1. Upgrade Database
   i. Modify the following properties file to reflect the database vendor, username, and password. You can create one schema or database for all the cells or five unique ones.

<table>
<thead>
<tr>
<th>In edu.harvard.i2b2.data/Release_1-8/Upgrade folder</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metadata/db.properties</td>
</tr>
<tr>
<td>Pmdata/db.properties</td>
</tr>
</tbody>
</table>

   Rebuild Procedures - Need extra assistance, More Information

   Run the ant commands under each cell subfolder as below. Details

   Run the CRC Sql Procedures (ie for PostgreSQL)
   Crcdata/scripts/procedures/postgresql/*.sql

   iv. Run the Metadata Sql Procedures (ie for PostgreSQL)
   Metadata/scripts/procedures/postgresql/*.sql

   iv. (Not Common) Update HIVE_CELL_PARAMS table with cell properties parameters. Details

2. Upgrade Core i2b2 Server
   i. Shutdown wildfly
   ii. Move all the files from your wildfly-x.0.z.Final/standalone/deployments folder to a backup folder. (major version number x can be as 17,18, update version number z can be 0 or 1)
   iv. Copy all files from deployments to wildfly-x.0.z.Final/standalone/deployments
   v. Copy *.ds.xml files from the backup folder to wildfly-x.0.z.Final/standalone/deployments

   Edit the following files crc-ds.xml, ont-ds.xml, pm-ds.xml, work-ds.xml and replace ALL the <driver>{something}.jar</driver> with

<table>
<thead>
<tr>
<th>Oracle</th>
<th>SQL Server</th>
<th>PostgreSQL</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;driver&gt;ojdbc8.jar&lt;/driver&gt;</td>
<td>&lt;driver&gt;mssql-jdbc-9.2.0.jre8.jar&lt;/driver&gt;</td>
<td>&lt;driver&gt;postgresql-42.3.2.jar&lt;/driver&gt;</td>
</tr>
</tbody>
</table>

3. Upgrade Webclient
   i. Backup the entire webclient folder to your web server directory.
   ii. Copy new webclient
       Linux (Apache): cp -r webclient/* /var/www/html
       Windows (IIS): xcopy /E webclient C:\inetpub\wwwroot
   iii. The i2b2_config_data.js has been renamed to i2b2_config_domain.json. Edit the i2b2_config_domain.json accordingly

4. Test i2b2

   Launch a web browser and enter http://{Server Hostname}/webclient in the address field, where {Server Hostname} is the address of the i2b2 server.