Start

• New connection dialog opens and MySQL is selected from the Driver dropdown.
• Here the required fields are filled in so all controls are active.

Start
1. Enter Properties

Enter the desired connection properties

- For MySQL, localhost and port 3306 are defaults filled out for you.
- In this case we will enter the Username and Password.
2. Test Connection Click

Click the Test Connection button

Start → 1 → 2

3 (a/b)

4

5
### 3. Test Connection (version a)

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Driver</td>
<td>MySQL</td>
</tr>
<tr>
<td>Host</td>
<td>localhost</td>
</tr>
<tr>
<td>Port</td>
<td>3306</td>
</tr>
<tr>
<td>Database</td>
<td></td>
</tr>
<tr>
<td>Other Properties</td>
<td></td>
</tr>
<tr>
<td>Username</td>
<td>root</td>
</tr>
<tr>
<td>Password</td>
<td>*******</td>
</tr>
</tbody>
</table>

#### 3a. Attempt Connection (version a)

After the Test Connection button is clicked:

- Only Help and Cancel buttons remain active. All other controls are disabled.
- Message appears at the left:
  - 'Attempting to connect'?
  - 'Trying connection'?
  - 'Testing connection'?
  Any suggestions?...
- Animated indeterminate progress indicator is displayed.
- Cancel button replaces Test Connection button. Clicking it cancels the test only. It does not close the dialog box.

![Diagram](image.png)

Start

1

2

3 (a/b)

Y

4

N

5
3. Test Connection (version b)

Driver: MySQL
Host: localhost
Port: 3306
Database: 
Other Properties: 
Username: root
Password: ******

Remember password
See help for information on security risks

Attempting to connect
Connect every time Netbeans is started

3b. Attempt Connection (version b)
Alternate look and feel for the connection test. Same interaction otherwise.
4. Connection Successful

- All controls become enabled.
- Test Connection button replaces Cancel button.
- Animated indeterminate progress indicator disappears.
- Message appears to the left of Test Connection button: 'Connection Successful'?
  Suggestions?...
- Any valid change in the value of the Driver control, the Enter JDBC URL checkbox or any of the textfields will cause the success message to vanish.

Start → 1 → 2 → Y → 4
N → 3 (a/b) → 5
5. Unable to Connect

Driver: MySQL
Enter JDBC URL connection string

Host: localhost
Port: 3306
Database: 
Other Properties: 

Username: root
Password: *******
Remember password
See help for information on security risks

Unable to connect. Access denied for user 'root'@'localhost' (using password:YES)

Connect every time Netbeans is started

Test Connection

Start 1 2
3 (a/b) Y 4
N 5

5. Unable to Connect

- All controls are active except for the Ok button which is disabled.
- Full error/diagnostic message appears inside a textbox at the left of the Test Connection button. The textbox scrolls if necessary. The textbox is not editable, but the text itself is selectable for copying to the clipboard to aid in troubleshooting.
- Any valid change in the value of the Driver control, the Enter JDBC... checkbox or any of the textfields will cause the failure message to vanish and the Ok button to enable.
Test Connection High Level UI Workflow

Key
- Start/Stop
- User action
- Visual feedback
- Decision
- Defined process
- Direction of flow
- Alternate flow
- Note

Open New Connection Dialog → Enable form → Edit properties

Ok button will remain disabled while required fields remain empty

Click Test Connection → Disable form, show progress indicator

Connection Success? → Enable form, show success → Click Ok
Y

Attempt connection → Click Cancel (test conn)

N

Enable form, show failure

Click Cancel

Disconnect

User cancels test in progress by clicking the Cancel button next to the Progress Indicator

Click Cancel

Disconnect

Close New Connection Dialog

Click Ok

Click Cancel

Close New Connection Dialog

Click Cancel

Close New Connection Dialog