# PHP连接GBase 8s（GBasedbt版）配置

## 一、使用ODBC连接

**操作系统：**RHEL 6U9 64bit

**必需组件：**

unixODBC unix下的odbc

 php 操作系统自带的php

 php-odbc odbc连接php组件

 httpd apache httpd服务器

**数据库连接工具：**GBase 8s CSDK

**配置前提**

1. GBase 8s（GBasedbt版）数据库服务器已经正常启动
2. GBase 8s（GBasedbt版）客户端连接工具已经安装

### 配置步骤

#### odbc配置

1）将以下内容（来源于$GBASEDBTDIR/etc/odbcinst.ini）增加到/etc/odbcinst.ini配置文件中，并按GBASEDBTDIR修改配置

[GBase ODBC DRIVER]

Driver=/home/gbase/dbt/lib/cli/iclit09b.so # 实际GBASEDBTDIR目录

Setup=/home/gbase/dbt/lib/cli/iclit09b.so # 实际GBASEDBTDIR目录

APILevel=1

ConnectFunctions=YYY

DriverODBCVer=03.51

FileUsage=0

SQLLevel=1

smProcessPerConnect=Y

 2）将以下内容（来源于$GBASEDBTDIR/etc/odbc.ini）增加到/etc/odbc.ini配置文件中，并按实际数据库配置修改配置参数内容

[ODBC Data Sources]

gbasedb=GBase ODBC DRIVER

;

; Define ODBC Database Driver's Below - Driver Configuration Section

;

[gbasedb] # 该名称为odbc DSN名称

Driver=/home/gbase/dbt/lib/cli/iclis09b.so # 实际GBASEDBTDIR目录

Description=GBase ODBC DRIVER

Database=testdb

LogonID=gbasedbt

pwd=gbasedbt

Servername=gbasedbt

CursorBehavior=0

CLIENT\_LOCALE=zh\_CN.utf8 # 实际环境变量

DB\_LOCALE=zh\_CN.utf8 # 实际环境变量

TRANSLATIONDLL=/home/gbase/dbt/lib/esql/igo4a304.so # 实际GBASEDBTDIR目录

;

; UNICODE connection Section

;

[ODBC]

;uncomment the below line for UNICODE connection

UNICODE=UCS-4

;

; Trace file Section

;

Trace=0

TraceFile=/tmp/odbctrace.out

InstallDir=/home/gbase/dbt # 实际GBASEDBTDIR目录

TRACEDLL=idmrs09a.so

 3）用户环境变量中增加ODBCINI，GBASEDBTDIR，LD\_LIBRARY\_PATH

export ODBCINI=/etc/odbc.ini

export GBASEDBTDIR=/home/gbase/dbt

export LD\_LIBRARY\_PATH=$GBASEDBTDIR/lib:$GBASEDBTDIR/lib/cli:$GBASEDBTDIR/lib/esql:$GBASEDBTDIR/incl/cli:$GBASEDBTDIR/incl/esql:$LD\_LIBRARY\_PATH

 4）使用isql 命令测试odbc连接： isql gbasedb



#### httpd配置

1. 将环境变量增加到/etc/sysconfig/httpd中

ODBCINI=/etc/odbc.ini

GBASEDBTDIR=/home/gbase/dbt

export ODBCINI GBASEDBTDIR

GBASE\_LIBRARY\_PATH=$GBASEDBTDIR/lib:$GBASEDBTDIR/lib/cli:$GBASEDBTDIR/lib/esql:$GBASEDBTDIR/incl/cli:$GBASEDBTDIR/incl/esql:/lib64:/usr/lib64:/usr/local/lib64:/lib:/usr/lib:/usr/local/lib

if test "x$LD\_LIBRARY\_PATH" != "x" ; then

 LD\_LIBRARY\_PATH= $GBASE\_LIBRARY\_PATH:$LD\_LIBRARY\_PATH

else

 LD\_LIBRARY\_PATH=$GBASE\_LIBRARY\_PATH

Fi

export LD\_LIBRARY\_PATH

 通过apachectl restart重启apache http服务器，使配置生效

#### 测试通过odbc连接到GBase 8s（GBasedbt版）数据库

1. 在/var/www/html/下创建测试连接的odbc\_dbt.php，内容如下

<?php

 $conn=odbc\_connect('gbasedb','',''); # 连接到 dsn = gbasedb

 if (!$conn)

 {exit("Connection Failed: " . $conn);}

 $sql="SELECT col1,col2 FROM t1";

 $rs=odbc\_exec($conn,$sql);

 if (!$rs)

 {exit("Error in SQL");}

 echo "<table><tr>";

 echo "<th>名</th>";

 echo "<th>姓</th></tr>";

 while (odbc\_fetch\_row($rs))

 {

 $col1=odbc\_result($rs,"col1");

 $col2=odbc\_result($rs,"col2");

 echo "<tr><td>$col1</td>";

 echo "<td>$col2</td></tr>";

 }

 odbc\_close($conn);

echo "</table>";

1. 通过php -e odbc\_dbt.php测试连接



1. 通过网页浏览器测试连接



## 二、使用PDO(pdo\_gbasedbt)连接

pdo\_gbasedbt从pdo\_informix修改而来

共享下载地址：https://pan.baidu.com/s/1FtoYGC7uXDa2kL13gYNHNw

**操作系统：**RHEL 6U9 64bit

**必需组件：**

unixODBC unix下的odbc

 php 操作系统自带的php

 php-devel php开发组件，包含phpize工具

 php-pdo php-pdo组件

 httpd apache httpd服务器

 automake 编译组件

 autoconf 编译组件

 gcc 编译组件，编译器

注1：php-devel一般位于安装光盘的dvd2上

注2：若编译过程中涉及到其他组件，需先安装后再继续

**数据库连接工具：**GBase 8s CSDK

**配置前提**

1. GBase 8s（GBasedbt版）数据库服务器已经正常启动
2. GBase 8s（GBasedbt版）客户端连接工具已经安装

### 集成配置步骤

#### pdo\_gbasedbt集成编译配置

1. 用户环境变量中增加GBASEDBTDIR，LD\_LIBRARY\_PATH

export GBASEDBTDIR=/home/gbase/dbt

export LD\_LIBRARY\_PATH=$GBASEDBTDIR/lib:$GBASEDBTDIR/lib/cli:$GBASEDBTDIR/lib/esql:$GBASEDBTDIR/incl/cli:$GBASEDBTDIR/incl/esql:$LD\_LIBRARY\_PATH

1. php集成pdo\_gbasedbt步骤
2. 上传并解压PDO\_GBASEDBT包
3. 通过php-config获取配置两个信息：php-config路径，extension-dir目录



1. 使用phpize扩展php动态模块pdo\_gbasedbt

[root@localhost PDO\_GBASEDBT-1.3.3]# phpize

Configuring for:

PHP Api Version: 20090626

Zend Module Api No: 20090626

Zend Extension Api No: 220090626

1. 配置安装pdo\_gbasedbt

其中prefix指向前面获取的extension-dir目录

with-php-config指向前面获取的php-config路径

with-pdo-gbasedbt指向GBASEDBTDIR

[root@localhost PDO\_GBASEDBT-1.3.3]# ./configure --prefix=/usr/lib64/php/modules/ --with-php-config=/usr/bin/php-config --with-pdo-gbasedbt=/home/gbase/dbt/

[root@localhost PDO\_GBASEDBT-1.3.3]# make

[root@localhost PDO\_GBASEDBT-1.3.3]# make install

Installing shared extensions: /usr/lib64/php/modules/

1. 检查pdo\_gbasedbt.so已经正常生成

[root@localhost PDO\_GBASEDBT-1.3.3]# ll /usr/lib64/php/modules/pdo\_gbasedbt.so

-rwxr-xr-x 1 root root 144929 Jun 12 04:35 /usr/lib64/php/modules/pdo\_gbasedbt.so

#### httpd及php配置

1. 在/etc/php.d/目录下增加pdo\_gbasedbt.ini配置文件，内容如下：

; Enable pdo extension module

extension=pdo\_gbasedbt.so

1. 将环境变量增加到/etc/sysconfig/httpd中

GBASEDBTDIR=/home/gbase/dbt

export GBASEDBTDIR

GBASE\_LIBRARY\_PATH=$GBASEDBTDIR/lib:$GBASEDBTDIR/lib/cli:$GBASEDBTDIR/lib/esql:$GBASEDBTDIR/incl/cli:$GBASEDBTDIR/incl/esql:/lib64:/usr/lib64:/usr/local/lib64:/lib:/usr/lib:/usr/local/lib

if test "x$LD\_LIBRARY\_PATH" != "x" ; then

 LD\_LIBRARY\_PATH= $GBASE\_LIBRARY\_PATH:$LD\_LIBRARY\_PATH

else

 LD\_LIBRARY\_PATH=$GBASE\_LIBRARY\_PATH

Fi

export LD\_LIBRARY\_PATH

# 如果数据库涉及到字符集等其它环境变量，需要一并增加

DB\_LOCALE=zh\_CN.utf8

CLIENT\_LOCALE=zh\_CN.utf8

export DB\_LOCALE CLIENT\_LOCALE

 通过apachectl restart重启apache http服务器，使配置生效

#### 测试通过pdo\_gbasedbt连接到GBase 8s（GBasedbt版）数据库

1. 在/var/www/html/下创建测试连接的odbc\_dbt.php，内容如下

<?php

 $dbh = new PDO("gbasedbt:host=192.168.80.90; service=10088; database=testdb; server=gbasedbt; protocol=onsoctcp","gbasedbt","gbasedbt");

 # 指定数据库连接指令

 $sth1 = $dbh->prepare("select col1,col2 from t1");

 $sth1->execute();

 echo "<table><tr>pdo\_gbasedbt</tr><tr>";

 echo "<th>名</th>";

 echo "<th>姓</th></tr>";

 while( $row = $sth1->fetch() )

 {

 $col1=$row["COL1"];

 $col2=$row["COL2"];

 echo "<tr><td>$col1</td>";

 echo "<td>$col2</td></tr>";

 }

 $dbh = null;

 echo "</table>";

1. 通过php -e pdo\_dbt.php测试连接



1. 通过网页浏览器测试连接

