# Security Improvements

1. Prevent users and applications from connecting to the database using the Owning Schema, appsdemo.
2. Lock appsdemo, and set No Authentication so anyone trying to connect as appsdemo gets an invalid username/password error, instead of ‘Account Locked’ which would give away its existence and importance.
3. Create a secondary connection user *demo\_connect,* with limited privileges and grants to the database objects as required for the applications to work.
4. Remove all hardcoded passwords. Passwords must be stored only in a secure, encrypted database.

## Program Changes

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| **Location** | **Name** | **Change** |
| \config | set\_env.bat | Remove PWD variable  New environment variables connect\_user, connect\_pwd. Prompt user to enter password (connect\_pwd) |
| \config | set\_env.sql | New variables v\_connect\_user, v\_connect\_pwd  Prompt user to enter passwords, remove hardcoding |
| \com | import\_demo.bat | Connect to database as connect\_user instead of appsdemo |
| \com | import\_order.bat | Connect to database as connect\_user instead of appsdemo |
| \install | auto\_install.sql | Call install\_schema.sql passing new parameters v\_connect\_user and v\_connect\_pwd |
| \install | install\_schema.sql | Include new parameters v\_connect\_user and v\_connect\_pwd  Create secondary connection user with required grants and minimal privileges.  Lock schema owner appsdemo and set to no authentication |
| \install | compile\_packages.sql | Add public synonyms for packages |