Database Backup, Re-Creation, and Porting

CTP can help you backup and re-create/port the CTP database. From a backup file, you can re-create the exact same database in a new location, or you can port it to an alternative database type (MySQL, HyperSQL, Oracle). For example, you could back up a HyperSQL database, then re-create it as an Oracle or MySQL database. Or, you could capture the current state of a database and use that for a rollback.
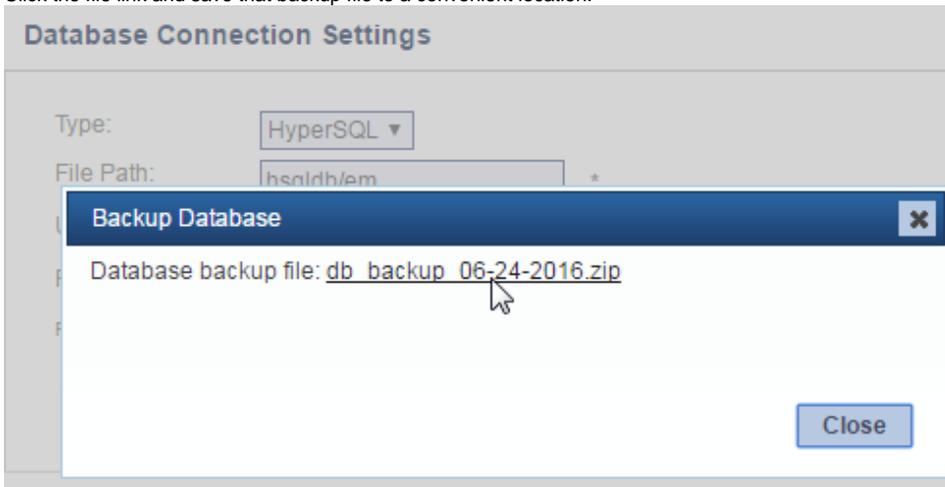
Creating a Backup

To back up a database:

1. Choose **Administration> Database Configuration**.

2. Click the **Backup Database** button. A dialog will open with a link to the zip file that's created for the backup.
3. Click the file link and save that backup file to a convenient location.

Creating a Database from a Backup

To create a new database from the backup (either an exact duplicate in a new location or a new version ported to another database type):

1. Choose **Administration> Database Configuration**.

2. Click the **Create Database** button.
3. In the Create Database dialog, indicate the desired database type and the connection settings for the new database.

To create a new database of the same database type, indicate a new database location (e.g., schema, SID, service name, or path). To prevent overwriting, you cannot specify an existing database location. You do not need to remove the existing EM databases; just create the new database in a different location:

- HyperSQL: Enter a new file path.
- MySQL: Enter a new schema.
- Oracle: Enter a new SID or service name.

To port a database to a different database type, select the target database type, then specify the desired location for the new database.

To create a new database account from this interface, enter the desired username and password, check **Create a new user**, then confirm the password. For new accounts on Oracle, you can also specify a data tablespace and temp tablespace—or you can leave those fields empty to use the defaults (<USER>_DATA> and <USER_TEMP>).

4. At the bottom of the dialog, click **Choose File**, then select the location of the backup zip file.

5. Click **Create**.

A new database will be created in the specified location, then it will be populated with the data saved in the backup file. After a new database is successfully created, CTP will ask you if you want it to delete the previous database (the database whose connection settings are shown in the main page behind the dialog).
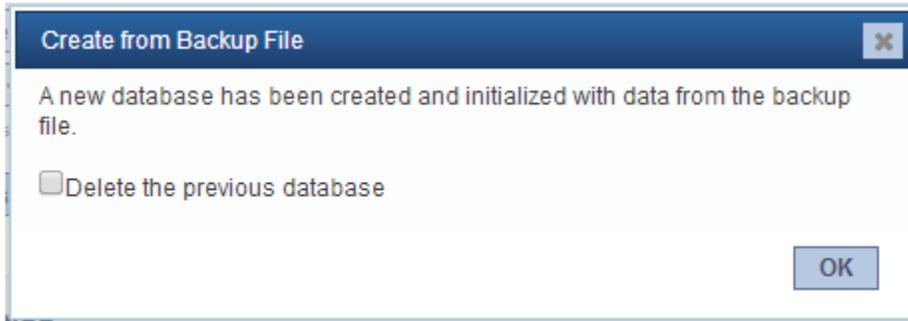
Backing Up Databases with Large Files (MySQL Database Only)

If you are using a MySQL database and the backup fails, try increasing the MySQL size limits as follows:

1. Find the my.cnf/my.ini file for your installation of MySQL. For MySQL 5.7, see http://dev.mysql.com/doc/refman/5.7/en/option-files.html. For other versions, see the appropriate manual at http://dev.mysql.com/doc/index.html.
2. Edit the file to use the parameter settings outlined below.
3. Restart the MySQL Service

[mysqld]

- innodb = ON
- innodb_log_file_size = 5242880000 // This must be set to be 10x the largest content being loaded for the public marketplace.
- max_allowed_packet = 1G
- innodb_file_per_table = 1
- innodb_file_format = Barracuda

[mysql]

- max_allowed_packet = 1G

[client]

- max_allowed_packet = 1G