**湖南农大大学基地管理系统安装手册**

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本网站系统前台采用H5、Bootstrap、JQuery等框架，后台采用JavaWeb的SSH的框架，数据库采用Mysql数据库，整个网站在Linux系统下的服务器运行。在运行项目前，我们需要搭建好服务器的运行环境。

一、**文件的上传和下载**

**1、REDHAT6.4安装FTP**

1. yum安装ftp命令

yum install vsftpd

1. ftp服务的启动和关闭命令

service vsftpd start/stop/restart

1. 创建一个公共ftp账号uftp,同时新建"/home/uftp"目录作为ftp上传主目录

mkdir /home/uftp //创建主目录

useradd -d /home/uftp -s /bin/bash uftp //创建账号uftp

passwd uftp //设置密码

chmod 777 /home/uftp //修改权限，不然无法上传

**2、windows系统登录FTP上传和下载文件**

在布置项目时首先需要将项目放置到远端的服务器上去，这时需要用到FlashFXp软件，打开软件，点击左上角的连接，出现弹出框，填写所要连接的URL以及用户名和密码，连接的类型选择SFTP over SSH，点击连接，这时你就可以上传服务器文件或从服务器下载文件。



**二、Linux环境下Mysql数据库的安装和卸载**

**1.下载MySQL 5.6**

下载页面：<http://dev.mysql.com/downloads/mysql/>，此处选择“Red Hat Enterprise Linux 6 / Oracle Linux 6 (x86, 64-bit), RPM Bundle”下载，下载文件名为“MySQL-5.6.34-1.el6.x86\_64.rpm-bundle.tar”

**2. 解压tar包**

cd /home/uftp/

tar -xvf MySQL-5.6.34-1.el6.x86\_64.rpm-bundle.tar

**3. 以RPM方式安装MySQL**

在RHEL系统中，必须先安装“MySQL-shared-compat-5.6.34-1.el6.x86\_64.rpm”这个兼容包，然后才能安装server和client，否则安装时会出错。

（1）yum install MySQL-shared-compat-5.6.34-1.el6.x86\_64.rpm # RHEL兼容包

（2）yum install MySQL-server-5.6.34-1.el6.x86\_64.rpm # MySQL服务端程序

（3）yum install MySQL-client-5.6.34-1.el6.x86\_64.rpm # MySQL客户端程序

（4）yum install MySQL-devel-5.6.34-1.el6.x86\_64.rpm # MySQL的库和头文件

（5）yum install MySQL-shared-5.6.34-1.el6.x86\_64.rpm # MySQL的共享库

**4. 配置MySQL登录密码**

（1）cat /root/.mysql\_secret # 获取MySQL安装时生成的随机密码

（2）service mysql start # 启动MySQL服务

（3）mysql -uroot -p # 进入MySQL，使用之前获取的随机密码, 可以接复制黏贴随机密码

（4）SET PASSWORD FOR 'root'@'localhost' =PASSWORD('password');

# 在MySQL命令行中设置root账户的密码为password

（5）quit # 退出MySQL命令行

（6）service mysql restart # 重新启动MySQL服务

5.设置 MySQL不区分表名大小写**（MySQL默认是区分表名大小写的）**

(1)用root登录，修改 /etc/my.cnf；

(2)在[mysqld]节点下，加入一行： lower\_case\_table\_names=1

(3)重启MySQL即可；

**6、开放远程访问**

（1）设置bind-address

1、 vim /etc/mysql/my.cnf（有可能不存在）

bind-address = 127.0.0.1改成bind-address = 0.0.0.0

意思是取消 MySQL Server 绑定本地地址。

2、 service mysqld restart (重启mysql服务)

（2） 防火墙开放3306端口

1、 打开防火墙配置文件vi /etc/sysconfig/iptables

2、 增加下面一行，（注意：增加的开放3306端口的语句一定要在icmp-host-prohibited之前）

-A INPUT -m state --state NEW -m tcp -p tcp --dport 3306 -j ACCEPT

3、 重启防火墙

service iptables restart

**三、安装weblogic服务器（RADHAT6.4安装Weblogic10.3.6）**

**1、卸载RedHat6.4自带的JDK1.7**

[root@dbtest /]# rpm -qa|grep jdk //查看当前rpm安装的jdk版本

java-1.7.0-openjdk-1.7.0.9-2.3.4.1.el6\_3.x86\_64

java-1.6.0-openjdk-1.6.0.0-1.50.1.11.5.el6\_3.x86\_64

[root@dbtest /]# rpm -e --nodeps java-1.7.0-openjdk-1.7.0.9-2.3.4.1.el6\_3.x86\_64 //把以上openjdk都删除

[root@dbtest /]# rpm -e --nodeps java-1.6.0-openjdk-1.6.0.0-1.50.1.11.5.el6\_3.x86\_64

[root@dbtest /]# java -version //查看是否卸载完全

-bash: /usr/bin/java: No such file or directory

**2、 下载jdk-8u111-linux-x64.rpm，通过ftp上传到linux服务器，安装JDK**

**3、配置环境变量**

[root@localhost uftp]#vim /etc/profile // 在/etc/profile文件的最后面添加下面代码

export JAVA\_HOME=/usr/java/jdk1.8.0\_111

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

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

[root@dbtest local]# source /etc/profile //使配置文件/etc/profile立即生效

[root@dbtest local]# echo $JAVA\_HOME //验证环境变量是否生效

/usr/java/jdk1.8.0\_111

[root@dbtest local]# echo $PATH

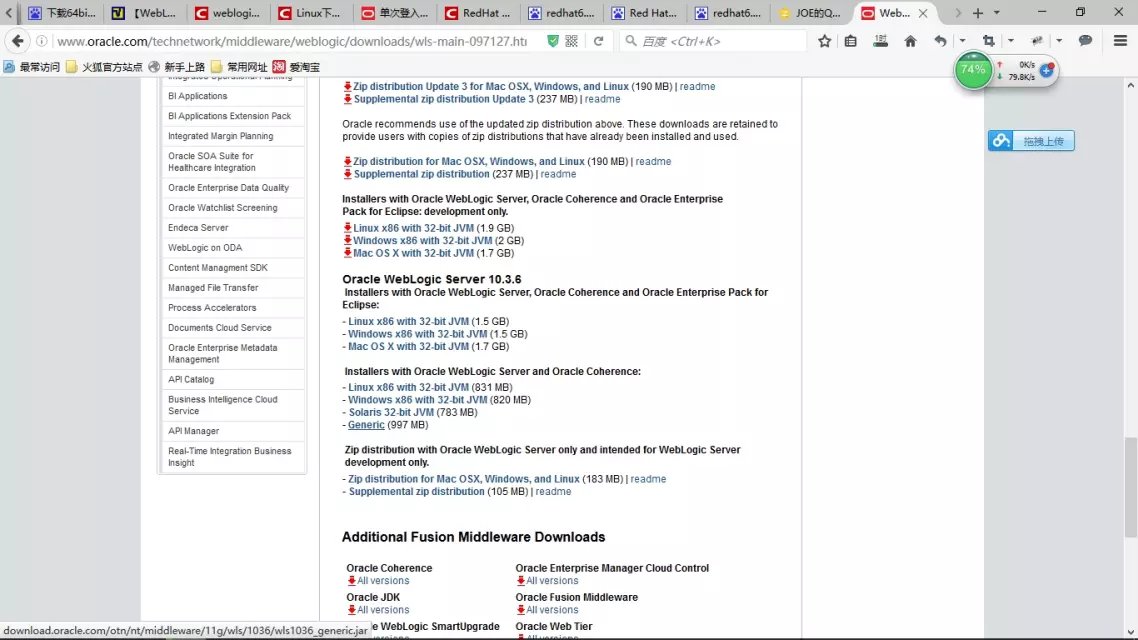
/usr/java/jdk1.8.0\_111/bin:/usr/lib64/qt-3.3/bin:/usr/local/sbin: /usr/local/bin:/sbin:/bin:/usr/sbin:/usr/bin:/root/bin

[root@dbtest local]# echo $CLASSPATH

/usr/java/jdk1.8.0\_111/lib

**4.安装WEBLOGIC**

（1）下载Weblogic10.3.6,下载地址：<http://www.oracle.com/technetwork/middleware/weblogic/downloads/wls-main-097127.html>



（2）将Weblogic10.3.6通过ftp上传到linux服务器

（3）添加用户和组

[root@testsoa /]# groupadd weblogic

[root@testsoa /]# useradd -g weblogic weblogic

[root@testsoa /]# passwd weblogic

密码：Your password

1. 新建 weblogic 的安装路径

[root@dbtest etc]# cd /

[root@dbtest /]# mkdir Oracle

[root@dbtest /]# chown -R weblogic.weblogic /Oracle/

1. 执行安装命令

[root@dbtest uftp]# java -jar wls1035\_generic.jar

Unable to instantiate GUI, defaulting to console mode.无法实例化 GUI，默认进入控制台模式。

Enter [Exit][Next]> 回车

1. 配置domains

编辑/Oracle/Middleware/wlserver\_10.3/common/bin/.config.sh

[root@dbtest uftp] #/Oracle/Middleware/wlserver\_10.3/common/bin/.config.sh

Unable to instantiate GUI, defaulting to console mode.

<------------------- Fusion Middleware ConfigurationWizard ------------------>

Welcome:

--------

Choose between creating and extending a domain. Based on yourselection,

the Configuration Wizard guides you through the steps to generate anew or

extend an existing domain.

->1|Create a new WebLogicdomain

| Create aWebLogic domain in your projects directory.

2|Extend an existingWebLogic domain

| Use thisoption to add new components to an existing domain andmodify |configuration settings.

Enter index number to select OR [Exit][Next]> 1

<------------------- Fusion Middleware ConfigurationWizard ------------------>

Select Domain Source:

---------------------

Select the source from which the domain will be created. You cancreate the

domain by selecting from the required components or by selectingfrom a

list of existing domain templates.

->1|Choose Weblogic Platformcomponents

| You canchoose the Weblogic component(s) that you want supported in

|yourdomain.

2|Choose customtemplate

| Choose thisoption if you want to use an existing template.This

|could be acustom created template using the Template Builder.

Enter index number to select OR[Exit][Previous][Next]> 1

<------------------- Fusion Middleware ConfigurationWizard ------------------>

Application Template Selection:

-------------------------------

AvailableTemplates

|\_\_\_\_\_BasicWebLogic Server Domain - 10.3.6.0 [wlserver\_10.3]x

|\_\_\_\_\_BasicWebLogic SIP Server Domain - 10.3.6.0 [wlserver\_10.3] [2]

|\_\_\_\_\_WebLogic Advanced Web Services for JAX-RPC Extension -10.3.6.0 [wlserver\_10.3] [3]

|\_\_\_\_\_WebLogic Advanced Web Services for JAX-WS Extension -10.3.6.0 [wlserver\_10.3] [4]

Enter number exactly as it appears in brackets to toggle selectionOR [Exit][Previous][Next]>回车

<------------------- Fusion Middleware ConfigurationWizard ------------------>

Edit Domain Information:

------------------------

| Name | Value |

\_|\_\_\_\_\_\_\_\_|\_\_\_\_\_\_\_\_\_\_\_\_\_|

1| \*Name: | base\_domain |

Enter value for "Name" OR [Exit][Previous][Next]>spocweb

<------------------- Fusion Middleware ConfigurationWizard ------------------>

Edit Domain Information:

------------------------

| Name | Value |

\_|\_\_\_\_\_\_\_\_|\_\_\_\_\_\_\_\_\_|

1| \*Name: | spocweb |

Use above value or select another option:

1 - Modify"Name"

2 - DiscardChanges

Enter option number to select OR[Exit][Previous][Next]>回车

<------------------- Fusion Middleware ConfigurationWizard ------------------>

Select the target domain directory for this domain:

---------------------------------------------------

"TargetLocation" = [Enter new value or use default

"/Oracle/weblogic/user\_projects/domains"]

Enter new Target Location OR[Exit][Previous][Next]> /spoc/webapp/domains

<------------------- Fusion Middleware ConfigurationWizard ------------------>

Configure Administrator User Name and Password:

-----------------------------------------------

Create a user to be assigned to the Administrator role. Thisuser is the

default administrator used to start development mode servers.

| Name | Value |

\_|\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_|\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_|

1| \*Name: | weblogic |

2| \*Userpassword: | |

3| \*Confirm user password:| |

4| Description: | This user is the default administrator. |

Use above value or select another option:

1 - Modify"Name"

2 - Modify"User password"

3 - Modify"Confirm user password"

4 - Modify"Description"

Enter option number to select OR[Exit][Previous][Next]> 2

<------------------- Fusion Middleware ConfigurationWizard ------------------>

Configure Administrator User Name and Password:

-----------------------------------------------

Create a user to be assigned to the Administrator role. Thisuser is the

default administrator used to start development mode servers.

"\*Userpassword:" = []

Enter new \*User password: OR [Exit][Reset][Accept]>yourpassword

<------------------- Fusion Middleware ConfigurationWizard ------------------>

Configure Administrator User Name and Password:

-----------------------------------------------

Create a user to be assigned to the Administrator role. Thisuser is the

default administrator used to start development mode servers.

| Name | Value |

\_|\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_|\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_|

1| \*Name: | weblogic |

2| \*Userpassword: | \*\*\*\*\*\*\*\*\* |

3| \*Confirm user password:| |

4| Description: | This user is the default administrator. |

Use above value or select another option:

1 - Modify"Name"

2 - Modify"User password"

3 - Modify"Confirm user password"

4 - Modify"Description"

5 - DiscardChanges

Enter option number to select OR[Exit][Previous][Next]> 3

<------------------- Fusion Middleware ConfigurationWizard ------------------>

Configure Administrator User Name and Password:

-----------------------------------------------

Create a user to be assigned to the Administrator role. Thisuser is the

default administrator used to start development mode servers.

"\*Confirmuser password:" = []

Enter new \*Confirm user password: OR[Exit][Reset][Accept]> yourpasswprd

<------------------- Fusion Middleware ConfigurationWizard ------------------>

Configure Administrator User Name and Password:

-----------------------------------------------

Create a user to be assigned to the Administrator role. Thisuser is the

default administrator used to start development mode servers.

| Name | Value |

\_|\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_|\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_|

1| \*Name: | weblogic |

2| \*Userpassword: | \*\*\*\*\*\*\*\*\* |

3| \*Confirm user password:| \*\*\*\*\*\*\*\*\* |

4| Description: | This user is the default administrator. |

Use above value or select another option:

1 - Modify"Name"

2 - Modify"User password"

3 - Modify"Confirm user password"

4 - Modify"Description"

5 - DiscardChanges

Enter option number to select OR[Exit][Previous][Next]>回车

<------------------- Fusion Middleware ConfigurationWizard ------------------>

Domain Mode Configuration:

--------------------------

Enable Development or Production Mode for this domain.

->1|Development Mode

2|Production Mode

Enter index number to select OR[Exit][Previous][Next]> 2

<------------------- Fusion Middleware ConfigurationWizard ------------------>

Java SDK Selection:

-------------------

->1|SUN SDK 1.8.0\_111 @/usr/java/jdk1.8.0\_111

2|Other Java SDK

Enter index number to select OR[Exit][Previous][Next]> 回车

<------------------- Fusion Middleware ConfigurationWizard ------------------>

Select Optional Configuration:

------------------------------

1|Administration Server []

2|Managed Servers, Clustersand Machines [ ]

3|RDBMS Security Store [ ]

Enter index number to select OR[Exit][Previous][Next]> 1

<------------------- Fusion Middleware ConfigurationWizard ------------------>

Select Optional Configuration:

------------------------------

1|Administration Server[x]

2|Managed Servers, Clustersand Machines [ ]

3|RDBMS Security Store [ ]

Enter index number to select OR[Exit][Previous][Next]>回车

<------------------- Fusion Middleware ConfigurationWizard ------------------>

Configure the Administration Server:

------------------------------------

Each WebLogic Server domain must have one Administration Server.The

Administration Server is used to perform administrative tasks.

| Name | Value |

\_|\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_|\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_|

1| \*Name: | AdminServer |

2| \*Listen address: | AllLocal Addresses |

3| Listenport: | 7001 |

4| SSL listen port:| N/A |

5| SSLenabled: | false |

Use above value or select another option:

1 - Modify"Name"

2 - Modify"Listen address"

3 - Modify"Listen port"

4 - Modify"SSL enabled"

Enter option number to select OR[Exit][Previous][Next]>回车

<------------------- Fusion Middleware ConfigurationWizard ------------------>

Creating Domain...

0% 25% 50% 75% 100%

[------------|------------|------------|------------]

[\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*]

\*\*\*\* Domain Created Successfully! \*\*\*\*

1. 启动服务

[root@dbtest /]# cd /spoc/webapp/domains/spocweb/bin

[root@dbtest bin]# ./startWebLogic.sh //开启weblogic

[root@dbtest bin]# ./stopWebLogic.sh //关闭weblogic

客户端关闭不会结束运行：

启动命令：./startWebLogic.sh & //（&的作用是让weblogic启动在后台运行）

nohup /spoc/webapp/domains/spocweb/bin/startWebLogic.sh >/var/log/weblogic.log 2>&1 &

nohup /spoc/webapp/domains/spocweb/bin/startWebLogic.sh &

sh /spoc/webapp/domains/spocweb/bin/startWebLogic.sh &

查看日志：cat /val/log/weblogic.log

1. 重启

[root@dbtest log]# ps -ef|grep weblogic

root 26694 26563 0 09:32 pts/0 00:00:00 grep weblogic

[root@dbtest log]#kill -9 26694

1. 防火墙开放7001端口
2. 打开防火墙配置文件vi /etc/sysconfig/iptables
3. 增加下面一行，（注意：增加的开放3306端口的语句一定要在icmp-host-prohibited之前）

-A INPUT -m state --state NEW -m tcp -p tcp --dport 7001 -j ACCEPT

3、重启防火墙

service iptables restart

1. 开机自动启动WebLogic

# vim /etc/rc.d/rc.local

追加 nohup /spoc/webapp/domains/spocweb/bin/startWebLogic.sh &

1. 将日志文件nohup.out清除，且不影响服务的运行

cp /dev/null nohup.out

**四、小结**

当服务器的运行环境搭建好后，我们每次只需要进行以下几步就可以重新发布项目了。

1. **putty远程连接服务器**

关闭weblogic服务器，命令：./stopWebLogic.sh

1. **FlashFXP上传项目文件**
2. **重新启动WebLogic**

cd /你的服务器启动文件夹 //进入到你的项目文件夹

./startWebLogic.sh & //可以查看启动状态，是否有错。但关闭putty，weblogic就会关闭

nohup /你的服务器启动文件夹/startWebLogic.sh & //后台启动，关闭putty后weblogic不会关闭

**五、各个软件的下载地址**

**1、Mysql数据库**

下载地址：http://pan.baidu.com/s/1ccn2oA

**2、文件上传FlashFXp**

下载地址：http://pan.baidu.com/s/1nvdSWf3

**3、登录服务器客户端**

下载地址：http://pan.baidu.com/s/1o8Hg8yu

**4、网站服务器weblogic**

下载地址：http://pan.baidu.com/s/1nv19149

**5、Linux系统下的网站运行环境（jdk）**

下载地址：http://pan.baidu.com/s/1hscbslY