MySQL

MySQL
Oracle Windows MySQL 3 mysql MySQL
MySQL /etc/my.cnf→/etc/mysql/my.cnf→/usr/local/mysql/etc → /.my.cnf
/etc/my.cnf Windows .cnf .ini

- mysql utf8 utf8mb4

mysql utf8 utf8mb4

> mysql utf8 utf8mb4

MySQL 5.5.3 utf8mb4 mb4 most bytes 4 unicode utf8mb4 utf8

utf8 , utf8mb4 ? mysql utf8 3 4 U
(Emoji Unicode ios android) Unicode

UTF-8 31 UTF-8 21 17 Unicode

utf8 Mysql UTF-8 Unicode

Mysql utf8 UTF-8 Mysql Unicode Unicode
Mysql 300 4 UTF-8

Mysql 4 UTF-8 utf8mb4 5.5.3 (select version();)
VARCHAR CHAR

mysql utf8 utf8mb4

my`5. 5. 3`

```
select version();
```

MySQL 5.5.3 utf8mb4 mb4 most bytes 4 unicode utf8mb4 utf8

```
--
--1                alter table j1 default character set utf8mb4;
ALTER DATABASE test CHARACTER SET = utf8mb4;
--2              alter table j1 modify name varchar(20) character set utf8mb4 not null default
ALTER TABLE `test` CHANGE COLUMN `name` `name` varchar(12) CHARACTER SET utf8mb4;

--                                          TEXT    LONGTEXT
--
alter table test convert to character set utf8mb4;
```

```
--
--        mysqldump       utf8mb4
```

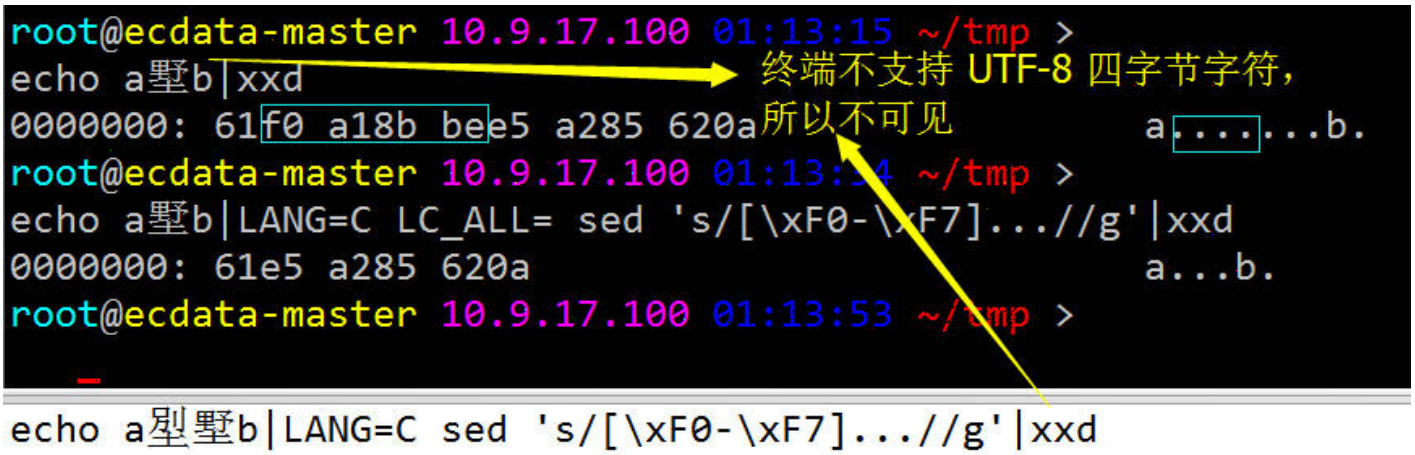
```
[client]
default-character-set = utf8mb4
[mysqld]
character-set-server=utf8mb4
collation-server=utf8mb4_unicode_ci
[mysql]
default-character-set = utf8mb4
```

java jdbc mysql-connector-java-5.1.14.jar

mysql u

shell

sed awk python perl load



java

MySql Unicode

```
for i=1->n
int c=str.codePointAt(i);
if (c<0x0000||c>0xffff) {
    return false;
}
```

web utf8

```
create table t1(name varchar(20) charset utf8mb4);
insert into t1 values(0xF0A09080);

set charset binary;
select * from t1;
```

utf-8

4 utf8 :

- windows xp: xp 4 utf8 ,
- windows 7: 4 utf8
- mac os x: 4 utf8
- iPhone/iPad: 4 utf8

shell 4 utf8 , Navicat SecureCRT

php :

php utf8, mysql text character set utf8: 4 utf8

php utf8mb4, mysql text character set utf8: , 4 utf8 "?"

php utf8mb4, mysql text character set utf8mb4: 4 utf8

, winxp , 4 utf8 . utf8mb4 , utf8mb4 utf8 , .