MongoDB

安装环境

- Operation system : redhat7
- Install packages path: /home/mongo
- mongodb server IP: 10.96.43.105
- username : root
- Password: abc.0813
- //change it if necessary

安装mongoDB

- 将安装文件上传到服务器的目录下面
- 登录要安装的mongodb服务器
- 进入到有安装包的目录（这里使用的是/home/mongo）

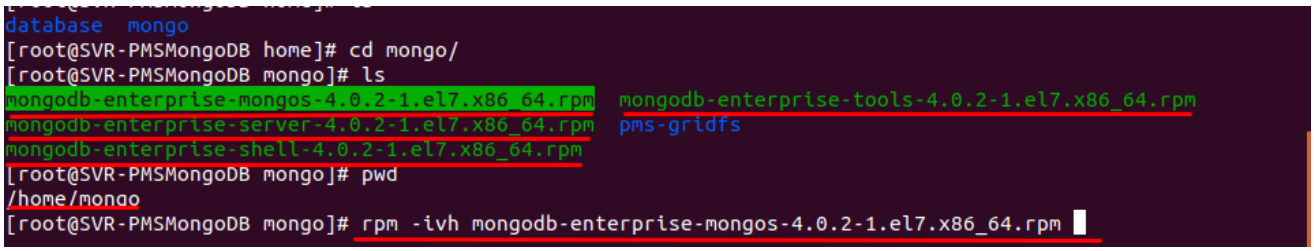
```
cd /home/mongo
```

- 运行命令

```
rpm -ivh mongodb-enterprise-server-4.0.2-1.el7.x86_64.rpm
rpm -ivh mongodb-enterprise-mongos-4.0.2-1.el7.x86_64.rpm
rpm -ivh mongodb-enterprise-tools-4.0.2-1.el7.x86_64.rpm
rpm -ivh mongodb-enterprise-shell-4.0.2-1.el7.x86_64.rpm
```

- 如在安装过程中部分安装包的依赖关系无法满足，使用yum install 相应的包的名称，解决依赖关系

```
yum install the_package_name_what_you_want
```



启动mongoDB服务

- 启动mongodb服务

```
systemctl start mongod.service
```

- 停止mongodb服务

```
systemctl stop mongod.service
```

- 将mongodb加入开机自动服务

```
systemctl enable mongod.service
```

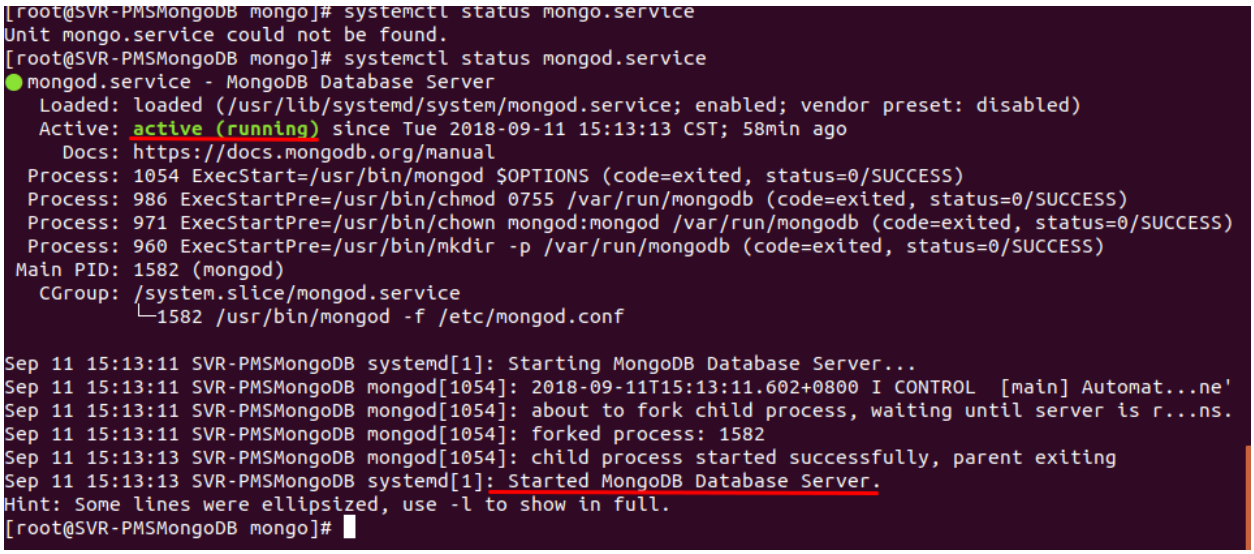
- 将mongodb移除开机自启动服务

```
systemctl disable mongod.service
```

- 查看mongodb状态

```
systemctl status mongod.service
```

- 如果满足图中标识的部分，则表示运行正常



说明

- mongodb配置文件存放位置：/etc/mongo.conf
- mongodb log文件位置 ： /var/log/mongo/mongo.log
- mongodb 数据存放位置 :/home/database/mongo

Nginx

服务器环境

- system: redhat7
- Nginx server IP: 10.96.43.97
- username: root
- password: abc.0813
- //change it if necessary

编译安装nginx

- nginx 下载地址http://nginx.org/en/download.html
- 解压安装包

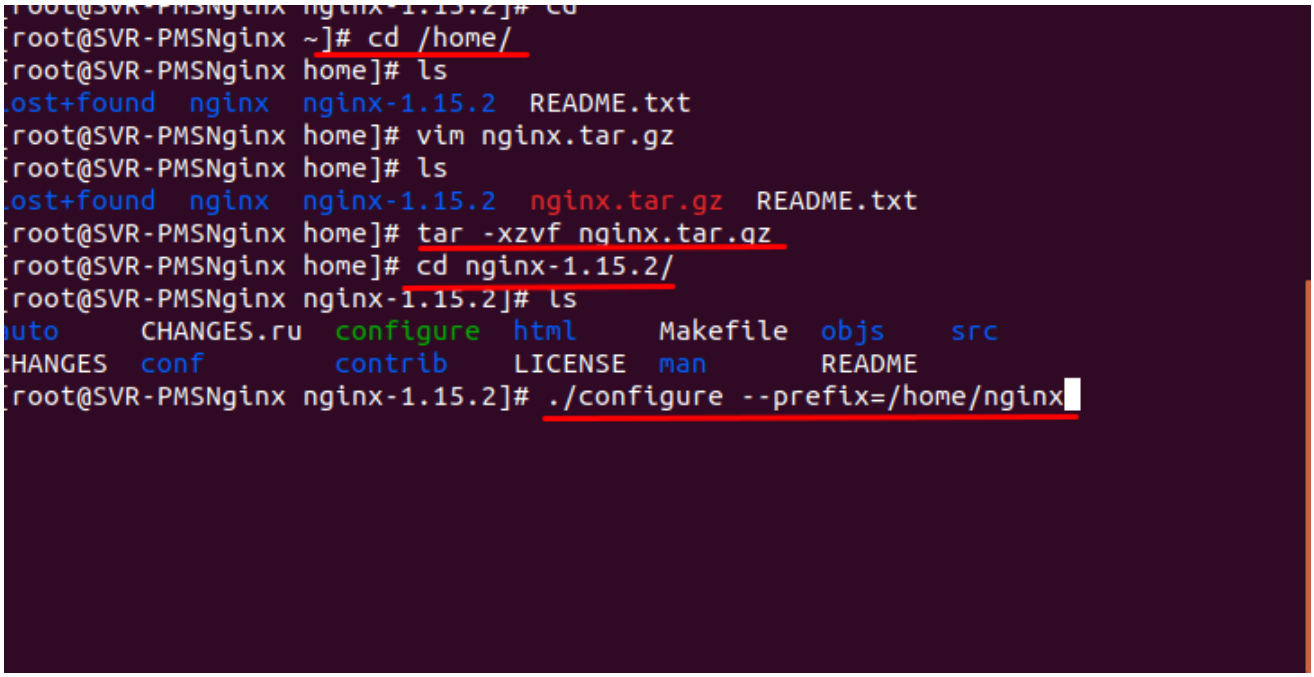
```
tar -xzvf nginx.tar.gz
```

- 进入安装目录

```
cd nginx-1.15.2
```

- 配置编译环境(--prefix 指定Nginx的安装路径)

```
./configure --prefix=/home/nginx
```



- 编译nginx

```
make
```

- 安装nginx

```
make install
```

注意

- nginx 在安装过程中可能需要root权限
- 安装完后,要在命令行运行nginx命令,要将/home/nginx/sbin 加入path路径

运行nginx

```
nginx -c /home/nginx/conf/nginx.conf
```

停止nginx

```
pkill nginx
```

说明

- 运行的时候请确保Nginx所使用的80端口开放
- 运行查看Nginx是否占用的正确的端口(使用root权限)

```
sudo netstat -ntlp
```

```
root@SVR-PMSNginx nginx-1.15.2]# netstat -ntlp
ctive Internet connections (only servers)
roto Recv-Q Send-Q Local Address           Foreign Address         State       PID/Program name
cp        0      0 0.0.0.0:111             0.0.0.0:*               LISTEN      1/systemd
cp        0      0 0.0.0.0:80              0.0.0.0:*               LISTEN      34272/nginx: master
cp        0      0 0.0.0.0:22              0.0.0.0:*               LISTEN      981/sshd
cp        0      0 127.0.0.1:631           0.0.0.0:*               LISTEN      945/cupsd
cp        0      0 127.0.0.1:25            0.0.0.0:*               LISTEN      1610/master
cp        0      0 10.96.43.97:95          0.0.0.0:*               LISTEN      1422/python
cp6       0      0 :::111                  :::*                    LISTEN      1/systemd
cp6       0      0 :::22                   :::*                    LISTEN      981/sshd
cp6       0      0 ::1:631                 :::*                    LISTEN      945/cupsd
cp6       0      0 ::1:25                  :::*                    LISTEN      1610/master
root@SVR-PMSNginx nginx-1.15.2]#
```

Weblogic

准备工作

- 将weblogic安装文件放在/home/weblogic下

```
magatron@magatron:~$ ssh weblogic@10.96.43.98
weblogic@10.96.43.98's password:
Last login: Mon Sep 17 11:36:13 2018 from 10.97.101.35
[weblogic@SVR-PMSWeblogic12c1 ~]$ ls
fmw_12.2.1.3.0_infrastructure.jar  jdk1.8.0_181  jdk-8u181-linux-x64.tar.gz  Oracle  oraInventory
[weblogic@SVR-PMSWeblogic12c1 ~]$
```

配置JAVA JDK

- 将java jdk 文件夹服务制到/usr/local/share目录下

```
cp -r jdk1.8.0._181 /usr/local/share
```

- 配置Java环境变量

```
vim /etc/profile
```

- 将以下内容追加到文件中

```
export JAVA_HOME=/usr/local/share/jdk1.8.0_181
export JRE_HOME=$JAVA_HOME/jre
export PATH=$JAVA_HOME/bin:$PATH
```

```
        else
            . "$i" >/dev/null
        fi
    fi
done

unset i
unset -f pathmunge
export JAVA_HOME=/usr/local/share/jdk1.8.0_181
export JRE_HOME=$JAVA_HOME/jre
export PATH=$JAVA_HOME/bin:$PATH
```

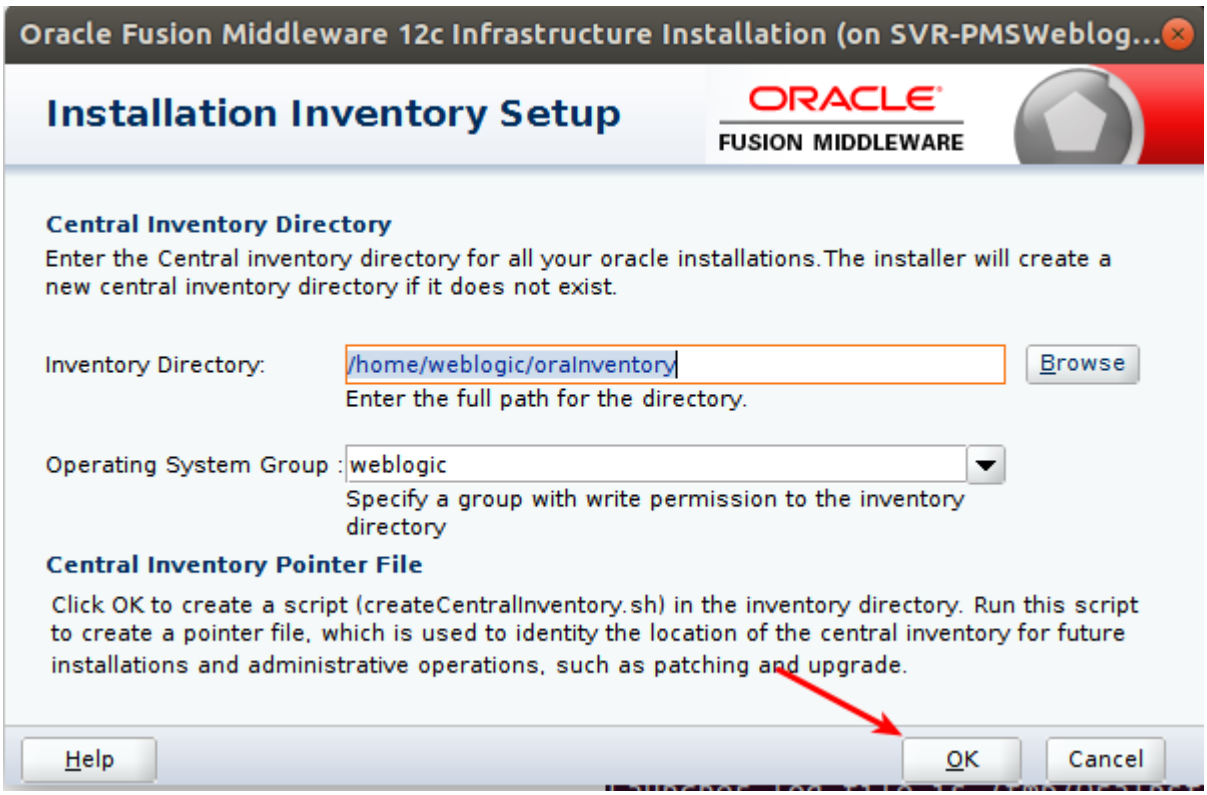
- 重启服务器使环境变量生效

```
sudo init 6
```

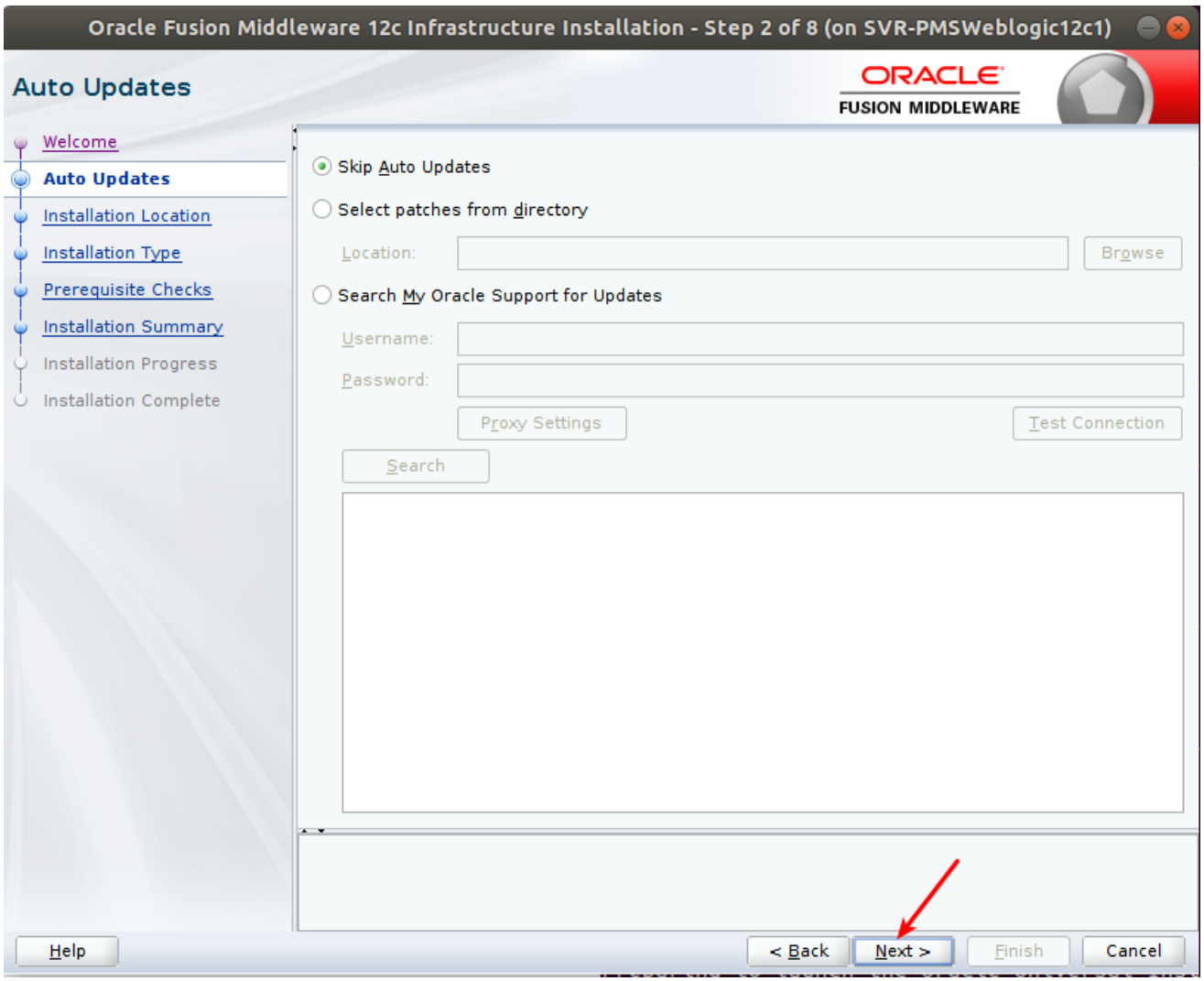
安装weblogic

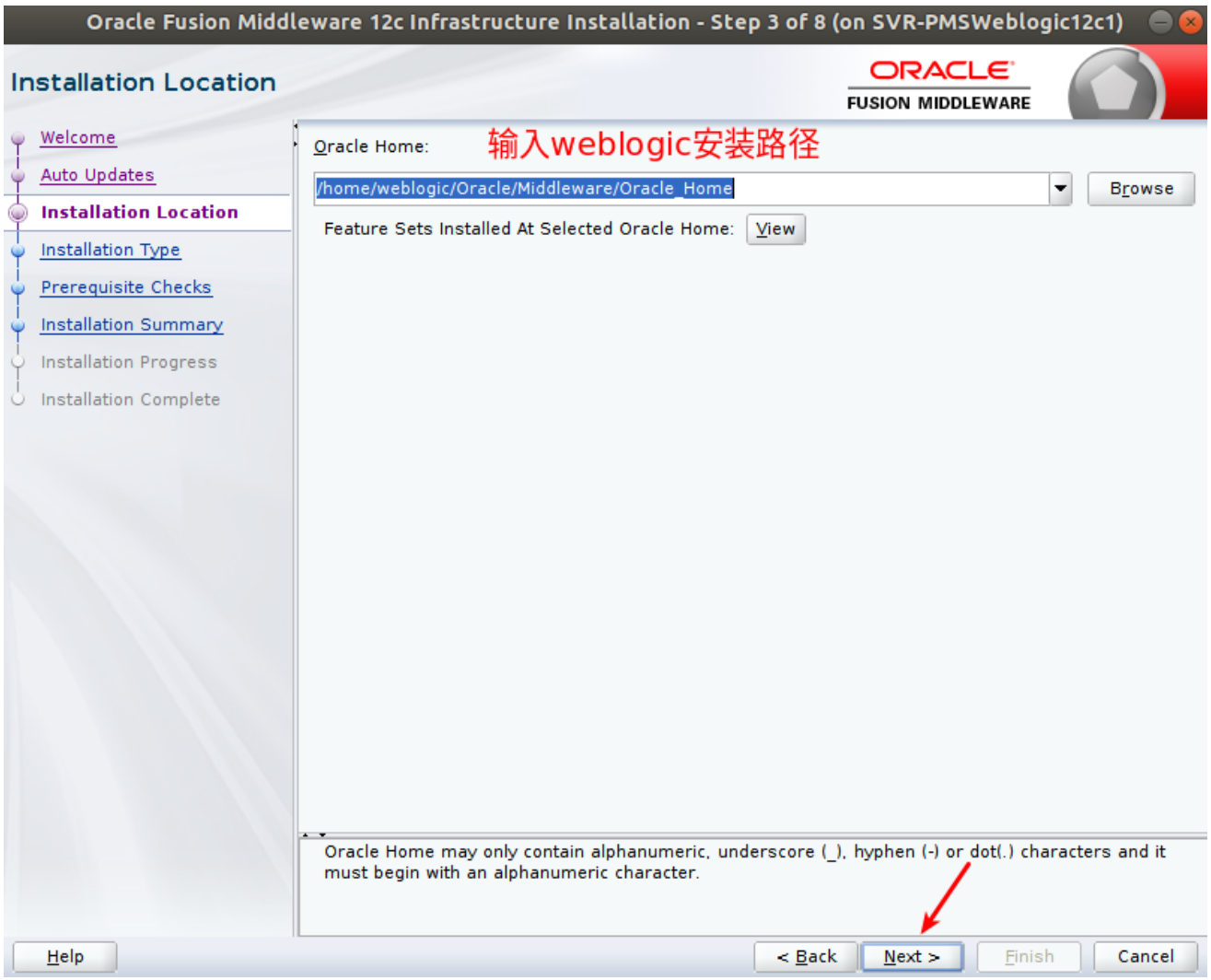
- 启动安装程序

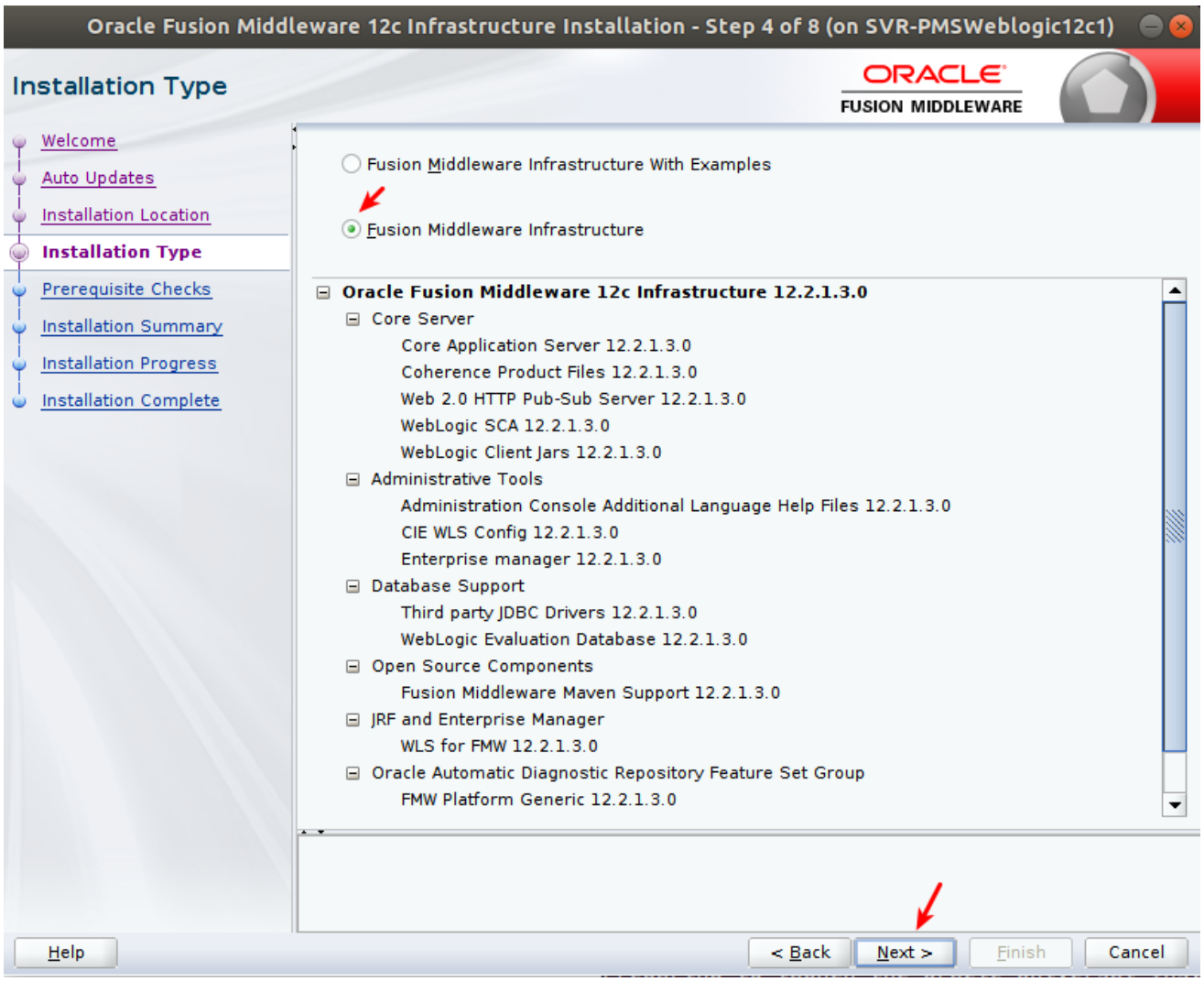
```
java -jar fmw_12.2.1.3.0_infrastructure.jar
```

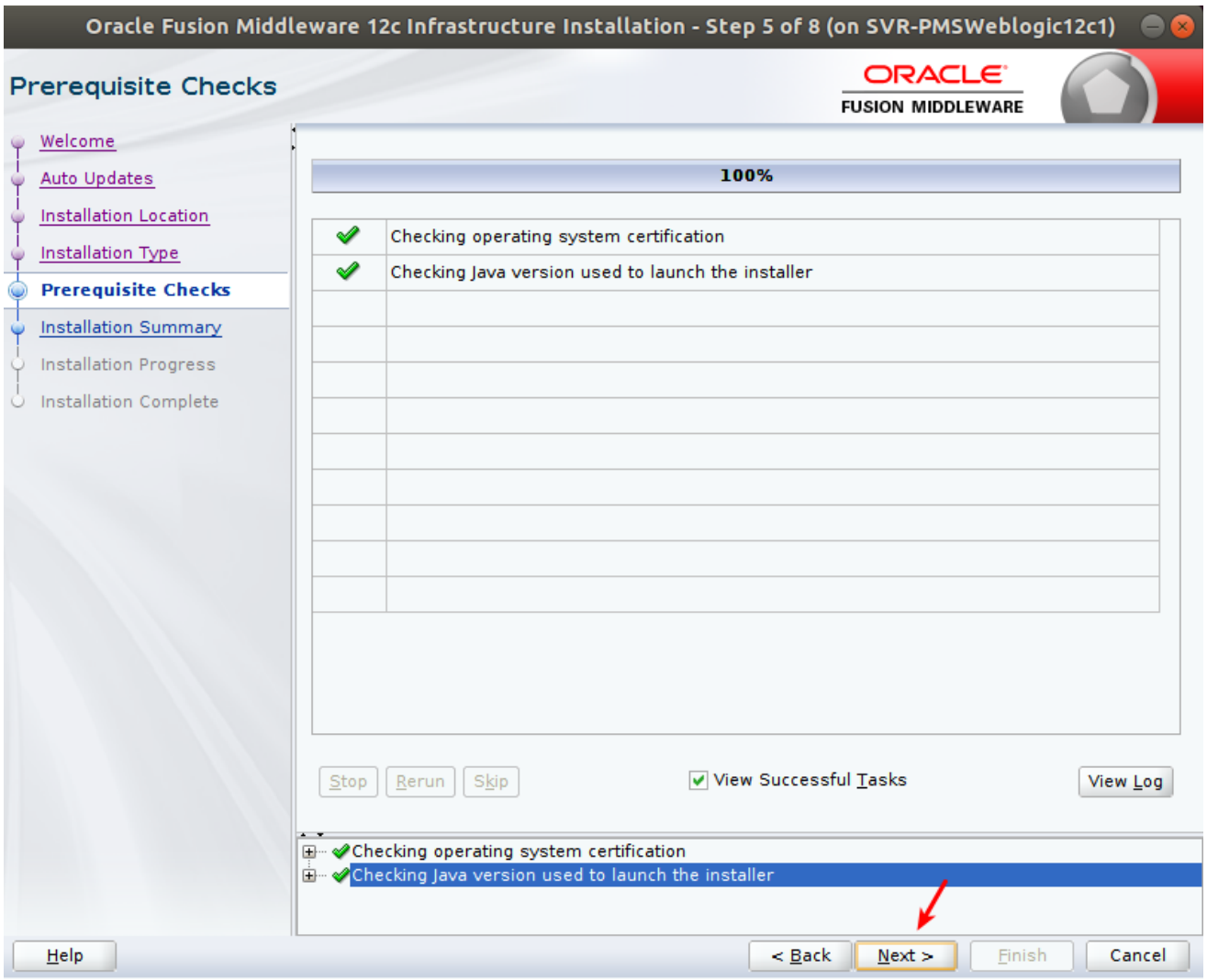

Oracle Fusion Middleware 12c Infrastructure Installation (on SVR-PMSWeblog...
Installation Inventory Setup
ORACLE
FUSION MIDDLEWARE
Central Inventory Directory
Enter the Central inventory directory for all your oracle installations.The installer will create a new central inventory directory if it does not exist.
Inventory Directory:
/home/weblogic/oraInventory
Browse
Enter the full path for the directory.
Operating System Group :
weblogic
Specify a group with write permission to the inventory directory
Central Inventory Pointer File
Click OK to create a script (createCentralInventory.sh) in the inventory directory. Run this script to create a pointer file, which is used to identity the location of the central inventory for future installations and administrative operations, such as patching and upgrade.
Help
OK
Cancel

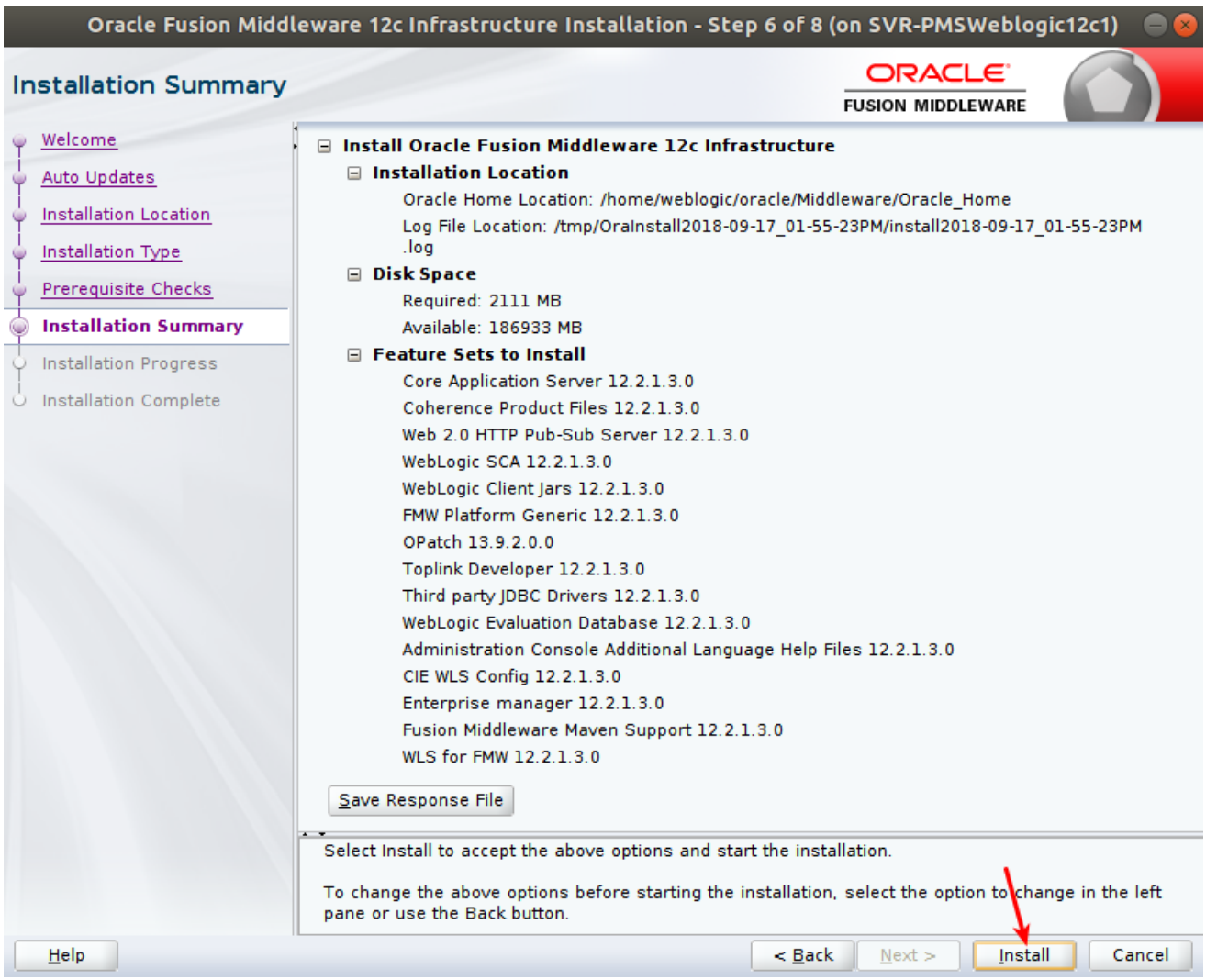

Oracle Fusion Middleware 12c Infrastructure Installation - Step 1 of 8 (on SVR-PMSWeblogic12c1)
Welcome
ORACLE
FUSION MIDDLEWARE
Welcome
Auto Updates
Installation Location
Installation Type
Prerequisite Checks
Installation Summary
Installation Progress
Installation Complete
Welcome to the Oracle Fusion Middleware 12c (12.2.1.3.0) Infrastructure Installer.
Use this installer to create a new Oracle home that contains the Oracle Fusion Middleware Infrastructure software. You can then install additional Fusion Middleware products that require the Infrastructure into the Oracle home, or you can use the Infrastructure to configure a WebLogic Server domain for the deployment of Java and Oracle ADF applications.
For more information, see Install, Patch, and Upgrade in the Oracle Fusion Middleware documentation library.
Context-sensitive online help is available from the Help button.
Copyright © 1996, 2017, Oracle and/or its affiliates. All rights reserved.
Help
< Back
Next >
Finish
Cancel


Oracle Fusion Middleware 12c Infrastructure Installation - Step 2 of 8 (on SVR-PMSWeblogic12c1)
Auto Updates
ORACLE
FUSION MIDDLEWARE
Welcome
Auto Updates
Installation Location
Installation Type
Prerequisite Checks
Installation Summary
Installation Progress
Installation Complete
Skip Auto Updates
Select patches from directory
Location:
Browse
Search My Oracle Support for Updates
Username:
Password:
Proxy Settings
Test Connection
Search
Help
< Back
Next >
Finish
Cancel


Oracle Fusion Middleware 12c Infrastructure Installation - Step 3 of 8 (on SVR-PMSWeblogic12c1)
Installation Location
ORACLE
FUSION MIDDLEWARE
Welcome
Auto Updates
Installation Location
Installation Type
Prerequisite Checks
Installation Summary
Installation Progress
Installation Complete
Oracle Home:
输入weblogic安装路径
/home/weblogic/Oracle/Middleware/Oracle_Home
Browse
Feature Sets Installed At Selected Oracle Home:
View
Oracle Home may only contain alphanumeric, underscore (_), hyphen (-) or dot(.) characters and it must begin with an alphanumeric character.
Help
< Back
Next >
Finish
Cancel


Oracle Fusion Middleware 12c Infrastructure Installation - Step 4 of 8 (on SVR-PMSWeblogic12c1)
Installation Type
ORACLE
FUSION MIDDLEWARE
Welcome
Auto Updates
Installation Location
Installation Type
Prerequisite Checks
Installation Summary
Installation Progress
Installation Complete
Fusion Middleware Infrastructure With Examples
Fusion Middleware Infrastructure
Oracle Fusion Middleware 12c Infrastructure 12.2.1.3.0
Core Server
Core Application Server 12.2.1.3.0
Coherence Product Files 12.2.1.3.0
Web 2.0 HTTP Pub-Sub Server 12.2.1.3.0
WebLogic SCA 12.2.1.3.0
WebLogic Client Jars 12.2.1.3.0
Administrative Tools
Administration Console Additional Language Help Files 12.2.1.3.0
CIE WLS Config 12.2.1.3.0
Enterprise manager 12.2.1.3.0
Database Support
Third party JDBC Drivers 12.2.1.3.0
WebLogic Evaluation Database 12.2.1.3.0
Open Source Components
Fusion Middleware Maven Support 12.2.1.3.0
JRF and Enterprise Manager
WLS for FMW 12.2.1.3.0
Oracle Automatic Diagnostic Repository Feature Set Group
FMW Platform Generic 12.2.1.3.0
Help
< Back
Next >
Finish
Cancel


Oracle Fusion Middleware 12c Infrastructure Installation - Step 5 of 8 (on SVR-PMSWeblogic12c1)
Prerequisite Checks
ORACLE
FUSION MIDDLEWARE
Welcome
Auto Updates
Installation Location
Installation Type
Prerequisite Checks
Installation Summary
Installation Progress
Installation Complete
100%
Checking operating system certification
Checking Java version used to launch the installer
Stop
Rerun
Skip
View Successful Tasks
View Log
Checking operating system certification
Checking Java version used to launch the installer
Help
< Back
Next >
Finish
Cancel



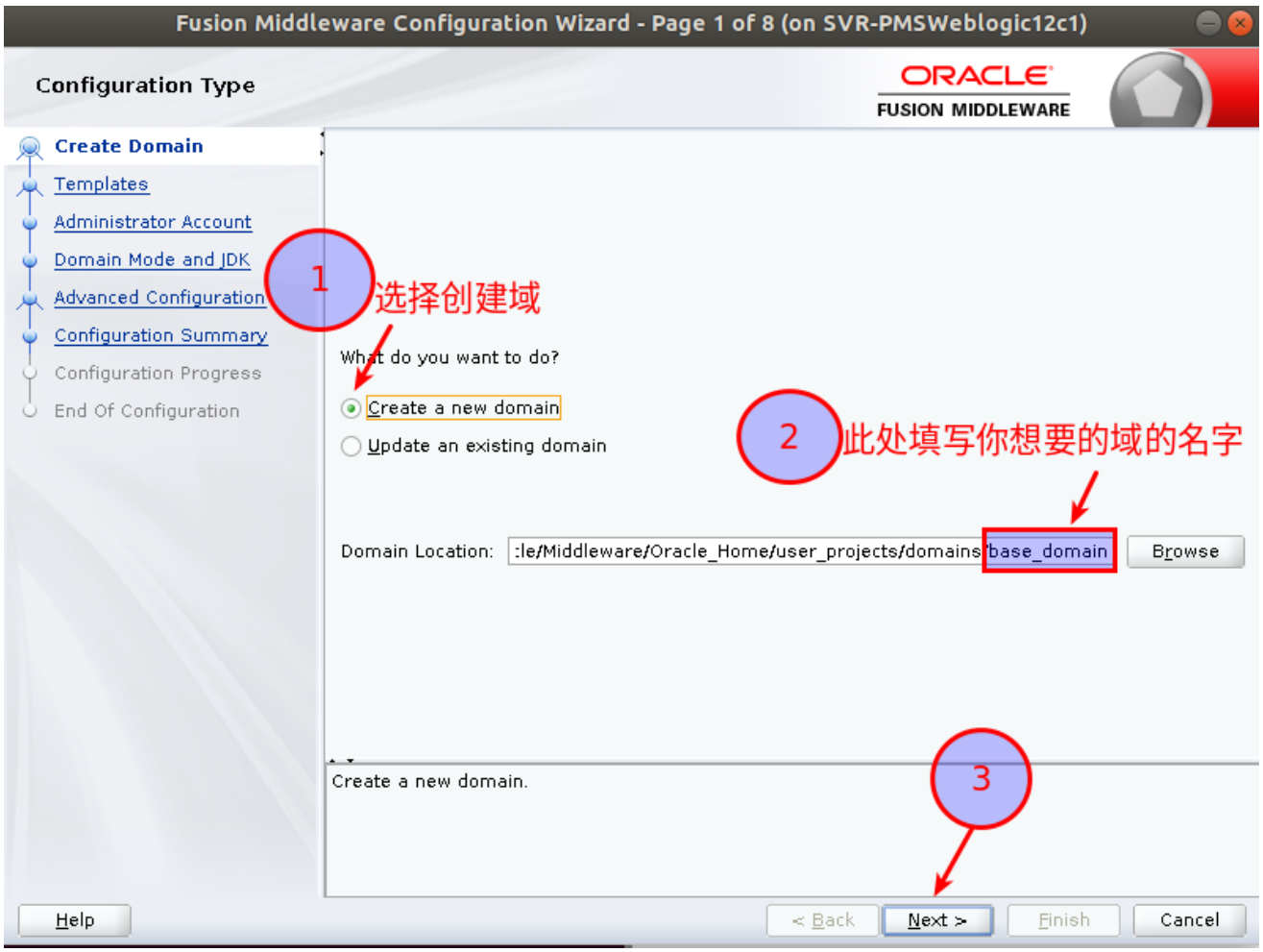
创建Weblogic域

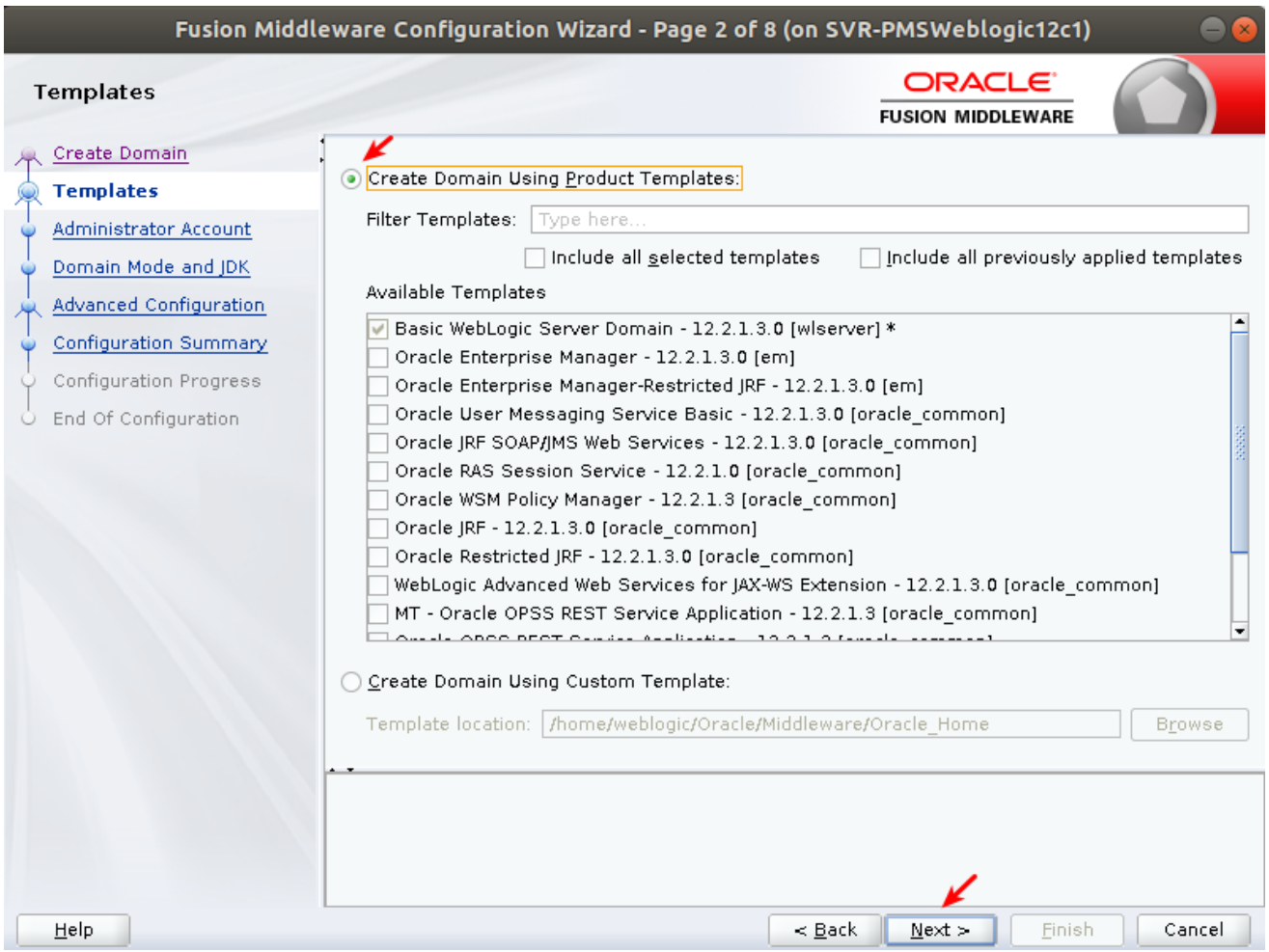
- 进入目录

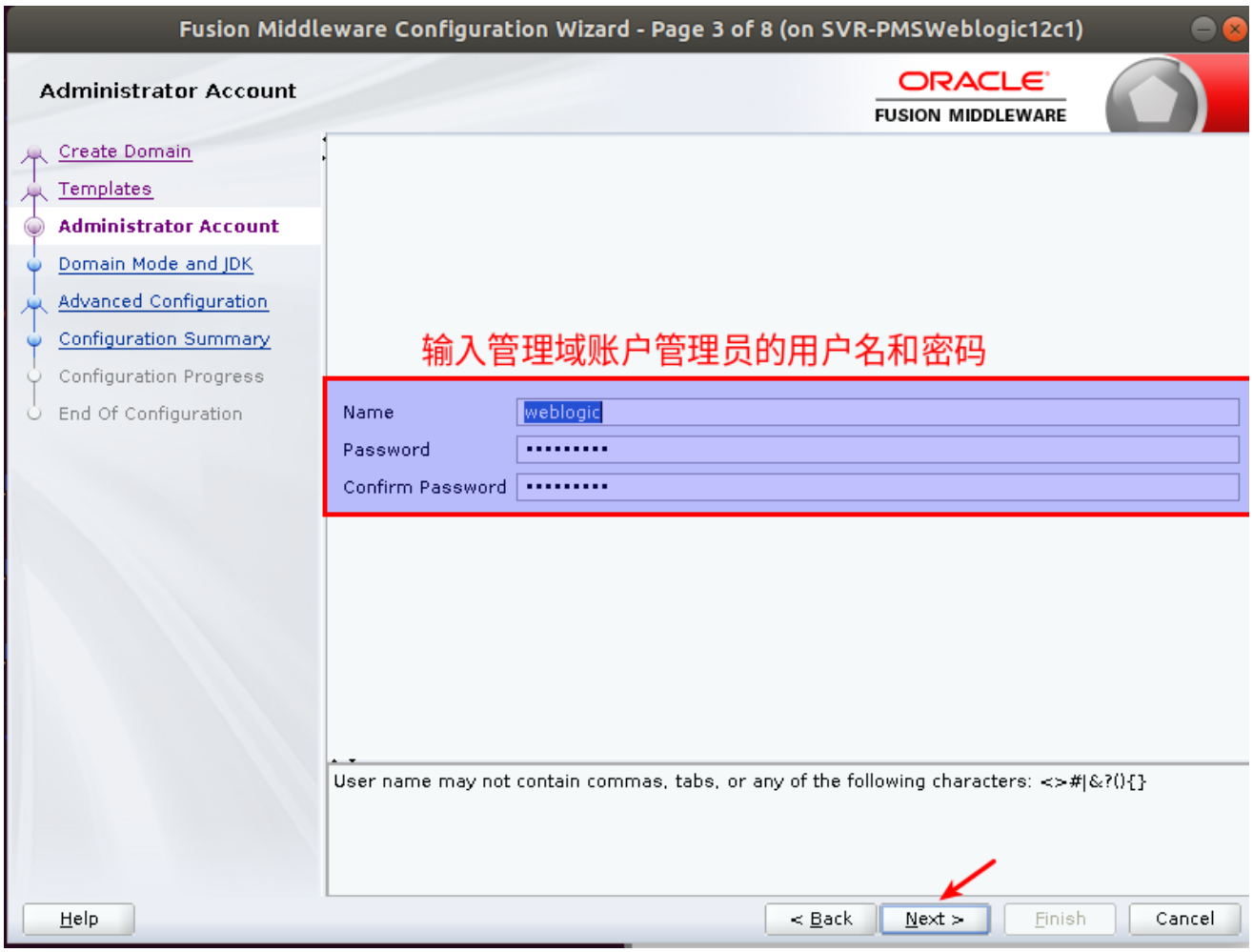
```
cd /home/weblogic/Oracle/Middleware/Oracle_Home/wlserver/common/bin
此目录/home/weblogic/Oracle/Middleware/Oracle_Home/为安装weblogic时所输入的目录
```

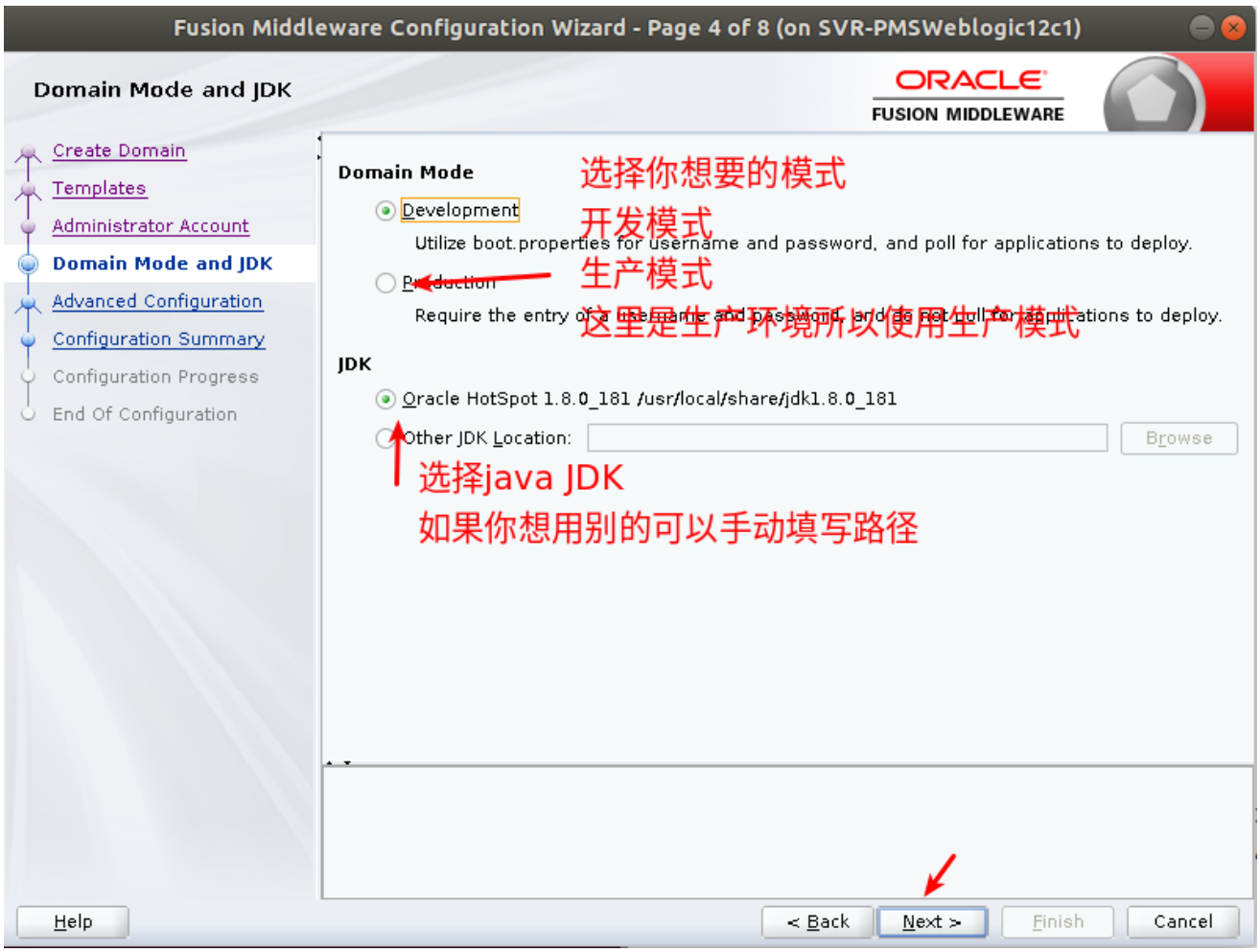
- 运行脚本

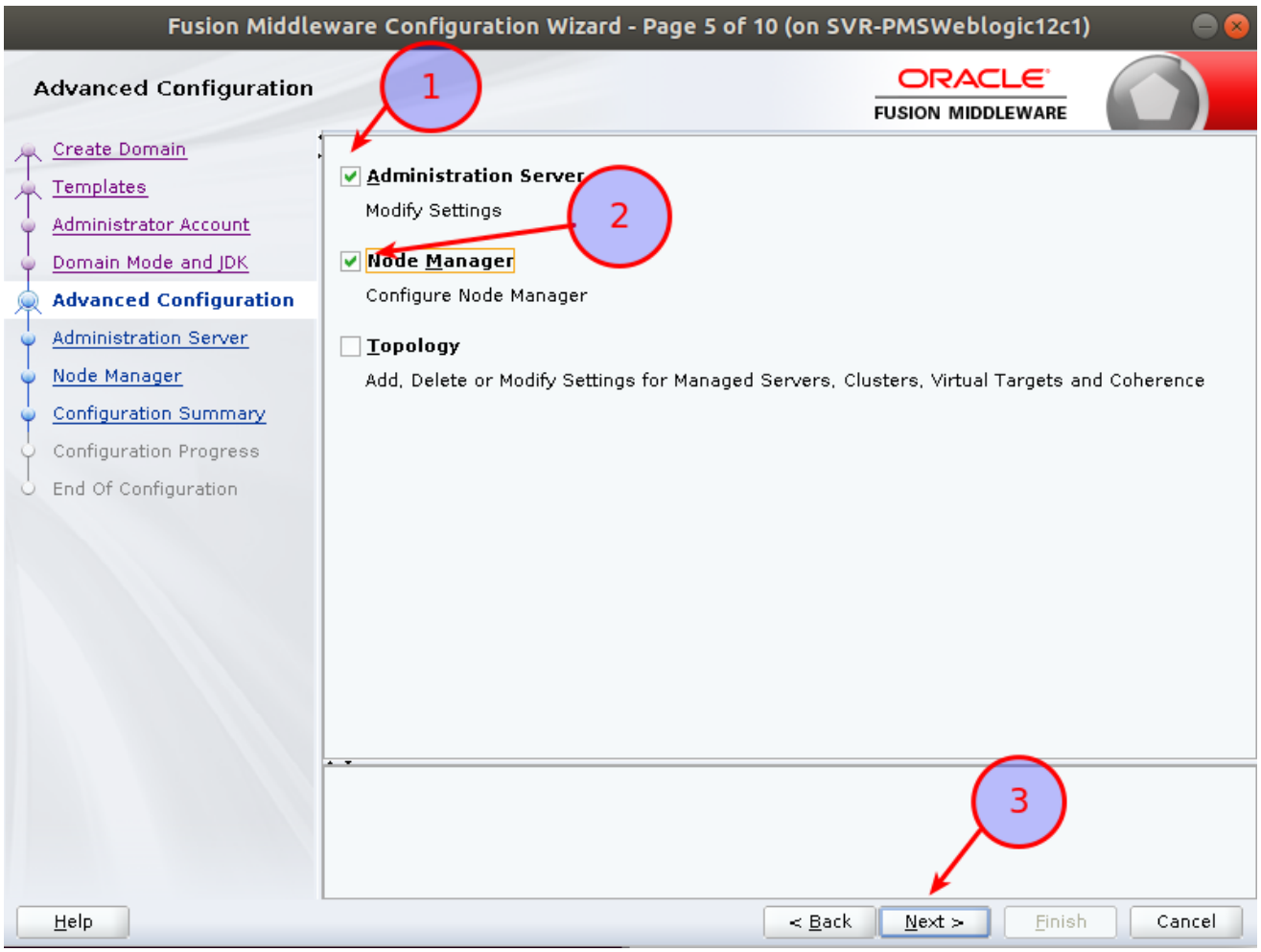
```
./config.sh
```

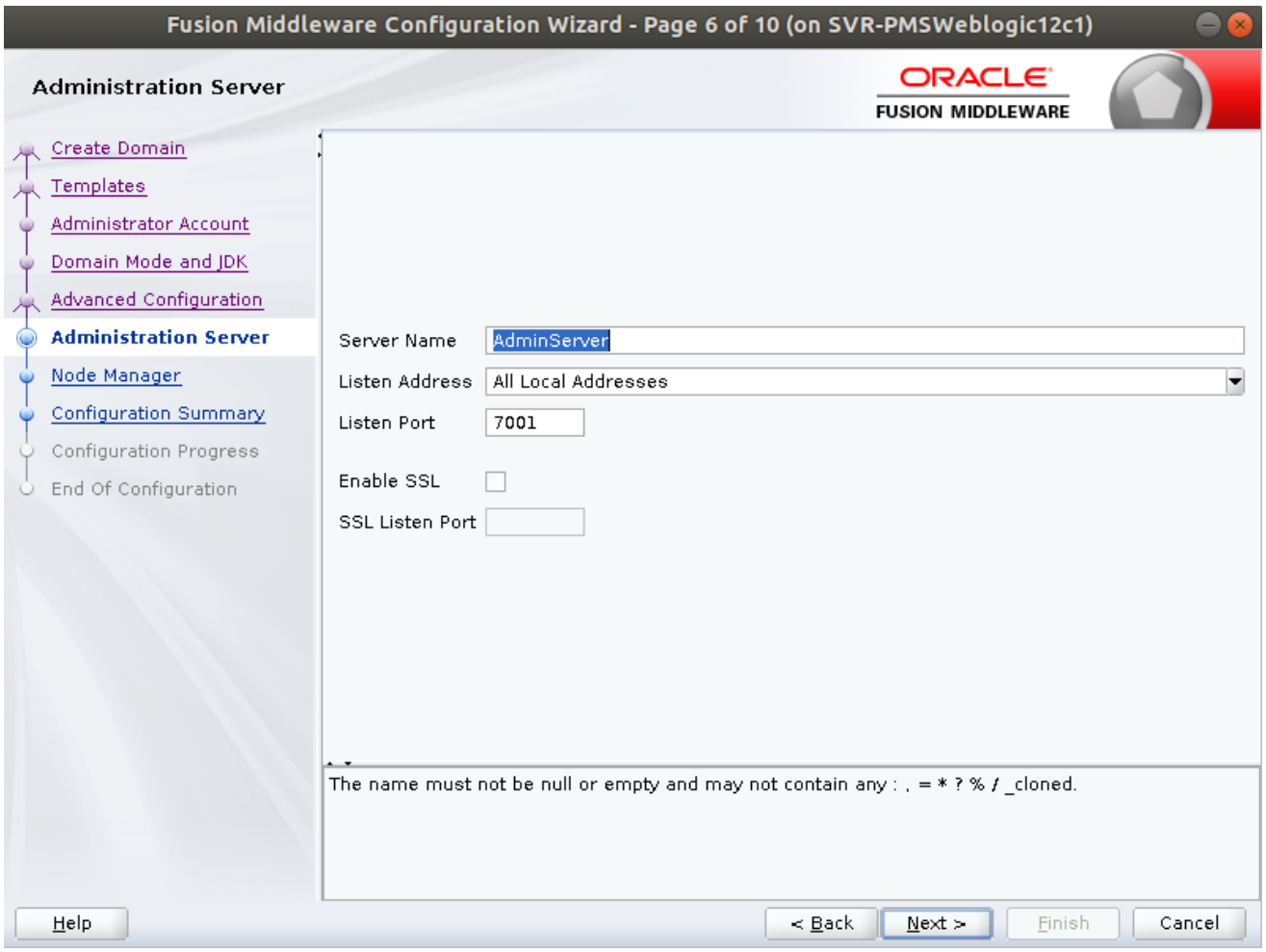

Fusion Middleware Configuration Wizard - Page 1 of 8 (on SVR-PMSWeblogic12c1)
Configuration Type
ORACLE
FUSION MIDDLEWARE
Create Domain
Templates
Administrator Account
Domain Mode and JDK
Advanced Configuration
Configuration Summary
Configuration Progress
End Of Configuration
1
选择创建域
What do you want to do?
Create a new domain
Update an existing domain
2
此处填写你想要的域的名字
Domain Location:
:le/Middleware/Oracle_Home/user_projects/domains/base_domain
Browse
Create a new domain.
3
Help
< Back
Next >
Finish
Cancel

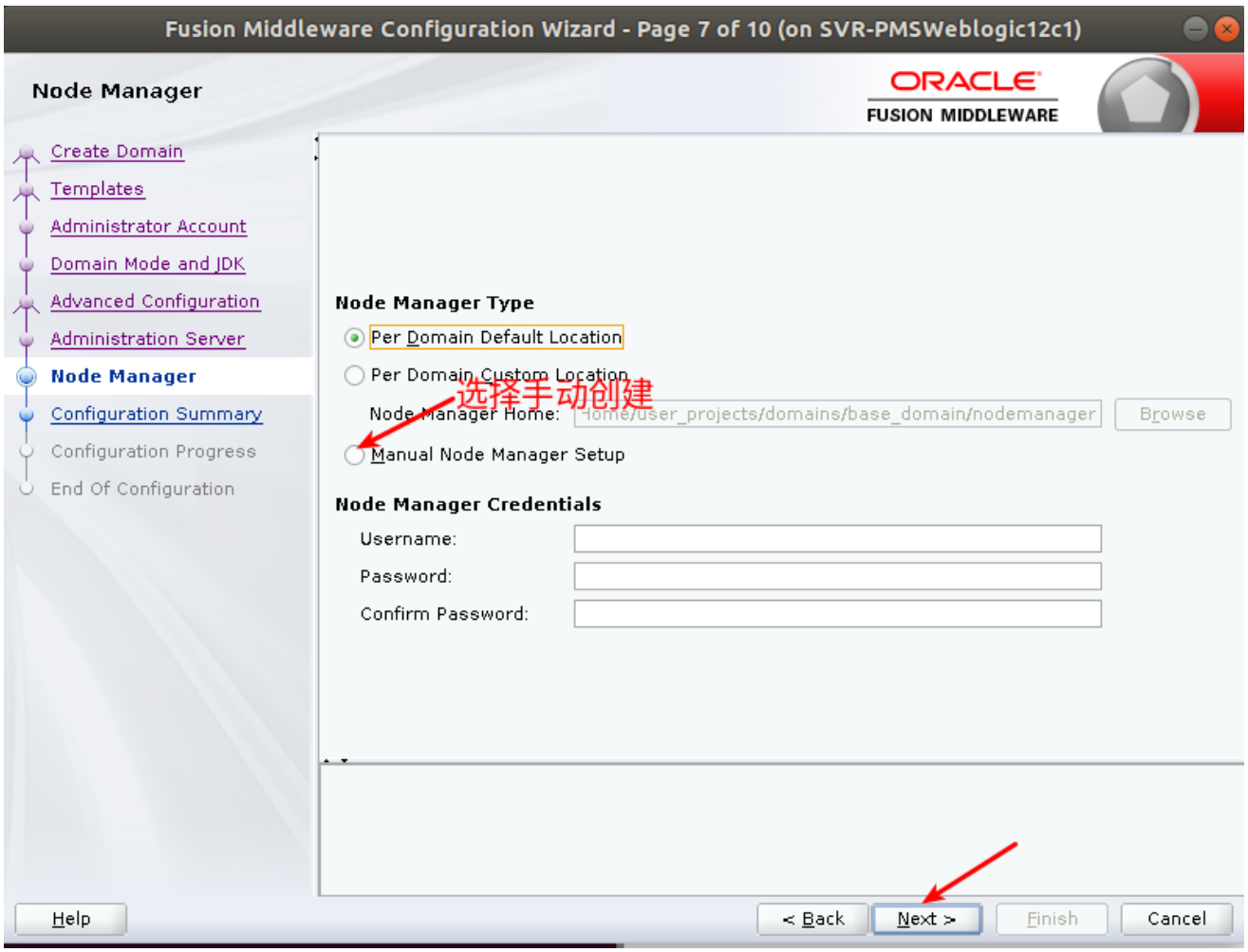

Fusion Middleware Configuration Wizard - Page 2 of 8 (on SVR-PMSWeblogic12c1)
Templates
ORACLE
FUSION MIDDLEWARE
Create Domain
Templates
Administrator Account
Domain Mode and JDK
Advanced Configuration
Configuration Summary
Configuration Progress
End Of Configuration
Create Domain Using Product Templates:
Filter Templates:
Type here...
Include all selected templates
Include all previously applied templates
Available Templates
Basic WebLogic Server Domain - 12.2.1.3.0 [wlserver] *
Oracle Enterprise Manager - 12.2.1.3.0 [em]
Oracle Enterprise Manager-Restricted JRF - 12.2.1.3.0 [em]
Oracle User Messaging Service Basic - 12.2.1.3.0 [oracle_common]
Oracle JRF SOAP/JMS Web Services - 12.2.1.3.0 [oracle_common]
Oracle RAS Session Service - 12.2.1.0 [oracle_common]
Oracle WSM Policy Manager - 12.2.1.3 [oracle_common]
Oracle JRF - 12.2.1.3.0 [oracle_common]
Oracle Restricted JRF - 12.2.1.3.0 [oracle_common]
WebLogic Advanced Web Services for JAX-WS Extension - 12.2.1.3.0 [oracle_common]
MT - Oracle OPSS REST Service Application - 12.2.1.3 [oracle_common]
Create Domain Using Custom Template:
Template location:
/home/weblogic/Oracle/Middleware/Oracle_Home
Browse
Help
< Back
Next >
Finish
Cancel

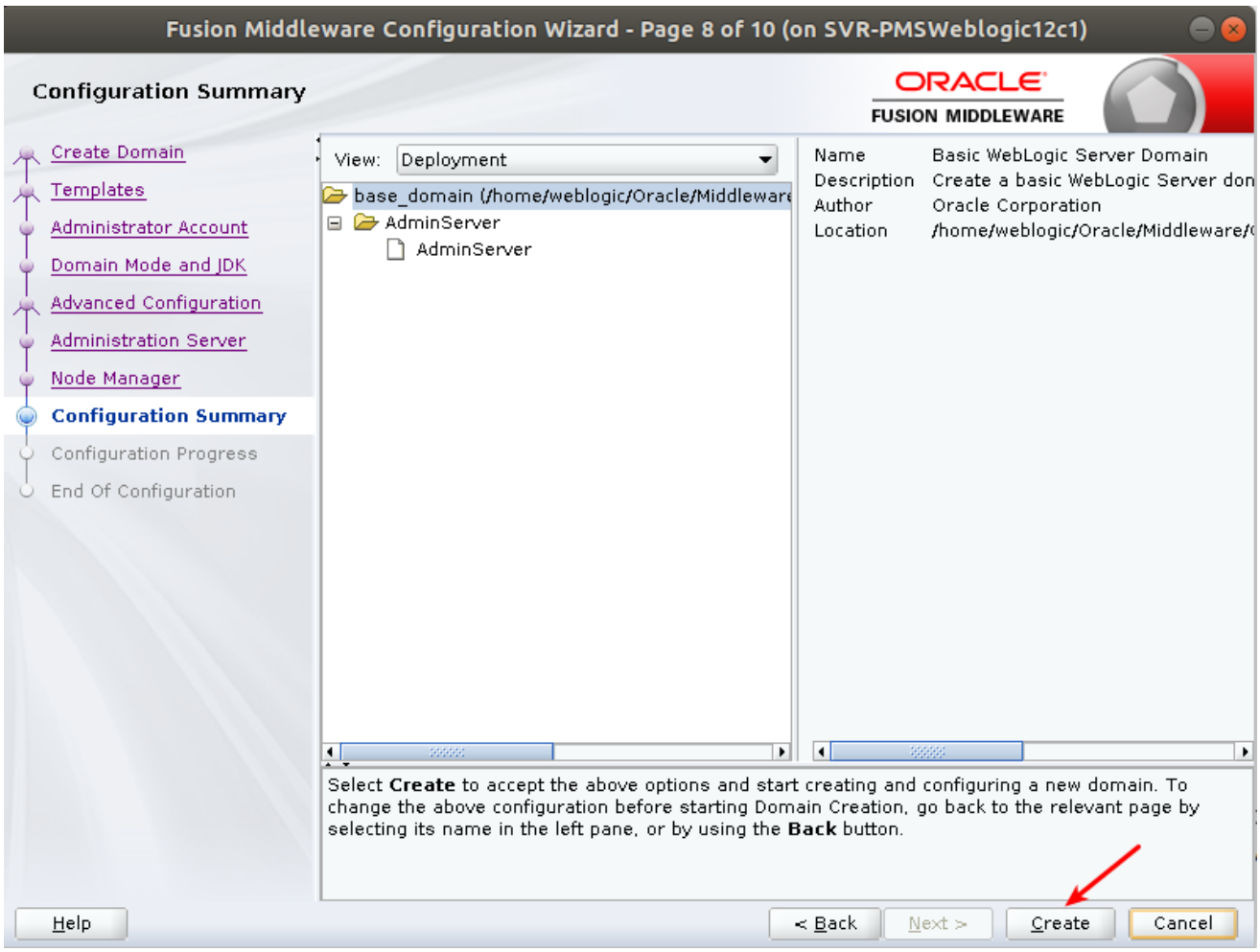

Fusion Middleware Configuration Wizard - Page 3 of 8 (on SVR-PMSWeblogic12c1)
Administrator Account
ORACLE
FUSION MIDDLEWARE
Create Domain
Templates
Administrator Account
Domain Mode and JDK
Advanced Configuration
Configuration Summary
Configuration Progress
End Of Configuration
输入管理域账户管理员的用户名和密码
Name
weblogic
Password
Confirm Password
User name may not contain commas, tabs, or any of the following characters: <>#|&?(){}
Help
< Back
Next >
Finish
Cancel


Fusion Middleware Configuration Wizard - Page 4 of 8 (on SVR-PMSWeblogic12c1)
Domain Mode and JDK
ORACLE
FUSION MIDDLEWARE
Create Domain
Templates
Administrator Account
Domain Mode and JDK
Advanced Configuration
Configuration Summary
Configuration Progress
End Of Configuration
Domain Mode
选择你想要的模式
Development
开发模式
Utilize boot.properties for username and password, and poll for applications to deploy.
Production
生产模式
这里是生产环境所以使用生产模式
Require the entry of a username and password, and do not poll for applications to deploy.
JDK
Oracle HotSpot 1.8.0_181 /usr/local/share/jdk1.8.0_181
Other JDK Location:
Browse
选择java JDK
如果你想用别的可以手动填写路径
Help
< Back
Next >
Finish
Cancel


Fusion Middleware Configuration Wizard - Page 5 of 10 (on SVR-PMSWeblogic12c1)
Advanced Configuration
ORACLE
FUSION MIDDLEWARE
1
Create Domain
Templates
Administrator Account
Domain Mode and JDK
Advanced Configuration
Administration Server
Node Manager
Configuration Summary
Configuration Progress
End Of Configuration
Administration Server
Modify Settings
2
Node Manager
Configure Node Manager
Topology
Add, Delete or Modify Settings for Managed Servers, Clusters, Virtual Targets and Coherence
3
Help
< Back
Next >
Finish
Cancel


Fusion Middleware Configuration Wizard - Page 6 of 10 (on SVR-PMSWeblogic12c1)
Administration Server
ORACLE
FUSION MIDDLEWARE
Create Domain
Templates
Administrator Account
Domain Mode and JDK
Advanced Configuration
Administration Server
Node Manager
Configuration Summary
Configuration Progress
End Of Configuration
Server Name
AdminServer
Listen Address
All Local Addresses
Listen Port
7001
Enable SSL
SSL Listen Port
The name must not be null or empty and may not contain any : , = * ? % / _cloned.
Help
< Back
Next >
Finish
Cancel


Fusion Middleware Configuration Wizard - Page 7 of 10 (on SVR-PMSWeblogic12c1)
Node Manager
ORACLE
FUSION MIDDLEWARE
Create Domain
Templates
Administrator Account
Domain Mode and JDK
Advanced Configuration
Administration Server
Node Manager
Configuration Summary
Configuration Progress
End Of Configuration
Node Manager Type
Per Domain Default Location
Per Domain Custom Location
Node Manager Home:
/home/user_projects/domains/base_domain/nodemanager
Browse
选择手动创建
Manual Node Manager Setup
Node Manager Credentials
Username:
Password:
Confirm Password:
Help
< Back
Next >
Finish
Cancel



初始化**weblogic**管理节点

- 进入weblogic domain目录

```
cd /home/weblogic/Oracle/Middleware/Oracle_Home/user_projects/domains/PMS_domain/bin
```

- 启动weblogic administrator server

```
./startWeblogic.sh
```

- 输入用户名密码(在创建域的时候所设定的管理员用户名和密码)
- 按Ctrl+c 结束命令

设置不使用**weblogic**管理员密码启动管理端

- 进入管理服务器目录

```
cd
/home/weblogic/Oracle/Middleware/Oracle_Home/user_projects/domains/PMS_domain/servers/A
dminServer
```

- 创建目录sercurity 进入security目录

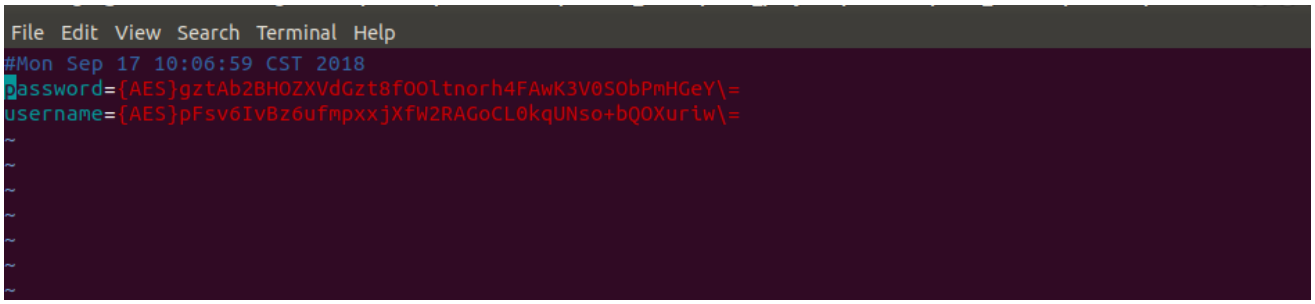
```
mkdir security
cd    security
```

- 创建boot.properties

```
vim boot.properties
```

- 在文件中写入

```
# password and username is the password and username which to create administrator
server
username=weblogic
password=weblogic1
```



- 将./startWeblogic挂载到后台执行

```
nohup ./startWeblogic.sh > nohup.out 2>&1 &
```

- 查看启动进程

```
tail -f nohup.out
```

创建weblgoic 集群

说明

如果使用的是单节点的weblogic服务器,到上一步就可结束,如果有多个weblogic节点想要构成cluster,请将安装weblogic步骤,所产生的文件全部复制到其他节点,并将java 的配置复制一份到相应的节点;

注册Nodemanager

准备工作

- 复制weblogic文件

```
scp -r /home/weblogic/Oracle weblogic@10.96.43.99:/home/weblogic/
```

- 登录到相应的服务器

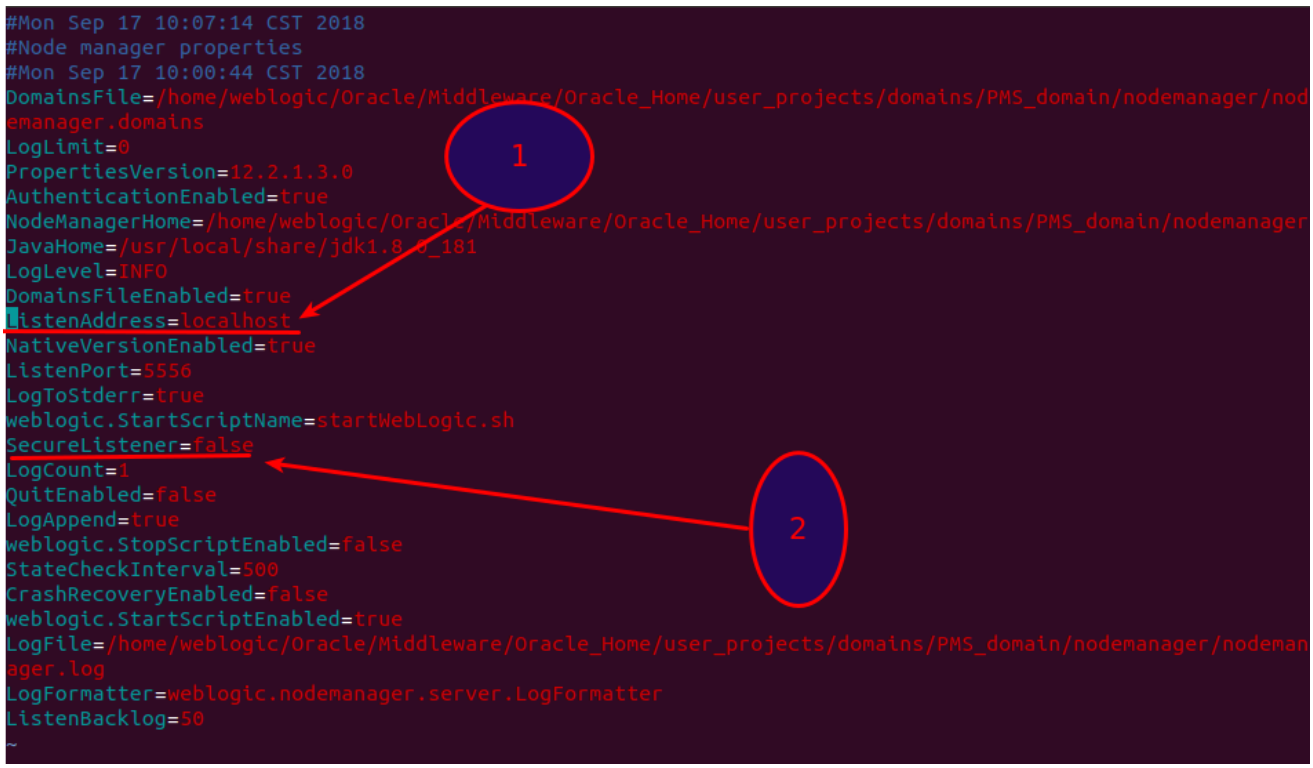
```
ssh weblogic@10.96.43.99
```

- 启动weblogic 管理节点

```
nohup ./startWeblogic.sh > nohup.out 2>&1 &
```

- 修改weblogic nodemanager properties
- 在/home/weblogic/Oracle/Middleware/Oracle_Home/user_projects/domains/PMS_domain/nodemanager目录下有一个nodemanager.properties文件
- 编辑nodemanager.properties文件

```
vim nodemanager.properties
```



注释

1. 如果nodemanager跟管理节点在同一个节点上,这里填写localhost 如果nodemanager 跟管理节点不在同一个节点上,这里填写nodemanager所在节点的IP地址
2. 此处将true改为false

向管理节点注册Nodemanager

- 运行wlst命令模式

```
./wlst.sh
```

```
[weblogic@SVR-PMSWeblogic12c1 bin]$ ls
config.sh  pack.sh  unpack.sh  wlscontrol.sh  wlsifconfig.sh  wlst.sh
[weblogic@SVR-PMSWeblogic12c1 bin]$ ./wlst.sh
WARNING: This is a deprecated script. Please invoke the wlst.sh script under oracle_common/common/bin.

Initializing WebLogic Scripting Tool (WLST) ...

Welcome to WebLogic Server Administration Scripting Shell

Type help() for help on available commands

wls:/offline>
```

- 连接管理节点

```
wls:/offline> connect('weblogic','weblogic1','t3://10.96.43.98:7001')
```

```
[weblogic@SVR-PMSWeblogic12c1 bin]$ ./wlst.sh
WARNING: This is a deprecated script. Please invoke the wlst.sh script under oracle_common/common/bin.

Initializing WebLogic Scripting Tool (WLST) ...

Welcome to WebLogic Server Administration Scripting Shell

Type help() for help on available commands

wls:/offline> connect('weblogic','weblogic1','t3://10.96.43.98:7001')
```

注释 括号内内容从左向右依次为管理节点的用户名,密码,IP:端口号

- 向域中注册Nodemanager

```
wls:/PMS_domain/serverConfig/>
nmEnroll('/home/weblogic/Oracle/Middleware/Oracle_Home/user_projects/domains/PMS_domain
','/home/weblogic/Oracle/Middleware/Oracle_Home/user_projects/domains/PMS_domain/nodema
nager')
```

- 注册成功后退出

```
wls:/PMS_domain/serverConfig/>  exit()
```