



链滴

Mysql 编译安装

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原文链接: <https://ld246.com/article/1536655744199>

来源网站: [链滴](#)

许可协议: [署名-相同方式共享 4.0 国际 \(CC BY-SA 4.0\)](#)

<h2 id="一-环境准备">一、环境准备</h2>

<h3 id="1-软件下载">1.软件下载</h3>

<p>【Mysql 5.6 下载】

</p>

<h3 id="2-依赖安装">2.依赖安装</h3>

```
[root@iZ2zeibok6t3svl00dy8jyZ ~]# yum install -y ncurses-devel gcc-c++ cmake
```

<h3 id="3-创建用户">3.创建用户</h3>

```
[root@iZ2zeibok6t3svl00dy8jyZ ~]# useradd mysql -s /sbin/nologin
```

<h3 id="4-创建目录">4.创建目录</h3>

```
[root@iZ2zeibok6t3svl00dy8jyZ ~]# mkdir -p /data/mysql/soft # mysql软件安  
目录
```

```
[root@iZ2zeibok6t3svl00dy8jyZ ~]# mkdir -p /data/mysql/data/{data,bin_log,relay_log} # my  
sql数据目录
```

<h2 id="二-编译安装">二、编译安装</h2>

<h3 id="1-编译参数">1.编译参数</h3>

<p>Cmake 编译参数|||

|---|

</p>参数名|描述</stro
g>|默认值|备注</strong

|-DCMAKE_INSTALL_PREFIX| 软件安装目录 |/usr/local/mysql| |

|-DMYSQL_DATADIR| 数据目录 | |

|-DSYSCONFDIR| 配置文件目录 |/etc/my.cnf| |

|-DMYSQL_UNIX_ADDR|Socket 目录及文件 |/tmp/mysql.sock| |

|-DDEFAULT_CHARSET| 服务器字符集 |latin1| |

|-DDEFAULT_COLLATION| 服务器排序 |latin1_swedish_ci| |

|-DENIED_LOCAL_INFILE| 加载文件 |OFF| |

|-DWITHOUT_EXAMPLE_STORAGE_ENGINE| 存储引擎 | OFF| |

|-DWITHOUT_FEDERATED_STORAGE_ENGINE| 存储引擎 | OFF| |

|-DWITHOUT_PARTITION_STORAGE_ENGINE| 存储引擎 | OFF| <p></p>

<blockquote>

<p>强制安装的引擎: InnoDB(默认), MyISAM, MERGE, MEMORY, CSV</p>

</blockquote>

2.编译安装

```
[root@iZ2zeibok6t3svl00dy8jyZ data]# tar -xvzf mysql-5.6.41.tar.gz
```

```
[root@iZ2zeibok6t3svl00dy8jyZ mysql-5.6.41]# cmake -DCMAKE_INSTALL_PREFIX=/data/mys  
l/soft \
```

```
-DMYSQL_DATADIR=/data/mysql/data/data \
```

```
-DSYSCONFDIR=/data/mysql/soft/my.cnf \
```

```
-DMYSQL_UNIX_ADDR=/data/mysql/data/data/mysql.sock \
```

```

-DDEFAULT_CHARSET=utf8mb4 \
-DDEFAULT_COLLATION=utf8mb4_general_ci \
-DENABLED_LOCAL_INFILE=1
<p>[root@iZ2zeibok6t3svl00dy8jyZ mysql-5.6.41]# make -j          # -j:使用全部 CPU 来编译,
升速度<br>
[root@iZ2zeibok6t3svl00dy8jyZ mysql-5.6.41]# make install</p>
<pre> <code class="highlight-chroma"> <span class="highlight-line"> <span class="highlight-cl"> &lt;/font&gt;
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> ### 3.数据库初始

</span> </span> <span class="highlight-line"> <span class="highlight-cl"> &lt;font size=4&gt

</span> </span> </code> </pre>
<p>[root@iZ2zeibok6t3svl00dy8jyZ ~]# cd /usr/local/mysql/<br>
[root@iZ2zeibok6t3svl00dy8jyZ mysql]# scripts/mysql_install_db --user=mysql --basedir=/da
a/mysql/soft --datadir=/data/mysql/data/data</p>
<pre> <code class="highlight-chroma"> <span class="highlight-line"> <span class="highlight-cl"> &lt;/font&gt;
</span> </span> <span class="highlight-line"> <span class="highlight-cl">
</span> </span> <span class="highlight-line"> <span class="highlight-cl">
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> ### 4.参数配置
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> &lt;font size=4&gt

</span> </span> </code> </pre>
<p>[root@iZ2zeibok6t3svl00dy8jyZ ~]# vim /data/mysql/soft/my.cnf<br>
[mysqld]<br>
port = 13306<br>
server_id = 11<br>
basedir = /data/mysql/soft<br>
datadir = /data/mysql/data/data<br>
binlog_format=mixed<br>
log_bin=/data/mysql/data/bin_log/bin_log<br>
relay-log=/data/mysql/data/relay_log/relay_log<br>
explicit_defaults_for_timestamp=true<br>
skip-name-resolve<br>
back_log = 600<br>
max_connections = 1000<br>
max_connect_errors = 6000<br>
open_files_limit = 65535<br>
table_open_cache = 512<br>
max_allowed_packet = 4M<br>
binlog_cache_size = 1M<br>
max_heap_table_size = 8M<br>
tmp_table_size = 16M<br>
sort_buffer_size = 8M<br>
innodb_buffer_pool_size = 2048M<br>
innodb_flush_log_at_trx_commit = 2<br>
innodb_log_buffer_size = 2M<br>
slow_query_log = on<br>
long_query_time = 1<br>
sql_mode=NO_ENGINE_SUBSTITUTION,STRICT_TRANS_TABLES</p>
<pre> <code class="highlight-chroma"> <span class="highlight-line"> <span class="highlight-cl"> &lt;/font&gt;
</span> </span> <span class="highlight-line"> <span class="highlight-cl"> ### 5.环境变量

```

```

</span></span><span class="highlight-line"><span class="highlight-cl">&lt;font size=4&gt
</span></span></code></pre>
<p>[root@iZ2zeibok6t3svl00dy8jyZ ~]# echo 'export PATH=/data/mysql/soft/bin:/data/mysql/soft/lib:$PATH' &gt;&gt;/etc/profile<br>
[root@iZ2zeibok6t3svl00dy8jyZ ~]# source /etc/profile</p>
<pre><code class="highlight-chroma"><span class="highlight-line"><span class="highlight-cl">&lt;/font&gt;
</span></span><span class="highlight-line"><span class="highlight-cl">
</span></span><span class="highlight-line"><span class="highlight-cl">### 6.目录权限
</span></span><span class="highlight-line"><span class="highlight-cl">&lt;font size=4&gt

</span></span></code></pre>
<p>[root@iZ2zeibok6t3svl00dy8jyZ ~]# chown -R root.mysql /data/mysql/soft<br>
[root@iZ2zeibok6t3svl00dy8jyZ ~]# chown -R mysql.mysql /data/mysql/data</p>
<pre><code class="highlight-chroma"><span class="highlight-line"><span class="highlight-cl">&lt;/font&gt;
</span></span><span class="highlight-line"><span class="highlight-cl">
</span></span><span class="highlight-line"><span class="highlight-cl">### 7.开机启动
</span></span><span class="highlight-line"><span class="highlight-cl">&lt;font size=4&gt

</span></span></code></pre>
<p>[root@iZ2zeibok6t3svl00dy8jyZ ~]# cp /data/mysql/soft/support-files/mysql.server /etc/nit.d/mysqld<br>
[root@iZ2zeibok6t3svl00dy8jyZ ~]# chmod 755 /etc/init.d/mysqld<br>
[root@iZ2zeibok6t3svl00dy8jyZ ~]# chkconfig mysqld on</p>
<pre><code class="highlight-chroma"><span class="highlight-line"><span class="highlight-cl">&lt;/font&gt;
</span></span><span class="highlight-line"><span class="highlight-cl">
</span></span><span class="highlight-line"><span class="highlight-cl">## 三、数据库安全
</span></span><span class="highlight-line"><span class="highlight-cl">### 1.启动服务
</span></span><span class="highlight-line"><span class="highlight-cl">&lt;font size=4&gt

</span></span></code></pre>
<p>[root@iZ2zeibok6t3svl00dy8jyZ ~]# service mysqld restart<br>
Shutting down MySQL.. SUCCESS!<br>
Starting MySQL. SUCCESS!<br>
[root@iZ2zeibok6t3svl00dy8jyZ ~]#</p>
<pre><code class="highlight-chroma"><span class="highlight-line"><span class="highlight-cl">&lt;/font&gt;
</span></span><span class="highlight-line"><span class="highlight-cl">### 2.安全设置
</span></span><span class="highlight-line"><span class="highlight-cl">&lt;font size=4&gt

</span></span></code></pre>
<p>[root@iZ2zeibok6t3svl00dy8jyZ ~]#/data/mysql/soft/bin/mysql_secure_installation</p>
<p>NOTE: RUNNING ALL PARTS OF THIS SCRIPT IS RECOMMENDED FOR ALL MySQL<br>
SERVERS IN PRODUCTION USE! PLEASE READ EACH STEP CAREFULLY!</p>
<p>In order to log into MySQL to secure it, we'll need the current<br>
password for the root user. If you've just installed MySQL, and<br>
you haven't set the root password yet, the password will be blank,<br>
so you should just press enter here.</p>
<p>Enter current password for root (enter for none): # 输入当前 root 密码, 如果没有直接车<br>
OK, successfully used password, moving on...</p>

```

```
<p>Setting the root password ensures that nobody can log into the MySQL<br>root user without the proper authorisation.</p>
<p>Set root password? [Y/n] Y          # 是否设置 root 密码<br>
New password:                          # 输入 root 密码<br>
Re-enter new password:                  # 再次确定 root 密码<br>
Password updated successfully!<br>
Reloading privilege tables..<br>
... Success!</p>
<p>By default, a MySQL installation has an anonymous user, allowing anyone<br>to log into MySQL without having to have a user account created for<br>them. This is intended only for testing, and to make the installation<br>go a bit smoother. You should remove them before moving into a<br>production environment.</p>
<p>Remove anonymous users? [Y/n] Y      # 清除匿名用户<br>
... Success!</p>
<p>Normally, root should only be allowed to connect from 'localhost'. This<br>ensures that someone cannot guess at the root password from the network.</p>
<p>Disallow root login remotely? [Y/n] n  # 是否禁止 root 远程登录<br>
... skipping.</p>
<p>By default, MySQL comes with a database named 'test' that anyone can<br>access. This is also intended only for testing, and should be removed<br>before moving into a production environment.</p>
<p>Remove test database and access to it? [Y/n] Y  # 是否清除 test 数据库<br>
<ul>
<li>Dropping test database...<br>
... Success!</li>
<li>Removing privileges on test database...<br>
... Success!</li>
</ul>
<p>Reloading the privilege tables will ensure that all changes made so far<br>will take effect immediately.</p>
<p>Reload privilege tables now? [Y/n] Y          # 是否重新加载权限<br>
... Success!</p>
<p>All done! If you've completed all of the above steps, your MySQL<br>installation should now be secure.</p>
<p>Thanks for using MySQL!</p>
<p>Cleaning up...</p>
<pre> <code class="highlight-chroma"><span class="highlight-line"><span class="highlight
cl">&lt;/font&gt;
</span></span></code></pre>
```