



链滴

# solo\_Tomcat 转 docker 并升级 (问题好多!)

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## 序

之前solo一直老老实实地运行Tomcat上，上个月有功夫升级，从v3.6.1升级到v3.6.2但失败了因没有时间之前也没来得及查找原因，最近想进行升级，又突然想试试用docker来运行，故开始折腾.....

### 一、 Docker 安装(CentOS7)

安装一些必要的系统工具：

```
sudo yum install -y yum-utils device-mapper-persistent-data lvm2
```

添加软件源信息：

```
sudo yum-config-manager --add-repo http://mirrors.aliyun.com/docker-ce/linux/cento/docker-ce.repo
```

更新 yum 缓存：

```
sudo yum makecache fast
```

安装 Docker-ce：

```
sudo yum -y install docker-ce
```

启动 Docker 后台服务

```
sudo systemctl start docker
```

完成之后可以测试一下docker是否安装成功

## 二、停止运行Tomcat

Tomcat路径下 `/bin`目录下执行

```
./shutdown.sh
```

目前Tomcat端口号为8080

## 三、 Docker部署solo

按照 [官方文档](#)来说， docker部署安装solo很简单。

### 1) 获取最新镜像

```
docker pull b3log/solo
```

### 2) 安装Mysql?

先已在docker容器外部进行了Mysql部署安装，现在只需要用即可

### 3) 启动容器

下面具体参数含义，详见 [官方文档](#)

```
docker run --name solo \
--network=host --env RUNTIME_DB="MYSQL" \
--env JDBC_USERNAME="root" \
--env JDBC_PASSWORD="XXX" \
--env JDBC_DRIVER="com.mysql.cj.jdbc.Driver" \
--env JDBC_URL="jdbc:mysql://localhost:3306/solo?useUnicode=yes&characterEncoding
UTF-8&useSSL=false&allowPublicKeyRetrieval=true&serverTimezone=UTC" \
b3log/solo --listen_port=8080 --server_scheme=https --server_host=aeneag.xyz --server_
ort=80
```

### 4) 报错来了

[INFO ]-[2019-07-16 15:55:15]-[org.b3log.solo.util.Markdowns:135]: [markdown-http] is not a

ailable, uses built-in [flexmark] for markdown processing. Please read FAQ section in user guide ([https://hacpai.com/article/1492881378588](https://hacpai.com/article/1492881378588)) for more details.

```
[INFO ]-[2019-07-16 15:55:15]-[org.b3log.solo.SoloServletListener:99]: Solo is booting [ver=3.3, servletContainer=jetty/9.4.12.v20180830, os=Linux, isDocker=true, markdownHttpAvailable=false, pid=1, runtimeDatabase=MYSQL, runtimeMode=PRODUCTION, jdbc.username=root, dbc.URL=jdbc:mysql://localhost:3306/solo?useUnicode=yes&characterEncoding=UTF-8&useSSL=false&allowPublicKeyRetrieval=true&serverTimezone=UTC]
```

```
[INFO ]-[2019-07-16 15:55:15]-[com.zaxxer.hikari.HikariDataSource:110]: HikariPool-1 - Starting...
```

```
[INFO ]-[2019-07-16 15:55:16]-[com.zaxxer.hikari.HikariDataSource:123]: HikariPool-1 - Start completed.
```

```
[INFO ]-[2019-07-16 15:55:16]-[org.b3log.solo.upgrade.V361_362:59]: Upgrading from version [3.6.1] to version [3.6.2]....
```

```
[ERROR]-[2019-07-16 15:55:16]-[org.b3log.latke.repository.jdbc.JdbcRepository:261]: Update failed
```

```
java.sql.SQLException: Incorrect string value: '\xF0\x9F\x98\x84 ' for column 'commentContent' at row 1
```

```
at com.mysql.cj.jdbc.exceptions.SQLException.createSQLException(SQLException.java:129)
```

```
at com.mysql.cj.jdbc.exceptions.SQLException.createSQLException(SQLException.java:97)
```

```
at com.mysql.cj.jdbc.exceptions.SQLExceptionsMapping.translateException(SQLExceptionsMapping.java:122)
```

```
at com.mysql.cj.jdbc.ClientPreparedStatement.executeInternal(ClientPreparedStatement.java:55)
```

```
at com.mysql.cj.jdbc.ClientPreparedStatement.execute(ClientPreparedStatement.java:372)
```

```
at com.zaxxer.hikari.pool.ProxyPreparedStatement.execute(ProxyPreparedStatement.java:44)
```

```
at com.zaxxer.hikari.pool.HikariProxyPreparedStatement.execute(HikariProxyPreparedStatement.java)
```

```
at org.b3log.latke.repository.jdbc.util.JdbcUtil.executeSql(JdbcUtil.java:91)
```

```
at org.b3log.latke.repository.jdbc.JdbcRepository.update(JdbcRepository.java:259)
```

```
at org.b3log.latke.repository.AbstractRepository.update(AbstractRepository.java:111)
```

```
at org.b3log.solo.repository.CommentRepository.update(CommentRepository.java:93)
```

```
at org.b3log.solo.repository.CommentRepository_$$jvst36c_1a.*d31update(CommentRepository_$$jvst36c_1a.java)
```

```
at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
```

```
at sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:62)
```

```
at sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:43)
```

```
at java.lang.reflect.Method.invoke(Method.java:498)
```

```
at org.b3log.latke.ioc.JavassistMethodHandler.invoke(JavassistMethodHandler.java:116)
```

```
at org.b3log.solo.repository.CommentRepository_$$jvst36c_1a.update(CommentRepository_$$jvst36c_1a.java)
```

```
at org.b3log.solo.upgrade.V361_362.perform(V361_362.java:83)
```

```
at org.b3log.solo.service.UpgradeService.upgrade(UpgradeService.java:85)
```

```
at org.b3log.solo.service.UpgradeService_$$jvst36c_a.*d8upgrade(UpgradeService_$$jvst36c_a.java)
```

```
at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
```

```
at sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:62)
```

```
at sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:43)
```

```
at java.lang.reflect.Method.invoke(Method.java:498)
```

```
at org.b3log.latke.ioc.JavassistMethodHandler.invoke(JavassistMethodHandler.java:116)
```

```
at org.b3log.solo.service.UpgradeService_$$jvst36c_a.upgrade(UpgradeService_$$jvst36c_a.java)
```

```
at org.b3log.solo.SoloServletListener.contextInitialized(SoloServletListener.java:111)
at org.eclipse.jetty.server.handler.ContextHandler.callContextInitialized(ContextHandler.java:92)
at org.eclipse.jetty.servlet.ServletContextHandler.callContextInitialized(ServletContextHandler.java:558)
at org.eclipse.jetty.server.handler.ContextHandler.startContext(ContextHandler.java:917)
at org.eclipse.jetty.servlet.ServletContextHandler.startContext(ServletContextHandler.java:370)

at org.eclipse.jetty.webapp.WebAppContext.startWebapp(WebAppContext.java:1497)
at org.eclipse.jetty.webapp.WebAppContext.startContext(WebAppContext.java:1459)
at org.eclipse.jetty.server.handler.ContextHandler.doStart(ContextHandler.java:847)
at org.eclipse.jetty.servlet.ServletContextHandler.doStart(ServletContextHandler.java:287)
at org.eclipse.jetty.webapp.WebAppContext.doStart(WebAppContext.java:545)
at org.eclipse.jetty.util.component.AbstractLifeCycle.start(AbstractLifeCycle.java:68)
at org.eclipse.jetty.util.component.ContainerLifeCycle.start(ContainerLifeCycle.java:138)
at org.eclipse.jetty.server.Server.start(Server.java:416)
at org.eclipse.jetty.util.component.ContainerLifeCycle.doStart(ContainerLifeCycle.java:108)
at org.eclipse.jetty.server.handler.AbstractHandler.doStart(AbstractHandler.java:113)
at org.eclipse.jetty.server.Server.doStart(Server.java:383)
at org.eclipse.jetty.util.component.AbstractLifeCycle.start(AbstractLifeCycle.java:68)
at org.b3log.solo.Starter.main(Starter.java:177)
[ERROR]-[2019-07-16 15:55:16]-[org.b3log.solo.upgrade.V361_362:92]: Upgrade failed!
org.b3log.latke.repository.RepositoryException: java.sql.SQLException: Incorrect string value: '
xF0\x9F\x98\x84 ' for column 'commentContent' at row 1
at org.b3log.latke.repository.jdbc.JdbcRepository.update(JdbcRepository.java:263)
at org.b3log.latke.repository.AbstractRepository.update(AbstractRepository.java:111)
at org.b3log.solo.repository.CommentRepository.update(CommentRepository.java:93)
at org.b3log.solo.repository.CommentRepository*$_$_jvst36c_1a.*d31update(CommentRepository*$_$_jvst36c_1a.java)
at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
at sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:62)
at sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:43)

at java.lang.reflect.Method.invoke(Method.java:498)
at org.b3log.latke.ioc.JavassistMethodHandler.invoke(JavassistMethodHandler.java:116)
at org.b3log.solo.repository.CommentRepository*$_$_jvst36c_1a.update(CommentRepository*$_$_jvst36c_1a.java)
at org.b3log.solo.upgrade.V361_362.perform(V361_362.java:83)
at org.b3log.solo.service.UpgradeService.upgrade(UpgradeService.java:85)
at org.b3log.solo.service.UpgradeService*$_$_jvst36c_a.*d8upgrade(UpgradeService*$_$_jvst36c_a.java)
at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
at sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:62)
at sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:43)

at java.lang.reflect.Method.invoke(Method.java:498)
at org.b3log.latke.ioc.JavassistMethodHandler.invoke(JavassistMethodHandler.java:116)
at org.b3log.solo.service.UpgradeService*$_$_jvst36c_a.upgrade(UpgradeService*$_$_jvst36c_a.java)
at org.b3log.solo.SoloServletListener.contextInitialized(SoloServletListener.java:111)
at org.eclipse.jetty.server.handler.ContextHandler.callContextInitialized(ContextHandler.java:92)
at org.eclipse.jetty.servlet.ServletContextHandler.callContextInitialized(ServletContextHandler.java:558)
```



```
at org.eclipse.jetty.server.handler.ContextHandler.startContext(ContextHandler.java:917)
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at org.eclipse.jetty.server.handler.ContextHandler.doStart(ContextHandler.java:847)
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at org.eclipse.jetty.webapp.WebAppContext.doStart(WebAppContext.java:545)
at org.eclipse.jetty.util.component.AbstractLifeCycle.start(AbstractLifeCycle.java:68)
at org.eclipse.jetty.util.component.ContainerLifeCycle.start(ContainerLifeCycle.java:138)
at org.eclipse.jetty.server.Server.start(Server.java:416)
at org.eclipse.jetty.util.component.ContainerLifeCycle.doStart(ContainerLifeCycle.java:108)
at org.eclipse.jetty.server.handler.AbstractHandler.doStart(AbstractHandler.java:113)
at org.eclipse.jetty.server.Server.doStart(Server.java:383)
at org.eclipse.jetty.util.component.AbstractLifeCycle.start(AbstractLifeCycle.java:68)
at org.b3log.solo.Starter.main(Starter.java:177)
Caused by: java.sql.SQLException: Incorrect string value: '\xF0\x9F\x98\x84 ' for column 'contentContent' at row 1
at com.mysql.cj.jdbc.exceptions.SQLError.createSQLException(SQLError.java:129)
at com.mysql.cj.jdbc.exceptions.SQLError.createSQLException(SQLError.java:97)
at com.mysql.cj.jdbc.exceptions.SQLExceptionsMapping.translateException(SQLExceptionsMapping.java:122)
at com.mysql.cj.jdbc.ClientPreparedStatement.executeInternal(ClientPreparedStatement.java:55)
at com.mysql.cj.jdbc.ClientPreparedStatement.execute(ClientPreparedStatement.java:372)
at com.zaxxer.hikari.pool.ProxyPreparedStatement.execute(ProxyPreparedStatement.java:44)
at com.zaxxer.hikari.pool.HikariProxyPreparedStatement.execute(HikariProxyPreparedStatement.java)
at org.b3log.latke.repository.jdbc.util.JdbcUtil.executeSql(JdbcUtil.java:91)
at org.b3log.latke.repository.jdbc.JdbcRepository.update(JdbcRepository.java:259)
... 36 more
[ERROR]-[2019-07-16 15:55:16]-[org.b3log.solo.service.UpgradeService:95]: Upgrade failed, please contact the Solo developers or reports this issue: [https://github.com/b3log/solo/issues/new](https://github.com/b3log/solo/issues/new)
java.lang.Exception: Upgrade failed from version [3.6.1] to version [3.6.2]
at org.b3log.solo.upgrade.V361_362.perform(V361_362.java:94)
at org.b3log.solo.service.UpgradeService.upgrade(UpgradeService.java:85)
at org.b3log.solo.service.UpgradeService*$$jvst36c_a.*d8upgrade(UpgradeService*$$jvst36c_a.java)
at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)
at sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:62)
at sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:43)

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at org.eclipse.jetty.servlet.ServletContextHandler.callContextInitialized(ServletContextHandler.java:558)
at org.eclipse.jetty.server.handler.ContextHandler.startContext(ContextHandler.java:917)
at org.eclipse.jetty.servlet.ServletContextHandler.startContext(ServletContextHandler.java:370)
```









```
ssl_ciphers ECDHE-RSA-AES128-GCM-SHA256:ECDHE:ECDH:AES:HIGH:!NULL:!aNULL:!M
5:!ADH:!RC4;
ssl_protocols TLSv1 TLSv1.1 TLSv1.2;
ssl_prefer_server_ciphers on;
location / {
    root html;
    index index.html index.htm;
    proxy_pass http://myperson$request_uri;
    proxy_set_header Host $host:$server_port;
    proxy_set_header X-Real-IP $remote_addr;
    client_max_body_size 10m;
}
}
```

## 六、尾

至此，soloTomcat转Docker并升级，还能同时运行已全部完成，花的不少时间，最耗时的就解决错误，太费时间了 ☹cold\_sweat