

1. Linux的软件安装

1.1. 环境变量

当我们执行一个命令的时候，默认从当前路径开始查找

如果当前路径找不到对应的命令文件，从环境变量\$PATH查找

\$PATH的配置文件在 /etc/profile

Windows 路径与路径之间用;(分号)连接

Linux路径与路径之间用: (冒号) 连接

Linux每次修改完成之后，需要重新加载文件 `source /etc/profile`

1.2. 软件的安装方式

- 解压就可以使用
- 使用安装包安装(window-exe Linux-rpm)
 - 自己下载安装包
 - 使用统一的软件帮助我们安装
- 通过源码安装

1.3. RPM安装

- RedHat Package Manager,它属于红帽的一种包管理方式
- 通过RPM命令安装软件
 - `rpm -ivh jdk-7u67-linux-x64.rpm`
- 可以查询软件
 - `rpm -qa | grep jdk`
 - `rpm -q jdk`
- 卸载
 - `rpm -e jdk-1.7.0_67-fcs.x86_64`
- 需要手动配置Java的环境变量
 - `vim /etc/profile`

-

```
export JAVA_HOME=/usr/java/jdk1.7.0_67
export PATH=$JAVA_HOME/bin:$PATH
```

- 重新加载配置文件
 - source /etc/profile

1.4. 压缩包解压安装

- 解压文件
 - tar -zxf apache-tomcat-7.0.61.tar.gz
- 拷贝到/opt/school目录下
 - mkdir -p /opt/lucky
 - cp -r apache-tomcat-7.0.61 /opt/school
- 启动tomcat
 - cd /opt/school/apache-tomcat-7.0.61/bin/ ○ ./startup.sh

1.5. YUM安装

1.5.1. yum的作用

- 可以帮我们管理RPM包
- 可以帮我们安装软件，
- 如果软件有其他依赖，会帮我们安装依赖后再安装软件
- 类似于Maven

1.5.2. yum命令

- search 查询命令或者软件
- info
 - 查看包的信息
- list / list jdk
 - 查询安装的rpm包，或者只查询某一组

1.5.3. 更换yum源

- 首先安装wget
 - yum install wget -y
- 将系统原始配置文件失效
 - mv /etc/yum.repos.d/CentOS-Base.repo /etc/yum.repos.d/CentOS-Base.repo.backup
- 使用Wget获取阿里yum源配置文件
 - wget -O /etc/yum.repos.d/CentOS-Base.repo <http://mirrors.aliyun.com/repo/Centos-6.repo>
 - wget -O /etc/yum.repos.d/CentOS-Base.repo <http://mirrors.aliyun.com/repo/Centos-7.repo>
- 清空以前yum源的缓存

- yum clean all
- 获取阿里云的缓存
 - yum makecache

1.6. 安装Mysql数据库

- Mysql的下载地址
 - <https://downloads.mysql.com/archives/community/>

```
[root@initnode ~]# rpm -ivh mysql-community-common-5.7.28-1.el7.x86_64.rpm
warning: mysql-community-common-5.7.28-1.el7.x86_64.rpm: Header V3 DSA/SHA1 Signature, key ID 5072e1f5: NOKEY
Preparing...
##### [100%]
Updating / installing...
 1:mysql-community-common-5.7.28-1.el7##### [100%]
[root@initnode ~]# rpm -ivh mysql-community-libs-
mysql-community-libs-5.7.28-1.el7.x86_64.rpm      mysql-community-libs-compat-5.7.28-1.el7.x86_64.rpm
[root@initnode ~]# rpm -ivh mysql-community-libs-5.7.28-1.el7.x86_64.rpm
warning: mysql-community-libs-5.7.28-1.el7.x86_64.rpm: Header V3 DSA/SHA1 Signature, key ID 5072e1f5: NOKEY
Preparing...
##### [100%]
Updating / installing...
 1:mysql-community-libs-5.7.28-1.el7##### [100%]
[root@initnode ~]# rpm -ivh mysql-community-client-5.7.28-1.el7.x86_64.rpm
warning: mysql-community-client-5.7.28-1.el7.x86_64.rpm: Header V3 DSA/SHA1 Signature, key ID 5072e1f5: NOKEY
Preparing...
##### [100%]
Updating / installing...
 1:mysql-community-client-5.7.28-1.el7##### [100%]
[root@initnode ~]# rpm -ivh mysql-community-server-5.7.28-1.el7.x86_64.rpm
warning: mysql-community-server-5.7.28-1.el7.x86_64.rpm: Header V3 DSA/SHA1 Signature, key ID 5072e1f5: NOKEY
Preparing...
##### [100%]
Updating / installing...
 1:mysql-community-server-5.7.28-1.el7##### [100%]
[root@basenode ~]# tar -xvf mysql-8.0.18-1.el7.x86_64.rpm-bundle.tar
mysql-community-libs-8.0.18-1.el7.x86_64.rpm
mysql-community-devel-8.0.18-1.el7.x86_64.rpm
mysql-community-embedded-compat-8.0.18-1.el7.x86_64.rpm
mysql-community-libs-compat-8.0.18-1.el7.x86_64.rpm
mysql-community-common-8.0.18-1.el7.x86_64.rpm
mysql-community-test-8.0.18-1.el7.x86_64.rpm
mysql-community-server-8.0.18-1.el7.x86_64.rpm
mysql-community-client-8.0.18-1.el7.x86_64.rpm
[root@basenode ~]# rpm -ivh mysql-community-common-8.0.18-1.el7.x86_64.rpm
warning: mysql-community-common-8.0.18-1.el7.x86_64.rpm: Header V3 DSA/SHA1 Signature, key ID 5072e1f5: NOKEY
Preparing...
##### [100%]
Updating / installing...
 1:mysql-community-common-8.0.18-1.el7##### [100%]
[root@basenode ~]# rpm -ivh mysql-community-libs-8.0.18-1.el7.x86_64.rpm
warning: mysql-community-libs-8.0.18-1.el7.x86_64.rpm: Header V3 DSA/SHA1 Signature, key ID 5072e1f5: NOKEY
Preparing...
##### [100%]
Updating / installing...
 1:mysql-community-libs-8.0.18-1.el7##### [100%]
[root@basenode ~]# rpm -ivh mysql-community-client-8.0.18-1.el7.x86_64.rpm
warning: mysql-community-client-8.0.18-1.el7.x86_64.rpm: Header V3 DSA/SHA1 Signature, key ID 5072e1f5: NOKEY
Preparing...
##### [100%]
Updating / installing...
 1:mysql-community-client-8.0.18-1.el7##### [100%]
[root@basenode ~]# rpm -ivh mysql-community-server-8.0.18-1.el7.x86_64.rpm
warning: mysql-community-server-8.0.18-1.el7.x86_64.rpm: Header V3 DSA/SHA1 Signature, key ID 5072e1f5: NOKEY
Preparing...
##### [100%]
Updating / installing...
 1:mysql-community-server-8.0.18-1.el7##### [100%]
[root@basenode ~]# █

Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 10
Server version: 8.0.18 MySQL Community Server - GPL

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

mysql> set global validate_password.policy=LOW;
Query OK, 0 rows affected (0.00 sec)

mysql> set global validate_password.length=6
-> ;
Query OK, 0 rows affected (0.00 sec)

mysql> ALTER USER 'root'@'localhost' IDENTIFIED BY '123456' PASSWORD EXPIRE NEVER;
Query OK, 0 rows affected (0.01 sec)

mysql> ALTER USER 'root'@'localhost' IDENTIFIED WITH mysql_native_password BY '123456';
Query OK, 0 rows affected (0.00 sec)

mysql> FLUSH PRIVILEGES;
Query OK, 0 rows affected (0.01 sec)
```

```
#-----安装Mysql依赖【perl net-tools】
yum install perl net-tools -y

#-----卸载mariadb
rpm -qa | grep mariadb

rpm -e --nodeps mariadb-libs-5.5.60-1.el7_5.x86_64

#          安装mysql
tar -xvf mysql-8.0.18-1.el7.x86_64.rpm-bundle.tar


#-----启动mysql
systemctl start mysqld

#-----查找密码并登陆Mysql

cat /var/log/mysqld.log | grep password

mysql -u root -p

#-----修改Mysql密码 8.0版本输入命令:

set global validate_password.policy=LOW;

set global validate_password.length=6;

#更改加密方式
ALTER USER 'root'@'localhost' IDENTIFIED BY '123456' PASSWORD EXPIRE NEVER;

#更新用户密码
ALTER USER 'root'@'localhost' IDENTIFIED WITH mysql_native_password BY '123456';


#-----修改Mysql链接地址
use mysql;

update user set host='%' where user = 'root';

commit;

exit;
```