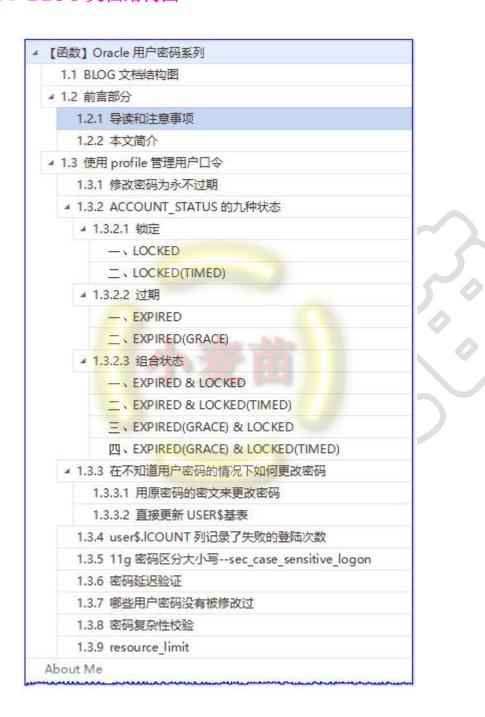
【密码】Oracle 用户密码系列

1.1 BLOG 文档结构图



1.2 前言部分

1.2.1 导读和注意事项

各位技术爱好者,看完本文后,你可以掌握如下的技能,也可以学到一些其它你所不知道的知识,~○(∩ ∩)○~:

- ① 用户的 9 种状态含义 (重点)
- ② 如何解锁账户
- ③ 如何修改密码无效状态

- ④ 如何获取密码的密文,如何利用密文修改用户的密码(重点)
- ⑤ 如何查询失败的登陆次数
- ⑥ 11g 密码大小写问题
- ⑦ 11g 密码延迟验证
- ⑧ 密码复杂性校验

Tips:

① 本文在itpub(http://blog.itpub.net/26736162)、博客园

(http://www.cnblogs.com/lhrbest)和微信公众号(xiaomaimiaolhr)上有同步更新。

- ② 文章中用到的所有代码、相关软件、相关资料及本文的 pdf 版本都请前往小麦苗的云盘下载,小麦苗的云盘地址见: http://blog.itpub.net/26736162/viewspace-1624453/。
 - ③ 若网页文章代码格式有错乱,请下载 pdf 格式的文档来阅读。
 - ④ 在本篇 BLOG 中,代码输出部分一般放在一行一列的表格中。

本文若有错误或不完善的地方请大家多多指正,您的批评指正是我写作的最大动力。

1.2.2 本文简介

客户的一个账户密码过期了,但是客户设置了永不过期,问到我为什么。我当时觉得设置了永不过期那肯定是生效的,只是这个部分的内容忘得差不多了,当时还想到可能是 resource_limit 这个参数没有设置为 TRUE 的缘故,后来查了官方文档才知道并不是这个原因。于是下决心把这部分的内容系统学习一下,自己总结的内容分享给大家。

1.3 使用 profile 管理用户口令

Oracle 用户的状态是由密码来决定的,而 Oracle 中的密码是由 PROFILE 来配置的。PROFILE 是口令限制、资源限制的命令集合。当建立数据库时,Oracle 会自动建立名称为 DEFAULT 的 PROFILE。当创建用户而没有指定 PROFILE 选项时,Oracle 就会将 DEFAULT 分配给用户。

通过如下的命令可以查出与密码相关的 PROFILE 的值:

```
FROM DBA_PROFILES D
WHERE D.PROFILE = 'DEFAULT'
AND (D.RESOURCE_NAME LIKE '%PASSWORD%' OR
D.RESOURCE_NAME = 'FAILED_LOGIN_ATTEMPTS');
```

- 1	PROFILE	RESOURCE_NAME	1	RESOURCE_TYPE _	LIMIT
1	DEFAULT	FAILED_LOGIN_ATTEMPTS		PASSWORD	10
2	DEFAULT	PASSWORD_LIFE_TIME	i	PASSWORD	180
3	DEFAULT	PASSWORD_REUSE_TIME	- 22	PASSWORD	UNLIMITED
4	DEFAULT	PASSWORD_REUSE_MAX	2.1	PASSWORD	UNLIMITED
5	DEFAULT	PASSWORD_VERIFY_FUNCTION		PASSWORD	VERIFY_FUNCTION_11G ···
6	DEFAULT	PASSWORD_LOCK_TIME		PASSWORD	1
7	DEFAULT	PASSWORD GRACE TIME		PASSWORD	7

每个参数的含义如下所示:

- FAILED_LOGIN_ATTEMPTS 设定登录到 Oracle 数据库时可以失败的次数。一旦某用户尝试登录数据库的达到该值时,该用户的帐户就被锁定,只能由 DBA 能解锁。
- PASSWORD LIFE TIME 设定口令的有效时间(天数),一旦超过这一时间,必须重新设口令。缺省为 180 天。

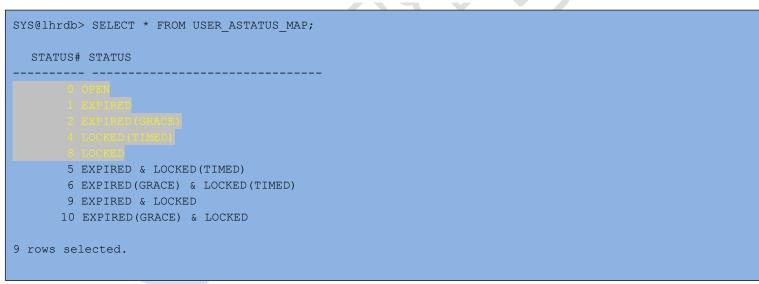
- PASSWORD_REUSE_TIME 许多系统不许用户重新启用过去用过的口令。该资源项设定了一个失效口令要经过多少天,用户才可以重新使用该口令,缺省为 UNLIMITED。
- PASSWORD REUSE MAX 重新启用一个先前用过的口令前必须对该口令进行重新设置的次数(重复用的次数)。
- PASSWORD LOCK TIME 设定帐户被锁定的天数(当登录失败达到 FAILED LOGIN ATTEMPTS 时)。
- PASSWORD_GRACE_TIME 设定在口令失效前,给予的重新设该口令的宽限天。当口令失效之后回,在登录时会出现警告信息显示该天数。如果没有在宽限天内修改口令,口令将失效。
- PASSWORD_VERITY_FUNCTION 该资源项允许调用一个 PL/SQL 来验证口令。Oracle 已提供该应用的脚本,为\$ORACLE_HOME/rdbms/admin/utlpwdmg.sql。但是,用户可以制定自己的验证脚本。该参数的设定就是PL/SQL 函数的名称,缺省为 NULL。

1.3.1 修改密码为永不过期

SYS@lhrdb> select username, accou	nt_status,EXPIRY_	DATE, profile from dba_users where username = 'LHRSYS';
USERNAM ACCOUNT_STATUS	EXPIRY_DATE	PROFILE
LHRSYS OPEN	2016-12-07 15:20:36	TESTPROFILE
SYS@lhrdb> alter user lhrsys pass	word expire;	
User altered.		
SYS@lhrdb> select username, accou	nt_status,EXPIRY_	DATE, profile from dba_users where username = 'LHRSYS';
USERNAM ACCOUNT_STATUS	EXPIRY_DATE	PROFILE
LHRSYS EXPIRED	2016-12-02 16:36:24	TESTPROFILE
SYS@lhrdb> ALTER PROFILE TESTPROF	CILE LIMIT PASSWOE	RD_LIFE_TIME UNLIMITED;
Profile altered.		
SYS@lhrdb> select username, accou	nt_status,EXPIRY_	DATE, profile from dba_users where username = 'LHRSYS';
USERNAM ACCOUNT_STATUS	EXPIRY_DATE	PROFILE
LHRSYS EXPIRED		TESTPROFILE
SYS@lhrdb> SELECT NB.PASSWORD FRO	M USER\$ NB WHERE	NB.NAME ='LHRSYS';
PASSWORD		
F809740420A44EFC		
SYS@lhrdb> ALTER USER LHRSYS IDE	ENTIFIED BY VALUE	S 'F809740420A44EFC';
User altered.		
SYS@lhrdb> select username, accou	nt_status,EXPIRY_	DATE, profile from dba_users where username = 'LHRSYS';
USERNAM ACCOUNT_STATUS	EXPIRY_DATE	PROFILE
LHRSYS OPEN		TESTPROFILE
SYS@lhrdb>		

1.3.2 ACCOUNT STATUS 的九种状态





以上九种可以分为两大类: 1.基本状态; 2.组合状态。

前五种是基本状态:

- 0 OPEN
- 1 EXPIRED
- 2 EXPIRED (GRACE)
- 4 LOCKED (TIMED)
- 8 LOCKED

后四种是组合状态:

- 5 EXPIRED & LOCKED (TIMED)
- 6 EXPIRED (GRACE) & LOCKED (TIMED)
- 9 EXPIRED & LOCKED
- 10 EXPIRED (GRACE) & LOCKED

规律是这样的:后四种的组合状态可以通过状态号 STATUS#获得它是哪两种状态的组合,例如 10=2+8(10

EXPIRED(GRACE) & LOCKED = 2 EXPIRED(GRACE) + 8 LOCKED)。因此只要了解基本状态的含义其他便可无师自通。

这五种基本状态又可以分为三类: 1.正常状态: 2.锁定状态: 3.密码过期状态。

- 1) OPEN 表示用户处于正常状态。
- 2) 用户被锁定状态,LOCKED 和 LOCKED (TIMED) 两种状态都属于锁定状态

用户被锁定一般分为两种:一种是 DBA 显式的通过 SQL 语句对用户进行锁定;另外一种是被动的锁定,例如默认情况下如果密码输入错误超过 10 次(这个限制是由 PROFILE 中的 FAILED_LOGIN_ATTEMPTS 控制的,该信息可以通过 DBA PROFILES 视图查询),用户将被锁定。

状态序号	状态	解释	处理办法
0	OPEN	OPEN表示用户处于正常状态	
1		密码是否过期是通过修改PROFILE中的PASSWORD_LIFE_TIME实现的,表示该帐户被设置为口令到期,要求用户在下次登录的时候修改口令(系统会在该账户被设置为EXPIRE后的第一次登陆是提示修改密码)。可以通过SQL语句(ALTER USER LHRSYS PASSWORD EXPIRE;)来显式的让用户密码过期。	修改密码: SELECT NB.PASSWORD FROM USER\$ NB WHERE NB.NAME ='LHRSYS'; ALTER USER SCOTT IDENTIFIED BY VALUES 'F894844C34402B67';
2	EXPIRED(当设置了GRACE以后(第一次成功登录后到口令到期后有多少天时间可改变口令,在这段时间内,帐户被提醒修改口令并可以正常登陆,ACCOUNI_STATUS显示为EXPIRED(GRACE)	修改密码: SELECT NB.PASSWORD FROM USER\$ NB WHERE NB.NAME ='LHRSYS'; ALTER USER SCOTT IDENTIFIED BY VALUES 'F894844C34402B67';
4	LOCKED (T	表示失败的登录次数超过了FAILED_LOGIN_ATTEMPTS,被系统自动 锁定,需要注意的是,在ORACLE 10G及以后的版本中,默认的 DEFAULT值是10次,这个限制是由PROFILE中的 FAILED_LOGIN_ATTEMPTS控制的,该信息可以通过DBA_PROFILES 视图查询	ALTER USER LHRSYS ACCOUNT UNLOCK;
8	LOCKED	DBA显式的通过SQL语句对用户进行锁定 (ALTER USER LHRSYS ACCOUNT LOCK;)	ALTER USER LHRSYS ACCOUNT UNLOCK;
5		表示用户密码过期后,失败登录次数超过PROFILE中的 FAILED_LOGIN_ATTEMPTS的限制	将用户UNLOCK并修改密码: ALTER USER LHRSYS ACCOUNT UNLOCK; ALTER USER LHRSYS IDENTIFIED BY LHR;
6		表示用户在密码过期后的有效期内,失败登录次数超过PROFILE中的 FAILED_LOGIN_ATTEMPTS的限制	将用户UNLOCK并修改密码: ALTER USER LHRSYS ACCOUNT UNLOCK; ALTER USER LHRSYS IDENTIFIED BY LHR;
9	EXPIRED & LOCKED	EXPIRED & LOCKED状态表示用户密码过期且同时处于锁定状态	将用户UNLOCK并修改密码: ALTER USER LHRSYS ACCOUNT UNLOCK; ALTER USER LHRSYS IDENTIFIED BY LHR;
10	EXPIRED (GRACE) & LOCKED	表示用户在密码过期后的有效期内被DBA手工谈定。	将用户UNLOCK并修改密码: ALTER USER LHRSYS ACCOUNT UNLOCK; ALTER USER LHRSYS IDENTIFIED BY LHR;

1.3.2.1 锁定状态

-, LOCKED

显式锁定 LHRSYS 用户 LOCKED 状态演示

SELECT D.USERNAME,

- D.ACCOUNT_STATUS,
- D.LOCK DATE,
- D.EXPIRY_DATE,
- D.PROFILE,

NVL (D. PASSWORD,

(SELECT NB.PASSWORD FROM USER\$ NB WHERE NB.NAME = D.USERNAME)) PASSWORD

FROM DBA USERS D

WHERE D.USERNAME = 'LHRSYS';

USERNAME _	ACCOUNT_STA	TUS _	LOCK_DATE _	EXPIRY_DATE _	PROFILE _	PASSWORD
1 LHRSYS ···	OPEN		•		DEFAULT	B13E00699C76DDAC

User altered. SYS@lhrdb> conn lhrsys/lhr ERROR: ORA-28000: the account is locked Warning: You are no longer connected to ORACLE. @> conn / as sysdba Connected. SYS@lhrdb> select username, account status,d.lock date from dba users d where username = 'LHRSYS'; USERNAME ACCOUNT_STATUS LOCK_DATE LHRSYS LOCKED 2016-12-02 09:33:50 SYS@lhrdb> ALTER USER LHRSYS ACCOUNT UNLOCK; User altered. SYS@lhrdb> select username, account status,d.lock date from dba users d where username = 'LHRSYS'; ACCOUNT STATUS USERNAME LOCK DATE LHRSYS OPEN

二、 LOCKED(TIMED)

输入 10 次错误密码后被动锁定 LOCKED(TIMED)状态演示

尝试输入10次错误密码后再次查询用户状态。

SYS@lhrdb> SELECT * FROM Dba Profiles d WHERE d.profile='DEFAULT' AND D.resource_name LIKE '%FAILED LOGIN ATTEMPTS%'; PROFILE RESOURCE_NAME RESOURCE LIMIT **DEFAULT** FAILED_LOGIN_ATTEMPTS PASSWORD 10 SYS@lhrdb> CONN LHRSYS/XXXX@192.168.59.129/lhrdb ERROR: ORA-01017: invalid username/password; logon denied Warning: You are no longer connected to ORACLE. @> CONN LHRSYS/XXXX@192.168.59.129/lhrdb ORA-01017: invalid username/password; logon denied @> CONN LHRSYS/XXXX@192.168.59.129/lhrdb ERROR: ORA-01017: invalid username/password; logon denied @> CONN LHRSYS/XXXX@192.168.59.129/lhrdb

```
ERROR:
ORA-01017: invalid username/password; logon denied
@> CONN LHRSYS/XXXX@192.168.59.129/lhrdb
ERROR:
ORA-01017: invalid username/password; logon denied
@> CONN LHRSYS/XXXX@192.168.59.129/lhrdb
ORA-01017: invalid username/password; logon denied
@> CONN LHRSYS/XXXX@192.168.59.129/lhrdb
ERROR:
ORA-01017: invalid username/password; logon denied
@> CONN LHRSYS/XXXX@192.168.59.129/lhrdb
ERROR:
ORA-01017: invalid username/password; logon denied
@> CONN LHRSYS/XXXX@192.168.59.129/lhrdb
ERROR.
ORA-01017: invalid username/password; logon denied
@> CONN LHRSYS/XXXX@192.168.59.129/lhrdb
ORA-01017: invalid username/password; logon denied
@> CONN LHRSYS/XXXX@192.168.59.129/lhrdb
ERROR:
                                <<<<<< -----超过 10 次后用户被锁定
@> CONN / AS SYSDBA
Connected.
SYS@lhrdb> select username, account status,d.lock date from dba users d where username = 'LHRSYS';
USERNAME
                          ACCOUNT_STATUS
                                                      LOCK_DATE
                                                      2016-12-02 09:37:20
LHRSYS
SYS@lhrdb>
SYS@lhrdb>
SYS@lhrdb> ALTER USER LHRSYS ACCOUNT UNLOCK;
User altered.
SYS@lhrdb> select username, account_status,d.lock_date from dba_users d where username = 'LHRSYS';
USERNAME
                          ACCOUNT STATUS
                                                      LOCK DATE
LHRSYS
                          OPEN
```

1.3.2.2 过期状态

用户密码过期状态,EXPIRED 和 EXPIRED(GRACE)两种状态都属于密码过期状态。

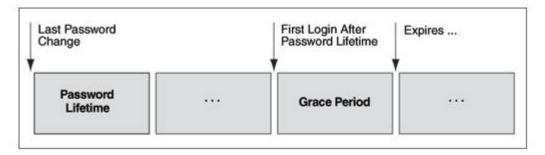


Figure 1 -Chronology of Password Lifetime and Grace Period

一、 EXPIRED

密码是否过期是通过修改 PROFILE 中的 PASSWORD_LIFE_TIME 实现的,密码过期后还可以使用的天数是通过PROFILE 中的 PASSWORD GRACE TIME 控制的。

关于密码过期我们也可以使用 SQL 显式的去完成,简单演示一下。

		PIRY_DATE from dba_users where us	Jername Emilioro ,
JSERNAME	ACCOUNT_STATUS	EXPIRY_DATE	
LHRSYS	OPEN		
SYS@lhrdb> alter	user lhrsys password expire;		
Jser altered.			
SYS@lhrdb> select	username, account_status,EX	PIRY_DATE from dba_users where us	sername = 'LHRSYS';
USERNAME	ACCOUNT_STATUS	EXPIRY_DATE	
LHRSYS	EXPIRED	2016-12-01 16:29:01	
ERROR: ORA-28001: the pa			
	l for lhrsys		
New password: Retype new passwo			
New password: Retype new passwo Password changed			
Changing password New password: Retype new passwo Password changed Connected. LHRSYS@lhrdb> con Connected.	ord: nn / as sysdba		
New password: Retype new passwo Password changed Connected. LHRSYS@lhrdb> con Connected.	ord: nn / as sysdba	PIRY_DATE from dba_users where us	sername = 'LHRSYS';
New password: Retype new passwo Password changed Connected. LHRSYS@lhrdb> con Connected.	ord: nn / as sysdba	PIRY_DATE from dba_users where us EXPIRY_DATE	sername = 'LHRSYS';

下面通过修改系统的日期来演示:

```
SYS@lhrdb> SELECT D.USERNAME,
 2
    D.ACCOUNT STATUS,
 3
         D.LOCK DATE,
 4
          D.EXPIRY DATE,
          D.PROFILE,
 6
          NVL (D. PASSWORD,
 7
             (SELECT NB.PASSWORD FROM USER$ NB WHERE NB.NAME = D.USERNAME)) PASSWORD
 8
     FROM DBA USERS D
    WHERE D.USERNAME = 'LHRSYS';
USERNAME
                   ACCOUNT_STATUS
                                       LOCK_DATE
                                                    EXPIRY_DATE
                                                                 PROFILE
                                                                                    PASSWORD
                   OPEN
                                                                                    F809740420A44EFC
LHRSYS
                                                                 DEFAULT
SYS@lhrdb> create profile TESTPROFILE LIMIT password_life_time 5 password_grace_time 0;<<<<<<-
里将 password_grace_time 设置为 0
Profile created.
SYS@lhrdb> alter user LHRSYS profile TESTPROFILE;
User altered.
SYS@lhrdb> select username,account_status,profile,EXPIRY_DATE from dba_users where username = 'LHRSYS';
                          ACCOUNT STATUS
USERNAME
                                                       PROFILE
                                                                                  EXPIRY DATE
LHRSYS
                          OPEN
                                                       TESTPROFILE
    --修改系统时间
[root@orcltest ~]# date '12071450'
Wed Dec 7 14:50:00 CST 2016
[root@orcltest ~]#
    系统查询:
SYS@lhrdb> select sysdate from dual;
SYSDATE
2016-12-07 14:50:19
SYS@lhrdb> conn LHRSYS/lhr
Connected.
LHRSYS@lhrdb> conn LHRSYS/lhr
Changing password for LHRSYS
New password:
Password unchanged
Warning: You are no longer connected to ORACLE.
@> conn / as sysdba
Connected.
SYS@lhrdb> select username,account status,profile,EXPIRY DATE from dba users where username = 'LHRSYS';
                          ACCOUNT_STATUS
                                                       PROFILE
                                                                                  EXPIRY_DATE
```

LH	HRSYS	EXPIRED	TESTPROFILE	2016-12-12 10:36:06
S	YS@lhrdb> alter user LHR	SYS identified by lhr;		
Us	ser altered.			
S	YS@lhrdb> select usernam	e,account_status,profile,EXN	PIRY_DATE from dba_users w	here username = 'LHRSYS';
US	SERNAME	ACCOUNT_STATUS	PROFILE	EXPIRY_DATE
LH	HRSYS	OPEN	TESTPROFILE	2016-12-12 14:52:54

二、 EXPIRED(GRACE)

当设置了 PASSWORD_GRACE_TIME 以后,第一次成功登录后到口令到期后有多少天时间可改变口令,在这段时间内,帐户被提醒修改口令并可以正常登陆,account_status 显示为 EXPIRED(GRACE)。expired(grace) 与 locked(timed)是由系统的 profile 来进行控制的。

HRSYS			
	OPEN	TESTPROFILE	2016-12-07 14:09:09
SYS@lhrdb> select s	ysdate from dual;		
SYSDATE			
2016-12-02 14:09:32			
	ORILE MECMADACETTE LIMIT PAGGIO	rd grace time 3;	
SYSUINTAD> ALTER PRO	OFILE TESTPROFILE LIMIT passwor		
	OFILE LESIPROFILE LIMIT PASSWO.		
Profile altered.			
Profile altered. SYS@lhrdb> SELECT * 2 FROM DBA_PRO	*		
Profile altered. SYS@lhrdb> SELECT * 2 FROM DBA_PROFITE 3 WHERE D.PROFITE	* FILES D LE = 'TESTPROFILE'		
Profile altered. SYS@lhrdb> SELECT * 2 FROM DBA_PROI 3 WHERE D.PROFI 4 AND (D.RESOU	* FILES D		
Profile altered. SYS@lhrdb> SELECT * 2 FROM DBA_PROI 3 WHERE D.PROFI: 4 AND (D.RESOUR) 5 D.RESOUR)	* FILES D LE = 'TESTPROFILE' URCE_NAME LIKE '%PASSWORD%' OR		
Profile altered. SYS@lhrdb> SELECT * 2 FROM DBA_PROI 3 WHERE D.PROFI 4 AND (D.RESOU	* FILES D LE = 'TESTPROFILE' URCE_NAME LIKE '%PASSWORD%' OR CE_NAME = 'FAILED_LOGIN_ATTEMP'	IS');	
Profile altered. SYS@lhrdb> SELECT 7 2 FROM DBA_PROFIL 3 WHERE D.PROFIL 4 AND (D.RESOUR) 5 D.RESOUR PROFILE TESTPROFILE TESTPROFILE	* FILES D LE = 'TESTPROFILE' URCE_NAME LIKE '%PASSWORD%' OR CE_NAME = 'FAILED_LOGIN_ATTEMP' RESOURCE_NAME FAILED_LOGIN_ATTEMPTS PASSWORD_LIFE_TIME	rs'); RESOURCE LIMIT PASSWORD DEFAULT PASSWORD 5	
Profile altered. SYS@lhrdb> SELECT * 2 FROM DBA_PROI 3 WHERE D.PROFIL 4 AND (D.RESOUR) 5 D.RESOUR) PROFILE TESTPROFILE TESTPROFILE TESTPROFILE	* FILES D LE = 'TESTPROFILE' URCE_NAME LIKE '%PASSWORD%' OR CE_NAME = 'FAILED_LOGIN_ATTEMP' RESOURCE_NAME FAILED_LOGIN_ATTEMPTS PASSWORD_LIPE_TIME PASSWORD_REUSE_TIME	rs'); RESOURCE LIMIT PASSWORD DEFAULT PASSWORD 5 PASSWORD DEFAULT	
Profile altered. SYS@lhrdb> SELECT * 2 FROM DBA_PROFILE 4 AND (D.RESOUR) 5 D.RESOUR) PROFILE TESTPROFILE TESTPROFILE TESTPROFILE TESTPROFILE TESTPROFILE	* FILES D LE = 'TESTPROFILE' URCE_NAME LIKE '%PASSWORD%' OR CE_NAME = 'FAILED_LOGIN_ATTEMP' RESOURCE_NAME FAILED_LOGIN_ATTEMPTS PASSWORD_LIKE_TIME PASSWORD_REUSE_TIME PASSWORD_REUSE_MAX	RESOURCE LIMIT PASSWORD DEFAULT PASSWORD DEFAULT PASSWORD DEFAULT PASSWORD DEFAULT	
Profile altered. SYS@lhrdb> SELECT * 2 FROM DBA_PROI 3 WHERE D.PROFIL 4 AND (D.RESOUR) 5 D.RESOUR) PROFILE TESTPROFILE TESTPROFILE TESTPROFILE	* FILES D LE = 'TESTPROFILE' URCE_NAME LIKE '%PASSWORD%' OR CE_NAME = 'FAILED_LOGIN_ATTEMP' RESOURCE_NAME FAILED_LOGIN_ATTEMPTS PASSWORD_LIPE_TIME PASSWORD_REUSE_TIME	rs'); RESOURCE LIMIT PASSWORD DEFAULT PASSWORD 5 PASSWORD DEFAULT	

```
--修改系统时间
[root@orcltest ~] # date '12071408' <<<<<<-----14:09 过期,我们设置到 14:08 分
Wed Dec 7 14:08:00 CST 2016
[root@orcltest ~]#
   系统查询:
LHRSYS@lhrdb> select sysdate from dual;
SYSDATE
2016-12-07 14:08:03
LHRSYS@lhrdb> conn lhrsys/lhr
Connected.
LHRSYS@lhrdb> select sysdate from dual;
SYSDATE
LHRSYS@lhrdb> select sysdate from dual;
SYSDATE
2016-12-07 14:09:09
LHRSYS@lhrdb> select sysdate from dual;
SYSDATE
                1<<<<<<<<----已过了密码有效期
LHRSYS@lhrdb> select username,account_status,profile,EXPIRY_DATE from dba_users where username = 'LHRSYS';
USERNAME
                       ACCOUNT STATUS
                                                 PROFILE
                                                                          EXPIRY DATE
LHRSYS
                                                TESTPROFILE
<<<<<<、下面尝试第一次登陆
LHRSYS@lhrdb> conn lhrsys/lhr
ERROR:
                                          <<<<<<-----第一次登陆后报错,但用户依然可以登陆,且 EXPIRY_DATE
已经变化
Connected.
LHRSYS@lhrdb> select username, account_status, profile, EXPIRY_DATE from dba_users where username = 'LHRSYS';
USERNAME
                       ACCOUNT STATUS
                                                 PROFILE
                                                                          EXPIRY DATE
                                           TESTPROFILE
LHRSYS
<<<<<< -----再次查询状态, 变为了 EXPIRED (G
   再次调整日期:
[root@orcltest ~]# date '12081430'
Thu Dec 8 14:30:00 CST 2016
LHRSYS@lhrdb>
LHRSYS@lhrdb> select sysdate from dual;
```

```
SYSDATE
2016-12-08 14:30:12
LHRSYS@lhrdb> conn lhrsys/lhr
ERROR:
                                                <<<<<< 天
Connected.
LHRSYS@lhrdb>
   继续更改日期:
[root@orcltest ~]# date '12101409'
Sat Dec 10 14:09:00 CST 2016
[root@orcltest ~]#
   查询:
LHRSYS@lhrdb> select sysdate from dual;
SYSDATE
2016-12-10 14:09:07
LHRSYS@lhrdb> conn lhrsys/lhr
ERROR:
                                                <<<<<< > 5
Connected.
LHRSYS@lhrdb> select username, account_status, profile, EXPIRY_DATE from dba_users where username = 'LHRSYS';
USERNAME
                         ACCOUNT STATUS
                                                    PROFILE
                                                                              EXPIRY DATE
LHRSYS
                         EXPIRED (GRACE)
                                                    TESTPROFILE
LHRSYS@lhrdb> select sysdate from dual;
SYSDATE
                  <<<<< 日期已过
LHRSYS@lhrdb> conn lhrsys/lhr
ERROR:
Changing password for lhrsys
New password:
Password unchanged
Warning: You are no longer connected to ORACLE.
@> conn / as sysdba
Connected.
SYS@lhrdb>
SYS@lhrdb> select username,account_status,profile,EXPIRY_DATE from dba_users where username = 'LHRSYS';
USERNAME
                         ACCOUNT STATUS
                                                    PROFILE
                                                                             EXPIRY DATE
LHRSYS
                                                    TESTPROFILE
                                                                              2016-12-10 14:09:34
SYS@lhrdb> alter user LHRSYS identified by lhr;
```

1.3.2.3 组合状态

关于四种组合状态的解释

因为锁定的两种状态(LOCKED 和 LOCKED (TIMED))和密码过期的两种状态(EXPIRED 和 EXPIRED (GRACE)) 之间没有关系。因此他们之间可以任意组合,2×2=4,因此有四种组合状态:

- 5 EXPIRED & LOCKED (TIMED)
- 6 EXPIRED (GRACE) & LOCKED (TIMED)
- 9 EXPIRED & LOCKED
- 10 EXPIRED (GRACE) & LOCKED

-, EXPIRED & LOCKED

EXPIRED & LOCKED 状态表示用户密码过期且同时处于锁定状态

SYS@lhrdb> select usern	name,account_status,EXPIRY_	_DATE,lock_date from	m dba_users where username = 'LHRSYS';
USERNAME	ACCOUNT_STATUS	EXPIRY_DATE	LOCK_DATE
LHRSYS SYS@lhrdb>	OPEN	2016-12-07 15:02	:56
	lhrsys password expire;		
User altered.			
SYS@lhrdb> select usern	name,account_status,EXPIRY_	_DATE,lock_date from	m dba_users where username = 'LHRSYS';
USERNAME	ACCOUNT_STATUS	EXPIRY_DATE	LOCK_DATE
LHRSYS	EXPIRED	2016-12-02 15:11	:12
SYS@lhrdb> alter user	lhrsys account lock;		
User altered.			
SYS@lhrdb> select user	name, account_status,EXPIR	Y_DATE from dba_use	ers where username = 'LHRSYS';
USERNAME	ACCOUNT_STATUS	EXPIRY_DATE	
LHRSYS	EXPIRED & LOCKED	2016-12-01 16:51	:38
SYS@lhrdb> alter user	lhrsys account unlock;		
User altered.			

二、 EXPIRED & LOCKED(TIMED)

EXPIRED & LOCKED (TIMED) 状态表示用户密码过期后,错误密码尝试次数超过 PROFILE 中的 FAILED LOGIN ATTEMPTS 的限制

USERNAME	ACCOUNT_STATUS	EXPIRY_DATE	LOCK_DATE
LHRSYS	OPEN		
SYS@lhrdb> alter use	r lhrsys password expire;		
User altered.			
SYS@lhrdb> select us	ername, account_status,EXP	PIRY_DATE from dba_users	s where usernam
USERNAME	ACCOUNT_STATUS	EXPIRY_DATE	
LHRSYS	EXPIRED	2016-12-02 10:07:2	- 7
ERROR:	SYS/XXXX@192.168.59.129/lh		
<pre>@> CONN LHRSYS/XXXX</pre> ERROR:	longer connected to ORACLE @192.168.59.129/lhrdb sername/password; logon de		
@> CONN LHRSYS/XXXX	@192.168.59.129/lhrdb		

```
ERROR:
ORA-01017: invalid username/password; logon denied
@> CONN LHRSYS/XXXX@192.168.59.129/lhrdb
ERROR:
ORA-01017: invalid username/password; logon denied
@> CONN LHRSYS/XXXX@192.168.59.129/lhrdb
ERROR:
ORA-01017: invalid username/password; logon denied
@> CONN LHRSYS/XXXX@192.168.59.129/lhrdb
ERROR:
ORA-01017: invalid username/password; logon denied
@> CONN LHRSYS/XXXX@192.168.59.129/lhrdb
ERROR:
ORA-01017: invalid username/password; logon denied
@> CONN LHRSYS/XXXX@192.168.59.129/lhrdb
ERROR.
ORA-01017: invalid username/password; logon denied
@> CONN LHRSYS/XXXX@192.168.59.129/lhrdb
ORA-01017: invalid username/password; logon denied
@> conn / as sysdba
Connected.
SYS@lhrdb> select username, account status, EXPIRY DATE, lock date from dba users where username = 'LHRSYS';
USERNAME
                            ACCOUNT STATUS
                                                          EXPIRY DATE
                                                                            LOCK DATE
LHRSYS
SYS@lhrdb>
SYS@lhrdb> alter user lhrsys account unlock;
User altered.
SYS@lhrdb> select username, account_status, EXPIRY_DATE, lock_date from dba_users where username = 'LHRSYS';
USERNAME
                        ACCOUNT_STATUS
                                                   EXPIRY_DATE
                                                                 LOCK DATE
                        EXPIRED
                                                   2016-12-02 10:07:27
LHRSYS
SYS@lhrdb> alter user lhrsys identified by lhr;
User altered.
SYS@lhrdb> select username, account_status, EXPIRY_DATE, lock_date from dba_users where username = 'LHRSYS';
USERNAME
                         ACCOUNT_STATUS
                                                   EXPIRY_DATE
                                                                   LOCK_DATE
LHRSYS
                        OPEN
```

SYS@lhrdb>

Ξ、 EXPIRED(GRACE) & LOCKED

EXPIRED (GRACE) & LOCKED 状态表示用户在密码过期后的有效期内被 DBA 手工锁定。

	ect username, account_status, prof	file,EXPIRY_DATE fr	om dba_users where username = 'LHR
USERNAME	ACCOUNT_STATUS	PROFILE	EXPIRY_DATE
LHRSYS	OPEN	TESTPROFILE	2016-12-07 14:39:20
LHRSYS@lhrdb> sel	ect sysdate from dual;		
SYSDATE			
2016-12-07 14:39:	 17		
LHRSYS@lhrdb> sel	ect sysdate from dual;		
SYSDATE			
2016-12-07 14:39:	 25		
LHRSYS@lhrdb> sele	ect username,account_status,proi	File,EXPIRY_DATE fr	om dba_users where username = 'LHRS
USERNAME 	ACCOUNT_STATUS	PROFILE	EXPIRY_DATE
LHRSYS	OPEN	TESTPROFILE	2016-12-07 14:39:20
	ssword will expire within 3 day		
ERROR: ORA-28002: the pa Connected.		file,EXPIRY_DATE fr	om dba_users where username = 'LHRS
ERROR: ORA-28002: the pa Connected. LHRSYS@lhrdb> sele		File,EXPIRY_DATE fr PROFILE	om dba_users where username = 'LHRS EXPIRY_DATE
ERROR: ORA-28002: the pa Connected. LHRSYS@lhrdb> sele USERNAME	ssword will expire within 3 day ect username, account_status, prof	_	_
ERROR: DRA-28002: the pa Connected. LHRSYS@lhrdb> sele USERNAME	ect username, account_status, prof	PROFILE	EXPIRY_DATE
ERROR: ORA-28002: the pa Connected. LHRSYS@lhrdb> sele USERNAME LHRSYS LHRSYS	ect username, account_status, prof ACCOUNT_STATUS EXPIRED(GRACE)	PROFILE	EXPIRY_DATE
USERNAME LHRSYS LHRSYS@lhrdb> alt User altered.	ACCOUNT_STATUS EXPIRED(GRACE) er user lhrsys account lock;	PROFILE TESTPROFILE	EXPIRY_DATE
ERROR: ORA-28002: the pa Connected. LHRSYS@lhrdb> sele USERNAME LHRSYS LHRSYS@lhrdb> alt User altered.	ACCOUNT_STATUS EXPIRED(GRACE) er user lhrsys account lock;	PROFILE TESTPROFILE	EXPIRY_DATE
ERROR: ORA-28002: the pa Connected. LHRSYS@lhrdb> select USERNAME LHRSYS LHRSYS@lhrdb> alt User altered. SYS@lhrdb> select	ACCOUNT_STATUS EXPIRED(GRACE) er user lhrsys account lock; t username, account_status, EXPIRE	PROFILE TESTPROFILE TESTPROFILE	EXPIRY_DATE
ERROR: ORA-28002: the pa Connected. LHRSYS@lhrdb> select USERNAME LHRSYS@lhrdb> alt User altered. SYS@lhrdb> select USERNAME USERNAME	ACCOUNT_STATUS EXPIRED(GRACE) er user lhrsys account lock; t username, account_status, EXPIRE	PROFILE TESTPROFILE TESTPROFILE	EXPIRY_DATE
ERROR: DRA-28002: the pa Connected. LHRSYS@lhrdb> select JSERNAME	ACCOUNT_STATUS EXPIRED(GRACE) er user lhrsys account lock; t username, account_status, EXPIRE	PROFILE TESTPROFILE TESTPROFILE	EXPIRY_DATE
ERROR: DRA-28002: the pa Connected. LHRSYS@lhrdb> select USERNAME LHRSYS@lhrdb> alt User altered. SYS@lhrdb> select USERNAME LHRSYS@lhrdb> select	ACCOUNT_STATUS er user lhrsys account lock; ACCOUNT_STATUS EXPIRED(GRACE) ACCOUNT_STATUS ACCOUNT_STATUS	PROFILE TESTPROFILE TESTPROFILE	EXPIRY_DATE

USERNAME	ACCOUNT_STATUS	PROFILE	EXPIRY_DATE
LHRSYS	EXPIRED (GRACE)	TESTPROFILE	2016-12-10 14:39:54
LHRSYS@lhrdb> alter user	LHRSYS identified by lhr;		
User altered.			
LHRSYS@lhrdb> select user	name,account_status,profile,	EXPIRY_DATE from dba_users	<pre>where username = 'LHRSYS';</pre>
USERNAME	ACCOUNT_STATUS	PROFILE	EXPIRY_DATE
LHRSYS	OPEN	TESTPROFILE	2016-12-12 14:40:46
LHRSYS@lhrdb>			

四、 EXPIRED(GRACE) & LOCKED(TIMED)

EXPIRED(GRACE) & LOCKED(TIMED)状态表示用户在密码过期后的有效期内,失败登录次数超过 PROFILE 中的 FAILED LOGIN ATTEMPTS 的限制。

```
SYS@lhrdb> select username,account status,EXPIRY DATE,lock date from dba users where username = 'LHRSYS';
USERNAME
                          ACCOUNT_STATUS
                                                       EXPIRY_DATE
                                                                       LOCK_DATE
                                                       2016-12-07 14:50:06
LHRSYS
                          OPEN
LHRSYS@lhrdb> select sysdate from dual;
SYSDATE
2016-12-02 14:50:13
    修改系统日期:
[root@orcltest ~]# date '12071450'
Wed Dec 7 14:50:00 CST 2016
[root@orcltest ~]#
    查询:
LHRSYS@lhrdb> select sysdate from dual;
SYSDATE
2016-12-07 14:50:03
LHRSYS@lhrdb> select sysdate from dual;
SYSDATE
2016-12-07 14:50:12
SYS@lhrdb> select username, account status, EXPIRY DATE, lock date from dba users where username = 'LHRSYS';
USERNAME
                           ACCOUNT_STATUS
                                                       EXPIRY_DATE
                                                                         LOCK_DATE
LHRSYS
                          OPEN
                                                       2016-12-07 14:50:06
LHRSYS@lhrdb> conn lhrsys/lhr
ERROR:
```

```
ORA-28002: the password will expire within 3 days
Connected.
SYS@lhrdb> select username, account_status, EXPIRY_DATE, lock_date from dba_users where username = 'LHRSYS';
USERNAME
                          ACCOUNT STATUS
                                                      EXPIRY DATE
                                                                       LOCK DATE
LHRSYS
                                                      2016-12-10 14:50:21
LHRSYS@lhrdb> CONN LHRSYS/XXXX@192.168.59.129/lhrdb
ORA-01017: invalid username/password; logon denied
Warning: You are no longer connected to ORACLE.
@> CONN LHRSYS/XXXX@192.168.59.129/lhrdb
ORA-01017: invalid username/password; logon denied
@> CONN LHRSYS/XXXX@192.168.59.129/lhrdb
ERROR:
ORA-01017: invalid username/password; logon denied
@> CONN LHRSYS/XXXX@192.168.59.129/lhrdb
ERROR:
ORA-01017: invalid username/password; logon denied
@> CONN LHRSYS/XXXX@192.168.59.129/lhrdb
ORA-01017: invalid username/password; logon denied
@> CONN LHRSYS/XXXX@192.168.59.129/lhrdb
ORA-01017: invalid username/password; logon denied
@> CONN LHRSYS/XXXX@192.168.59.129/lhrdb
ERROR:
ORA-01017: invalid username/password; logon denied
@> CONN LHRSYS/XXXX@192.168.59.129/lhrdb
ERROR:
ORA-01017: invalid username/password; logon denied
@> CONN LHRSYS/XXXX@192.168.59.129/lhrdb
ERROR:
ORA-01017: invalid username/password; logon denied
@> @> CONN LHRSYS/XXXX@192.168.59.129/lhrdb
ORA-01017: invalid username/password; logon denied
@> CONN LHRSYS/XXXX@192.168.59.129/lhrdb
ERROR:
```

ORA-28000: the account is locked @> conn / as sysdba Connected. SYS@lhrdb> select username,account status,EXPIRY DATE,lock date from dba users where username = 'LHRSYS'; USERNAME ACCOUNT_STATUS EXPIRY DATE LOCK DATE LHRSYS 2016-12-10 14:50:21 SYS@lhrdb> alter user lhrsys account unlock; User altered. SYS@lhrdb> select username,account status,profile,EXPIRY DATE from dba users where username = 'LHRSYS'; USERNAME ACCOUNT_STATUS PROFILE EXPIRY_DATE LHRSYS EXPIRED (GRACE) TESTPROFILE 2016-12-10 14:50:21 SYS@lhrdb> alter user LHRSYS identified by lhr; User altered. SYS@lhrdb> select username,account status,profile,EXPIRY DATE from dba users where username = 'LHRSYS'; USERNAME ACCOUNT_STATUS PROFILE EXPIRY_DATE LHRSYS OPEN TESTPROFILE 2016-12-12 14:55:04

1. 3. 3 在不知道用户密码的情况下如何更改密码

在 Oracle 中,若用户的密码变为锁定状态(LOCKED、LOCKED(TIMED))则 DBA 直接执行 ALTER USER 用户 名 ACCOUNT UNLOCK 就可以解锁了。但是,如果用户的状态变成过期状态(EXPIRED、EXPIRED (GRACE)),则 DBA 必须要更改用户的密码账户才能重新使用。但有些时候,因为各种原因并不知道原密码的明文是什么,这时候可 以有如下2种办法来更新密码。

用原密码的密文来更改密码 1, 3, 3, 1

在 Oracle 10g 中,DBA USERS 视图的 PASSWORD 字段提供了密码的密文形式,而在 Oracle 11g 中,该字 段被弃用了,内容为空,但是在基表 USER\$中的 PASSWORD 字段依然有记录密文形式,所以可以通过如下的形式来 获取密码的密文形式:

SELECT D.USERNAME, D.ACCOUNT STATUS, D.LOCK DATE, D.EXPIRY DATE, D.PROFILE, NVL (D. PASSWORD,

(SELECT NB.PASSWORD FROM USER\$ NB WHERE NB.NAME = D.USERNAME)) PASSWORD

FROM DBA_USERS D
WHERE D.USERNAME = 'LHRSYS';



另外,可以通过 DBMS_METADATA.GET_DDL 包或者 expdp、exp 命令来获取创建用户的语句从而获取密码的密文形式:

```
SYS@lhrdb> set long 9999

SYS@lhrdb> SELECT DBMS_METADATA.GET_DDL('USER', 'LHRSYS') DDL_SQL FROM DUAL;

DDL_SQL

CREATE USER "LHRSYS" IDENTIFIED BY VALUES

'S:853EA80BAB11E79B6946453F38059E30313FE84C96AE2EE4F3AA35A648BD,F809740420A44EFC'

DEFAULT TABLESPACE "USERS"

TEMPORARY TABLESPACE "TEMP"

SYS@lhrdb>
SYS@lhrdb>
SYS@lhrdb>
```

获取了密码的密文后就可以用如下的命令来修改了,注意:使用密文的命令中多了一个 values 关键字:

```
SYS@lhrdb> alter user LHRSYS identified by values 'F809740420A44EFC';

User altered.

SYS@lhrdb> CONN LHRSYS/lhr@192.168.59.129/lhrdb
Connected.

LHRSYS@192.168.59.129/lhrdb> conn / as sysdba
Connected.

SYS@lhrdb> alter user LHRSYS identified by values
'S:853EA80BAE11F79D6946453F38059E30313FE84C96AE2EE4F3AA35A648BD;F809740420A44EFC';

User altered.

SYS@lhrdb> CONN LHRSYS/lhr@192.168.59.129/lhrdb
Connected.
LHRSYS@192.168.59.129/lhrdb>
```

这种情况下,虽然我们不知道原密码是什么,但可以用它的密文来更改密码,这样,在不知道原密码的情况下, 既保持了密码不改变,又可以把 expired 的状态更改掉。

在 MOS The Impact of PASSWORD_LIFE_TIME Database Profile Parameter Default to 180 Days on Network Charging and Control (文档 ID 1543668.1)中搜到了如下的命令也可以直接获取密码:

```
FROM (SELECT NAME,

'alter user ' || NAME || ' identified by values ''' ||

PASSWORD || '''; ' SQLTEXT

FROM USER$

WHERE SPARE4 IS NULL

AND PASSWORD IS NOT NULL

UNION

SELECT NAME,
```

'alter user ' || NAME || ' identified by values ''' || SPARE4 || ';' ||

```
PASSWORD || '''; ' SQLTEXT
             FROM USER$
            WHERE SPARE4 IS NOT NULL
              AND PASSWORD IS NOT NULL)
    WHERE NAME = 'LHRSYS';
SYS@lhrdb> SELECT SQLTEXT
 2
     FROM (SELECT NAME,
                'alter user ' || NAME || ' identified by values ''' ||
 3
                PASSWORD || ''';' SQLTEXT
 4
            FROM USER$
           WHERE SPARE4 IS NULL
 6
 7
            AND PASSWORD IS NOT NULL
          UNION
 9
          SELECT NAME,
10
                'alter user ' || NAME || ' identified by values ''' || SPARE4 || ';' ||
                PASSWORD || '''; ' SQLTEXT
11
12
            FROM USER$
13
           WHERE SPARE4 IS NOT NULL
            AND PASSWORD IS NOT NULL)
14
15
    WHERE NAME = 'LHRSYS';
SQLTEXT
```

1.3.3.2 直接更新 USER\$基表

不管用户的状态是什么,通过更新 USER\$表可以让用户处于 OPEN 状态:

```
SYS@lhrdb> select username, account_status, EXPIRY_DATE, lock_date from dba_users where username = 'LHRSYS';
USERNAME
                            ACCOUNT STATUS
                                                          EXPIRY DATE
                                                                            LOCK DATE
LHRSYS
                            EXPIRED
                                                          2016-12-02 10:40:09
SYS@lhrdb> UPDATE USER$ SET ASTATUS=0 WHERE NAME='LHRSYS';
1 row updated.
SYS@lhrdb> commit; <<<<<----及时提交
Commit complete.
SYS@lhrdb> select username, account_status, EXPIRY_DATE, lock_date from dba_users where username = 'LHRSYS';
USERNAME
                            ACCOUNT STATUS
                                                          EXPIRY DATE
                                                                             LOCK DATE
LHRSYS
                            OPEN
SYS@lhrdb>
```

1.3.4 user\$.1COUNT 列记录了失败的登陆次数

登录失败, lcount 加 1; 只要成功登录后, lcount 栏位就会置 0。

```
SYS@lhrdb> select NAME, LCOUNT from user$ a WHERE a.NAME='LHRSYS';
NAME
                         LCOUNT
0
LHRSYS
SYS@lhrdb> CONN LHRSYS/XXXX@192.168.59.129/lhrdb
ORA-01017: invalid username/password; logon denied
Warning: You are no longer connected to ORACLE.
@> CONN LHRSYS/XXXX@192.168.59.129/lhrdb
ERROR:
ORA-01017: invalid username/password; logon denied
@> conn / as sysdba
Connected.
SYS@lhrdb> select NAME, LCOUNT from user$ a WHERE a.NAME='LHRSYS';
                         LCOUNT
LHRSYS
                     2
SYS@lhrdb>
SYS@lhrdb> CONN LHRSYS/lhr
Connected.
LHRSYS@lhrdb> conn / as sysdba
SYS@lhrdb> select NAME, LCOUNT from user$ a WHERE a.NAME='LHRSYS';
                         LCOUNT
                      0
LHRSYS
SYS@lhrdb>
```

另外,审计表也记录了登陆失败的信息:

```
SELECT d.username,d.timestamp,d.action_name,d.os_username,d.terminal
  FROM DBA_AUDIT_TRAIL D
WHERE D.RETURNCODE = 1017
AND D.USERNAME = 'LHRSYS'
ORDER BY d.timestamp DESC ;
```

	USERNAME		TIMESTAMP	ACTION_NAME		OS_USERNAME	TERMINAL	
18	LHRSYS	***	2016-12-02 11:02:50 *	LOGON		oracle	 pts/1	
19	LHRSYS	***	2016-12-02 11:02:48 *	LOGON		oracle	 pts/1	100
20	LHRSYS	***	2016-12-02 11:02:46 *	LOGON	***	oracle	 pts/1	100
21	LHRSYS	***	2016-12-02 11:02:45 *	LOGON	***	oracle	 pts/1	400
22	LHRSYS	***	2016-12-02 11:02:45	LOGON	***	oracle	 pts/1	
23	LHRSYS	***	2016-12-02 10:09:03 *	LOGON	***	oracle	 pts/1	400
24	LHRSYS	***	2016-12-02 10:08:33 *	LOGON	***	oracle	 pts/1	100
25	LHRSYS		2016-12-02 10:08:25 *	LOGON	***	oracle	 pts/1	400
26	LHRSYS	***	2016-12-02 10:08:19 *	LOGON		oracle	 pts/1	100
27	LHRSYS	***	2016-12-02 10:08:14 *	LOGON	•••	oracle	 pts/1	30
28	LHRSYS		2016-12-02 10:08:09 -	LOGON		oracle	 nts/1	

1.3.5 11g 密码区分大小写--sec_case_sensitive_logon

从Oracle 11g 开始,密码区分大小写,采用参数 sec case sensitive logon 控制,该参数默认为 TRUE。

Property	Description
Parameter type	Boolean
Default value	true
Modifiable	ALTER SYSTEM
Range of values	true false
Basic	No

 ${\tt SEC_CASE_SENSITIVE_LOGON\ enables\ or\ disables\ password\ case\ sensitivity\ in\ the\ database.}$

Values:

true: Database logon passwords are case sensitive.

false: Database logon passwords are not case sensitive.

1.3.6 密码延迟验证

从 11g 开始,如果一个用户使用不正确的密码尝试登录数据库,那么随着登录失败次数的增加,每次登录验证前延迟等待的时间也会增加。

通过设置 EVENTS 28401 可以屏蔽密码延迟验证:

```
SQL> ALTER SYSTEM SET EVENT = '28401 TRACE NAME CONTEXT FOREVER, LEVEL 1' SCOPE = SPFILE;
```

设置该事件后重启数据库即可。

```
[oracle@orcltest ~]$ oerr ora 28401 28401, 00000, "Event to disable delay after three failed login attempts" // *Document: NO // *Cause: N/A // *Action: Set this event in your environment to disable the login delay
```

```
// which will otherwise take place after three failed login attempts.
// *Note: THIS IS NOT A USER ERROR NUMBER/MESSAGE. THIS DOES NOT NEED TO BE
// TRANSLATED OR DOCUMENTED.
[oracle@orcltest ~]$
```

1.3.7 哪些用户密码没有被修改过

Oracle 在 11g 中对于安全方面进行了很大的改进,比如增加了密码大小写验证,增加了密码复杂度的验证等等。在 Oracle 11g 中还提供了一个视图 DBA_USERS_WITH_DEFPWD 用来指出那些用户的密码没有被修改过,仍然是数据库默认密码。Oracle 并不是简单的监测是否密码被修改,而是检查密码是否修改为别的值,如果新密码和旧密码保持一致,那么即使密码被修改,这个用户仍然在 DBA USERS WITH DEFPWD 视图中。

SELECT * FROM DBA USERS WITH DEFPWD;

	-S	
	USERNAME	
1	DIP	
2	XS\$NULL	
3	MDSYS	
4	SPATIAL_WFS_ADMIN_USR	
5	OUTLN	
6	CTXSYS	
7	OLAPSYS	
8	SPATIAL_CSW_ADMIN_USR	
9	OWBSYS	
10	ORACLE_OCM	
11	EXFSYS	
12	SCOTT	
13	DBSNMP	
14	ORDSYS	
15	ORDPLUGINS	
16	MDDATA	
17	PM	
18	APPQOSSYS	
19	XDB	
20	ORDDATA	
21	IX	
22	BI	
23	WMSYS	
24	SI_INFORMTN_SCHEMA	

1.3.8 密码复杂性校验

脚本位置: \$ORACLE HOME/rdbms/admin/utlpwdmg.sql



utlpwdmg.sql

```
[oracle@orcltest ~]$ 11 $ORACLE_HOME/rdbms/admin/utlpwdmg.sql -rw-r--r- 1 oracle oinstall 11555 Aug 13 2006 /u02/app/oracle/product/11.2.0/dbhome_1/rdbms/admin/utlpwdmg.sql [oracle@orcltest ~]$

SYS@lhrdb> @?/rdbms/admin/utlpwdmg.sql

Function created.
```

```
Profile altered.

Function created.

SYS@lhrdb>
```

该脚本中有如下的一段:

```
ALTER PROFILE DEFAULT LIMIT

PASSWORD_LIFE_TIME 180

PASSWORD_GRACE_TIME 7

PASSWORD_REUSE_TIME UNLIMITED

PASSWORD_REUSE_MAX UNLIMITED

FAILED_LOGIN_ATTEMPTS 10

PASSWORD_LOCK_TIME 1

PASSWORD_VERIFY_FUNCTION verify_function_11G;
```

更改之后查看:

```
SYS@lhrdb> SELECT * FROM Dba Profiles d WHERE d.profile='DEFAULT';
PROFILE
                           RESOURCE NAME
                                                         RESOURCE LIMIT
DEFAULT
                                                         KERNEL UNLIMITED
                           COMPOSITE LIMIT
DEFAULT
                           SESSIONS_PER_USER
                                                         KERNEL UNLIMITED
DEFAULT
                           CPU PER SESSION
                                                         KERNEL UNLIMITED
                                                         KERNEL UNLIMITED
DEFAULT
                           CPU PER CALL
                                                         KERNEL UNLIMITED
DEFAULT
                           LOGICAL READS PER SESSION
                                                         KERNEL UNLIMITED
DEFAULT
                           LOGICAL READS PER CALL
                                                         KERNEL UNLIMITED
                           IDLE TIME
DEFAULT
DEFAULT
                           CONNECT_TIME
                                                         KERNEL UNLIMITED
DEFAULT
                           PRIVATE SGA
                                                         KERNEL UNLIMITED
                           FAILED LOGIN ATTEMPTS
                                                         PASSWORD 10
DEFAULT
DEFAULT
                           PASSWORD LIFE TIME
                                                         PASSWORD 180
                           PASSWORD REUSE TIME
                                                         PASSWORD UNLIMITED
DEFAULT
DEFAULT
                            PASSWORD REUSE MAX
                                                         PASSWORD UNLIMITED
DEFAULT
                           PASSWORD_LOCK_TIME
                                                         PASSWORD 1
DEFAULT
                           PASSWORD GRACE TIME
                                                         PASSWORD 7
16 rows selected.
SYS@lhrdb> create user lhrpwd identified by lhr;
create user lhrpwd identified by lhr
ERROR at line 1:
ORA-28003: password verification for the specified password failed
ORA-20001: Password length less than 8
SYS@lhrdb>
SYS@lhrdb> alter profile default limit PASSWORD VERIFY FUNCTION null; <<<<<<-----取消复杂性验证
Profile altered.
SYS@lhrdb> create user lhrpwd identified by lhr;
User created.
```

SYS@lhrdb> alter profile default limit PASSWORD_VERIFY_FUNCTION VERIFY_FUNCTION_11G; <<<<<-----启用密码复杂性验证

Profile altered.

SYS@lhrdb>

1.3.9 resource limit

官方文档资料:

To create a profile, you must have the CREATE PROFILE system privilege.

To specify resource limits for a user, you must:

- •Enable resource limits dynamically with the ALTER SYSTEM statement or with the initialization parameter RESOURCE_LIMIT. This parameter does not apply to password resources. Password resources are always enabled.
 - •Create a profile that defines the limits using the CREATE PROFILE statement
 - •Assign the profile to the user using the CREATE USER or ALTER USER statement

1) 用户所有拥有的 PROFILE 中有关密码的限制永远生效,不受限制。

2)用户所有拥有的PROFILE中有关资源的限制与resource_limit参数的设置有关,当为TRUE时生效,当为FALSE时(默认值是FALSE)无效。

About Me

- 本文作者:小麦苗,只专注于数据库的技术,更注重技术的运用
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