```
[root@jspf ~]# rsync --daemon
```

```
[root@jspf ~]# netstat -tlnl |grep 873
tcp      0      0 0.0.0.0:873          0.0.0.0:*            LISTEN    2803/rsync
tcp6     0      0 :::873              :::*                  LISTEN    2803/rsync
```

```
[root@rsynci ~]# rsync -v 172.25.254.16::
wjsp      www.wjsp.com html page
```

```
[root@rsynci ~]# rsync -v 172.25.254.15::
wjsp      www.wjsp.com html page
```

```
[root@rsynci ~]# touch test001
```

测试：

```
[root@rsynci ~]# touch test123
[root@rsynci ~]# rsync -avz /root/test001 root@172.25.254.16::wjsp
Password:
sending incremental file list
test001
```

sent 64 bytes received 27 bytes 36.40 bytes/sec  
total size is 0 speedup is 0.00

```
[root@rsynci ~]# ls
anaconda-ks.cfg          test001
sersync2.5.4_64bit_binary_stable_final.tar.gz
```

```
[root@rsynci ~]# cat /opt/sersync2/confxml.xml
```

```
<sersync>
  <localpath watch="/root/wjsp">
    <remote ip="172.25.254.14" name="wphp"/>
    <remote ip="172.25.254.15" name="wphp1"/>
    <remote ip="172.25.254.16" name="wjsp"/>
    <remote ip="172.25.254.17" name="wjsp1"/>
  </localpath>
  <rsync>
    <commonParams params="-artuz"/>
    <auth start="true" users="root" passwordfile="/etc/rsync.pas"/>
    <userDefinedPort start="false" port="874"/><!-- port=874 -->
    <timeout start="false" time="100"/><!-- timeout=100 -->
    <ssh start="false"/>
  </rsync>
```

```
[root@rsynci ~]# mkdir wjsp
```

```
[root@phpf ~]# scp -r /usr/local/tomcat/apache-tomcat-8.0.24/wjsp.com/* 172.25.254.18:/root/wjsp
```

```
[root@rsynci wjsp]# ./sersync2 -d -r -n 12 -o ./confxml.xml
```

```
[root@rsynci ~]# cd wjsp/
```

```
[root@rsynci wjsp]# touch test111
```

```
[root@jsph wphp.com]# ll |grep test111
-rw-r--r--. 1 nginx nginx 0 Oct 9 07:12 test111
```

### 第五步：配置静态缓存

squidc : 172.25.254.12

squidd : 172.25.254.13

```
[root@squidc ~]# yum -y install squid
```

```
[root@squidc ~]# vim /etc/squid/squid.conf
```

56 http\_access allow all

57

58 # Squid normally listens to port 3128

59 http\_port 3128 accel vhost vport

75 cache\_dir ufs /var/spool/squid 256 16 256

76 cache\_peer 172.25.254.14 parent 80 0 no-query originserver na me=web1

77 cache\_peer 172.25.254.15 parent 80 0 no-query originserver na me=web2

78 cache\_peer 172.25.254.16 parent 80 0 no-query originserver na me=web3

79 cache\_peer 172.25.254.17 parent 80 0 no-query originserver na me=web4

80 cache\_peer\_domain web1 www.wphp.com

81 cache\_peer\_domain web2 www.wphp.com

82 cache\_peer\_domain web1 172.25.254.14



```
83 cache_peer_domain web2 172.25.254.15
84 cache_peer_domain web3 www.wjsp.com
85 cache_peer_domain web4 www.wjsp.com
86 cache_peer_domain web3 172.25.254.16
87 cache_peer_domain web4 172.25.254.17
```

```
[root@squidc ~]# systemctl start squid
[root@squidc ~]# netstat -tpnl |grep 3128
tcp6      0      0 :::3128          :::*              LISTEN     3240/(squid-1)
```

```
[root@localhost peizhiwenjian]# cat /etc/hosts
127.0.0.1 localhost localhost.localdomain localhost4 localhost4.localdomain4
::1      localhost localhost.localdomain localhost6 localhost6.localdomain6
172.25.254.12 www.wphp.com
172.25.254.12 www.wjsp.com
```

```
[root@localhost peizhiwenjian]# curl -I http://www.wphp.com:3128/static/image/common/logo.png
HTTP/1.1 200 OK
Server: nginx/1.8.1
Date: Mon, 09 Oct 2017 00:09:29 GMT
Content-Type: image/png
Content-Length: 4425
Last-Modified: Sun, 08 Oct 2017 23:06:30 GMT
ETag: "59daaf76-1149"
Accept-Ranges: bytes
X-Cache: MISS from localhost
X-Cache-Lookup: MISS from localhost:3128
Via: 1.1 localhost (squid/3.3.8)
Connection: keep-alive
```

```
[root@localhost peizhiwenjian]# curl -I http://www.wphp.com:3128/static/image/common/logo.png
HTTP/1.1 200 OK
Server: nginx/1.8.1
Date: Mon, 09 Oct 2017 00:09:29 GMT
Content-Type: image/png
Content-Length: 4425
Last-Modified: Sun, 08 Oct 2017 23:06:30 GMT
ETag: "59daaf76-1149"
Accept-Ranges: bytes
Age: 4
X-Cache: HIT from localhost
X-Cache-Lookup: HIT from localhost:3128
Via: 1.1 localhost (squid/3.3.8)
Connection: keep-alive
```

```
[root@localhost peizhiwenjian]# curl -I http://www.wjsp.com:3128/images/answer.gif
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Accept-Ranges: bytes
ETag: W/"864-1507048207000"
Last-Modified: Tue, 03 Oct 2017 16:30:07 GMT
Content-Type: image/gif
Content-Length: 864
Date: Mon, 09 Oct 2017 00:23:24 GMT
X-Cache: MISS from localhost
X-Cache-Lookup: MISS from localhost:3128
Via: 1.1 localhost (squid/3.3.8)
Connection: keep-alive
```

```
[root@localhost peizhiwenjian]# curl -I http://www.wjsp.com:3128/images/answer.gif
```

```
HTTP/1.1 200 OK
Server: Apache-Coyote/1.1
Accept-Ranges: bytes
ETag: W/"864-1507048207000"
Last-Modified: Tue, 03 Oct 2017 16:30:07 GMT
Content-Type: image/gif
Content-Length: 864
Date: Mon, 09 Oct 2017 00:23:24 GMT
Age: 23
X-Cache: HIT from localhost
X-Cache-Lookup: HIT from localhost:3128
Via: 1.1 localhost (squid/3.3.8)
Connection: keep-alive
```

## 配置squidd

```
[root@squidd ~]# yum -y install squid
```

```
[root@squidd ~]# vim /etc/squid/squid.conf
```

```
56 http_access allow all
57
58 # Squid normally listens to port 3128
59 http_port 3128 accel vhost vport
75 cache_dir ufs /var/spool/squid 256 16 256
76 cache_peer 172.25.254.14 parent 80 0 no-query originserver na me=web1
77 cache_peer 172.25.254.15 parent 80 0 no-query originserver na me=web2
78 cache_peer 172.25.254.16 parent 80 0 no-query originserver na me=web3
79 cache_peer 172.25.254.17 parent 80 0 no-query originserver na me=web4
80 cache_peer_domain web1 www.wphp.com
81 cache_peer_domain web2 www.wphp.com
82 cache_peer_domain web1 172.25.254.14
83 cache_peer_domain web2 172.25.254.15
84 cache_peer_domain web3 www.wjsp.com
85 cache_peer_domain web4 www.wjsp.com
86 cache_peer_domain web3 172.25.254.16
87 cache_peer_domain web4 172.25.254.17
```

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

```
[root@squidd ~]# netstat -tlnl |grep 3128
```

```
tcp6      0      0 :::3128          :::*              LISTEN     3240/(squid-1)
```

## 第六步：php/jsp/squid 轮询

```
[root@nginx ~]# vim /etc/nginx/conf.d/default.conf
```

```
server {
    listen      80;
    server_name 127.0.0.1;
    location / {
        proxy_pass http://jingtai_pools;
        proxy_set_header Host $host;
        proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
        proxy_next_upstream error timeout invalid_header http_500 http_502 http_503 http_504 http_404;
        proxy_set_header X-Real-IP $remote_addr;
        proxy_redirect off;
    }
}
```

```

location ~ .*\.php$ {
    proxy_pass http://wphp_pools;
    proxy_set_header Host $host;
    proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
    proxy_next_upstream error timeout invalid_header http_500 http_502 http_503 http_504 http_404;
    proxy_set_header X-Real-IP $remote_addr;
    proxy_redirect off;
}

```

```

location ~ .*\.jsp$ {
    proxy_pass http://wjsp_pools;
    proxy_set_header Host $host;
    proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
    proxy_next_upstream error timeout invalid_header http_500 http_502 http_503 http_504 http_404;
    proxy_set_header X-Real-IP $remote_addr;
    proxy_redirect off;
}

```

```

}

```

```

[root@nginxa ~]# vim /etc/nginx/nginx.conf

```

```

#gzip on;
    upstream wphp_pools {
        server 172.25.254.14;
        server 172.25.254.15;
    }

    upstream jingtai_pools {
        server 172.25.254.12:3128;
        server 172.25.254.13:3128;
    }

    upstream wjsp_pools {
        server 172.25.254.16;
        server 172.25.254.17;
    }

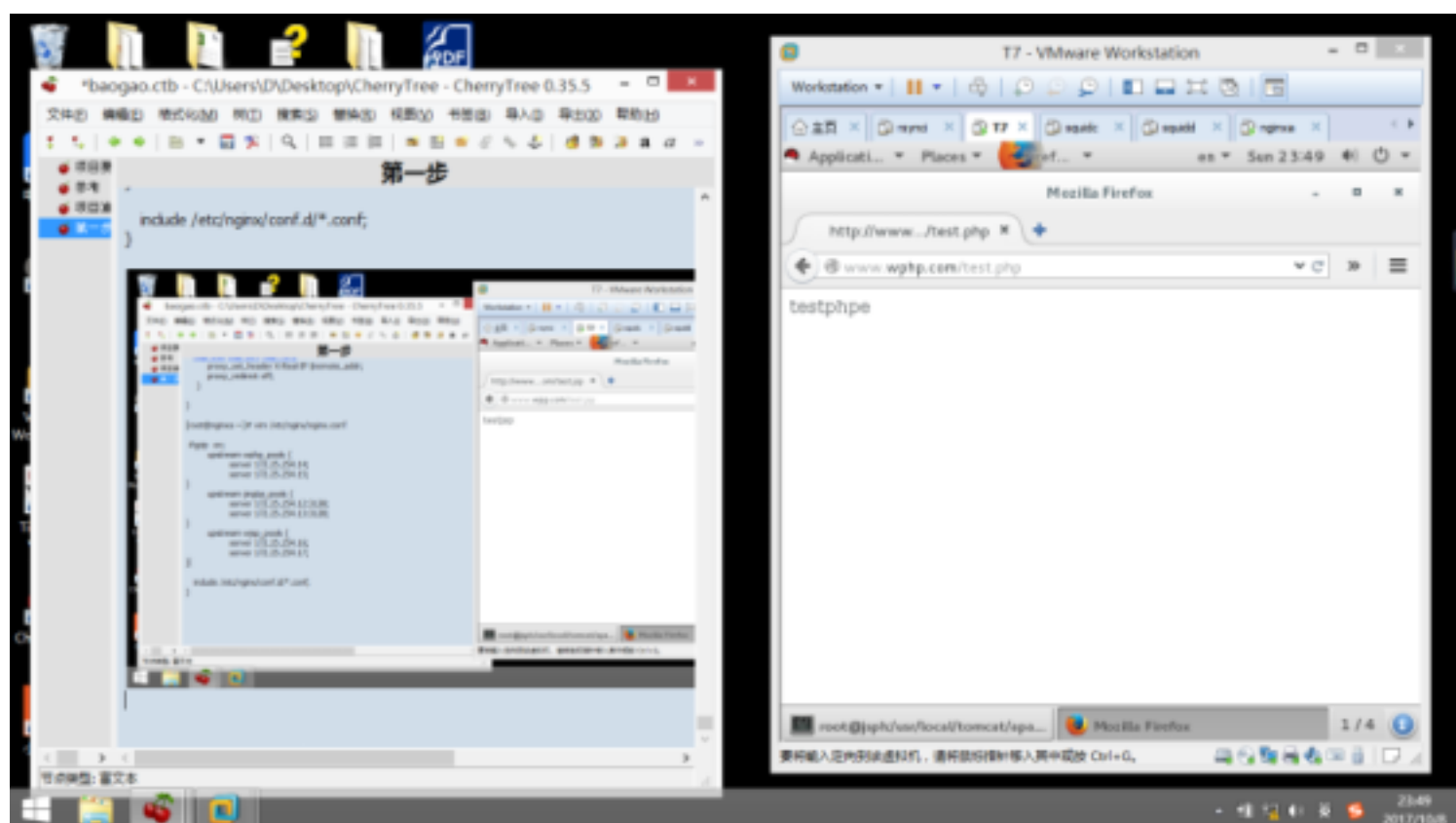
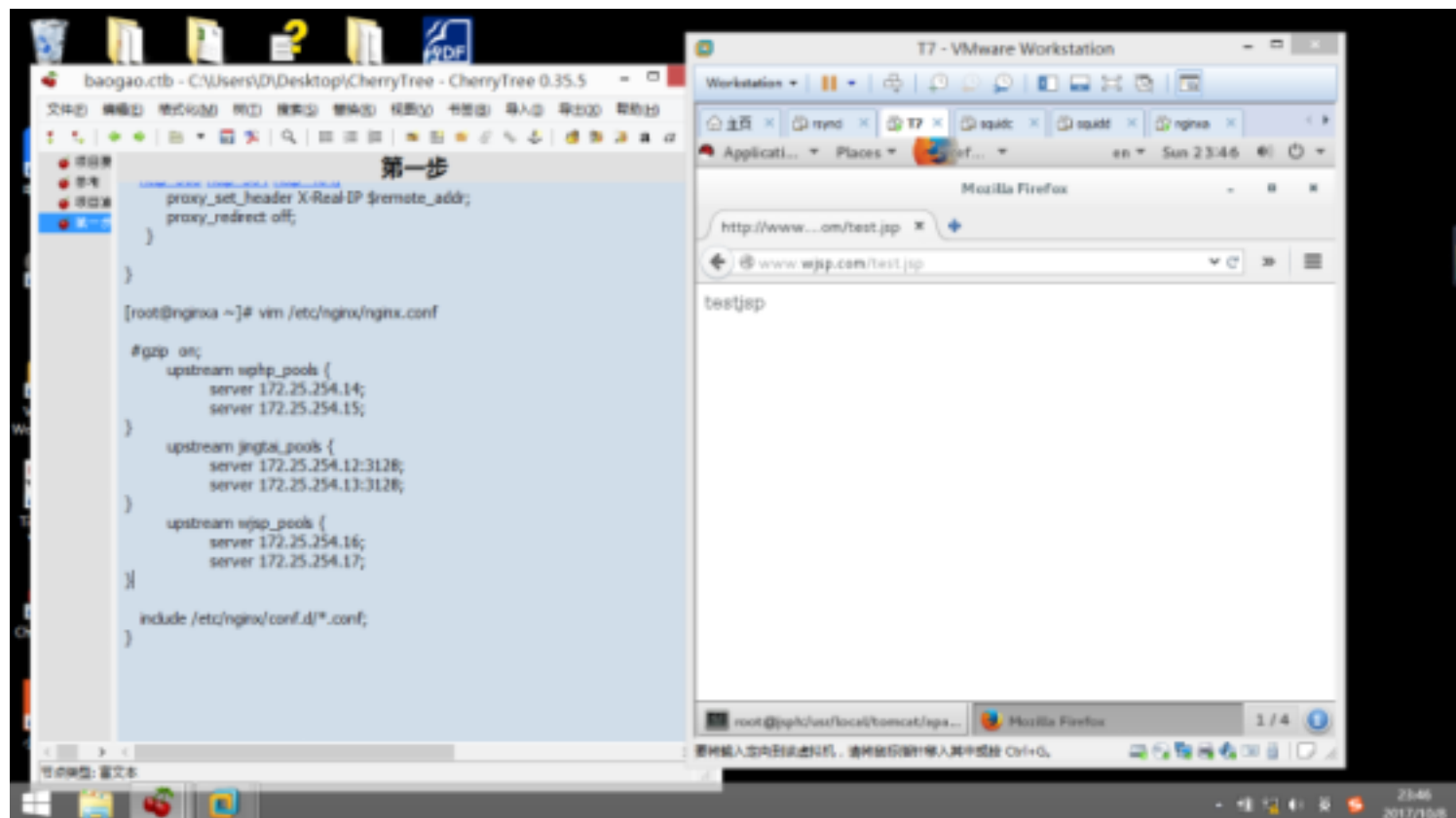
    include /etc/nginx/conf.d/*.conf;
}

```

```

[root@localhost b]# cat /etc/hosts
127.0.0.1    localhost localhost.localdomain localhost4 localhost4.localdomain4
::1         localhost localhost.localdomain localhost6 localhost6.localdomain6
172.25.254.10 www.wphp.com
172.25.254.10 www.wjsp.com

```



## 配置nginxb

```
[root@nginxa ~]# scp /etc/nginx/conf.d/default.conf 172.25.254.11:/etc/nginx/conf.d/default.conf
[root@nginxa ~]# scp /etc/nginx/nginx.conf 172.25.254.11:/etc/nginx/nginx.conf
```

```
[root@nginxb ~]# systemctl restart nginx
```

## 第七步：DNS解析

dns : localhost : 172.25.254.249

```
[root@localhost ~]# yum -y install bind
[root@localhost ~]# vim /etc/named.conf
11     listen-on port 53 { 127.0.0.1; any; };
17     allow-query    { localhost; any; };

29     recursion yes;
30
31     dnssec-enable no;
32     dnssec-validation no;
```

```
[root@localhost named]# vim /etc/named.rfc1912.zones
zone "wphp.com" IN {
    type master;
    file "wphp.com.zone";
    allow-update { none; };
};
zone "wjsp.com" IN {
    type master;
    file "wjsp.com.zone";
    allow-update { none; };
};
```

```
[root@localhost ~]# cd /var/named/
```

```
[root@localhost named]# cp -a named.localhost wphp.com.zone
[root@localhost named]# cp -a named.localhost wjsp.com.zone
```

```
[root@localhost named]# cat wphp.com.zone
$TTL 1D
@ IN SOA ns1.wphp.com. rname.invalid. (
                                10 ; serial
                                1D ; refresh
                                1H ; retry
                                1W ; expire
                                3H ) ; minimum
@ NS ns1.wphp.com.
ns1 A 172.25.254.249
www A 172.25.254.14
www A 172.25.254.15
```

```
[root@localhost named]# cat wjsp.com.zone
$TTL 1D
@ IN SOA ns1.wjsp.com. rname.invalid. (
                                10 ; serial
                                1D ; refresh
                                1H ; retry
                                1W ; expire
                                3H ) ; minimum
@ NS ns1.wjsp.com.
ns1 A 172.25.254.249
www A 172.25.254.16
www A 172.25.254.17
```

```
[root@localhost named]# named-checkconf /etc/named.conf
[root@localhost named]# named-checkzone wphp.com /var/named/wphp.com.zone
zone wphp.com/IN: loaded serial 10
OK
[root@localhost named]# named-checkzone wjsp.com /var/named/wjsp.com.zone
```

```
zone wjsp.com/IN: loaded serial 10
OK
```

```
[root@localhost named]# vim /etc/resolv.conf
nameserver 172.25.254.249
```

```
[root@localhost named]# service named start
```

```
[root@localhost named]# netstat -tlnl |grep 53
tcp        0      0 172.25.254.249:53      0.0.0.0:*           LISTEN      11860/named
tcp        0      0 127.0.0.1:53           0.0.0.0:*           LISTEN      11860/named
tcp        0      0 192.168.122.1:53       0.0.0.0:*           LISTEN      2923/dnsmasq
tcp        0      0 127.0.0.1:953          0.0.0.0:*           LISTEN      11860/named
tcp6       0      0 :::1:53                :::*                LISTEN      11860/named
tcp6       0      0 :::1:953                :::*                LISTEN      11860/named
```

```
[root@localhost named]# cat /etc/hosts
127.0.0.1    localhost localhost.localdomain localhost4 localhost4.localdomain4
::1         localhost localhost.localdomain localhost6 localhost6.localdomain6
```

```
[root@localhost named]# ping www.wjsp.com
PING www.wjsp.com (172.25.254.16) 56(84) bytes of data.
64 bytes from 172.25.254.16: icmp_seq=1 ttl=64 time=0.530 ms
64 bytes from 172.25.254.16: icmp_seq=2 ttl=64 time=0.500 ms
```

```
[root@localhost named]# ping www.wjsp.com
PING www.wjsp.com (172.25.254.17) 56(84) bytes of data.
64 bytes from 172.25.254.16: icmp_seq=1 ttl=64 time=0.530 ms
64 bytes from 172.25.254.16: icmp_seq=2 ttl=64 time=0.500 ms
```

```
[root@localhost named]# ping www.wphp.com
PING www.wphp.com (172.25.254.14) 56(84) bytes of data.
64 bytes from 172.25.254.14: icmp_seq=1 ttl=64 time=0.312 ms
64 bytes from 172.25.254.14: icmp_seq=2 ttl=64 time=0.693 ms
```

```
[root@localhost named]# ping www.wphp.com
PING www.wphp.com (172.25.254.15) 56(84) bytes of data.
64 bytes from 172.25.254.14: icmp_seq=1 ttl=64 time=0.308 ms
64 bytes from 172.25.254.14: icmp_seq=2 ttl=64 time=0.531 ms
```

## 第八步：memcache

```
memcache : 172.25.254.20
```

```
[root@jspg ~]# ls
anaconda-ks.cfg          jdk-7u15-linux-x64.tar.gz
apache-tomcat-8.0.24.tar.gz msm
ejforum-2.3.zip          mysql-connector-java-5.1.36.tar.gz
[root@jspg ~]# ls msm/
asm-3.2.jar              minlog-1.2.jar
kryo-1.04.jar            msm-kryo-serializer-1.8.1.jar
kryo-serializers-0.11.jar reflectasm-1.01.jar
memcached-session-manager-1.8.1.jar spymemcached-2.11.1.jar
memcached-session-manager-tc8-1.8.1.jar
```

```
[root@jspg ~]# cp -r msm/* /usr/local/tomcat/apache-tomcat-8.0.24/lib/
[root@jspg ~]# cp -r msm/* /usr/local/tomcat/apache-tomcat-8.0.24/lib/
```

```
[root@jspg ~]# vim /usr/local/tomcat/apache-tomcat-8.0.24/conf/context.xml
(在此文件的<Context>和</Context>里面加上下面一段)
<?xml version='1.0' encoding='utf-8'?>
<Context>
    <WatchedResource>WEB-INF/web.xml</WatchedResource>
    <WatchedResource>${catalina.base}/conf/web.xml</WatchedResource>
<Manager className="de.javakaffee.web.msm.MemcachedBackupSessionManager"
memcachedNodes="n1:172.25.254.20:11211"
lockingMode="auto"
sticky="false"
requestUriIgnorePattern= ".*\.(png|gif|jpg|css|js)$"
sessionBackupAsync= "false"
sessionBackupTimeout= "100"
copyCollectionsForSerialization="true"
transcoderFactoryClass="de.javakaffee.web.msm.serializer.kryo.KryoTranscoderFactory" />
</Context>
```

```
[root@jsph ~]# vim /usr/local/tomcat/apache-tomcat-8.0.24/conf/context.xml
(在此文件的<Context>和</Context>里面加上下面一段)
<?xml version='1.0' encoding='utf-8'?>
<Context>
    <WatchedResource>WEB-INF/web.xml</WatchedResource>
    <WatchedResource>${catalina.base}/conf/web.xml</WatchedResource>
<Manager className="de.javakaffee.web.msm.MemcachedBackupSessionManager"
memcachedNodes="n2:172.25.254.20:11211"
lockingMode="auto"
sticky="false"
requestUriIgnorePattern= ".*\.(png|gif|jpg|css|js)$"
sessionBackupAsync= "false"
sessionBackupTimeout= "100"
copyCollectionsForSerialization="true"
transcoderFactoryClass="de.javakaffee.web.msm.serializer.kryo.KryoTranscoderFactory" />
</Context>
```

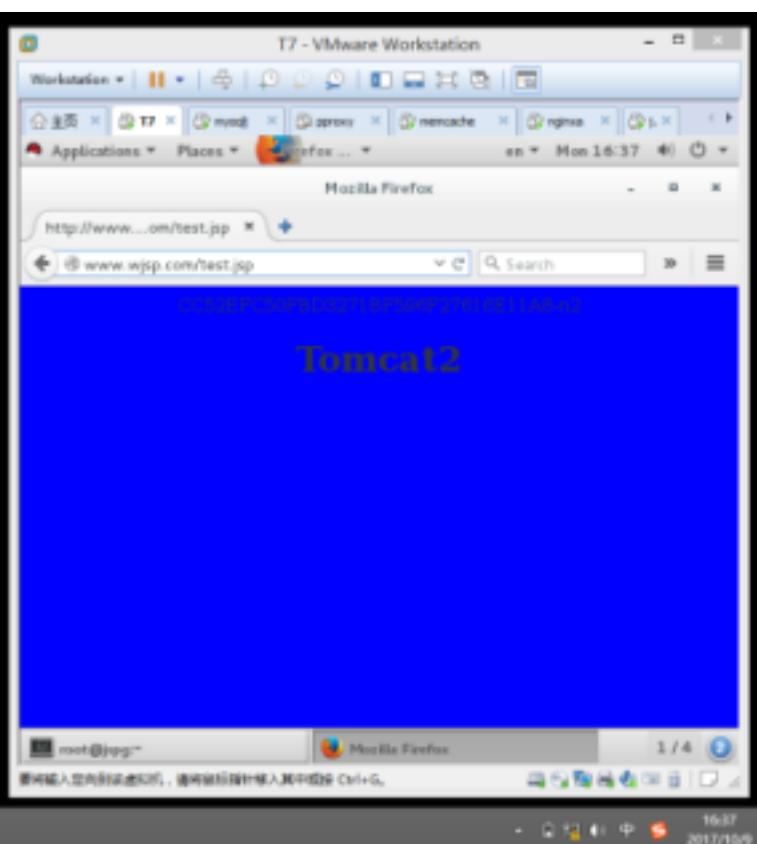
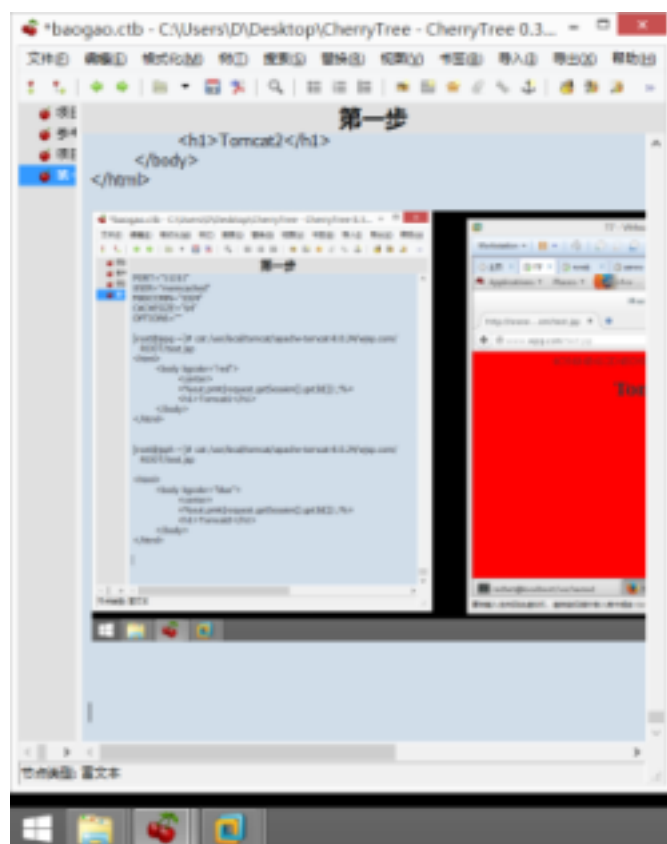
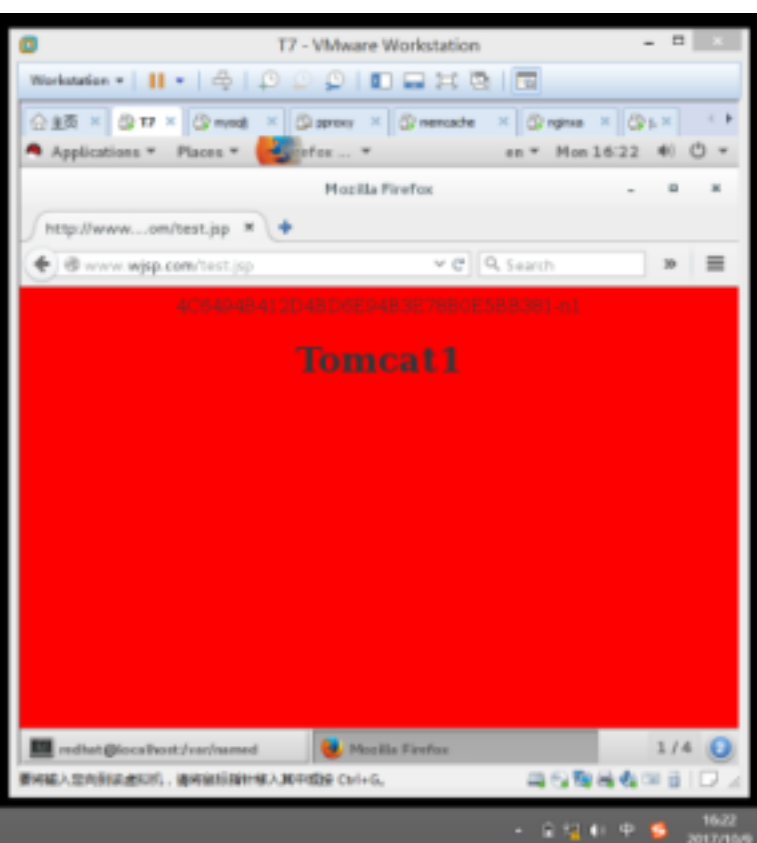
```
[root@memcache ~]# yum -y install memcached
```

```
[root@memcache ~]# cat /etc/sysconfig/memcached
PORT="11211"
USER="memcached"
MAXCONN="1024"
CACHESIZE="64"
OPTIONS=""
```

```
[root@jspg ~]# cat /usr/local/tomcat/apache-tomcat-8.0.24/wjsp.com/ROOT/test.jsp
<html>
    <body bgcolor="red">
        <center>
            <%out.print(request.getSession().getId());%>
            <h1>Tomcat1</h1>
        </body>
</html>
```

```
[root@jsph ~]# cat /usr/local/tomcat/apache-tomcat-8.0.24/wjsp.com/ROOT/test.jsp
<html>
    <body bgcolor="blue">
        <center>
            <%out.print(request.getSession().getId());%>
            <h1>Tomcat2</h1>
```

</body>  
</html>



[root@php: msm]# yum -y install php-pecl-memcache

设置页面代码启动memached功能

[root@php: msm]# vim /usr/share/nginx/wphp.com/config/config\_global.php



```
$_config['memory']['memcache']['server'] = '172.25.254.20';
$_config['memory']['memcache']['port'] = 11211;
$_config['memory']['memcache']['pconnect'] = 1;
$_config['memory']['memcache']['timeout'] = 1;
```

```
[root@phpe msm]# systemctl restart spawn-fcgi
```

```
[root@phpf msm]# yum -y install php-pecl-memcache
```

设置页面代码启动memached功能

```
[root@phpf msm]# vim /usr/share/nginx/wphp.com/config/config_global.php
```

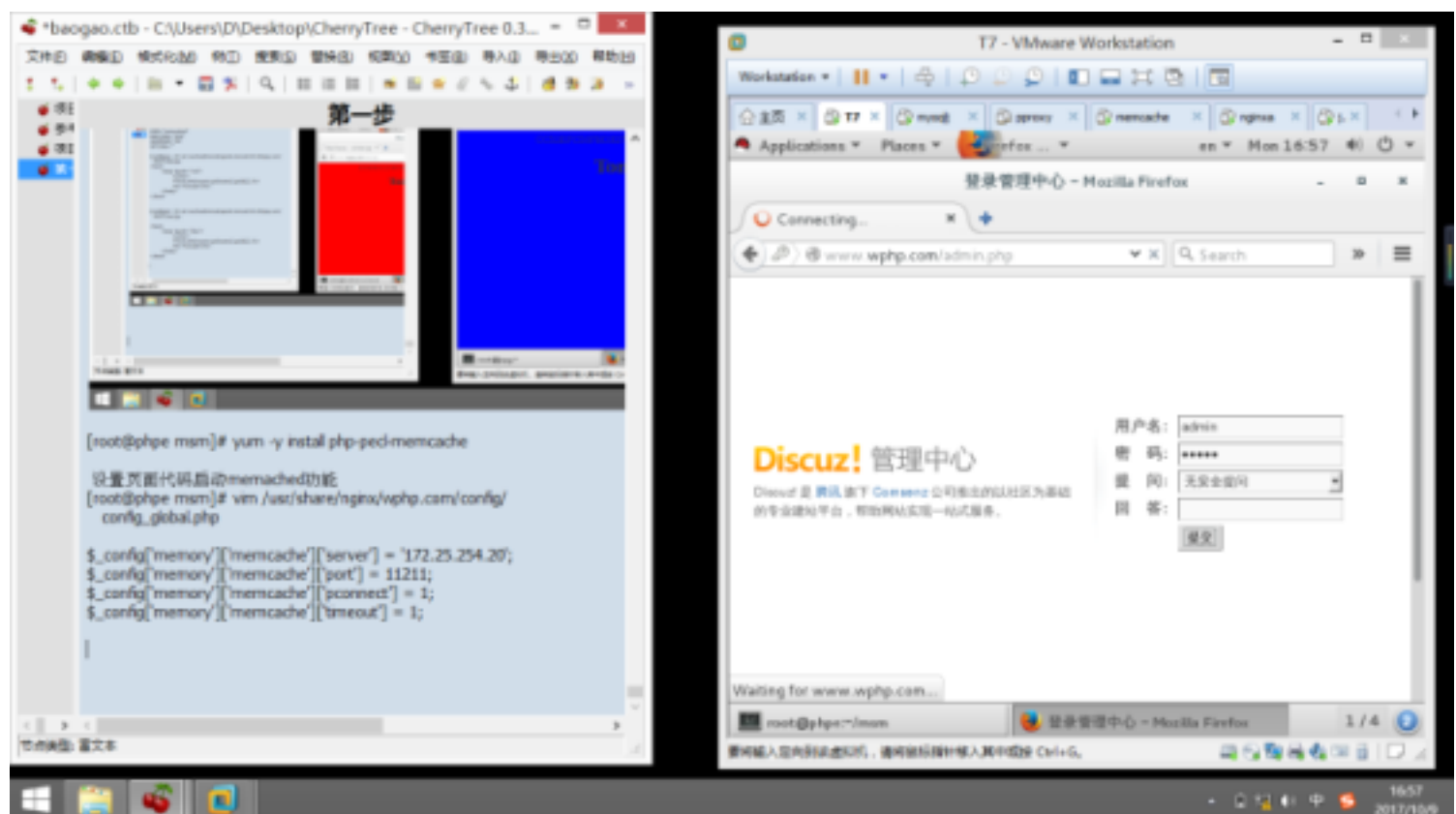
```
$_config['memory']['memcache']['server'] = '172.25.254.20';
$_config['memory']['memcache']['port'] = 11211;
$_config['memory']['memcache']['pconnect'] = 1;
$_config['memory']['memcache']['timeout'] = 1;
```

```
[root@phpf msm]# systemctl restart spawn-fcgi
```

登录网页后台 <http://www.wphp.com/admin.php>

全局---> 性能优化 ---> 内存优化 ---> memcache

支持 打开 内存清理





```
[root@mysqlj mysql]# scp -r php/ 172.25.254.21:/var/lib/mysql/
[root@mysqlj mysql]# scp -r mysql 172.25.254.21:/var/lib/mysql/
```

```
[root@mysqlj mysql]# scp -r jsp/ 172.25.254.21:/var/lib/mysql/
[root@mysql2 mysql]# chown -R mysql. jsp/
[root@mysql2 mysql]# chown -R mysql. php/
[root@mysql2 mysql]# chown -R mysql. mysql/
[root@mysql2 mysql]# systemctl restart mariadb
```

```
mysqlj :
MariaDB [(none)]> grant replication slave on *.* to 'slave'@'%' identified by 'slave';
```

```
[root@mysqlj ~]# vim /etc/my.cnf
```

```
[mysqld]
datadir=/var/lib/mysql
socket=/var/lib/mysql/mysql.sock
port=3306
log-bin=/var/lib/mysql/master-bin.log
server-id=100
```

```
[root@mysql2 ~]# vim /etc/my.cnf
```

```
[mysqld]
datadir=/var/lib/mysql
socket=/var/lib/mysql/mysql.sock
port=3306
relay-log=/var/lib/mysql/slave-relay.log
server-id=200
log-slave-updates=1
```

```
mysql2 :
MariaDB [(none)]> change master to
master_host='172.25.254.19',master_user='slave',master_password='slave',master_port=3306,
master_log_file='master-bin.000014',master_log_pos=118675;
```

```
MariaDB [(none)]> start slave;
```

```
MariaDB [(none)]> show slave status\G;
***** 1. row *****
Slave_IO_State: Waiting for master to send event
Master_Host: 172.25.254.19
Master_User: slave
Master_Port: 3306
Connect_Retry: 60
Master_Log_File: master-bin.000014
Read_Master_Log_Pos: 118675
Relay_Log_File: slave-relay.000002
Relay_Log_Pos: 530
Relay_Master_Log_File: master-bin.000014
Slave_IO_Running: Yes
Slave_SQL_Running: Yes
Replicate_Do_DB:
Replicate_Ignore_DB:
Replicate_Do_Table:
```

```

Replicate_Ignore_Table:
Replicate_Wild_Do_Table:
Replicate_Wild_Ignore_Table:
    Last_Errno: 0
    Last_Error:
    Skip_Counter: 0
Exec_Master_Log_Pos: 118675
Relay_Log_Space: 820
Until_Condition: None
Until_Log_File:
Until_Log_Pos: 0
Master_SSL_Allowed: No
Master_SSL_CA_File:
Master_SSL_CA_Path:
Master_SSL_Cert:
Master_SSL_Cipher:
Master_SSL_Key:
Seconds_Behind_Master: 0
Master_SSL_Verify_Server_Cert: No
    Last_IO_Errno: 0
    Last_IO_Error:
    Last_SQL_Errno: 0
    Last_SQL_Error:
Replicate_Ignore_Server_Ids:
Master_Server_Id: 100

```

```

mysqlj :
MariaDB [(none)]> create database test1;
Query OK, 1 row affected (0.02 sec)

```

```

mysql2 :
MariaDB [(none)]> show databases;
+-----+
| Database          |
+-----+
| information_schema |
| jsp                |
| mysql              |
| performance_schema |
| php                |
| test               |
| test1              |
+-----+
7 rows in set (0.06 sec)

```

## 第十步：读写分离

pproxy : 172.25.254.22

```

[root@pproxy ~]# ls
anaconda-ks.cfg  mysql-proxy-0.8.5-linux-glibc2.3-x86-64bit.tar.gz

[root@pproxy ~]# mkdir /mysql-proxy
[root@pproxy ~]# tar -xf mysql-proxy-0.8.5-linux-glibc2.3-x86-64bit.tar.gz
[root@pproxy ~]# mv mysql-proxy-0.8.5-linux-glibc2.3-x86-32bit/* /mysql-proxy

```

```
[root@pproxy mysql-proxy]# cat /mysql-proxy/mysql-proxy.cnf
[mysql-proxy]
proxy-address=172.25.254.22:4040
user=root
admin-username=proxy
admin-password=proxy
admin-lua-script=/mysql-proxy/lib/mysql-proxy/lua/admin.lua
proxy-read-only-backend-addresses=172.25.254.21:3306
proxy-backend-addresses=172.25.254.19:3306
proxy-lua-script=/mysql-proxy/share/doc/mysql-proxy/rw-splitting.lua
log-file=/var/tmp/mysql-proxy.log
daemon=true
keepalive=true
```

```
[root@pproxy mysql-proxy]# vim share/doc/mysql-proxy/rw-splitting.lua
```

```
if not proxy.global.config.rwsplit then
    proxy.global.config.rwsplit = {
        min_idle_connections = 1,
        max_idle_connections = 1,

        is_debug = false
    }
end
```

```
[root@pproxy mysql-proxy]# chmod 660 /mysql-proxy/mysql-proxy.cnf
```

```
[root@pproxy mysql-proxy]# bin/mysql-proxy --defaults-file=/mysql-proxy/mysql-proxy.cnf
```

```
[root@pproxy mysql-proxy]# netstat -tnpl |grep :4040
tcp      0      0 172.25.254.22:4040  0.0.0.0:*          LISTEN    3216/mysql-proxy
```

```
mysqlj :
MariaDB [(none)]> grant all on *.* to 'proxy'@'%' identified by 'proxy';
Query OK, 0 rows affected (0.03 sec)
```

```
MariaDB [(none)]> flush privileges;
Query OK, 0 rows affected (0.02 sec)
```

## 测试读写分离

```
使用客户端连接 mysql-proxy
mysql -u proxy -h 172.25.254.22 -P 4040 -pproxy
```

```
[root@localhost Desktop]# mysql -u proxy -h 172.25.254.22 -P 4040 -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 34
Server version: 5.5.44-MariaDB-log MariaDB Server
```

Copyright (c) 2000, 2015, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

```
MariaDB [(none)]> show databases;
+-----+
| Database |
```

```

+-----+
| information_schema |
| dabin            |
| jsp              |
| mysql            |
| performance_schema |
| php              |
| test             |
| test1            |
+-----+
8 rows in set (0.11 sec)

```

停掉slave主从同步后，创建数据显示成功，但查看则新创建的数据没有显示出来，则表明读写分离成功。

```

MariaDB [(none)]> create database test2;
Query OK, 1 row affected (0.00 sec)

```

```

MariaDB [(none)]> show databases;
+-----+
| Database          |
+-----+
| information_schema |
| dabin             |
| jsp               |
| mysql             |
| performance_schema |
| php               |
| test              |
| test1             |
+-----+
8 rows in set (0.11 sec)

```

```

MariaDB [(none)]> create database test3;
Query OK, 1 row affected (0.03 sec)

```

```

MariaDB [(none)]> show databases;
+-----+
| Database          |
+-----+
| information_schema |
| dabin             |
| jsp               |
| mysql             |
| performance_schema |
| php               |
| test              |
| test1             |
+-----+
8 rows in set (0.11 sec)

```