

# Configuration Guide

## Configuring an Alternative Database for SAS Shared Services

In the second maintenance release for SAS 9.2, SAS provides support for third-party vendor databases to provide persistent storage for the SAS Shared Services Web application. The SAS Shared Services Web application requires a JDBC data source for storing comments that are created with the SAS Shared Apps Web application. If you prefer to use a third-party vendor database instead of SAS Table Server, then the database must be configured with the tables needed by SAS Shared Services. The connection information for the database must be provided to the SAS Deployment Wizard. The following information must be provided:

- Host name of the database server
- Port number of the database server or listener
- Database name or SID
- User ID and password
- Directory location of JDBC drivers for the database

The SAS Deployment Wizard can create the tables that are needed by SAS Shared Services. Select the **Automatically create tables and load data** check box to use this feature. If you prefer to create the tables yourself, then clear the check box and submit the SQL statements after the wizard finishes. The SQL statements are located in *SAS-install-dir\SASSharedServices\9.2\Config\Data*.

The rest of this document describes database vendor-specific information such as sample database and user creation commands, and JDBC URLs.

### MySQL

Before running the SAS Deployment Wizard, you must have a user ID with permission to access and create tables. The following steps show sample steps for creating a user for MySQL:

1. Log on to MySQL as the root user.
2. Create a user account:

```
create user sharedservices@'%' identified by 'password';
```

3. Grant access to the database for the new account:

```
grant all on sharedservices.* to sharedservices@'%';
```

**Note:** Do not create the database. The SAS Deployment Wizard issues the CREATE DATABASE statement when it runs.

You must also install the JDBC drivers from MySQL Connector/J on the machine that is hosting the Web application server. The SAS Deployment Wizard configures the Web application server with a JDBC data source that uses a URL that is similar to the following example:

```
jdbc:mysql://host:3306/SharedServices
```

If you want the SAS Deployment Wizard to automatically configure and load tables, then confirm that the user account can perform the query `select 1` successfully before you start the SAS Deployment Wizard.

## Oracle Database

Before running the SAS Deployment Wizard, you must have a database instance and user ID with permission to access and create tables. The following steps show sample steps for creating a database instance and user.

1. Create an Oracle instance. This can be done with the Database Configuration Assistant for Oracle database. When the wizard prompts you for the SID, enter `sharedservices`.

2. Connect to the Oracle instance:

```
sqlplus sys@sharedse as sysdba
```

3. Create a user account:

```
create user sharedservices identified by password default tablespace  
user temporary tablespace temp;
```

4. Grant access to the database for the new account:

```
grant connect,resource to sharedservices;
```

The Oracle Database JDBC drivers are located in `ORACLE_HOME/product/version/install/jdbc/lib`. The SAS Deployment Wizard configures your Web application server with a JDBC data source that uses a URL that is similar to the following example:

```
jdbc:oracle:thin:@host:1521:SharedServices
```

If you want the SAS Deployment Wizard to automatically configure and load tables, then confirm that the user account can perform the query `select 1 from dual` successfully before you start the SAS Deployment Wizard.

## IBM DB2

Before running the SAS Deployment Wizard, you must have a database instance and user ID with permission to access and create tables. When the database is created, the table structure requires specific bufferpool sizes. The following steps show sample steps for creating a database instance.

1. Access the DB2 Command Line Processor.

2. Create a database:

```
create database shareddb on /db2 alias shared
```

3. Connect to the database:

```
connect to shared
```

4. Create a bufferpool and tablespace:

```
create bufferpool shared_bp size 8192 pagesize 32 k
create large tablespace shared1 pagesize 32 k managed by database using
(file '/db2/shared/ts/shareddb/shared1.ts' 50m) autoresize yes
bufferpool shared_bp
```

5. Grant database administration authority:

```
grant dbadm on database to user sharedservices
```

**Note:** IBM DB2 uses operating system user IDs by default. Make sure that you identify a user ID that has an account on the operating system.

The IBM DB2 JDBC drivers are located in `DB2_HOME/java`. The SAS Deployment Wizard configures your Web application server with a JDBC data source that uses a URL that is similar to the following example:

```
jdbc:db2://host:50002/shared
```

If you want the SAS Deployment Wizard to automatically configure and load tables, then confirm that the user account can perform the query `select 1 from sysibm.sysdummy1` successfully before you start the SAS Deployment Wizard.