# 一、安装VNC

#### 1.导入rpm包

百度云下载:

链接: https://pan.baidu.com/s/1v2tyjCvL UxmyV68blouzw

提取码: Ifq8

```
rpm -ivh --nodeps tigervnc-1.8.0-13.el7.x86_64.rpm tigervnc-server-1.8.0-13.el7.x86_64.rpm tigervnc-server-module-1.8.0-17.el7.x86_64.rpm
```

#### 或者

```
yum -y install tigervnc tigervnc-server tigervnc-server-module
```

### 2、复制配置文件

```
cp /lib/systemd/system/vncserver@.service
/lib/systemd/system/vncserver@:1.service
```

#### 3、修改配置文件

```
vim /lib/systemd/system/vncserver@:1.service
```

```
[unit]
Description=Remote desktop service (VNC)
After=syslog.target network.target
[Service]
Type=forking
# Clean any existing files in /tmp/.X11-unix environment
ExecStartPre=/bin/sh -c '/usr/bin/vncserver -kill %i > /dev/null 2>&1 || :'
ExecStart=/usr/sbin/runuser -l root -c "/usr/bin/vncserver %i -geometry
1920x1080"
PIDFile=/root/.vnc/%H%i.pid
ExecStop=/bin/sh -c '/usr/bin/vncserver -kill %i > /dev/null 2>&1 || :'
[Install]
WantedBy=multi-user.target
```

### 4.设置vncserver的密码;

```
vncpasswd root
```

按提示输入密码以及确认密码 5.更新systemctl以使其生效;

```
systemctl daemon-reload
```

#### 6.启动该服务用来启用vnc的1号窗口;

```
systemctl start vncserver@:1.service
```

#### 关闭1号窗口:

```
systemctl stop vncserver@:1.service
```

### 查看状态:

```
systemctl status vncserver@:1.service -1
```

### 7.设置为开机自动启动

```
systemctl enable vncserver@:1.service
```

### 8.修改防火墙

```
systemctl start firewalld #启动firewalld服务
systemctl status firewalld #查看运行状态
systemctl enable firewalld #设置开机启动
systemctl stop firewalld #关闭firewalld服务
```

### 首先判断firewalld是否启动,输入以下命令判断

```
sudo firewall-cmd --state
```

#### 如果启动应该输出

```
running
```

如果是not running, 执行下面命令

```
sudo systemctl start firewalld
```

### 添加端口号5901-5905

```
sudo firewall-cmd --permanent --zone=public --add-port=5901-5905/tcp
```

#### 重新加载防火墙

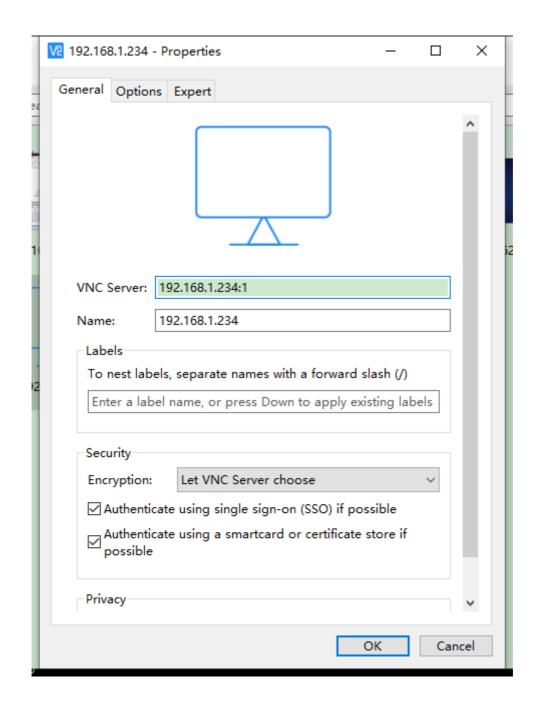
```
sudo firewall-cmd --reload
```

#### 可以使用下面命令查看端口号是否被加入

```
firewall-cmd --list-all-zones
```

### 9.访问contos7上的vnc

Centos7的ip地址:1 即可访问



10.蓝屏可能是gnome没安造成的,安装GNOME后重启linux

```
yum groupinstall "GNOME Desktop" "Graphical Administration Tools" reboot
```

11.启动vnc报错: Job for vncserver@:1.service failed because a configured resource limit was exceeded.

执行# systemctl status vncserver@:1.service

#### 发现一条信息:

localhost.localdomain systemd[1]: PID file /root/.vnc/localhost.localdomain:1.pid not readable (yet?) after start.

检查 /root/.vnc/, 发现没有localhost.localdomain:1.pid

解决方法:原来目录/tmp/下有一个/.X11-unix目录会占用这个pid序号资源。把这个目录改名/.X11-unix.bak后,再次执行

mv /tmp/.X11-unix /tmp/.X11-unix.bak
systemctl start vncserver@:1.service

# 二、安装DB2

## 1、下载DB2

百度云下载:

链接: https://pan.baidu.com/s/1I5HEAj4soRJgnV1 -KtO0A

提取码: 2614

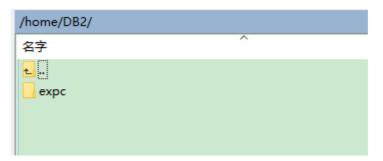
这里我们下载v10.5的版本。



## 2、上传到/home/DB2目录下并解压

tar -zxvf v10.5\_linuxx64\_expc.tar.gz

解压后出现如下目录:

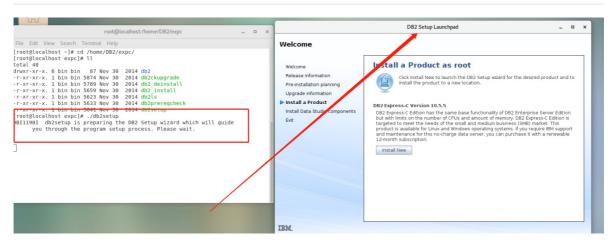


## 3、使用VNC连接服务器,进入可视化界面

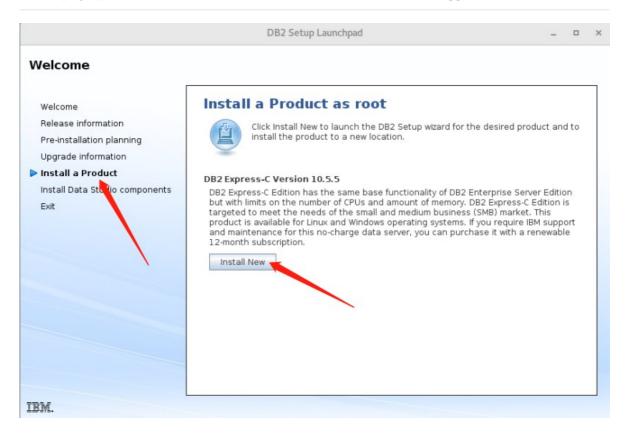
cd /home/DB2/expc

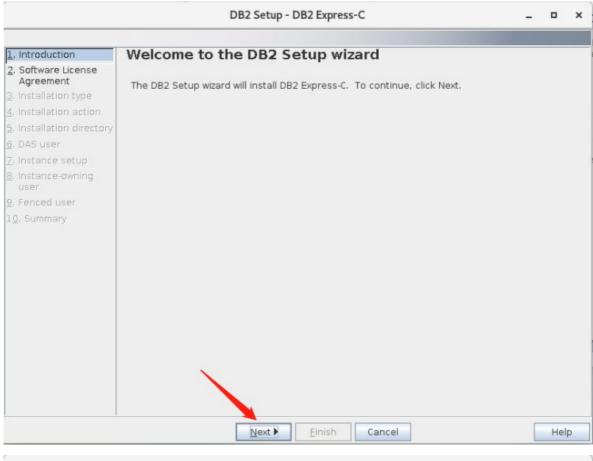
```
root@localhost:/home/DB2/expc
                                                                          File Edit View Search Terminal Help
[root@localhost ~]# cd /home/DB2/expc/
[root@localhost expc]# ll
total 48
drwxr-xr-x. 6 bin bin
                        87 Nov 30 2014 db2
-r-xr-xr-x. 1 bin bin 5874 Nov 30
                                   2014 db2ckupgrade
-r-xr-xr-x. 1 bin bin 5789 Nov 30 2014 db2 deinstall
-r-xr-xr-x. 1 bin bin 5659 Nov 30 2014 db2 install
-r-xr-xr-x. 1 bin bin 5623 Nov 30 2014 db2ls
-r-xr-xr-x. 1 bin bin 5633 Nov 30 2014 db2prereqcheck
-r-xr-xr-x. 1 bin bin 5641 Nov 30 2014 db2setup
[root@localhost expc]#
```

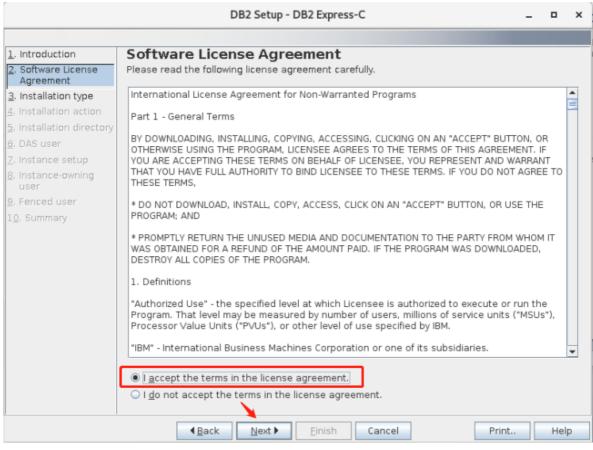
## 4、执行./db2setup,图形化界面安装

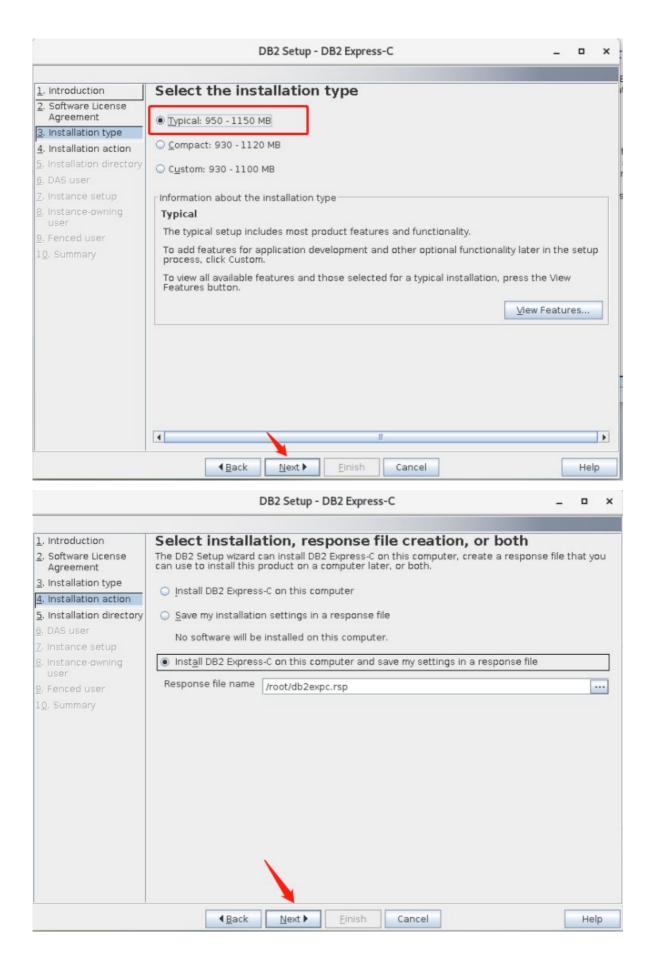


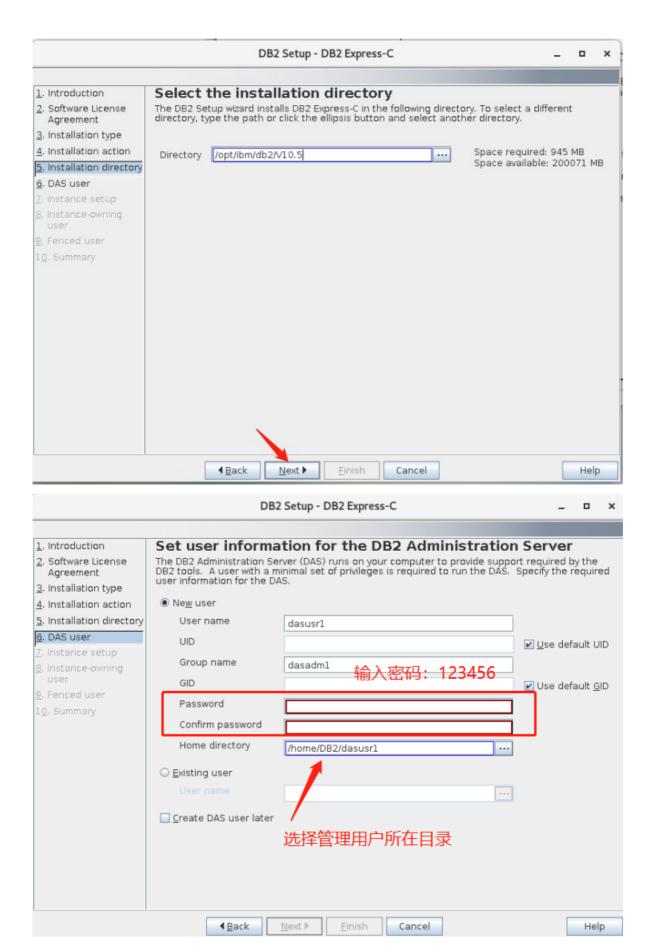
## 5、按照如下的过程进行安装DB2 v10.5数据库



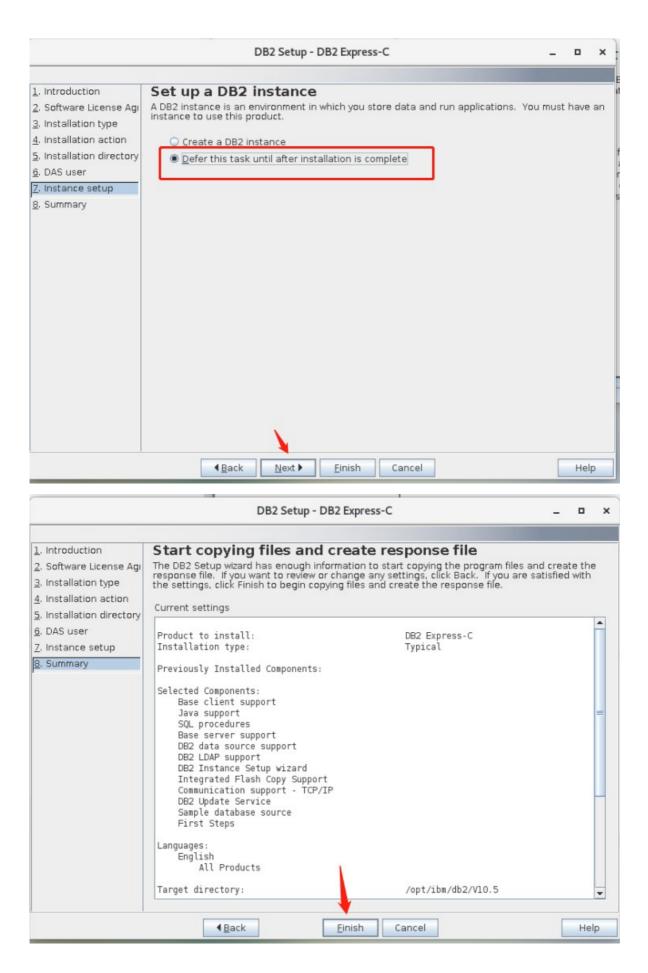


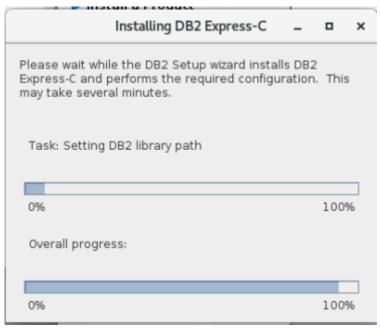


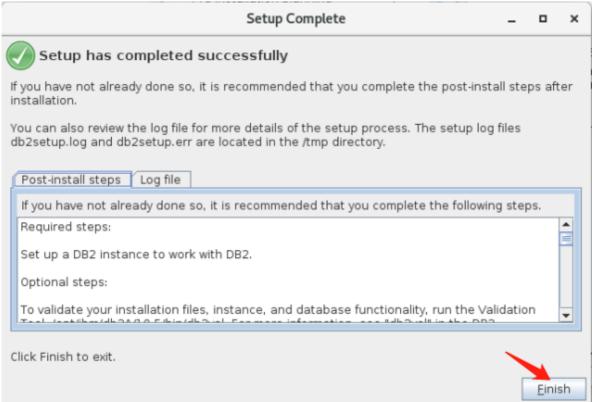




注: 选择安装完DB2 再进行创建实例







## 6、在数据库服务器上创建用户组

创建组db2iadm1 (实例管理组),db2fgrp1 (DB2 fencing管理组)和dasadm1 (数据库管理员用户组),其中dasadm1组在安装数据库时已经创建,我们只需要创建db2iadm1和db2fgrp组

```
groupadd -g 206 db2iadm1
groupadd -g 203 db2fgrp1
```

## 7、在数据库服务器上创建用户

创建用户db2inst1(实例管理用户)、db2fenc1(DB2 fencing 管理用户)和dasusr1(数据库管理员用户), 其中dasusr1用户在安装数据库时已经创建,我们只需要创建db2inst1和db2fenc用户

```
useradd -g db2iadm1 -u 209 -d /home/DB2/db2inst1 db2inst1
useradd -g db2fgrp1 -u 210 -d /home/DB2/db2fenc1 db2fenc1
```

### 8、添加用户的密码

添加用户db2inst1(实例管理用户)、db2fenc1(DB2 fencing 管理用户)和dasusr1(数据库管理员用户)的密码,其中dasusr1用户的密码在安装数据库时已经添加,我们只需要添加db2inst1和db2fenc用户的密码。

```
# 添加实例的用户密码
passwd db2inst1
# 123456

# 添加受防护的用户密码
passwd db2fenc1
# 123456
```

### 9、检查用户组和用户是否创建成功

```
# 用户组:
more /etc/group | grep db2
# 用户:
more /etc/passwd | grep db2
```

```
[root@localhost ~]# more /etc/group | grep db2
db2iadml:x:206:
db2fgrpl:x:203:
[root@localhost ~]# more /etc/passwd | grep db2
db2instl:x:209:206::/home/DB2/db2instl:/bin/bash
db2fencl:x:210:203::/home/DB2/db2fencl:/bin/bash
[root@localhost ~]#
```

### 10、创建实例

db2icrt创建的是实例,这里db2fenc1指定db2inst1为它的防护用户,而db2inst1为一实例用户。

```
cd /opt/ibm/db2/v10.5/instance/
# 创建DB2实例
./db2icrt -u db2fenc1 db2inst1
```

```
[root@localhost ~]# cd /opt/ibm/db2/V10.5/instance/
[root@localhost instance]#
[root@localhost instance]# ./db2icrt -u db2fenc1 db2inst1
DBI1446I The db2icrt command is running.
DB2 installation is being initialized.
Total number of tasks to be performed: 4
Total estimated time for all tasks to be performed: 309 second(s)
Task #1 start
Description: Setting default global profile registry variables
Estimated time 1 second(s)
Task #1 end
Task #2 start
Description: Initializing instance list
Estimated time 5 second(s)
Task #2 end
Task #3 start
Description: Configuring DB2 instances
Estimated time 300 second(s)
Task #3 end
Task #4 start
Description: Updating global profile registry
Estimated time 3 second(s)
Task #4 end
The execution completed successfully.
For more information see the DB2 installation log at "/tmp/db2icrt.log.17067".
DBI1070I Program db2icrt completed successfully.
[root@localhost instance]#
```

### 11、配置DB2实例

```
cd /opt/ibm/db2/V10.5/instance/

# 设置DB2自启动(注:依然在root用户下),设置对db2inst1在Linux启动时自动启动。
./db2iauto -on db2inst1

# 修改M络服务端口(注:在db2inst1用户下)

# 修改DB2的服务端口为50000,默认情况下端口也是50000

su - db2inst1

db2 update dbm cfg using SVCENAME 50000

# 修改DB2连接方式为TCP/IP

# 修改DB2连接方式为TCP/IP

# 修改DB2连接方式为TCPIP,然后可通过JDBC、ODBC等访问本DB2服务器上的数据库,安装了DB2客户端的
其它机器也可访问数据库
db2set DB2COMM=TCPIP
```

```
[root@localhost instance]# ./db2iauto -on db2inst1
[root@localhost instance]# su - db2inst1
Last login: Tue Jun  2 09:14:07 CST 2020 on pts/0
[db2inst1@localhost ~]$ db2 update dbm cfg using SVCENAME 50000
DB20000I The UPDATE DATABASE MANAGER CONFIGURATION command completed successfully.
[db2inst1@localhost ~]$ db2set DB2COMM=TCPIP
[db2inst1@localhost ~]$
```

### 12、查看DB2

```
su - db2inst1
# 查看DB2许可证情况
db2licm -1
# 查看DB2版本
db2level
# 检查相关参数
db2set -all
```

```
[db2inst1@localhost ~]$ db2licm -l
                                    "DB2 Express-C"
Product name:
License type:
                                   "Unwarranted"
Expiry date:
                                   "Permanent"
Product identifier:
                                   "db2expc"
Version information:
                                   "10.5"
Max number of CPUs:
                                   "2"
Max amount of memory (GB):
                                   "16"
                                   "Soft Stop"
Enforcement policy:
[db2inst1@localhost ~]$ db2level
DB21085I This instance or install (instance name, where applicable:
"db2instl") uses "64" bits and DB2 code release "SQL10055" with level identifier "0606010E".
Informational tokens are "DB2 v10.5.0.5", "s141128", "IP23633", and Fix Pack
Product is installed at "/opt/ibm/db2/V10.5".
[db2inst1@localhost ~]$ db2set -all
[i] DB2COMM=TCPIP
[i] DB2AUT0START=YES
[g] DB2_COMPATIBILITY_VECTOR=MYS
[g] DB2SYSTEM=localhost.localdomain
[q] DB2INSTDEF=db2inst1
[q] DB2ADMINSERVER=dasusrl
[db2inst1@localhost ~]$
```

### 13、启动/停止实例

```
su - db2inst1
# 启动
db2start

# 停止
db2stop
# 强制停止
db2stop force

# 停止所有数据库应用程序
db2 force application all
```

## 14、在数据库服务器上创建数据库 test

db2 create database test

```
[db2inst1@localhost ~]$ db2start

SQL1063N DB2START processing was successful.
[db2inst1@localhost ~]$ db2 create database test

DB20000I The CREATE DATABASE command completed successfully.
```

### 15、连接数据库test

```
# 指定用户和密码
db2 connect to test user db2inst1 using 123456
```

```
[db2inst]@localhost ~]$ db2 connect to test user db2inst1 using 123456

Database Connection Information

Database server = DB2/LINUXX8664 10.5.5

SQL authorization ID = DB2INST1
Local database alias = TEST
```

## 16、使用DBeaver连接DB2

首先防火墙开启端口50000 (上面db2inst1实例指定的端口)

```
# 开放50000端口
firewall-cmd --zone=public --add-port=50000/tcp --permanent

# 开启或关闭端口需要重启,重启后配置立即生效
firewall-cmd --reload

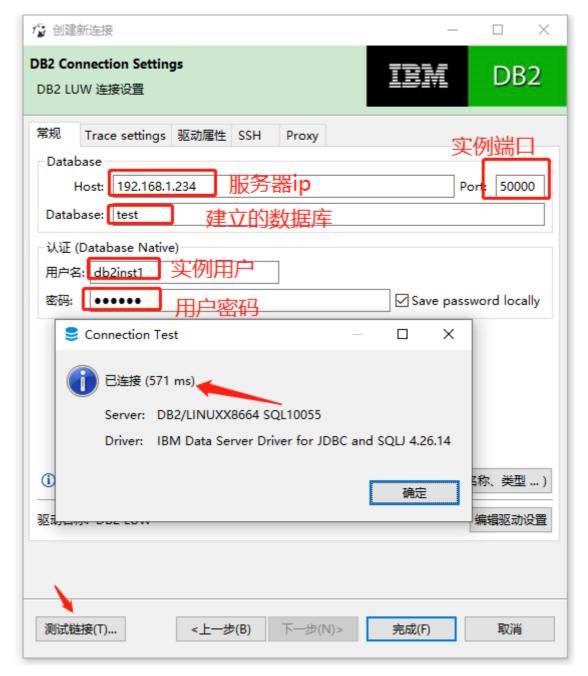
#查看所有开放的端口
firewall-cmd --list-ports

# 查看防火墙状态
```

```
systemctl status firewalld
# 停止防火墙
systemctl stop firewalld
# 开启防火墙
systemctl start firewalld
```

### 使用DBeaver工具,如下:



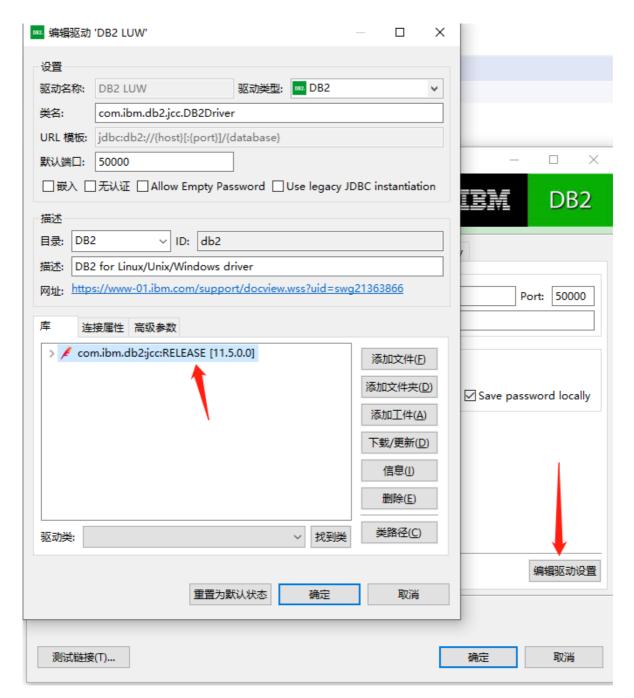


注意:需要下载驱动并添加(百度云下载后添加,或者让DBeaver自己下载)

### 百度云下载:

链接: https://pan.baidu.com/s/1cM8wiLIDxexMOvujk7f4KQ

提取码: z162



# 三、卸载DB2

## 1、删除db2数据库

```
# Remove DB[首先删除数据库]
su - db2inst1
db2start
db2 list db directory
db2 drop db <db name>
```

```
[db2inst]@localhost -|5 db2start |
$00.1053M DB25TART processing was successful. |
[db2inst]elocalhost -|5 db2start |
[db2start]elocalhost -|5 db2start |
[db2start]
```

### 2、停止db2数据库并删除db2进程

```
# 查看db2进程
ps -ef|grep db2
```

```
# 切换到db2inst1用户
su - db2inst1
# 停止数据库
db2stop force

# 切换到dasusr1管理用户
su - dasusr1
# 停止DB2管理服务器
db2admin stop
```

```
[db2instl@localhost ~]$ db2stop force
SQL1064N DB2STOP processing was successing
[db2inst1@localhost ~]$
[db2inst1@localhost ~]$
[db2inst1@localhost ~]$ ps -ef|grep db2 db2inst1@localhost ~]$ ps -ef|grep db2 db2inst1 714 32566 0 16:18 pts/0 (db2inst1 715 32566 0 16:18 pts/0 (dasusr1 23648 1 0 16:00 ? (db2inst1 32565 2492 0 16:08 pts/0 (db2inst1 32566 32565 0 16:08 pts/0 (db2inst1 32563 1 0 16:08 pts/0 (db2inst1 32693 1 0 16:08 pts/0 (db2inst132693 1 0 16:08 pts/0 (db2inst132693 1 0 16:08 pts/0 (db2inst132693 1 0 16:08 pts/0 (db2inst1826324bast 2)$ su dayus1
                                                                       00:00:00 ps -ef
00:00:00 grep --color=auto db2
00:00:00 /home/DB2/dasusrl/das/adm/db2dasrrm
                                                                       00:00:00 su - db2instl
                                                                       00:00:00 -bash
                                                                       00:00:00 /home/DB2/db2inst1/sqllib/bin/db2bp 32566A209 5 A
[db2inst1@localhost ~]$ su - dasusr1
Password:
Last login: Mon Jun 1 16:00:06 CST 2020 on pts/1
[dasusr1@localhost ~]$ db2admin stop____
[dasusr1@localhost ~]$ db2admin stop
SQL4407W The DB2 Administration Server was stopped successfully.
[dasusrl@localhost ~]$
[dasusrl@localhost ~]$
00:00:00 grep --color=auto db2 00:00:00 su - db2instl
                                                                       00:00:00 -bash
                             1 0 16:08 pts/0
                                                                       00:00:00 /home/DB2/db2instl/sallib/bin/db2bp 32566A209 5 A
  b2inst1 32693
```

```
# 删除db2进程
su root
kill -9 `ps aux|grep db2 | grep -v 'grep db2' | awk '{print $2}'`
# 查看
ps -ef|grep db2
```

```
[root@localhost db2inst1]# kill -9 `ps aux|grep db2 | grep -v 'grep db2' | awk '{print $2}'`
bash: kill: (1054) - No such process
[root@localhost db2inst1]# Killed
```

### 3、删除实例、das、卸载

```
# Remove Instance 【删除实例】
su - root
cd <db2 dir>/instance # 默认/opt/ibm/db2/v10.5/instance/
./db2ilist
./db2idrop <instance name>

# Remove das 【删除das】
(1)su - root
(2)cd <db2 dir>/instance # 默认/opt/ibm/db2/v10.5/instance/
(3)./daslist
(4)./dasdrop <das user>

# Uninstall 【卸载】
(1)su - root
(2)cd <db2 dir>/install # 默认/opt/ibm/db2/v10.5/install/
(3)./db2_deinstall -a
```

```
[root@localhost instance]# ./db2ilist
db2inst1
[root@localhost instance]# ./db2idrop db2instl
DBI1446I The db2idrop command is running.
DB2 installation is being initialized.
Total number of tasks to be performed: 2
Total estimated time for all tasks to be performed: 305 second(s)
Task #1 start
Description: Initializing instance list
Estimated time 5 second(s)
Task #1 end
Task #2 start
Description: Configuring DB2 instances
Estimated time 300 second(s)
Task #2 end
The execution completed successfully.
For more information see the DB2 installation log at "/tmp/db2idrop.log.3860". DBI1070I Program db2idrop completed successfully.
[root@localhost instance]# ./db2ilist 4
[root@localhost instance]#
```

```
[root@localhost instance]# ./daslist
[root@localhost instance]# ./dasdrop dasusr1

DBI1070I Program dasdrop completed successfully.

[root@localhost instance]# ./daslist
[root@localhost instance]# ./daslist
[root@localhost instance]# ./db2_deinstall -a

D16I Program db2_deinstall is performing uninstallation. Please
wait.
```

### 4、删除db2数据库相关文件

```
# 删除db2用户,删除db2相关数据
vim /etc/passwd
# 进入文件后,输入/db2,按enter键查找db2相关配置,按n跳转到下一个
# 删除下图中的三行关于db2的配置
# 选中到某一行,输入dd,即可删除当前行
# 删除成功后,按i键进入输入模式
# 按Esc键后,输入:wq!即可保存退出
```

```
dasusrl:x:1000:101::/home/DB2/dasusrl:/bin/bash
db2instl:x:209:206::/home/DB2/db2instl:/bin/bash
db2fencl:x:210:203::/home/DB2/db2fencl:/bin/bash
/db2
```

# 删除db2组 vim /etc/group # 操作同上,删除下图中的三行关于db2的配置

```
dasadml:x:101:db2instl
db2iadml:x:206:
db2fgrpl:x:203:
/db2
```

# 删除db2端口 vim /etc/services # 操作同上,未找到相关db2配置不做操作 # 按i键进入输入模式,按Esc键后,输入:q!即可不保存退出

```
# 删除db2相关用户实例
vim /etc/shadow
# 操作同上,删除下图中的三行关于db2的配置
```

```
# 删除db2相关目录
cd /var
11
rm -rf db2*
```

```
[root@localhost install]# cd /var/
[root@localhost var]# ll
total 20
drwxr-xr-x. 2 root root 18 Jun 1 2020 account
drwxr-xr-x. 2 root root 6 Apr 11 2018 adm
drwxr-xr-x. 13 root root 4096 Jun 1 2020 cache
drwxr-xr-x. 2 root root 6 Apr 2 21:27 crash
drwxr-xr-x. 3 root root 32 May 29 00:43 db
drwxr-xr-x 2 root root 63 Jun 1 16:48 db2
drwxr-xr-x. 3 root root 17 Apr 11 2018 empty
drwxr-xr-x. 2 root root 6 Apr 11 2018 games
drwxr-xr-x. 2 root root 6 Apr 11 2018 gopher
drwxr-xr-x. 3 root root 17 Apr 1 11:06 kerberos
drwxr-xr-x. 63 root root 4096 Jun 1 2020 lib
drwxr-xr-x. 2 root root 6 Apr 11 2018 local
lrwxrwxrwx. 1 root root 11 May 29 00:20 lock -> ../run/lock
drwxr-xr-x. 19 root root 4096 Jun 1 15:53 log
lrwxrwxrwx. 1 root root 10 May 29 00:43 mail -> spool/mail
drwxr-xr-x. 2 root root 6 Apr 11 2018 nis
drwxr-xr-x. 2 root root 6 Apr 11 2018 opt
drwxr-xr-x. 2 root root 6 Apr 11 2018 preserve
lrwxrwxrwx. 1 root root 6 May 29 00:20 run -> ../run
drwxr-xr-x. 12 root root 4096 Jun 1 2020 spool drwxr-xr-x. 4 root root 26 Jun 1 2020 target
drwxrwxrwt. 8 root root 4096 Jun 1 15:59
drwxr-xr-x. 3 root root 16 May 29 00:21 var
drwxr-xr-x. 2 root root 6 Apr 11 2018 yp
[root@localhost var]# rm -rf db2*
```

```
# 删除db2相关文件
cd /tmp
11
rm -rf db2*
rm -rf dascrt*
```

```
# 删除dasusr1, db2inst1,db2fenc1文件夹
cd /home/DB2
rm -rf dasusr1
rm -rf db2inst1
rm -rf db2fenc1
```

```
[root@localhost tmp]# cd /home/DB2
[root@localhost DB2]#
[root@localhost DB2]# ll
total 4
drwxr-xr-x 5 1000 101 121 Jun 1 16:47 dasusr1
drwx----- 3 210 203 74 Jun 1 16:03 db2fenc1
drwxr-xr-x 8 209 206 140 Jun 1 16:45 db2inst1
drwxr-xr-x. 3 root root 4096 Nov 30 2014 expc
[root@localhost DB2]# rm -rf dasusr1
[root@localhost DB2]# rm -rf db2inst1
[root@localhost DB2]# rm -rf db2fenc1
[root@localhost DB2]# ll
total 4
drwxr-xr-x. 3 root root 4096 Nov 30 2014 expc
[root@localhost DB2]# ll
total 4
drwxr-xr-x. 3 root root 4096 Nov 30 2014 expc
[root@localhost DB2]# ]
```

```
# 删除db2安装目录和rsp文件
cd /opt
rm -rf ibm/
cd /root
rm -rf db2expc.rsp
```

```
[root@localhost DB2]# cd /opt/
 [root@localhost opt]#
 [root@localhost opt]# ll
 total 0
drwxr-xr-x 3 root root 16 Jun 1 15:59 ibm
drwxr-xr-x, 2 root root 6 Oct 31 2018 rh
 [root@localhost opt]# rm -rf ibm/
 [root@localhost opt]# ll
 total 0
 drwxr-xr-x. 2 root root 6 Oct 31 2018 rh
[root@localhost opt]#
 [root@localhost opt]#
 [root@localhost opt]# cd /root/
 [root@localhost ~]# ll
 total 12
 -rw-----. 1 root root 1422 May 29 00:23 anaconda-ks.cfg
-rw------ 1 root root 1422 May 29 00:23 anaconda-ks.
-rw-r--r-- 1 root root 1607 Jun 1 15:59 db2expc.rsp
drwxr-xr-x. 2 root root 6 Jun 1 12:04 Documents
drwxr-xr-x. 2 root root 6 Jun 1 12:04 Downloads
drwxr-xr-x. 2 root root 23 Jun 1 13:44 isus
drwxr-xr-x. 2 root root 6 Jun 1 12:04 Music
drwxr-xr-x. 2 root root 6 Jun 1 12:04 Pictures
drwxr-xr-x. 2 root root 6 Jun 1 12:04 Public
-rw-----. 1 root root 16 Jun 1 2020 root
drwxr-xr-x. 2 root root 6 Jun 1 12:04 Templates
drwxr-xr-x. 2 root root 6 Jun 1 12:04 Videos
[root@localhost ~]# rm -rf db2expc.rsp
 [root@localhost ~]# rm -rf db2expc.rsp
 [root@localhost ~]#
```

到这里就卸载成功了,可以重新安装了。