Oracle 12c password verify function

Even with Oracle Database 12c, the quality of the database passwords is not enforced by default. A password verify function with the corresponding password resource limits has to be developed individually. As a basis one can use the script

 utlpwdmg.sql to setup the default password resource limits.

The script is provided by Oracle and is used to update the default profile. It has been updated for Oracle Database 12c, but it still does not run automatically when creating a database

ora12c_verify_function

This function is the new 12c password verify function. It enforce a similar respectively slightly stronger password complexity as *verify_function_11G*. *verify_function_11G* just checked for *DB_NAME* or *ORACLE* with 1 to 100 attached.

e.g. oracle1 or oracle83. With the new function *DB_NAME* or *ORACLE* may not be part of the password at all. The following is verified

- Password at least 8 characters
- at least 1 letters
- at least 1 digits
- must not contain database name
- must not contain user name or reverse user name
- must not contain oracle
- must not be too simple like welcome1
- password must differ by at least 3 characters from the old password

Complexity Check

This function verifies the complexity of a password string. Beside the password string it accepts a few value to describe the complexity. Nothing basically new but it makes it a bit easier to define custom password verify functions.

- *chars* – All characters (i.e. string length)
- *letter* – Alphabetic characters A-Z and a-z
- *upper* – Uppercase letters A-Z
- *lower* – Lowercase letters a-z
- *digit* – Numeric characters 0-9
- *special* – All characters not in A-Z, a-z, 0-9 except DOUBLE QUOTE which is a password delimiter