
Posted by [shalamyansky](#) on Wed, 12 Oct 2022 17:41:37 GMT
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Windows Server 2012
Firebird 4.0.2.2816 (64-bit,pdb)

fbcient 4.0.2.2816
Java 8.0.2410.7
jna 5.12.1
Jaybird 4.0.6.java8

spring.datasource.url:jdbc:firebirdsql:local:testbase?encoding=UTF8

Posted by [hvlad](#) on Wed, 12 Oct 2022 17:48:33 GMT

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Posted by [shalamyansky](#) on Wed, 12 Oct 2022 17:58:41 GMT

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https://firebirdsql.github.io/jaybird-manual/jaybird_manual.html#driver-native-maven

2.2.2. NATIVE and LOCAL types

The NATIVE and LOCAL types (JDBC Type 2) use a JNA proxy to access the Firebird client library and requires installation of the Firebird client. The NATIVE driver type is used to access the remote database server, the LOCAL type accesses the database server running on the same host by means of IPC (Inter-Process Communication). Performance of NATIVE driver is approximately 10% lower compared to the PURE_JAVA driver, but LOCAL type has up to 30% higher performance compared to the PURE_JAVA driver when connecting the server on the same host. This is mostly due to the fact that TCP/IP stack is not involved in this mode.

To create a connection using the NATIVE JDBC driver to connect to a remote server you have to use the following JDBC URL with the native subprotocol:

`jdbc:firebirdsql:native:host[/port]:<path to database>`

When connecting to a local database server using the LOCAL driver, you should use following:

`jdbc:firebirdsql:local:<absolute path to database>`

In addition to Jaybird, this requires a native Firebird client library, and JNA 5.5.0 needs to be on the classpath.

Posted by [hvlad](#) on Wed, 12 Oct 2022 19:43:43 GMT

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Posted by [shalamyansky](#) on Wed, 12 Oct 2022 20:58:27 GMT

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Posted by [SD](#) on Wed, 12 Oct 2022 21:39:31 GMT
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Posted by [sim_84](#) on Thu, 13 Oct 2022 06:50:03 GMT
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Providers = Remote,Loopback,Engine13

Posted by [kdv](#) on Thu, 13 Oct 2022 10:26:38 GMT
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Posted by [shalamyansky](#) on Thu, 13 Oct 2022 15:54:07 GMT
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Upon receiving a local connection string, the Firebird client will first attempt to make a direct, embedded connection to the database file, bypassing authentication but respecting the SQL privileges and restrictions of the supplied user and/or role name. That is, if the Engine12 provider is enabled in `firebird.conf` or `databases.conf` — which it is by default. If the database file exists, but the connection fails because the client process doesn't have the required access privileges to the file, a client-server connection is attempted (by the Loopback provider), in this order...

P.S.

jaybird:local:xnet://testdb

Posted by [shalamyansky](#) on Thu, 13 Oct 2022 16:22:02 GMT
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Posted by [SD](#) on Thu, 13 Oct 2022 21:40:55 GMT
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Posted by [shalamyansky](#) on Fri, 14 Oct 2022 12:38:21 GMT
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