Upgrade Express: "DBI connect(...): need explicit attach before authenticating a user"

- **Article Type:** General
- **Product:** Aleph
- **Product Version:** 20, 21, 22, 23

Problem Symptoms:
Upgrade Express

"2. Check environment" gets the following error message:

DBI connect('dc02kg0491na.aleph21','ALEPH_ADMIN',...) failed: ORA-24327: need explicit attach before authenticating a user (DBD ERROR: OCISessionBegin) at ...
A_ERROR: couldn't connect to database; and

"3. Run upgrade express", steps 1001-1008, 1010-1014, etc., show "FAILURE", with the same message.

Cause:
Case 1: Incorrect $ORACLE_HOME/network/admin/tnsnames.ora.

Case 2: Incorrect value for $ORA_HOST in $alephe_root/aleph_start which, in turn, incorrectly set $aleph_db, which caused problems with the perl DBI connection (used by the UE and its environment_check script).

Case 3: The FQDN of the database host (aka THE host) wasn't entered in the AIK when setting up the server.

Resolution:
For Case #1, correct $ORACLE_HOME/network/admin/tnsnames.ora per Article 000022973 ("Connection to the database aleph21 via listener hasn't been established yet").

For Case #2, correct the $ORA_HOST value.

For Case #3:

a. Working as the user 'oracle', changed $ORACLE_HOME/network/admin/tnsnames.ora. For each occurrence of the string 'service_name=aleph23.libprddb03', changed the string to 'service_name=aleph23.libprddb03.lib.xxx.edu'.
b. Commented out the line 'SECURE_REGISTER_LISTENER = (IPC)' at the end of listener.ora - which we believe it is obsolete, and was interfering with Oracle registering with the listener.
c. After that, ran the following commands:
   lsnrctl reload
   sqlplus '/as sysdba'
   alter system register
d. Tests to verify that you are able to connect to the database through the listener.

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Additional Information

In this Case #1, the two occurrences of "service_name=aleph21" in tnsnames.ora needed to be corrected from:

(\texttt{connect\_data=(service\_name=aleph21}(server=SHARED)))

...to:

(\texttt{connect\_data=(service\_name=aleph21.dc02kg9999na}(server=SHARED)))

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