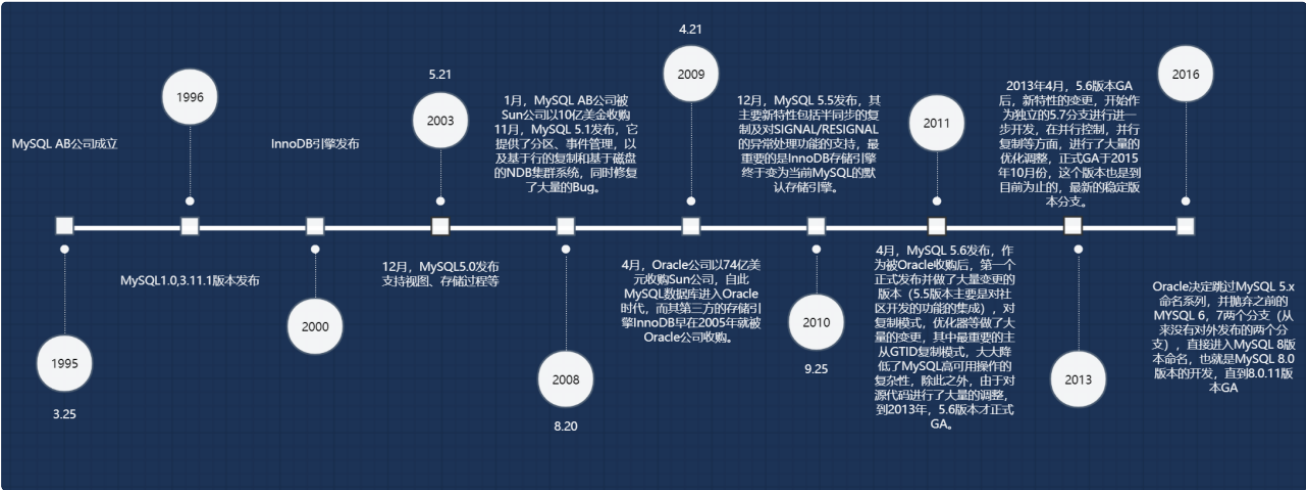


2.MySQL的安装 ✓

2.1 MySQL产品历史



2.2 企业版本选择

- 5.6 : 建议 5.6.34+ GA 6-12月之间版本
- 5.7 : 建议 5.7.20+ 以上的双数GA版本
- 8.0 : 建议 8.0.18+ 以上双数GA版本
- 准备安装MySQL时, 请确定要使用哪个版本和发行格式 (二进制或源码)。
- 首先, 决定要安装开发版本还是通用版本 (GA)。开发版本具有最新功能, 但不建议用于生产环境。
- GA版本 (也称为生产版本或稳定版本) 是供生产使用的。一般使用GA版本 (6-12月)。大约20个小版本

2.2.1 各版本生命周期

1	厂商	Releases	GA DATE	Premier END DATE	End OF LIFE DATE
2	MySQL	8	20180419	20230419	20260419
3	MySQL	5.7	20151021	20201021	20231021
4	MySQL	5.6	20130205	20180205	20210205
5	MySQL	5.5	20101203	20151203	20181203
6	MySQL	5.1	20101203	201312	20131231
7	MySQL	5	200510	201112	20120209
8	Percona	5.7	20160203	20201001	20231001
9	Percona	5.6	20131007	20180201	20210201
10	Percona	5.5	20180428	20171231	20181201
11	Percona	5.1	20081216	20160223	
12	MariaDB	10.3	20180525	20230525	
13	MariaDB	10.2	20170523	20220523	
14	MariaDB	10.1	20151017	20201017	
15	MariaDB	10	20140331	20190331	
16	MariaDB	5.5	20120411	20200411	
17					
18	MariaDB版本 MySQL版本对应关系				
19	MariaDB 10.3	MySQL 8.0			
20	MariaDB 10.2	MySQL 5.7			
21	MariaDB 10.1	MySQL 5.6			
22	MariaDB 10.0	MySQL 5.5			

2.2.2 MySQL8.0版本新特性简介

<https://dev.mysql.com/doc/refman/8.0/en/mysql-nutshell.html> <<https://dev.mysql.com/doc/refman/8.0/en/mysql-nutshell.html>>
<https://dev.mysql.com/doc/refman/8.0/en/added-deprecated-removed.html> <<https://dev.mysql.com/doc/refman/8.0/en/added-deprecated-removed.html>>

2.2.3 MySQL 8.0源码结构前瞻

<https://dev.mysql.com/doc/refman/8.0/en/> <<https://dev.mysql.com/doc/refman/8.0/en/>>
<https://dev.mysql.com/doc/internals/en/> <<https://dev.mysql.com/doc/internals/en/>>
<https://dev.mysql.com/doc/dev/mysql-server/latest/> <<https://dev.mysql.com/doc/dev/mysql-server/latest/>>

2.3获取mysql二进制软件包

通过官网选择版本进行下载

<https://downloads.mysql.com/archives/community/> <<https://downloads.mysql.com/archives/community/>>

2.4 安装MySQL 8.0.20步骤

2.4.1 准备操作系统环境

我们使用的是vmware公司下的虚拟化产品workstation 创建一台虚拟机为ip地址=10.0.0.51

2.4.2 上传解压软件包

```
[root@db01 opt]# ls
mysql-8.0.20-linux-glibc2.12-x86_64.tar.xz
```

```
1 [root@db01 opt]# tar xf mysql-8.0.20-linux-glibc2.12-x86_64.tar.xz
2 [root@db01 opt]# ln -s /opt/mysql-8.0.20-linux-glibc2.12-x86_64 /usr/local/mysql
3 [root@db01 mysql]# vim /etc/profile
4 export PATH=/usr/local/mysql/bin:$PATH
5 [root@db01 mysql]# source /etc/profile
6 [root@db01 mysql]# mysql -V
7 mysql Ver 8.0.20 for Linux on x86_64 (MySQL Community Server - GPL)
```

2.4.3 卸载无用软件

```
1 [root@db01 ~]# yum remove -y mariadb-libs
```

2.4.4 创建用户

```
1 [root@db01 ~]# useradd mysql
```

2.4.5 创建目录并授权

```
1 [root@db01 ~]# mkdir -p /data/3306/data
2 [root@db01 ~]# chown -R mysql. /data
```

2.4.6 准备配置文件

```
1 [root@db01 ~]# vim /etc/my.cnf
2 [mysqld]
3 user=mysql
4 basedir=/usr/local/mysql
5 datadir=/data/3306/data
6 socket=/tmp/mysql.sock
7 [mysql]
8 socket=/tmp/mysql.sock
```

2.4.7 初始化MySQL系统数据

```
1 [root@db01 mysql]# yum install -y libaio libaio-devel
2 错误的输出:
3 [root@db01 mysql]# mysqld --initialize-insecure --user=mysql --basedir=/usr/local/mysql --datadir=/data/3
  306/data
4
5 ++++++
6 mysqld: error while loading shared libraries: libaio.so.1: cannot open shared object file: No such file o
  r directory
7 2020-12-14T10:25:50.587761Z 0 [ERROR] [MY-010457] [Server] --initialize specified but the data directory
  has files in it. Aborting.
8 ++++++
9
10 正确的输出:
11 [root@db01 mysql]# mysqld --initialize-insecure --user=mysql --basedir=/usr/local/mysql --datadir=/data/3
  306/data
```

2.4.8 准备启动脚本

```
1 [root@db01 support-files]# cp /usr/local/mysql/support-files/mysql.server /etc/init.d/mysqld
2 sys-v :
3 [root@db01 support-files]# service mysqld restart
4 Shutting down MySQL.. SUCCESS!
5 Starting MySQL... SUCCESS!
6 [root@db01 support-files]#
7
8 systemd:
9 [root@db01 support-files]# systemctl enable mysqld
10 mysqld.service is not a native service, redirecting to /sbin/chkconfig.
11 Executing /sbin/chkconfig mysqld on
12 [root@db01 support-files]#
13
14 [root@db01 support-files]# systemctl restart mysqld
15 [root@db01 support-files]# systemctl stop mysqld
```

 <<https://service.weibo.com/share/share.php?url>

c161d4cb09b0.png&title=2.MySQL%E7%9A%84%E5%AE%89%E8%A3%85%20%E2%88%9A%20%7C%202.1%20MySQL%E4%BA%A7%E5

12%E6%9C%88%E4%B9%8B%E9%97%B4%E7%89%88%E6%9C%AC5.7%20%C2%A0%3A%20%E5%BB%BA%E8%AE%AE%205.7.20%2B%20%E4%BB%A5%E4%B8%8A%E7%9A%84%E5%8F%8
%E5%87%86%E5%A4%87%E5%AE%89%E8%A3%85MySQL%E6%97%B6%EF%BC%8C%E8%AF%B7%E7%A1%AE%E5%AE%9A%E8%A6%81%E4%BD%BF%E7%94%A8%E5%93%AA%E4%B8%AA%E7%89%