

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
```

```
[root@SVR-PMSMongoDB ~]# cd mongo/
[root@SVR-PMSMongoDB mongo]# ls
mongodbs-enterprise-mongos-4.0.2-1.el7.x86_64.rpm  mongodbs-enterprise-tools-4.0.2-1.el7.x86_64.rpm
mongodbs-enterprise-server-4.0.2-1.el7.x86_64.rpm  pms-gridfs
mongodbs-enterprise-shell-4.0.2-1.el7.x86_64.rpm
[root@SVR-PMSMongoDB mongo]# pwd
/home/mongo
[root@SVR-PMSMongoDB mongo]# rpm -ivh mongodbs-enterprise-mongos-4.0.2-1.el7.x86_64.rpm
```

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

```
[root@SVR-PMSMongoDB mongo]# systemctl status mongo.service
Unit mongo.service could not be found.
[root@SVR-PMSMongoDB mongo]# systemctl status mongod.service
● mongod.service - MongoDB Database Server
   Loaded: loaded (/usr/lib/systemd/system/mongod.service; enabled; vendor preset: disabled)
     Active: active (running) since Tue 2018-09-11 15:13:13 CST; 58min ago
       Docs: https://docs.mongodb.org/manual
    Process: 1054 ExecStart=/usr/bin/mongod $OPTIONS (code=exited, status=0/SUCCESS)
    Process: 986 ExecStartPre=/usr/bin/chmod 0755 /var/run/mongod (code=exited, status=0/SUCCESS)
    Process: 971 ExecStartPre=/usr/bin/chown mongod:mongod /var/run/mongodb (code=exited, status=0/SUCCESS)
    Process: 960 ExecStartPre=/usr/bin/mkdir -p /var/run/mongodb (code=exited, status=0/SUCCESS)
   Main PID: 1582 (mongod)
     CGroup: /system.slice/mongod.service
             └─1582 /usr/bin/mongod -f /etc/mongod.conf

Sep 11 15:13:11 SVR-PMSMongoDB systemd[1]: Starting MongoDB Database Server...
Sep 11 15:13:11 SVR-PMSMongoDB mongod[1054]: 2018-09-11T15:13:11.602+0800 I CONTROL [main] Automat...ne'
Sep 11 15:13:11 SVR-PMSMongoDB mongod[1054]: about to fork child process, waiting until server is r...ns.
Sep 11 15:13:11 SVR-PMSMongoDB mongod[1054]: forked process: 1582
Sep 11 15:13:13 SVR-PMSMongoDB mongod[1054]: child process started successfully, parent exiting
Sep 11 15:13:13 SVR-PMSMongoDB systemd[1]: Started MongoDB Database Server.
Hint: Some lines were ellipsized, use -l to show in full.
[root@SVR-PMSMongoDB mongo]# █
```

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
```

```
root@SVR-PMSNginx nginx-1.15.2]# cd /home/
root@SVR-PMSNginx ~]# cd /home/
root@SVR-PMSNginx home]# ls
root+found nginx nginx-1.15.2 README.txt
root@SVR-PMSNginx home]# vim nginx.tar.gz
root@SVR-PMSNginx home]# ls
root+found nginx nginx-1.15.2 nginx.tar.gz README.txt
root@SVR-PMSNginx home]# tar -xzvf nginx.tar.gz
root@SVR-PMSNginx home]# cd nginx-1.15.2/
root@SVR-PMSNginx nginx-1.15.2]# ls
auto    CHANGES.ru  configure  html      Makefile  objs     src
CHANGES  conf       contrib     LICENSE   man      README
root@SVR-PMSNginx nginx-1.15.2]# ./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
Active Internet connections (only servers)
Proto Recv-Q Send-Q Local Address          Foreign Address        State      PID/Program name
tcp        0      0 0.0.0.0:111             0.0.0.0:*            LISTEN     1/systemd
tcp        0      0 0.0.0.0:80              0.0.0.0:*            LISTEN     34272/nginx: master
tcp        0      0 0.0.0.0:22              0.0.0.0:*            LISTEN     981/sshd
tcp        0      0 127.0.0.1:631            0.0.0.0:*            LISTEN     945/cupsd
tcp        0      0 127.0.0.1:25              0.0.0.0:*            LISTEN     1610/master
tcp        0      0 10.96.43.97:95            0.0.0.0:*            LISTEN     1422/python
tcp6       0      0 ::1:111                ::*:*                 LISTEN     1/systemd
tcp6       0      0 ::1:22                 ::*:*                 LISTEN     981/sshd
tcp6       0      0 ::1:631                ::*:*                 LISTEN     945/cupsd
tcp6       0      0 ::1:125                ::*:*                 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
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
```

Installation Inventory Setup**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:
Enter the full path for the directory.

Operating System Group :
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 identify the location of the central inventory for future installations and administrative operations, such as patching and upgrade.

Welcome

- [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.

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Auto Updates

- [Welcome](#)
- [Auto Updates](#)
- [Installation Location](#)
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- [Installation Summary](#)
- [Installation Progress](#)
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 Skip Auto Updates Select patches from directory

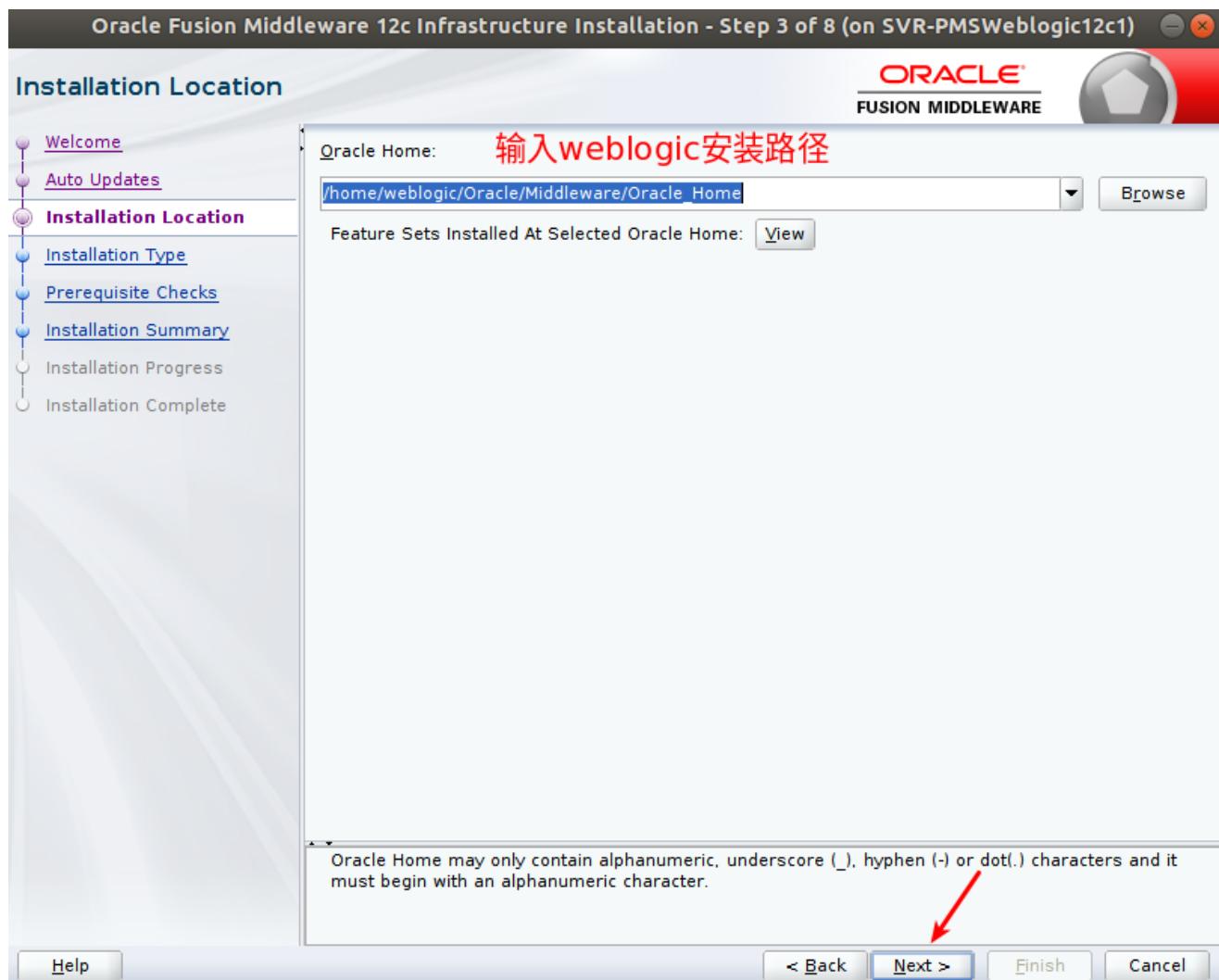
Location:

[Browse](#) Search My Oracle Support for Updates

Username:

Password:

[Proxy Settings](#)[Test Connection](#)[Search](#)[< Back](#)[Next >](#)[Finish](#)[Cancel](#)[Help](#)



Installation Type

- [Welcome](#)
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- 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

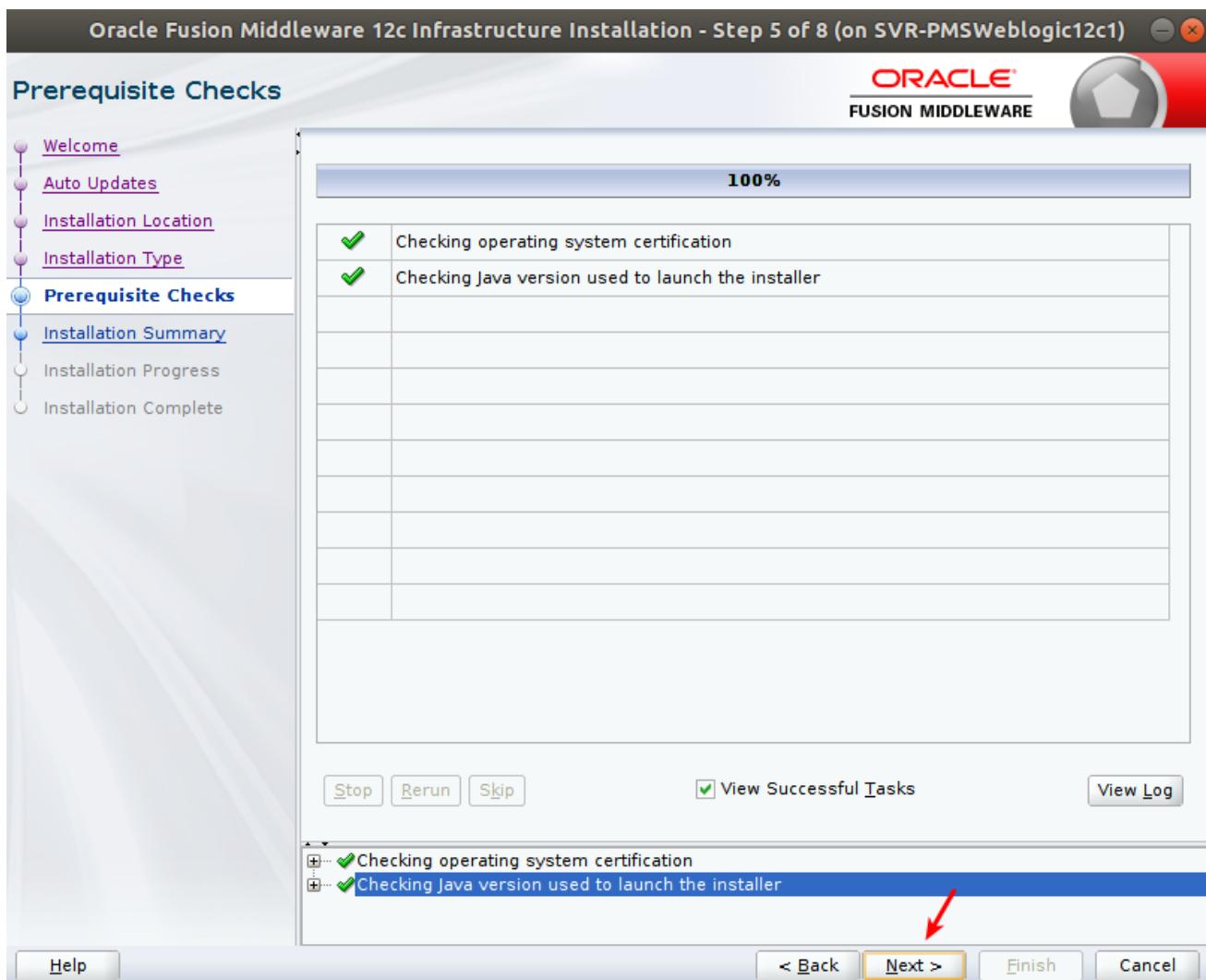
Help

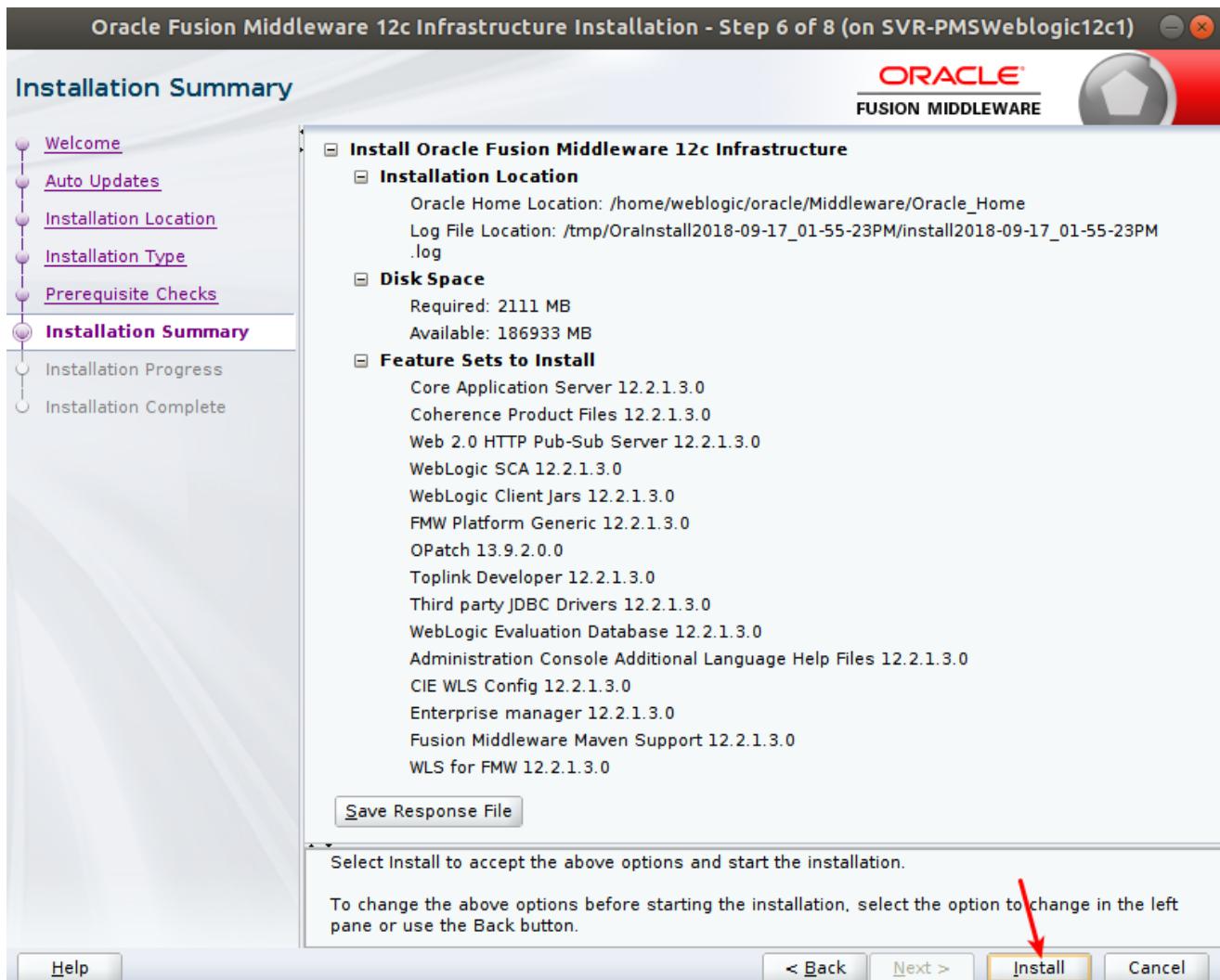
< Back

Next >

Finish

Cancel





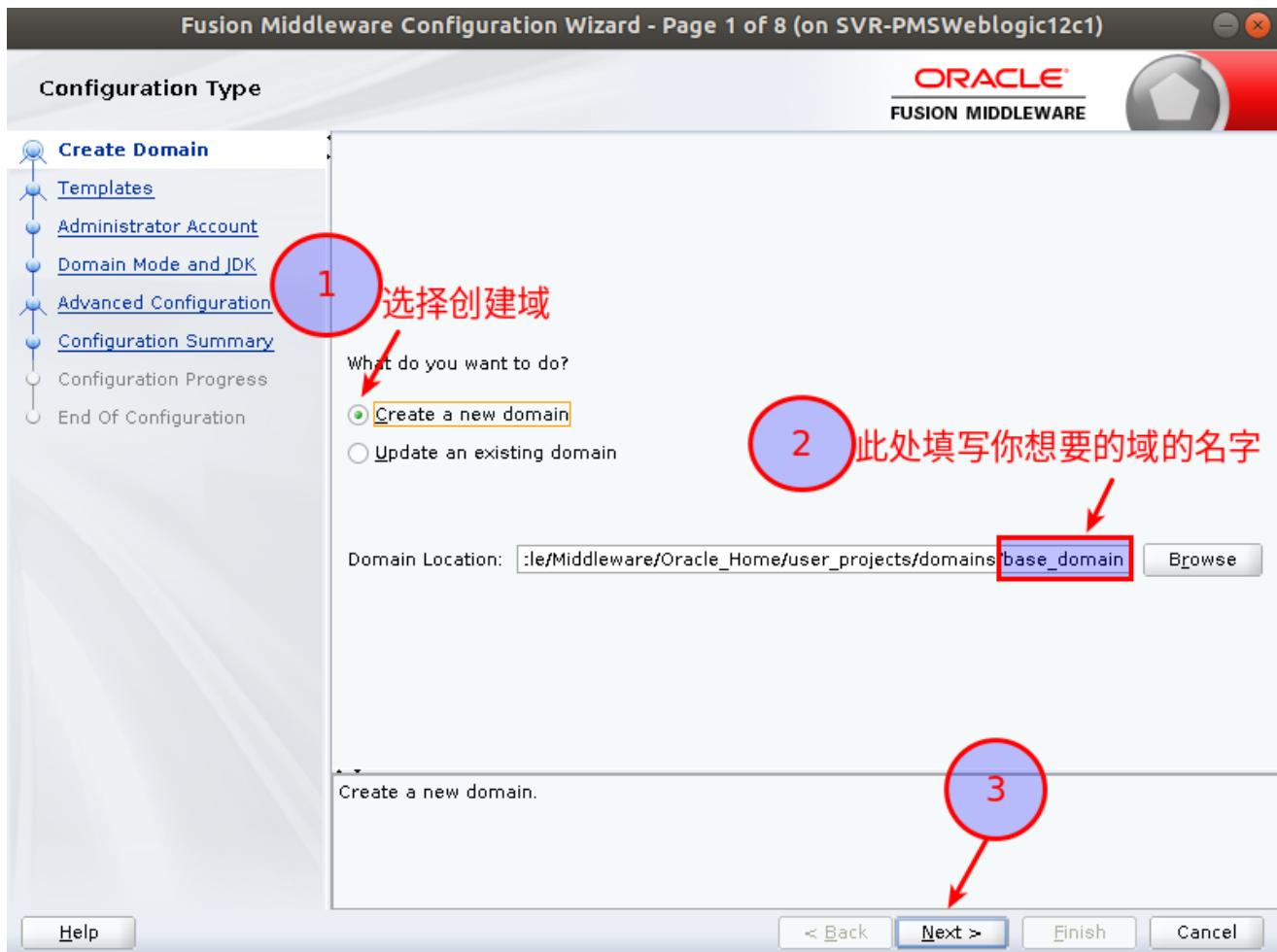
创建Weblogic域

- 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
```



**Templates**

- [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: 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:

**Administrator Account**

- [Create Domain](#)
- [Templates](#)
- Administrator Account**
 - [Domain Mode and JDK](#)
 - [Advanced Configuration](#)
 - [Configuration Summary](#)
- [Configuration Progress](#)
- [End Of Configuration](#)

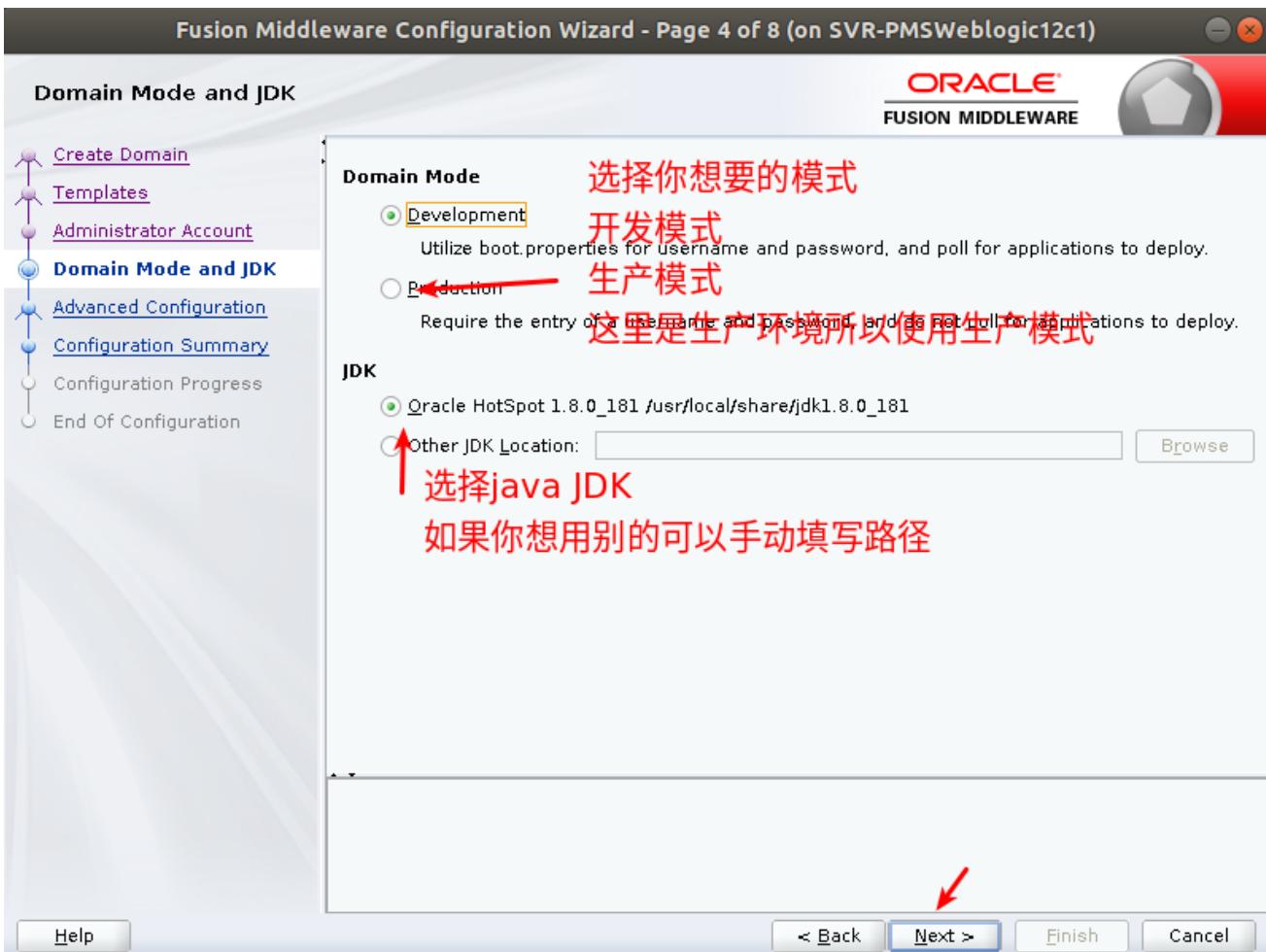
输入管理域账户管理员的用户名和密码

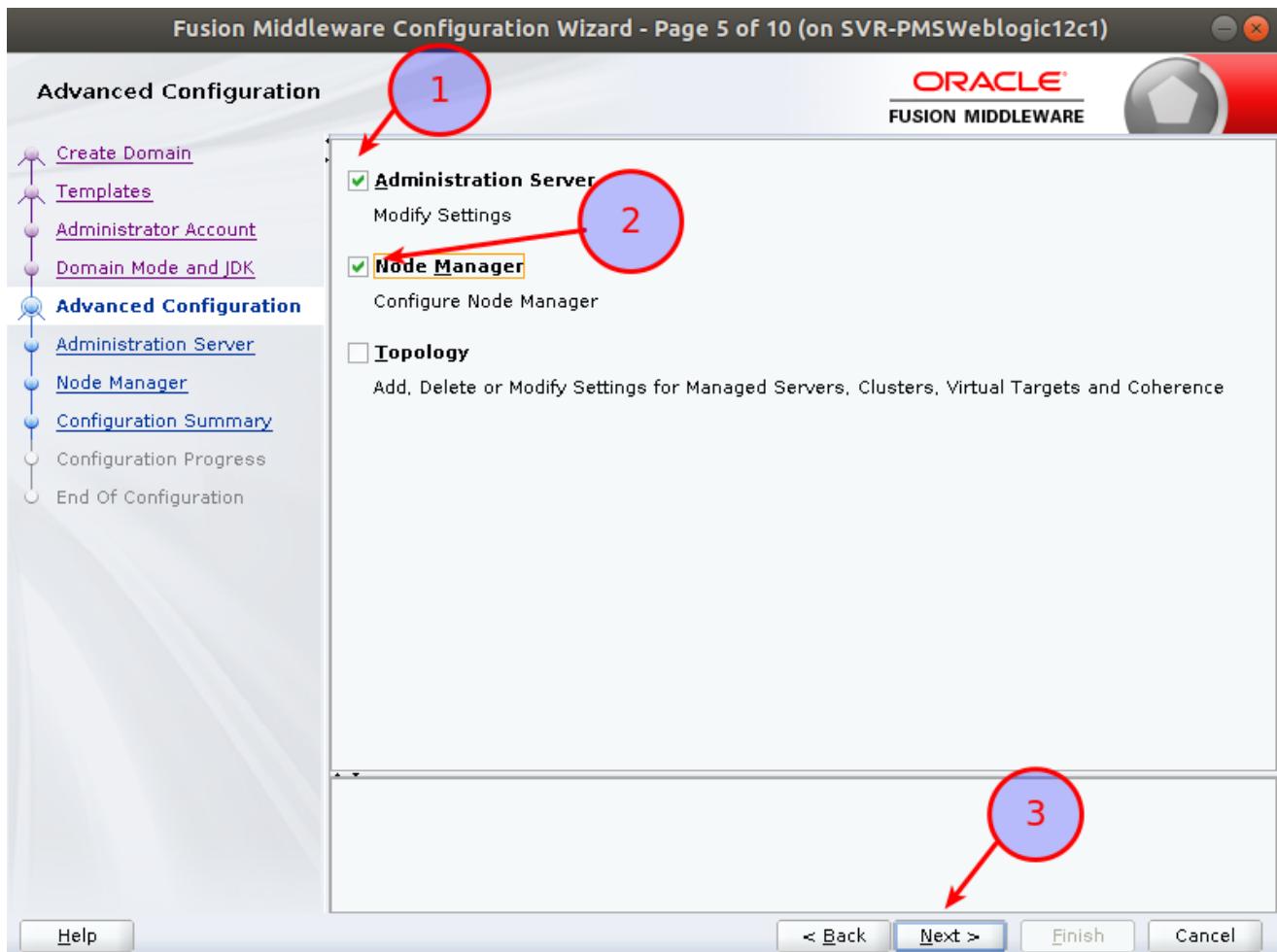
Name	weblogic
Password	*****
Confirm Password	*****

User name may not contain commas, tabs, or any of the following characters: <>#|&?{}[]

< Back **Next >** Finish Cancel







**Administration Server**

- [Create Domain](#)
- [Templates](#)
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- Administration Server**
 - [Node Manager](#)
 - [Configuration Summary](#)
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- [End Of Configuration](#)

Server Name Listen Address Listen Port Enable SSL SSL Listen Port

The name must not be null or empty and may not contain any : , = * ? % / _cloned.

[Help](#)[< Back](#)[Next >](#)[Finish](#)[Cancel](#)

**Node Manager**

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- [Advanced Configuration](#)
- [Administration Server](#)
- Node Manager**
- [Configuration Summary](#)
- [Configuration Progress](#)
- [End Of Configuration](#)

Node Manager Type Per Domain Default Location Per Domain Custom LocationNode Manager Home: Manual Node Manager Setup**Node Manager Credentials**

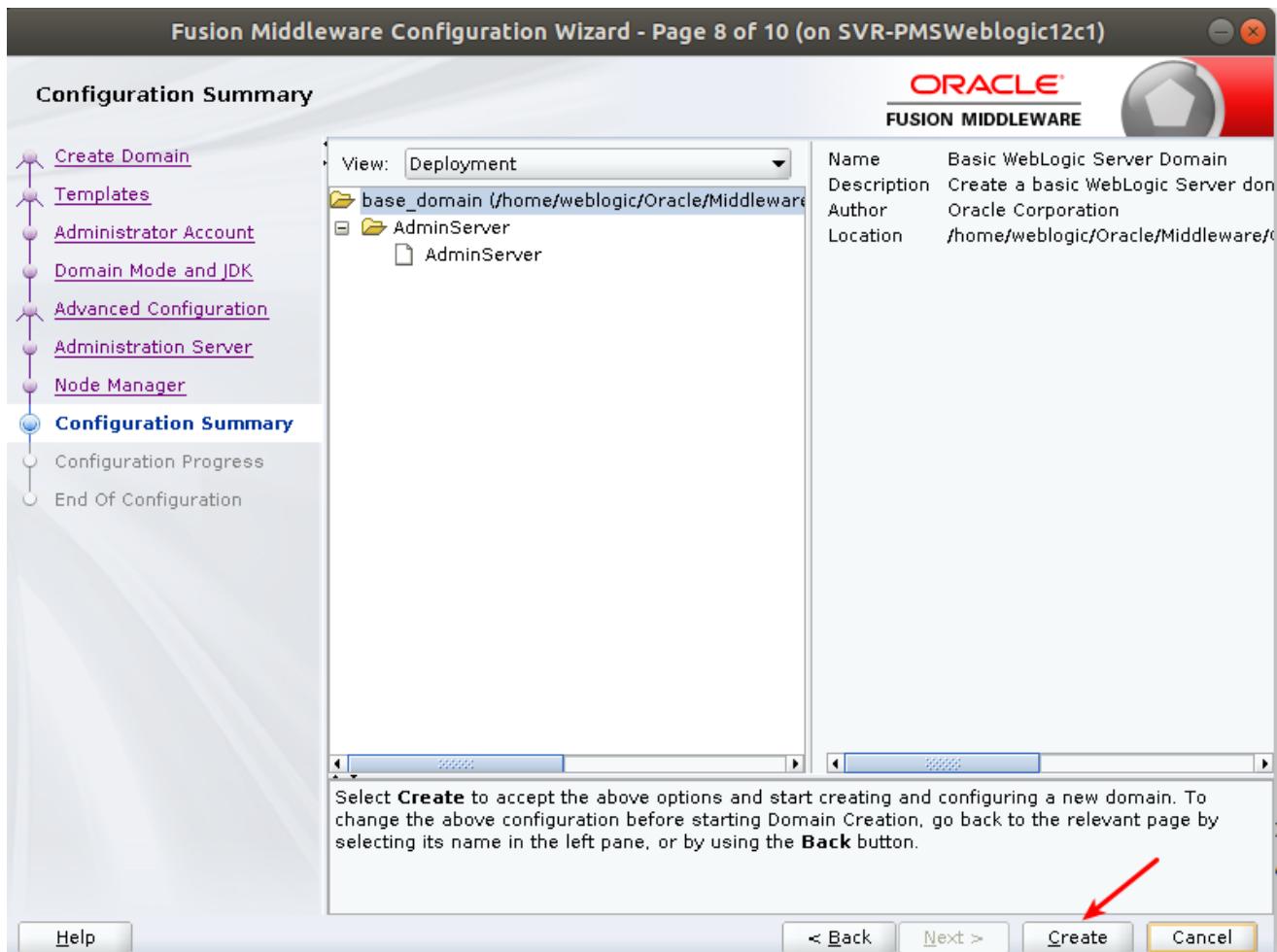
Username:

Password:

Confirm Password:

选择手动创建





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/AdminServer
```

- 创建目录security 进入security目录

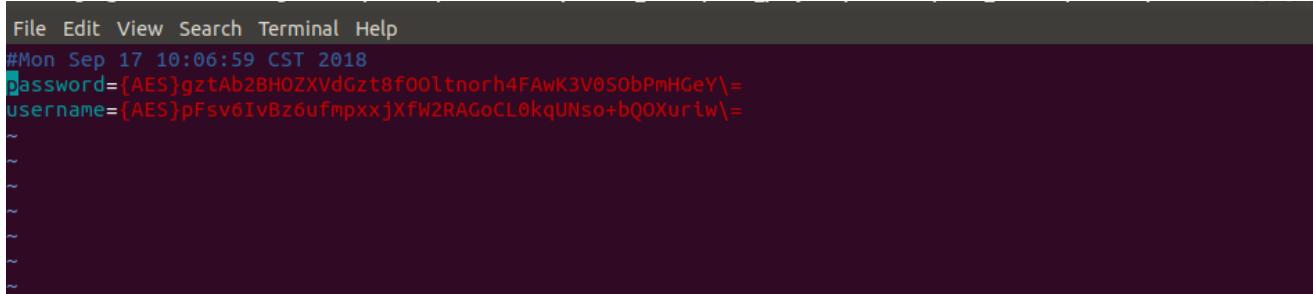
```
mkdir security  
cd security
```

- 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
```



```
File Edit View Search Terminal Help  
#Mon Sep 17 10:06:59 CST 2018  
password=[AES]gztAb2BHOZVdGzt8f00lnorh4FAwK3V0S0bPmHGeY\=  
username=[AES]pFsv6IvBz6ufmpxxjXfw2RAGoCL0kqUNso+bQOXuriw\=  
~  
~  
~  
~  
~  
~  
~
```

- 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weblogic 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
```

```
#Mon Sep 17 10:07:14 CST 2018
#Node manager properties
#Mon Sep 17 10:00:44 CST 2018
DomainsFile=/home/weblogic/Oracle/Middleware/Oracle_Home/user_projects/domains/PMS_domain/nodemanager/nodemanager.domains
LogLimit=0
PropertiesVersion=12.2.1.3.0
AuthenticationEnabled=true
NodeManagerHome=/home/weblogic/Oracle/Middleware/Oracle_Home/user_projects/domains/PMS_domain/nodemanager
JavaHome=/usr/local/share/jdk1.8.0_181
LogLevel=INFO
DomainsfileEnabled=true
ListenAddress=localhost
NativeVersionEnabled=true
ListenPort=5556
LogToStderr=true
weblogic.StartScriptName=startWebLogic.sh
SecureListener=false
LogCount=1
QuitEnabled=false
LogAppend=true
weblogic.StopScriptEnabled=false
StateCheckInterval=500
CrashRecoveryEnabled=false
weblogic.StartScriptEnabled=true
LogFile=/home/weblogic/Oracle/Middleware/Oracle_Home/user_projects/domains/PMS_domain/nodemanager/nodemanager.log
LogFormatter=weblogic.nodemanager.server.LogFormatter
ListenBacklog=50
~
```

注释

- 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
- 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 common]$ cd bin  
[weblogic@SVR-PMSWeblogic12c1 bin]$ ls  
config.sh pack.sh unpack.sh wlscontrol.sh wlstconfig.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()
```

建立集群

登录**weblogic**管理节点



创建集群

Change Center

No pending changes exist. Click the Release Configuration button to allow others to edit the domain.

Domain Structure

- PMS_domain
 - + Domain Partitions
 - Clusters (1)
 - Session Templates
 - Replicable Targets
 - Coherence Clusters
 - Resource Groups
 - Resource Group Templates
 - Machines
 - Virtual Hosts
 - Virtual Targets
 - Work Managers

How do I...

- Configure clusters
- Assign server instances to clusters
- Configure server migration in a cluster
- Configure cross-cluster replication
- Create dynamic clusters
- Configure elasticity for a dynamic cluster
- Perform on-demand scaling for a dynamic cluster

System Status

Health of Running Servers as of 5:04 PM

Failed (0)	Critical (0)
Overloaded (0)	Warning (0)
OK (4)	

- 1.点击集群
- 2.锁定并编辑
- 3.点击new下拉列表中的cluster选项创建集群

编辑集群信息

ORACLE WebLogic Server Administration Console 12c

Change Center

No pending changes exist. Click the **Release Configuration** button to allow others to edit the domain.

Create a New Cluster

Cluster Properties

The following properties will be used to create your new cluster.

* indicates required fields

What would you like to name your new cluster?

* Name: Cluster-U

Messaging Mode:

Unicast Broadcast Channel:

Multicast Address: 239.192.0.0

Multicast Port: 7001

OK Cancel

Domain Structure

PMS_domain

- Domain Partitions
- Environment
 - Servers
 - Clusters
 - Server Templates
 - Migratable Targets
 - Coherence Clusters
 - Resource Groups
 - Resource Group Templates
 - Machines
 - Virtual Hosts
 - Virtual Targets
 - Work Managers

How do I...

- Configure clusters
- Assign server instances to clusters
- Configure server migration in a cluster
- Configure cross-cluster replication
- Create dynamic clusters

System Status

Health of Running Servers as of 5:05 PM

Failed (0)
Critical (0)
Overloaded (0)
Warning (0)
Ok (4)

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- 1. 填写集群名称
- 2. 选择集群类型(两种都可选)
- 3. 点击ok保存
- 4. 点击激活更改

创建计算机

ORACLE WebLogic Server Administration Console 12c

Change Center

View changes and restarts

Pending changes exist. They must be activated to take effect.

Activate Changes

Undo All Changes

Summary of Machines

A machine is the logical representation of the computer that hosts one or more WebLogic Server instances (servers). WebLogic Server uses configured machine names to determine the optimum server in machine definition in conjunction with Node Manager to start remote servers.

This page displays key information about each machine that has been configured in the current WebLogic Server domain.

Customize this table

Machines

New	Clone	Delete
Name	Type	
server1	Unix Machine	
server2	Unix Machine	

New Clone Delete

Domain Structure

PMS_domain

- Domain Partitions
- Environment
 - Servers
 - Clusters
 - Server Templates
 - Migratable Targets
 - Coherence Cluster
 - Resource Groups
 - Resource Group Templates
 - Machines
 - Virtual Hosts
 - Virtual Targets
 - Work Managers

How do ...

- Create and configure machines
- Assign server instances to machines

- 1. 点击machines
- 2. 点击锁定并编辑
- 3. 点击new 开始创建计算机

ORACLE WebLogic Server Administration Console 12c

Create a New Machine

Machine Identity

The following properties will be used to identify your new Machine.

* Indicates required fields

What would you like to name your new Machine?

* Name: **Machine-0**

Specify the type of machine operating system.

Machine OS: **Other**

Back **Next** Finish Cancel

- 1. 填写计算机名称
- 2. 点击next进入下一步

ORACLE WebLogic Server Administration Console 12c

Create a New Machine

Node Manager Properties

The following properties will be used to configure the Node Manager on this machine.

What type of Node Manager is running on this server, and what protocol should be used to communicate with it?

Type: **Plain**

For a Java based node manager, what address and port is this Node Manager configured to listen at?

Listen Address: **10.96.43.98**

Listen Port: **5556**

For a script based node manager, additional properties may be configured.

Node Manager Home:

Shell Command:

Debug Enabled **Finish**

Back Next Cancel

- 1. 选择普通模式(Plain)
- 2. 填写监听地址(填写内容为物理机的IP地址)
- 3. 填写监听端口(默认值为5556,可不做更改)
- 4. 点击finish

- 5. 激活更改 说明 这里我们有两台物理机,所以以上过程要走两遍

ORACLE WebLogic Server Administration Console 12c

Change Center

View changes and restarts

Pending changes exist. They must be activated to take effect.

Activate Changes
 Undo All Changes

Domain Structure

PMS_domain

- Domain Partitions
- Environment
 - Servers
 - Clusters
 - Server Templates
 - Migratable Targets
 - Coherence Clusters
 - Resource Groups
 - Resource Group Templates
 - Machines**
- Virtual Hosts
- Virtual Targets
- Work Managers

How do I...

- Create and configure machines
- Assign server instances to machines
- Clone machines

Summary of Machines

A machine is the logical representation of the computer that hosts one or more WebLogic Server instances (servers). WebLogic Server uses configured machine names to determine the optimum server in a cluster definition in conjunction with Node Manager to start remote servers.

This page displays key information about each machine that has been configured in the current WebLogic Server domain.

Customize this table

Name	Type
server1	Unix Machine
server2	Unix Machine

New | Clone | Delete

为集群创建服务器

ORACLE WebLogic Server Administration Console 12c

Change Center

View changes and restarts

No pending changes exist. Click the Release Configuration button to allow others to edit the domain.

Lock & Edit
 Release Configuration

Domain Structure

PMS_domain

- Domain Partitions
- Environment**
 - Servers**
 - Clusters
 - Coherence Clusters
 - Resource Groups
 - Resource Group Templates
 - Machines
 - Virtual Hosts
 - Virtual Targets
 - Work Managers
 - Concurrent Templates
 - Resource Management

How do I...

- Create Managed Servers
- Clone servers
- Delete Managed Servers
- Delete the Administration Server
- Start and stop servers

Summary of Servers

A server is an instance of WebLogic Server that runs in its own Java Virtual Machine (JVM) and has its own configuration.

This page summarizes each server that has been configured in the current WebLogic Server domain.

Customize this table

Name	Type	Cluster	Machine	Status
AdminServer(admin)	Configured			RUI
PmsServer1	Configured	PMSCluster	server1	RUI
PmsServer2	Configured	PMSCluster	server2	RUI
proxy-server	Configured		server2	RUI

New | Clone | Delete

- 1.点击server
- 2.点击锁定并编辑
- 3.点击new,开始为集群创建服务器

Server Properties

The following properties will be used to identify your new server.

* Indicates required fields

What would you like to name your new server?

* **Server Name:** Server-0 (1)

Where will this server listen for incoming connections?

Server Listen Address: 10.96.43.99 (2)

Server Listen Port: 7003 (3)

Should this server belong to a cluster?

No, this is a stand-alone server.

Yes, make this server a member of an existing cluster. (4)

Select a cluster:

Yes, create a new cluster for this server.

PMSCluster (5)

Back | Next | Finish | Cancel (6)

WebLogic Server Version: 12.2.1.3.0
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国外 Imported From 知识 qime与mother Gmail 哔哩哔哩弹幕视频 百度一下, 你就 bowtie里的FM Linux 太阳能电池片 dd命令全

ORACLE WebLogic Server Administration Console 12c

Change Center

View changes and restarts

No pending changes exist. Click the Release Configuration button to allow others to edit the domain.

Lock & Edit (7) (highlighted)
Release Configuration

Domain Structure

PMS_domain

- + Domain Partitions
- + Environment
 - Servers
 - + Clusters
 - Coherence Clusters
 - Resource Groups
 - Resource Group Templates
 - Machines
 - Virtual Hosts
 - Virtual Targets
 - Work Managers
 - Concurrent Templates
 - Resource Management

Create a New Server

Review choices

Review the selections. If these are correct, click Finish to create this server.

Server Name: Server-0

Server Listen Address: 10.96.43.99

Server Listen Port: 7003

Back | Next | Finish | Cancel

- 1. 填写服务器名称
- 2. 填写服务器所运行的物理机的地址
- 3. 填写服务器的监听地址(一般为7003)
- 4. 将服务器加入到集群中
- 5. 点击next,finish查看信息或完成
- 6. 点击next,finish查看信息或完成
- 7. 激活更改

Domain Structure

- PMS_domain
 - Domain Partitions
 - Environment
 - Servers
 - Clusters
 - Coherence Clusters
 - Resource Groups
 - Resource Group Templates
 - Machines
 - Virtual Hosts
 - Virtual Targets
 - Work Managers
 - Concurrent Templates
 - Resource Management

How do I...:

- Create Managed Servers
- Clone servers
- Delete Managed Servers
- Delete the Administration Server
- Start and stop servers
- View objects in the JNDI tree

View changes and restarts

Changes exist. They must be activated to take effect.

Activate Changes Undo All Changes

Domain Structure

- MS_domain
 - Domain Partitions
 - Environment
 - Servers
 - Clusters
 - Coherence Clusters
 - Resource Groups
 - Resource Group Templates
 - Machines
 - Virtual Hosts
 - Virtual Targets
 - Work Managers
 - Concurrent Templates
 - Resource Management

How do I...:

- Configure default network connections
- Create and configure machines
- Configure clusters
- Start and stop servers
- Configure WLDF diagnostic volume
- Apply a server template

System Status

Health of Running Servers as of 10:27 AM

Failed (0)	Critical (0)	Overloaded (0)	Warning (0)	OK (4)
------------	--------------	----------------	-------------	--------

Configuration | Control

A server is an instance of WebLogic Server that runs in its own Java Virtual Machine (JVM) and has its own configuration.

This page summarizes each server that has been configured in the current WebLogic Server domain.

Customize this table

Servers (Filtered - More Columns Exist)

New Clone Delete	Name	Type	Cluster	Machine	Status
AdminServer(admin)	Configured				RUNNING
PmsServer1	Configured	PMSCluster	server1		RUNNING
PmsServer2	Configured	PMSCluster	server2		RUNNING
proxy-server	Configured				RUNNING
Server-0	Configured	PMSCluster			SHUTTING DOWN
New Clone Delete					

Settings for Server-0

Configuration | Protocols | Logging | Debug | Monitoring | Control | Deployments | Services | Security | Notes

General Cluster Services Keystores SSL Federation Services Deployment Migration Tuning Overload Concurrency Health Monitoring Server Start Web Services Coherence

Save

Use this page to configure general features of this server such as default network communications.

Name: Server-0

Template: (No value specified) Change

Machine: server1

Cluster: PMSCluster

Listen Address: 10.96.43.99

Listen Port Enabled

Listen Port: 7003

SSL Listen Port Enabled

SSL Listen Port: 7002

Client Cert Proxy Enabled

Java Compiler: javac

Diagnostic Volume: Low

Default Datasource:

- 1.选择刚创建的服务器
- 2.在计算机(machine)选项中选择对应IP地址的计算机

启动服务器

View changes and restarts

Click the Lock & Edit button to modify, add or delete items in this domain.

Lock & Edit Release Configuration

Domain Structure

- PMS_domain
 - Domain Partitions
 - Environment
 - Servers
 - Clusters
 - Coherence Clusters
 - Resource Groups
 - Resource Group Templates
 - Machines
 - Virtual Hosts
 - Virtual Targets
 - Work Managers
 - Concurrent Templates
 - Resource Management

How do I...:

- Start and stop servers
- Start Managed Servers from the Administration Console
- Restart SSL
- Start Managed Servers in Admin mode
- Start Managed Servers in a cluster
- Configure the domain-wide administration port

System Status

Summary of Servers

Configuration | Control

Use this page to change the state of the servers in this WebLogic Server domain. Control operations on Managed Servers require starting the Node Manager. Starting Managed Servers in Standby mode requires the domain-wide administration port.

Customize this table

Servers (Filtered - More Columns Exist)

Start Resume Suspend Shutdown Restart SSL	Server	Machine	State	Status of Last Action
	AdminServer(admin)		RUNNING	None
<input checked="" type="checkbox"/>	PmsServer1	server1	RUNNING	None
<input checked="" type="checkbox"/>	PmsServer2	server2	RUNNING	None
	proxy-server		RUNNING	None
Start Resume Suspend Shutdown Restart SSL				

- 1.选择控制页面(control)
- 2.选中刚创建的文件服务器
- 3.点击start,启动服务器

- 4.状态变为runing的时候,则表示启动成功

P6EPPM

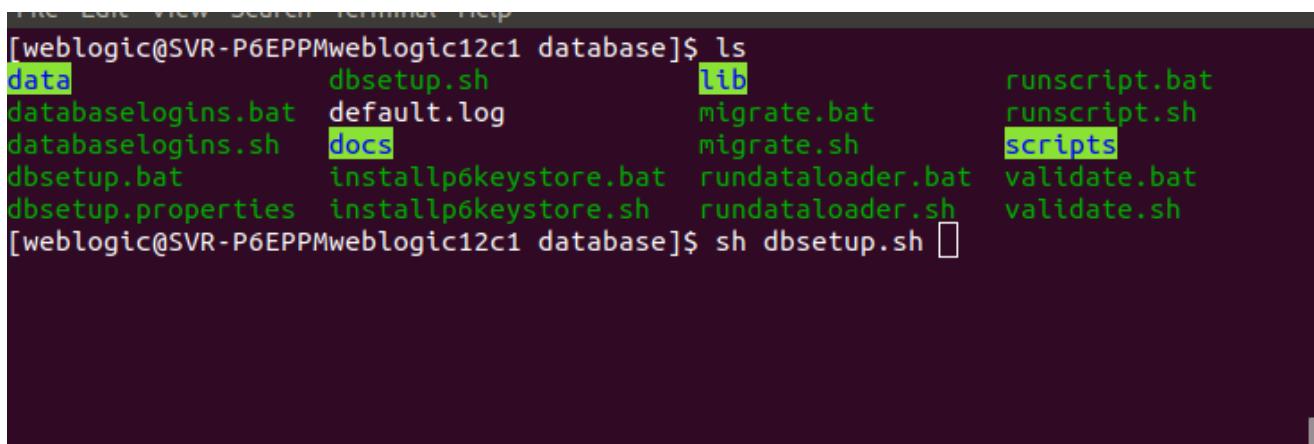
初始化数据库

运行赋权脚本

- 初始化数据库之前先运行脚本
- 脚本位置为p6suite/database/scripts/install/PM_17_12_00/manual_script_before_install.sql

运行安装命令

```
cd p6suite/database  
sh dbsetup.sh
```



The screenshot shows a terminal window with the following command and its output:

```
[weblogic@SVR-P6EPPMweblogic12c1 database]$ ls  
data          dbsetup.sh      lib          runscript.bat  
database.logins.bat default.log    migrate.bat  runscript.sh  
database.logins.sh  docs        migrate.sh   scripts  
dbsetup.bat     installp6keystore.bat rundataloader.bat validate.bat  
dbsetup.properties  installp6keystore.sh  rundataloader.sh validate.sh  
[weblogic@SVR-P6EPPMweblogic12c1 database]$ sh dbsetup.sh
```

连接数据库

Primavera Database Setup Wizard (on SVR-P6EPPMweblogic12c1)

Primavera P6

Install or Upgrade Primavera P6 databases

Database options Install a new database
 Upgrade an existing database

Server type Oracle
 Microsoft SQL Server

Create Read Only User

[Next >](#)

[Cancel](#)

Primavera Database Setup Wizard (on SVR-P6EPPMweblogic12c1)

Connection Information

Enter the information required to connect to the database server

DBA user name

DBA password

Database host address

Database host port

Database name
 SID Service

Keystore Folder

If database already uses a p6keystore.jks file for
password encryption, please provide the folder
where this file can be found. Otherwise, leave this
field blank

[< Previous](#)

[Next >](#)

[Cancel](#)

- 填写相应的连接信息

创建P6用户

Database Users				
	Username	Password	Confirm Password	
Administrative	admuser	*****	*****	✓
Privileged	privuser	*****	*****	✓
Public	pubuser	*****	*****	✓
Background	bgjobuser	*****	*****	✓
Reporting	pxrptuser	*****	*****	✓

Application User	
Administrative Username	admin
Administrative User Password	<input type="password"/>
Confirm Password	<input type="password"/>

- 用户名不要做改动,密码和用户名相同
- 下面设置p6网页登录的用户名和密码

安装P6 API

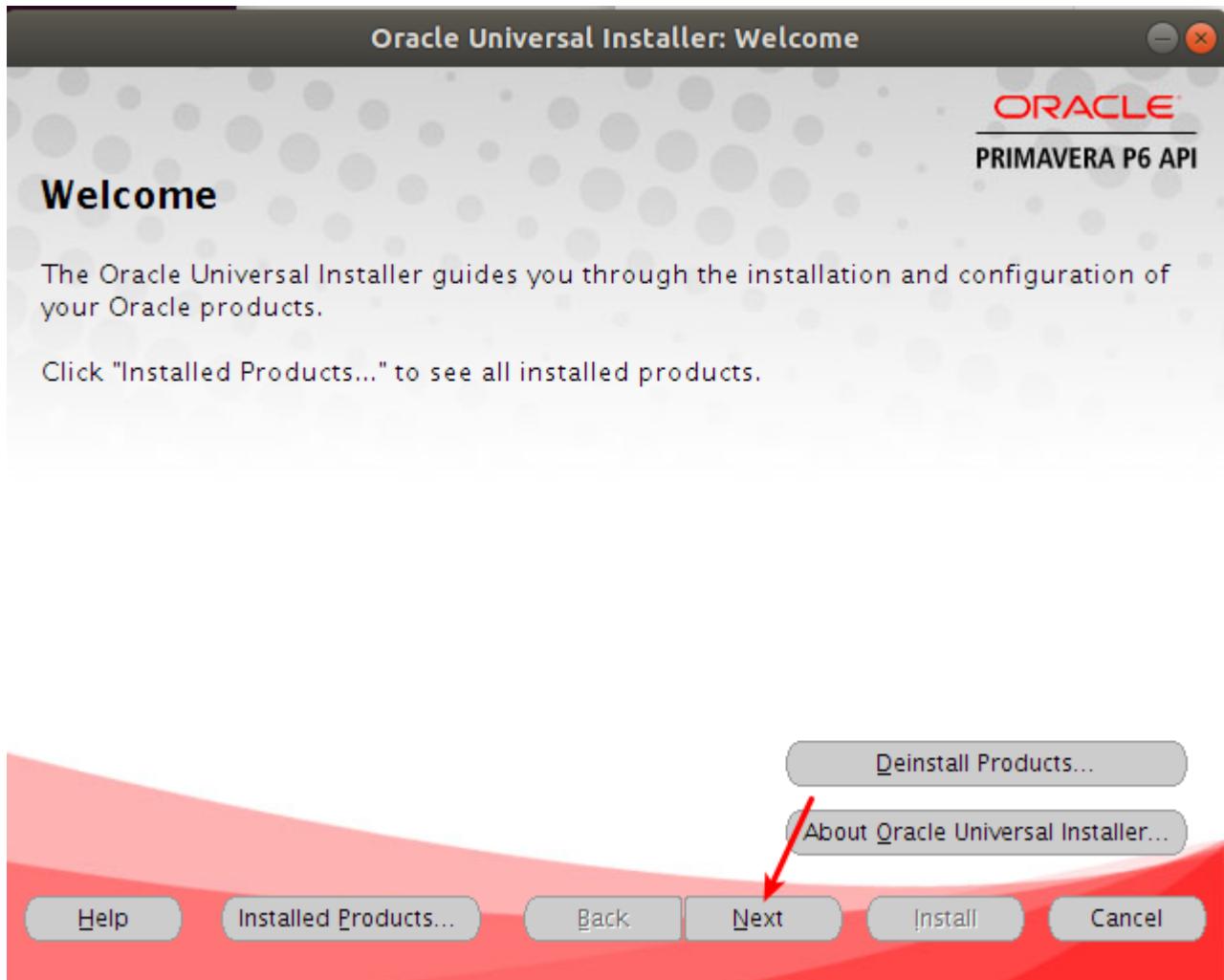
进入API安装目录

```
cd P6_R1712_Integration_API_linux/Disk1/install
```

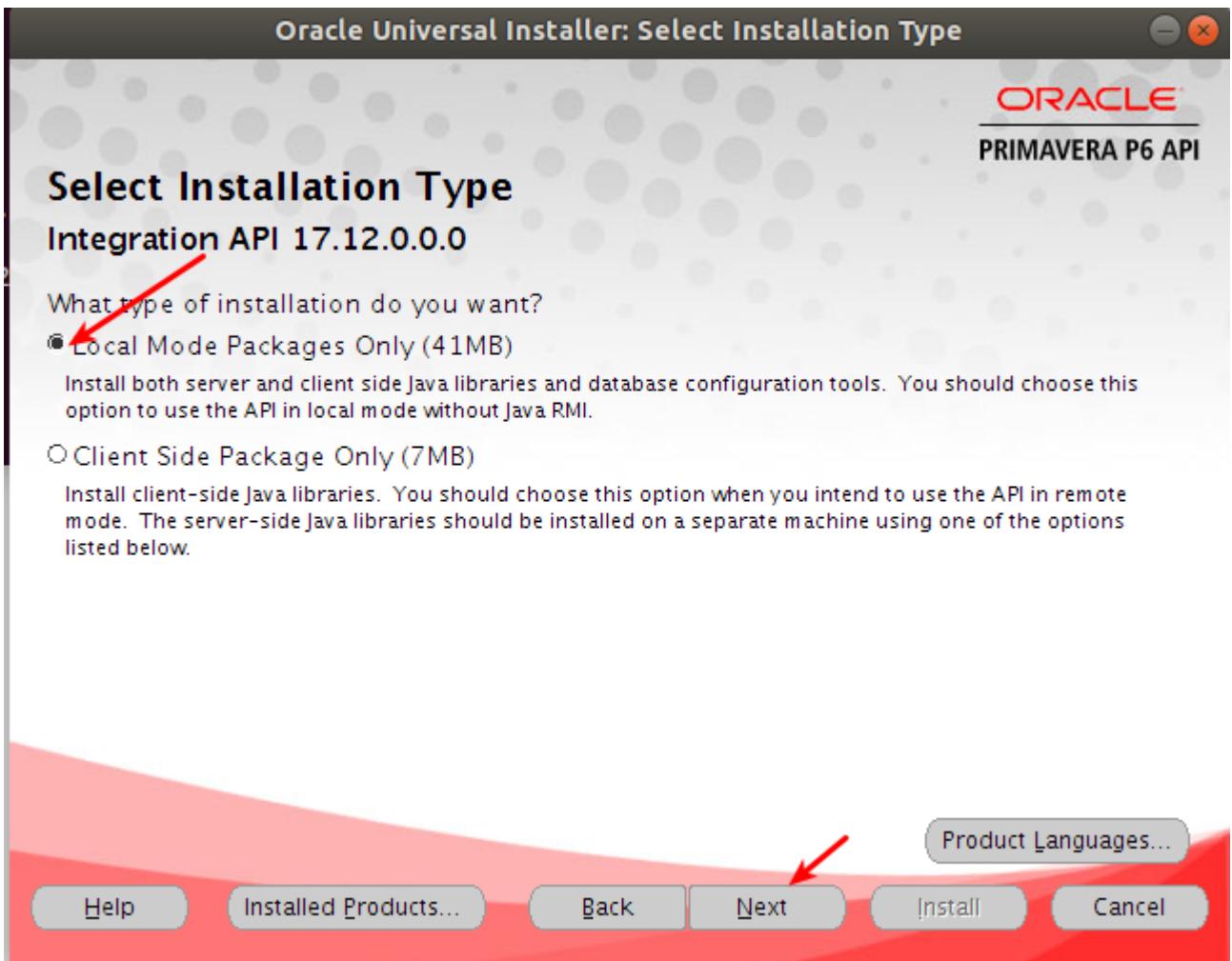
```
[weblogic@SVR-P6EPPMweblogic12c1 Install_package]$ cd P6_R1712_Integration_API_l  
inux/Disk1/install  
[weblogic@SVR-P6EPPMweblogic12c1 install]$ ls  
addLangs.sh      lsnodes          resource        unzip  
attachHome.sh    oneclick.properties runInstaller  
clusterparam.ini oraparam.ini      runInstaller.sh  
detachHome.sh    oraparamsilent.ini runSSHSetup.sh  
[weblogic@SVR-P6EPPMweblogic12c1 install]$ sh runInstaller.sh
```

运行安装命令

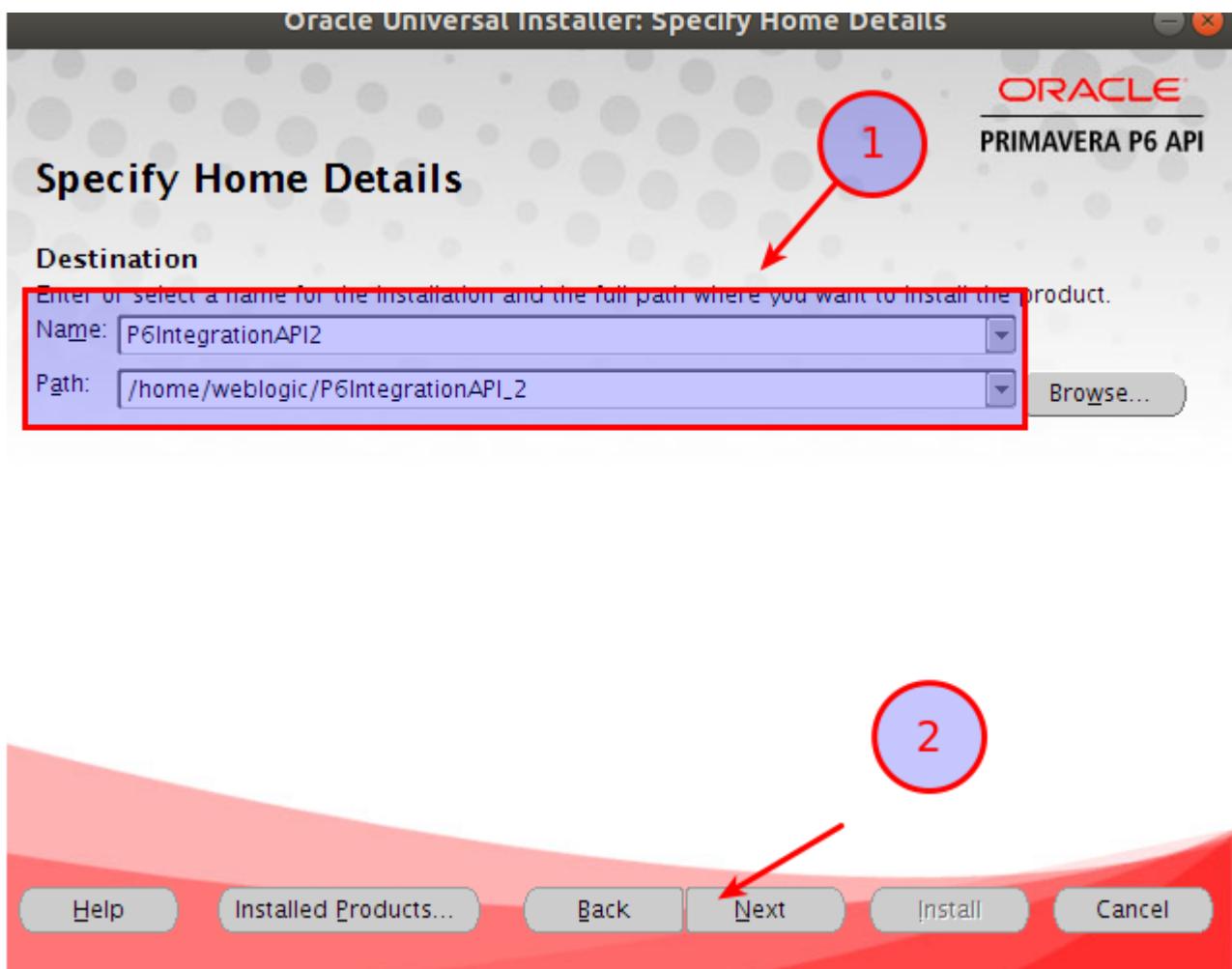
```
sh runInstaller.sh
```



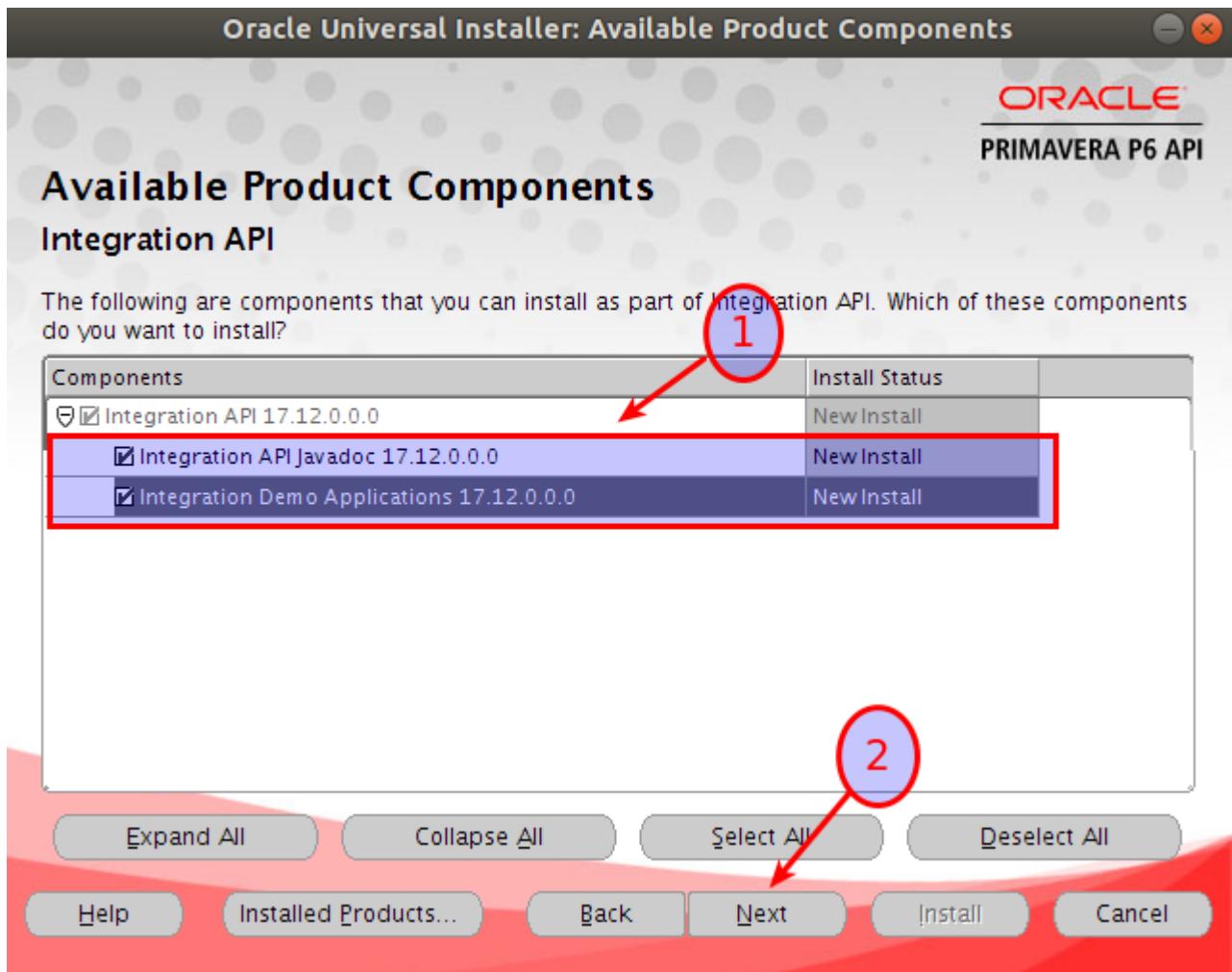
- 点击next进入下一步



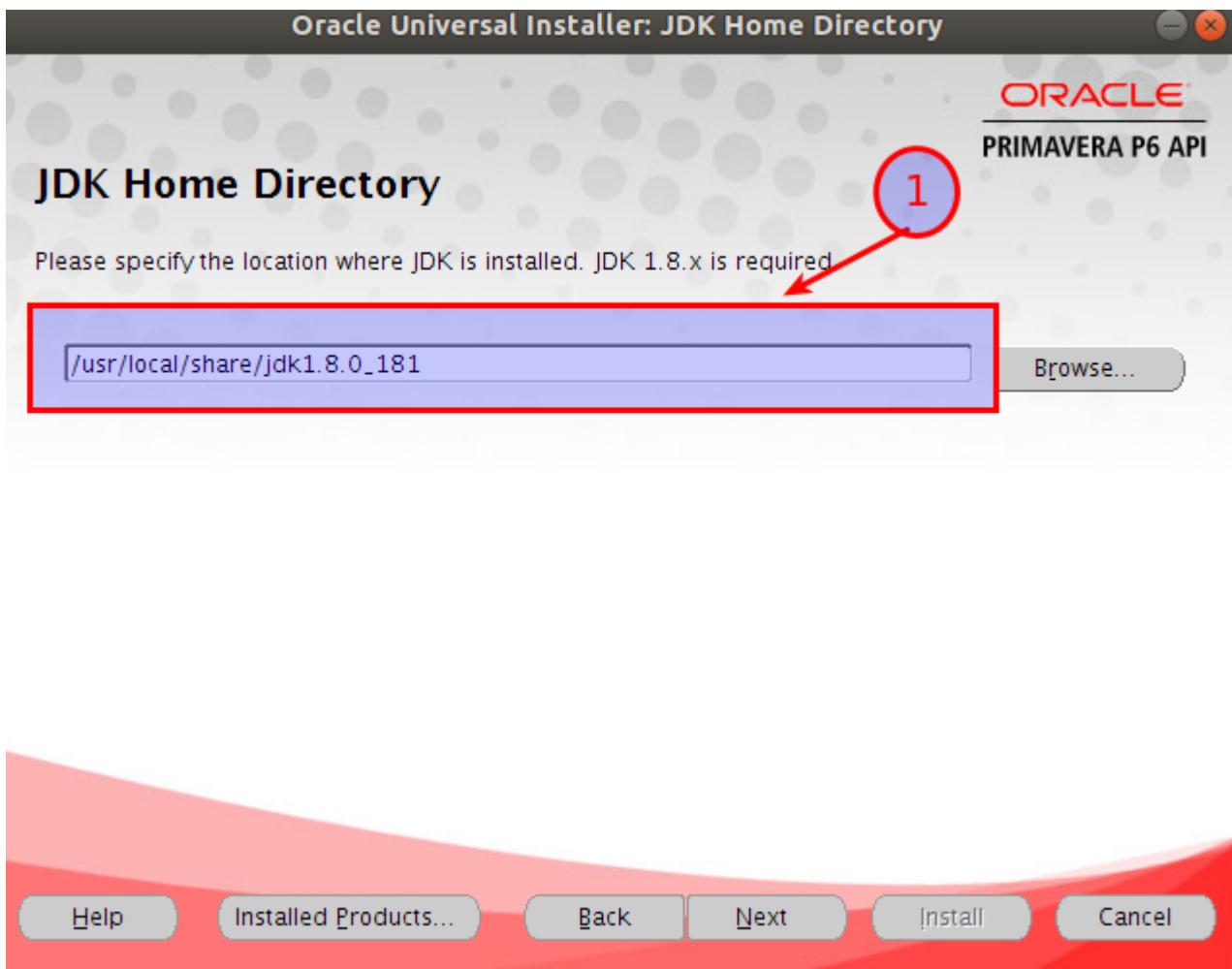
- 选择local mode的安装模式
- 点击next 进入下一步



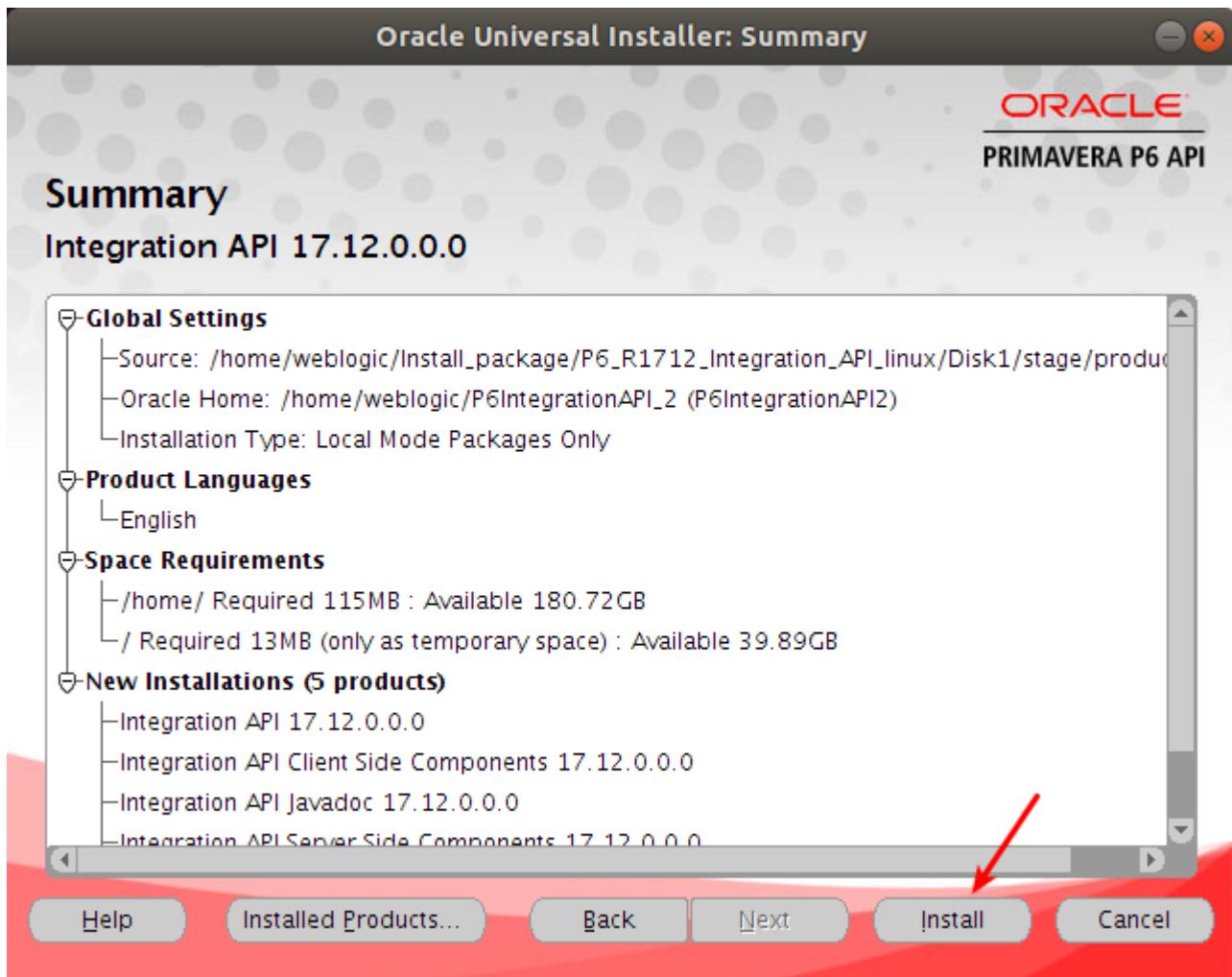
- 填写API文件夹的名字
- 填写API文件夹的路径(这里要记住,后面要用)



- 选择安装选项
- 点击next进入下一步



- 填写Java JDK路径
- 点击next进入下一步



- 检查确认安装信息
- 点击install,开始安装

为P6 API配置Weblogic域

[考 上一章 weblogic 配置过程为p6 创建域\(按住ctrl点击跳转\)](#)

```
cd /home/weblogic/Oracle/Middleware/Oracle_Home/user_projects/domains/p6eppm_domain/bin
```

编辑setDomainEnv.sh

```
vim setDomainEnv.sh
```

```

config      fileRealm.properties    original      shutdown-AdminServer.py
console-ext init-info           pending       startWebLogic.sh
[weblogic@SVR-P6EPPMweblogic12c1 p6eppm_domain]$ cd bin/
[weblogic@SVR-P6EPPMweblogic12c1 bin]$ ls
generateArchive.sh  service_migration      startRSDaemon.sh
nodemanager        setDomainEnv.sh        startWebLogic.sh
node.out           setNMJavaHome.sh       stopComponent.sh
nohup              setStartupEnv.sh       stopManagedWebLogic.sh
nohup.out          startComponent.sh      stopNodeManager.sh
patching           startManagedWebLogic.sh stopRSDaemon.sh
server_migration   startNodeManager.sh    stopWebLogic.sh
[weblogic@SVR-P6EPPMweblogic12c1 bin]$ pwd
/home/weblogic/Oracle/Middleware/Oracle Home/user_projects/domains/p6eppm_domain
/bin
[weblogic@SVR-P6EPPMweblogic12c1 bin]$ ls
generateArchive.sh  service_migration      startRSDaemon.sh
nodemanager        setDomainEnv.sh        startWebLogic.sh
node.out           setNMJavaHome.sh       stopComponent.sh
nohup              setStartupEnv.sh       stopManagedWebLogic.sh
nohup.out          startComponent.sh      stopNodeManager.sh
patching           startManagedWebLogic.sh stopRSDaemon.sh
server_migration   startNodeManager.sh    stopWebLogic.sh
[weblogic@SVR-P6EPPMweblogic12c1 bin]$ vim setDomainEnv.sh
[weblogic@SVR-P6EPPMweblogic12c1 bin]$

```

编辑weblogic 运行内存

```

WLS_HOME=$WL_HOME/server
export WLS_HOME

WLS_MEM_ARGS_64BIT="-Xms20480m -Xmx20480m"
export WLS_MEM_ARGS_64BIT

WLS_MEM_ARGS_32BIT="-Xms512m -Xmx512m"
export WLS_MEM_ARGS_32BIT

if [ "${JAVA_VENDOR}" != "HP" ] ; then
    if [ "${VM_TYPE}" = "HotSpot" ] ; then
        WLS_MEM_ARGS_64BIT="-Xms20480m -Xmx20480m"
        export WLS_MEM_ARGS_64BIT
        WLS_MEM_ARGS_32BIT="-Xms256m -Xmx512m"
        export WLS_MEM_ARGS_32BIT
    fi
fi

MEM_ARGS_64BIT="${WLS_MEM_ARGS_64BIT}"
export MEM_ARGS_64BIT

MEM_ARGS_32BIT="${WLS_MEM_ARGS_32BIT}"
export MEM_ARGS_32BIT
"setDomainEnv.sh" 566L, 14855C

```

264,17

47%

编辑添加P6 API路径

```

if [ "${WEBLOGIC_EXTENSION_DIRS}" != "" ] ; then
    JAVA_OPTIONS="${JAVA_OPTIONS} -Dweblogic.ext.dirs=${WEBLOGIC_EXTENSION_DIRS}"
fi

JAVA_OPTIONS="${JAVA_OPTIONS} -Dprimavera.bootstrap.home=/home/weblogic/P6IntegrationAPI_1"
export JAVA_OPTIONS

# SET THE CLASSPATH

if [ "${WLP_POST_CLASSPATH}" != "" ] ; then
    if [ "${CLASSPATH}" != "" ] ; then
        JAVA_OPTIONS

```

511.9-16 91%

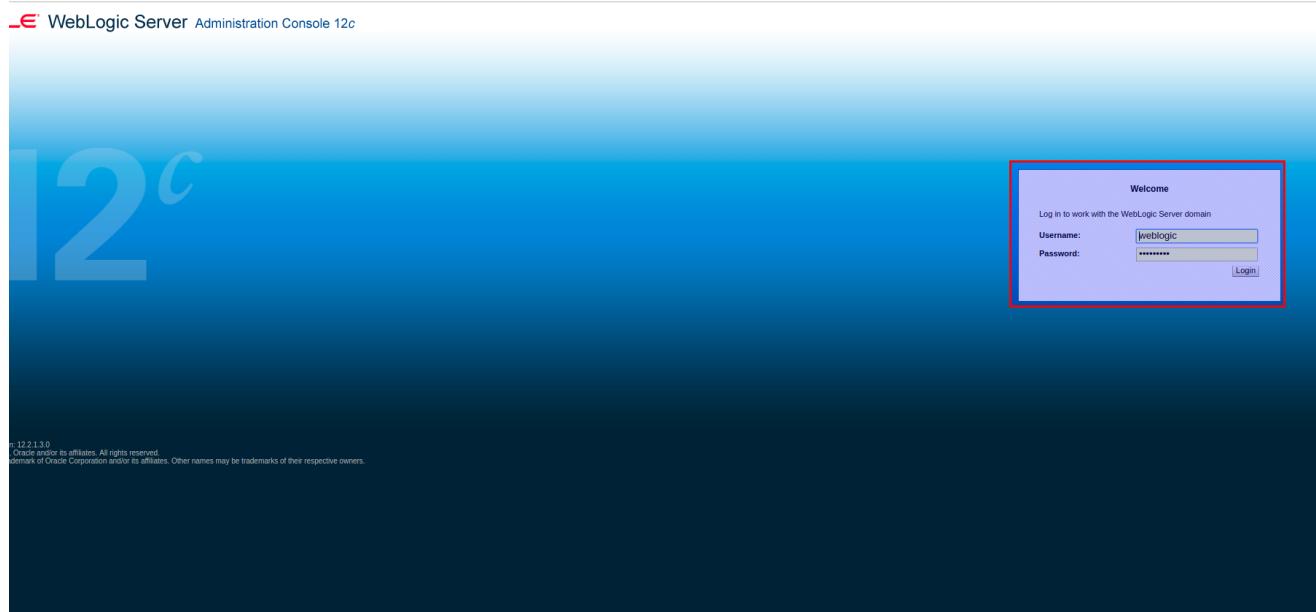
- 在JAVA_OPTIONS后台添加 P6 API路径

-Dprimavera.bootstrap.home=/home/weblogic/P6IntegrationAPI_1

- 添加完成后重启weblogic服务器使配置生效

部署P6应用

登录weblogic管理界面



安装新应用

ORACLE WebLogic Server Administration Console 12c

Change Center

View changes and restarts

Click the Lock & Edit button to modify, add or delete items in this domain.

Lock & Edit

Release Configuration

Domain Structure

- p6eppm_domain
 - Domain Partitions
 - Environment
 - Deployments** (Step 1)
 - Services
 - Security Realms
 - Interoperability
 - Diagnostics

How do I...

- Install an enterprise application
- Configure an enterprise application
- Update (redeploy) an enterprise application
- Monitor the modules of an enterprise application
- Deploy EJB modules

Summary of Deployments

Configuration Control Monitoring

This page displays the list of Java EE applications and standalone application modules installed to this domain.

You can update (redeploy) or delete installed applications and modules from the domain by selecting the checkbox next to the application name and then using the controls on this page.

To install a new application or module for deployment to targets in this domain, click **Install**.

Customize this table

Deployments			
	Name	State	Health
<input type="checkbox"/>	proxy	Active	OK

Install Update Delete

- 1.点击部署(deployment)
- 2.点击锁定并编辑(lock&Edit)
- 3.点击安装(install)

ORACLE WebLogic Server Administration Console 12c

Change Center

View changes and restarts

No pending changes exist. Click the Release Configuration button to allow others to edit the domain.

Lock & Edit

Release Configuration

Domain Structure

- p6eppm_domain
 - Domain Partitions
 - Environment
 - Deployments (Step 1)
 - Services
 - Security Realms
 - Interoperability
 - Diagnostics

How do I...

- Start and stop a deployed enterprise application
- Configure an enterprise application

Install Application Assistant

Back | Next | Finish | Cancel

Locate deployment to install and prepare for deployment

Select the file path that represents the application root directory, archive file, exploded archive directory, or application module descriptor that you want to install. You can also enter the path of the application directory or file if Note: Only valid file paths are displayed below. If you cannot find your deployment files, Upload your file(s) and/or confirm that your application contains the required deployment descriptors.

Path: /home/weblogic/P6EPPM_1/p6/p6.ear (Step 1)

Recently Used Paths:

- /home/weblogic/war
- /home/weblogic/P6EPPM_1/p6

Current Location: 10.96.43.103 / home / weblogic / P6EPPM_1 / p6

lib migration_lib outsidein precompile_utility test (open directory) p6.ear p6services.jar (Step 2)

Back | Next | Finish | Cancel

- 1.选择安装包的路径
- 2.选择p6安装包
- 点击next,进入下一步

ORACLE WebLogic Server Administration Console 12c

Change Center

View changes and restarts

No pending changes exist. Click the Release Configuration button to allow others to edit the domain.

Domain Structure

- p6eppm_domain
 - Domain Partitions
 - Environment
 - Deployments
 - Services
 - Security Realms
 - Interoperability
 - Diagnostics

How do I...

- Start and stop a deployed enterprise application

- 选择 作为一个应用部署

- 选择 部署到为p6 创建的集群

Deployment Plan Version:

What security model do you want to use with this application?

- DD Only: Use only roles and policies that are defined in the deployment descriptors.
- Custom Roles: Use roles that are defined in the Administration Console; use policies that are defined in the deployment descriptor.
- Custom Roles and Policies: Use only roles and policies that are defined in the Administration Console.
- Advanced: Use a custom model that you have configured on the realm's configuration page.

How should the source files be made accessible?

- Use the defaults defined by the deployment's targets
- Copy this application onto every target for me
- I will make the deployment accessible from the following location

Location: /home/weblogic/P6EPPM_1/p6/p6.ear

Provide the location from where all targets will access this application's files. This is often a shared directory. You must ensure the application files exist in this location and that each target can reach the location.

Plan Source Accessibility

How should the plan source files be made accessible?

- Use the same accessibility as the application
- Copy this plan onto every target for me

During deployment, the plan files will be copied automatically to the Managed Servers to which the application is targeted.

Do not copy this plan to targets

You must ensure the plan files exist in the shared location and that each target can reach the location.

- 选择 将文件部署到每一个目标

ORACLE® WebLogic Server Administration Console 12c

The screenshot shows the Oracle WebLogic Server Administration Console 12c interface. On the left, there's a sidebar with 'Change Center' (pending changes exist), 'Domain Structure' (p6eppm_domain), 'How do I...' (links to start/stopping applications, configuring, creating deployment plans, targeting, and testing modules), and 'System Status' (health of servers). The main content area is titled 'Settings for p6(17.12.8.0)' and shows the configuration for application p6. A red circle labeled '1' highlights the 'Overview' tab. A red circle labeled '2' points to the 'Activate Changes' button in the 'Change Center' sidebar.

- 1.点击save保存
- 2.点击激活更改(active changes)使变更生效

ORACLE® WebLogic Server Administration Console 12c

This screenshot shows the 'Summary of Deployments' page. A red circle labeled '1' points to the 'Deployment' section in the 'Domain Structure' sidebar. A red circle labeled '2' points to the 'Control' tab in the top navigation bar. A red circle labeled '3' points to the 'Start' dropdown menu for deployment p6(17.12.8.0) in the 'Deployments' table.

Name	State	Health	Type	Targets
p6 (17.12.8.0)	Prepared	OK	Enterprise Application	P6Cluster
proxy	Active	OK	Web Application	proxy-serv

- 1.点击部署(deployment)
- 2.选择控制页签(control)
- 3.选择start 为所有请求服务(servicing all request)

ORACLE WebLogic Server Administration Console 12c

Change Center

View changes and restarts

Click the Lock & Edit button to modify, add or delete items in this domain.

Lock & Edit

Release Configuration

Domain Structure

pEppm_domain

- Domain Partitions
- Environment
- Deployments
- Services
- Security Realms
- Interoperability
- Diagnostics

How do I...

Summary of Deployments

Configuration Control Monitoring

This page displays the list of Java EE applications and standalone application modules installed to this domain. You can start and stop applications and modules from the domain by selecting the checkbox next to the application name and then using the controls on this page.

Customize this table

Deployments

<input type="checkbox"/>	Name	State	Health	Type
<input type="checkbox"/>	p6 (17.12.8.0)	Active	✓ OK	Enterprise Application
<input type="checkbox"/>	proxy	Active	✓ OK	Web Application

Start Stop

- 如果查看状态为active ,ok 则成功运行

PRIMAVERA P6 EPPM

admin

Sign In

Release 17.12.8.0 (B0111) 08.15.2018.1959 7429eb0f6d8c

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- 查看p6 登录页面

PRIMAVERA P6 EPPM

Welcome, admin ▾ Help ▾

Dashboards Portfolios Projects Resources Approvals Administration

Corporate IT Product R&D Construction Energy Manufacturing Workflow Strategic Programs

Resource Team Summary

Email resource team Select a resource team: Corporate Resources

Resource	Primary Role	Active Projects
Ben Frost	Business Process Analyst	0
BPM Consultant 1	Consultant	0
BPM Consultant 2	Consultant	0
BPM Consultant 3	Consultant	0
Frank Chu	Process Architect	0
Judy Billings	Process Architect	0
Lori McNeil	Project Leader	0
Michelle Peterson	Business Analyst Level 1	0
Peter Cooper	Change Management Coordinator	0
Rea Johnson	Project Leader	0
Wayne Prescott	Process Architect	0

Budget by PM

Filter by Portfolio: Energy Projects

Customize

- 使用数据库初始化时配置的admin账户登录成功

