

[TOOL] A Simple Oracle Installation Security Scanner

Source: <http://www.derkeiler.com/Mailing-Lists/Securiteam/2002-01/0056.html>

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Date: 01/13/02

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To: list@securiteam.com

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The following security advisory is sent to the securiteam mailing list, and can be found at the SecuriTeam web site: <http://www.securiteam.com>

-- promotion

When was the last time you checked your server's security?

How about a monthly report?

<http://www.AutomatedScanning.com> -- Know that you're safe.

A Simple Oracle Installation Security Scanner

DETAILS

The following simple Oracle scanner can help administrators review some basic aspects of an Oracle installation.

Checks performed:

- 1) Default Users -- Check for Known Passwords
- 2) Check for User Passwords that are Easy to Guess
- 3) Connect as INTERNAL
- 4) Check for Users Who Have the Privilege "DBA"
- 5) Check For Users and Roles that Have Privileges With "ANY" Included
- 6) Check For Users That Have "with admin" or "with grant"
- 7) Check External Users
- 8) System Privileges -- ALTER SYSTEM and CREATE LIBRARY
- 9) utl_file_dir Location
- 10) Database Links That Have Clear Text Passwords

Tool:

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```
--          PENTEST LIMITED
--
--          -----
--
--
-- File Name   : %M%.%R%
--
-- Author      : Pete Finnigan ( Pentest Limited )
--
-- Date        : November 2001
--
--
--
-- Description
--
-- -----
--
--
-- Simple Oracle scanner to review some basic aspects of an Oracle
--
-- installation.
--
--
--
-- Version History
--
-- =====
--
--
--
-- Who         Ver         Date           Description
-- -----
-- PF          1.0         Dec 2001      First Issue
--
-----
-- set up SQL*PLUS --
-----
whenever sqlerror exit rollback

set head on set feed on set linesize 80 set termout on set serveroutput on size 1000000

-----
-- capture the output --
-----

spool scanner.lis

-----
-- create an anonymouse block to scan with --
-----

declare type user_tab is table of varchar2(30) index by binary_integer; type pwd_tab is table of varchar2(30)
index by binary_integer; type hash_tab is table of varchar2(16) index by binary_integer; username user_tab;
password pwd_tab; hash hash_tab; tab_key binary_integer:=1; i binary_integer:=1; -- cursor c_user is select
username, password from dba_users; -- cursor c_utl_cur is select rtrim(name) name, rtrim(value) value from
v$parameter where name='utl_file_dir'; -- cursor c_trace is select rtrim(name) name,
```

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```
decode(rtrim(value),NULL,'NULL',rtrim(value)) value from v$parameter where name like '%dest%'; --
cursor c_utl_trace is select rtrim(a.name) name from v$parameter a, v$parameter b where
a.name='utl_file_dir' and b.name like '%dest%' and a.value=b.value; -- cursor c_sys_priv (cp_priv in
dba_sys_privs.privilege%type) is select grantee, privilege from dba_sys_privs where privilege like cp_priv;
-- cursor c_admin is select grantee, privilege priv from dba_sys_privs where admin_option='YES' union
select grantee, granted_role priv from dba_role_privs where admin_option='YES'; -- cursor c_grant is select
grantee, privilege, table_name from dba_tab_privs where grantable='YES' union select grantee, privilege,
table_name from dba_col_privs where grantable='YES'; -- cursor c_ext is select username from dba_users
where password='EXTERNAL'; -- cursor c_dba is select grantee from dba_role_privs where
granted_role='DBA'; -- cursor c_links is select name, host, userid, password, authusr, authpwd from
sys.link$ where password is not null; -- lv_sys_priv c_sys_priv%rowtype; lv_utl_cur c_utl_cur%rowtype;
lv_trace c_trace%rowtype; lv_utl_trace c_utl_trace%rowtype; -- found number:=0; -- begin
```

-- manually load the user list into the tables

```
tab_key:=1; username(tab_key):='ADAMS'; password(tab_key):='WOOD';
hash(tab_key):='72CDEF4A3483F60D'; -- tab_key:=2; username(tab_key):='ADLDEMO';
password(tab_key):='ADLDEMO'; hash(tab_key):='147215F51929A6E8'; -- tab_key:=3;
username(tab_key):='APPLSYS'; password(tab_key):='FND'; hash(tab_key):='0F886772980B8C79'; --
tab_key:=4; username(tab_key):='APPLYSPUB'; password(tab_key):='PUB';
hash(tab_key):='A5E09E84EC486FC9'; -- tab_key:=5; username(tab_key):='APPS';
password(tab_key):='APPS'; hash(tab_key):='D728438E8A5925E0'; -- tab_key:=6;
username(tab_key):='AQDEMO'; password(tab_key):='AQDEMO'; hash(tab_key):='5140E342712061DD';
-- tab_key:=7; username(tab_key):='AQJAVA'; password(tab_key):='AQJAVA';
hash(tab_key):='8765D2543274B42E'; -- tab_key:=8; username(tab_key):='AQUSER';
password(tab_key):='AQUSER'; hash(tab_key):='4CF13BDAC1D7511C'; -- tab_key:=9;
username(tab_key):='AUDIOUSER'; password(tab_key):='AUDIOUSER';
hash(tab_key):='CB4F2CEC5A352488'; -- tab_key:=10;
username(tab_key):='AURORA$ORB$UNAUTHENTICATED'; password(tab_key):='INVALID';
hash(tab_key):='80C099F0EADF877E'; -- tab_key:=11; username(tab_key):='BLAKE';
password(tab_key):='PAPER'; hash(tab_key):='9435F2E60569158E'; -- tab_key:=12;
username(tab_key):='CATALOG'; password(tab_key):='CATALOG'; hash(tab_key):='397129246919E8DA';
-- tab_key:=13; username(tab_key):='CDEMO82'; password(tab_key):='CDEMO83';
hash(tab_key):='7299A5E2A5A05820'; -- tab_key:=14; username(tab_key):='CDEMOCOR';
password(tab_key):='CDEMOCOR'; hash(tab_key):='3A34F0B26B951F3F'; -- tab_key:=15;
username(tab_key):='CDEMOUCB'; password(tab_key):='CDEMOUCB';
hash(tab_key):='CEAE780F25D556F8'; -- tab_key:=16; username(tab_key):='CEMORID';
password(tab_key):='CEMORID'; hash(tab_key):='E39CEFE64B73B308'; -- tab_key:=17;
username(tab_key):='CENTRA'; password(tab_key):='CENTRA'; hash(tab_key):='63BF5FFE5E3EA16D';
-- tab_key:=18; username(tab_key):='CLARK'; password(tab_key):='CLOTH';
hash(tab_key):='7AAFE7D01511D73F'; -- tab_key:=19; username(tab_key):='COMPANY';
password(tab_key):='COMPANY'; hash(tab_key):='402B659C15EAF6CB'; -- tab_key:=20;
username(tab_key):='CSMIG'; password(tab_key):='CSMIG'; hash(tab_key):='09B4BB013FBD0D65'; --
tab_key:=21; username(tab_key):='CTXDEMO'; password(tab_key):='CTXDEMO';
hash(tab_key):='CB6B5E9D9672FE89'; -- tab_key:=22; username(tab_key):='CTXSYS';
password(tab_key):='CTXSYS'; hash(tab_key):='24ABAB8B06281B4C'; -- tab_key:=23;
username(tab_key):='DBSNMP'; password(tab_key):='DBSNMP'; hash(tab_key):='E066D214D5421CCC';
-- tab_key:=24; username(tab_key):='DEMO'; password(tab_key):='DEMO';
hash(tab_key):='4646116A123897CF'; -- tab_key:=25; username(tab_key):='DEMO8';
password(tab_key):='DEMO9'; hash(tab_key):='0E7260738FDFD678'; -- tab_key:=26;
username(tab_key):='EMP'; password(tab_key):='EMP'; hash(tab_key):='B40C23C6E2B4EA3D'; --
```

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```
tab_key:=27; username(tab_key):='EVENT'; password(tab_key):='EVENT';
hash(tab_key):='7CA0A42DA768F96D'; -- tab_key:=28; username(tab_key):='FINANCE';
password(tab_key):='FINANCE'; hash(tab_key):='6CBBF17292A1B9AA'; -- tab_key:=29;
username(tab_key):='FND'; password(tab_key):='FND'; hash(tab_key):='0C0832F8B6897321'; --
tab_key:=30; username(tab_key):='GPFDD'; password(tab_key):='GPFDD';
hash(tab_key):='BA787E988F8BC424'; -- tab_key:=31; username(tab_key):='GPLD';
password(tab_key):='GPLD'; hash(tab_key):='9D561E4D6585824B'; -- tab_key:=32;
username(tab_key):='HR'; password(tab_key):='HR'; hash(tab_key):='4C6D73C3E8B0F0DA'; --
tab_key:=33; username(tab_key):='HLW'; password(tab_key):='HLW'; hash(tab_key):='855296220C095810';
-- tab_key:=34; username(tab_key):='IMAGEUSER'; password(tab_key):='IMAGEUSER';
hash(tab_key):='E079BF5E433F0B89'; -- tab_key:=35; username(tab_key):='IMEDIA';
password(tab_key):='IMEDIA'; hash(tab_key):='8FB1DC9A6F8CE827'; -- tab_key:=36;
username(tab_key):='JONES'; password(tab_key):='STEEL'; hash(tab_key):='B9E99443032F059D'; --
tab_key:=37; username(tab_key):='JMUSER'; password(tab_key):='JMUSER';
hash(tab_key):='063BA85BF749DF8E'; -- tab_key:=38; username(tab_key):='LBACSYS';
password(tab_key):='LBACSYS'; hash(tab_key):='AC9700FD3F1410EB'; -- tab_key:=39;
username(tab_key):='MDSYS'; password(tab_key):='MDSYS'; hash(tab_key):='9AAEB2214DCC9A31'; --
tab_key:=40; username(tab_key):='MFG'; password(tab_key):='MFG';
hash(tab_key):='FC1B0DD35E790847'; -- tab_key:=41; username(tab_key):='MIGRATE';
password(tab_key):='MIGRATE'; hash(tab_key):='5A88CE52084E9700'; -- tab_key:=42;
username(tab_key):='MILLER'; password(tab_key):='MILLER'; hash(tab_key):='D0EFCDD03C95DF106'; --
tab_key:=43; username(tab_key):='MMO2'; password(tab_key):='MMO3';
hash(tab_key):='AE128772645F6709'; -- tab_key:=44; username(tab_key):='MODTEST';
password(tab_key):='YES'; hash(tab_key):='BBFF58334CDEF86D'; -- tab_key:=45;
username(tab_key):='MOREAU'; password(tab_key):='MOREAU'; hash(tab_key):='CF5A081E7585936B';
-- tab_key:=46; username(tab_key):='NAMES'; password(tab_key):='NAMES';
hash(tab_key):='9B95D28A979CC5C4'; -- tab_key:=47; username(tab_key):='MTSSYS';
password(tab_key):='MTSSYS'; hash(tab_key):='6465913FF5FF1831'; -- tab_key:=48;
username(tab_key):='MXAGENT'; password(tab_key):='MXAGENT';
hash(tab_key):='C5F0512A64EB0E7F'; -- tab_key:=49; username(tab_key):='OCITEST';
password(tab_key):='OCITEST'; hash(tab_key):='C09011CB0205B347'; -- tab_key:=50;
username(tab_key):='ODS'; password(tab_key):='ODS'; hash(tab_key):='89804494ADFC71BC'; --
tab_key:=51; username(tab_key):='ODSCOMMON'; password(tab_key):='ODSCOMMON';
hash(tab_key):='59BBED977430C1A8'; -- tab_key:=52; username(tab_key):='OE';
password(tab_key):='OE'; hash(tab_key):='D1A2DFC623FDA40A'; -- tab_key:=53;
username(tab_key):='OEMADM'; password(tab_key):='OEMADM';
hash(tab_key):='9DCE98CCF541AAE6'; -- tab_key:=54; username(tab_key):='OLAPDBA';
password(tab_key):='OLAPDBA'; hash(tab_key):='1AF71599EDACFB00'; -- tab_key:=55;
username(tab_key):='OLAPSVR'; password(tab_key):='INSTANCE'; hash(tab_key):='AF52CFD036E8F425';
-- tab_key:=56; username(tab_key):='OLAPSYS'; password(tab_key):='MANAGER';
hash(tab_key):='3FB8EF9DB538647C'; -- tab_key:=57; username(tab_key):='ORAREGSYS';
password(tab_key):='ORAREGSYS'; hash(tab_key):='28D778112C63CB15'; -- tab_key:=58;
username(tab_key):='ORDPLUGINS'; password(tab_key):='ORDPLUGINS';
hash(tab_key):='88A2B2C183431F00'; -- tab_key:=59; username(tab_key):='ORDSYS';
password(tab_key):='ORDSYS'; hash(tab_key):='7EFA02EC7EA6B86F'; -- tab_key:=60;
username(tab_key):='OUTLN'; password(tab_key):='OUTLN'; hash(tab_key):='4A3BA55E08595C81'; --
tab_key:=61; username(tab_key):='PERFSTAT'; password(tab_key):='PERFSTAT';
hash(tab_key):='AC98877DE1297365'; -- tab_key:=62; username(tab_key):='PM';
password(tab_key):='PM'; hash(tab_key):='C7A235E6D2AF6018'; -- tab_key:=63;
username(tab_key):='PO'; password(tab_key):='PO'; hash(tab_key):='355CBEC355C10FEF'; --
tab_key:=64; username(tab_key):='PO8'; password(tab_key):='PO8';
```

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```
hash(tab_key):='7E15FBACA7CDEBEC'; -- tab_key:=65; username(tab_key):='PO7';
password(tab_key):='PO7'; hash(tab_key):='6B870AF28F711204'; -- tab_key:=66;
username(tab_key):='PORTAL30'; password(tab_key):='PORTAL31';
hash(tab_key):='D373ABE86992BE68'; -- tab_key:=67; username(tab_key):='PORTAL30_DEMO';
password(tab_key):='PORTAL30_DEMO'; hash(tab_key):='CFD1302A7F832068'; -- tab_key:=68;
username(tab_key):='PORTAL30_PUBLIC'; password(tab_key):='PORTAL30_PUBLIC';
hash(tab_key):='42068201613CA6E2'; -- tab_key:=69; username(tab_key):='PORTAL30_SSO';
password(tab_key):='PORTAL30_SSO'; hash(tab_key):='882B80B587FCDBC8'; -- tab_key:=70;
username(tab_key):='PORTAL30_SSO_PS'; password(tab_key):='PORTAL30_SSO_PS';
hash(tab_key):='F2C3DC8003BC90F8'; -- tab_key:=71; username(tab_key):='PORTAL30_SSO_PUBLIC';
password(tab_key):='PORTAL30_SSO_PUBLIC'; hash(tab_key):='98741BDA2AC7FFB2'; -- tab_key:=72;
username(tab_key):='POWERCARTUSER'; password(tab_key):='POWERCARTUSER';
hash(tab_key):='2C5ECE3BEC35CE69'; -- tab_key:=73; username(tab_key):='PRIMARY';
password(tab_key):='PRIMARY'; hash(tab_key):='70C3248DFFB90152'; -- tab_key:=74;
username(tab_key):='PUBSUB'; password(tab_key):='PUBSUB'; hash(tab_key):='80294AE45A46E77B'; --
tab_key:=75; username(tab_key):='QS'; password(tab_key):='QS'; hash(tab_key):='4603BCD2744BDE4F';
-- tab_key:=76; username(tab_key):='QS_ADM'; password(tab_key):='QS_ADM';
hash(tab_key):='3990FB418162F2A0'; -- tab_key:=77; username(tab_key):='QS_CB';
password(tab_key):='QS_CB'; hash(tab_key):='870C36D8E6CD7CF5'; -- tab_key:=78;
username(tab_key):='QS_CBADM'; password(tab_key):='QS_CBADM';
hash(tab_key):='20E788F9D4F1D92C'; -- tab_key:=79; username(tab_key):='QS_CS';
password(tab_key):='QS_CS'; hash(tab_key):='2CA6D0FC25128CF3'; -- tab_key:=80;
username(tab_key):='QS_ES'; password(tab_key):='QS_ES'; hash(tab_key):='9A5F2D9F5D1A9EF4'; --
tab_key:=81; username(tab_key):='QS_OS'; password(tab_key):='QS_OS';
hash(tab_key):='0EF5997DC2638A61'; -- tab_key:=82; username(tab_key):='QS_WS';
password(tab_key):='QS_WS'; hash(tab_key):='0447F2F756B4F460'; -- tab_key:=83;
username(tab_key):='RE'; password(tab_key):='RE'; hash(tab_key):='933B9A9475E882A6'; -- tab_key:=84;
username(tab_key):='REPADMIN'; password(tab_key):='REPADMIN';
hash(tab_key):='915C93F34954F5F8'; -- tab_key:=85; username(tab_key):='RMAIL';
password(tab_key):='RMAIL'; hash(tab_key):='DA4435BBF8CAE54C'; -- tab_key:=86;
username(tab_key):='RMAN'; password(tab_key):='RMAN'; hash(tab_key):='E7B5D92911C831E1'; --
tab_key:=87; username(tab_key):='SAMPLE'; password(tab_key):='SAMPLE';
hash(tab_key):='E74B15A3F7A19CA8'; -- tab_key:=88; username(tab_key):='SCOTT';
password(tab_key):='TIGER'; hash(tab_key):='F894844C34402B67'; -- tab_key:=89;
username(tab_key):='SDOS_ICSAP'; password(tab_key):='SDOS_ICSAP';
hash(tab_key):='C789210ACC24DA16'; -- tab_key:=90; username(tab_key):='SECDEMO';
password(tab_key):='SECDEMO'; hash(tab_key):='009BBE8142502E10'; -- tab_key:=91;
username(tab_key):='SH'; password(tab_key):='SH'; hash(tab_key):='54B253CBBAAA8C48'; --
tab_key:=92; username(tab_key):='SYS'; password(tab_key):='CHANGE_ON_INSTALL';
hash(tab_key):='D4C5016086B2DC6A'; -- tab_key:=93; username(tab_key):='SYSADM';
password(tab_key):='SYSADM'; hash(tab_key):='BA3E855E93B5B9B0'; -- tab_key:=94;
username(tab_key):='SYSTEM'; password(tab_key):='MANAGER'; hash(tab_key):='D4DF7931AB130E37';
-- tab_key:=95; username(tab_key):='TAHITI'; password(tab_key):='TAHITI';
hash(tab_key):='F339612C73D27861'; -- tab_key:=96; username(tab_key):='TDOS_ICSAP';
password(tab_key):='TDOS_ICSAP'; hash(tab_key):='7C0900F751723768'; -- tab_key:=97;
username(tab_key):='TRACESVR'; password(tab_key):='TRACE'; hash(tab_key):='F9DA8977092B7B81';
-- tab_key:=98; username(tab_key):='TSDEV'; password(tab_key):='TSDEV';
hash(tab_key):='29268859446F5A8C'; -- tab_key:=99; username(tab_key):='TSUSER';
password(tab_key):='TSUSER'; hash(tab_key):='90C4F894E2972F08'; -- tab_key:=100;
username(tab_key):='USER0'; password(tab_key):='USER0'; hash(tab_key):='8A0760E2710AB0B4'; --
tab_key:=101; username(tab_key):='USER1'; password(tab_key):='USER1';
```

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```
hash(tab_key):='BBE7786A584F9103'; -- tab_key:=102; username(tab_key):='USER2';
password(tab_key):='USER2'; hash(tab_key):='1718E5DDB8F89784'; -- tab_key:=103;
username(tab_key):='USER3'; password(tab_key):='USER3'; hash(tab_key):='94152F9F5B35B103'; --
tab_key:=104; username(tab_key):='USER4'; password(tab_key):='USER4';
hash(tab_key):='2907B1BFA9DA5091'; -- tab_key:=105; username(tab_key):='USER5';
password(tab_key):='USER5'; hash(tab_key):='6E97FCEA92BAA4CB'; -- tab_key:=106;
username(tab_key):='USER6'; password(tab_key):='USER6'; hash(tab_key):='F73E1A76B1E57F3D'; --
tab_key:=107; username(tab_key):='USER7'; password(tab_key):='USER7';
hash(tab_key):='3E9C94488C1A3908'; -- tab_key:=108; username(tab_key):='USER8';
password(tab_key):='USER8'; hash(tab_key):='D148049C2780B869'; -- tab_key:=109;
username(tab_key):='USER9'; password(tab_key):='USER9'; hash(tab_key):='0487AFEE55ECE66'; --
tab_key:=110; username(tab_key):='UTLBSTATU'; password(tab_key):='UTLESTAT';
hash(tab_key):='C42D1FA3231AB025'; -- tab_key:=111; username(tab_key):='VIDEOUSER';
password(tab_key):='VIDEOUSER'; hash(tab_key):='29ECA1F239B0F7DF'; -- tab_key:=112;
username(tab_key):='VIF_DEVELOPER'; password(tab_key):='VIF_DEV_PWD';
hash(tab_key):='9A7DCB0C1D84C488'; -- tab_key:=113; username(tab_key):='VIRUSER';
password(tab_key):='VIRUSER'; hash(tab_key):='404B03707BF5CEA3'; -- tab_key:=114;
username(tab_key):='VRR1'; password(tab_key):='VRR2'; hash(tab_key):='811C49394C921D66'; --
tab_key:=115; username(tab_key):='WEBDB'; password(tab_key):='WEBDB';
hash(tab_key):='D4C4DCDD41B05A5D'; -- tab_key:=116; username(tab_key):='WKSYS';
password(tab_key):='WKSYS'; hash(tab_key):='545E13456B7DDEA0'; --
```

-- check all users in the database and see if defaults are set still

```
dbms_output.put_line('Check default user passwords');
dbms_output.put_line('====='); for lv_user in c_user loop for i in 1..tab_key
loop if lv_user.username=username(i) then if lv_user.password=hash(i) then dbms_output.put_line('Default : '
||username(i)||' passwd is : '||password(i)); exit; end if; end if; end loop; end loop;
```

-- check for some of the dangerous privileges -- -- ALTER SYSTEM

```
found:=0; dbms_output.put_line('.'); dbms_output.put_line('Display Users that have the "ALTER SYSTEM"
privilege'); dbms_output.put_line('=====');
for lv_sys_priv in c_sys_priv('ALTER SYSTEM') loop dbms_output.put_line(lv_sys_priv.privilege||
'||lv_sys_priv.grantee); end loop;
```

-- check for CREATE LIBRARY

```
dbms_output.put_line('.'); dbms_output.put_line('Display Users that have the "CREATE LIBRARY"
privilege');
dbms_output.put_line('====='); for
lv_sys_priv in c_sys_priv('CREATE%LIBRARY') loop dbms_output.put_line(lv_sys_priv.privilege||
'||lv_sys_priv.grantee); end loop;
```

-- check the location of utl_file_dir and ensure its not the same as -- the trace directories

```
found:=0; dbms_output.put_line('.'); dbms_output.put_line('Dislay utl_file_dir');
dbms_output.put_line('====='); open c_utl_cur; loop fetch c_utl_cur into lv_utl_cur; if
c_utl_cur%notfound then if found=0 then dbms_output.put_line('utl_file_dir is not set'); end if; exit; else
found:=1; dbms_output.put_line('utl_file_dir is '||rtrim(lv_utl_cur.value)); end if; end loop; close c_utl_cur;
dbms_output.put_line('.'); dbms_output.put_line('Dislay destinations');
```

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```
dbms_output.put_line('====='); found:=0; open c_trace; loop fetch c_trace into lv_trace;
if c_trace%notfound then if found=0 then dbms_output.put_line('no trace directories set'); end if; exit; else
found:=1; dbms_output.put_line(rtrim(lv_trace.name) || ' is ' ||rtrim(lv_trace.value)); end if; end loop; close
c_trace;
```

-- check if the utl_file_dir clashes with any of the dest directions

```
dbms_output.put_line('.'); dbms_output.put_line('Display any clash between utl_file_dir and destination
direcories');
dbms_output.put_line('=====');
found:=0; open c_utl_trace; loop fetch c_utl_trace into lv_utl_trace; if c_utl_trace%notfound then if found=0
then dbms_output.put_line('No apparent match between utl_file_dir and dest directories'); end if; exit; else
dbms_output.put_line(lv_utl_trace.name|| ' matches utl_file_dir'); end if; end loop; close c_utl_trace;
```

-- check for users with the DBA privilege

```
dbms_output.put_line('.'); dbms_output.put_line('Check for users with "DBA" privilege');
dbms_output.put_line('====='); for lv_dba in c_dba loop
dbms_output.put_line(lv_dba.grantee); end loop;
```

-- check out which users have ANY

```
dbms_output.put_line('.'); dbms_output.put_line('Check for users with "ANY" privilege');
dbms_output.put_line('====='); for lv_sys_priv in
c_sys_priv('%ANY%') loop dbms_output.put_line(lv_sys_priv.privilege|| ':'||lv_sys_priv.grantee); end loop;
```

-- check out users or roles that have "with admin" dbms_output.put_line('.'); dbms_output.put_line('Check
for users or roles the have "with admin");

```
dbms_output.put_line('====='); for lv_admin in
c_admin loop dbms_output.put_line(lv_admin.priv|| ':'||lv_admin.grantee); end loop;
```

-- check out which privileges have with with grant dbms_output.put_line('.'); dbms_output.put_line('Check
for users and roles that have "grantable");

```
dbms_output.put_line('====='); for lv_grant in
c_grant loop dbms_output.put_line(lv_grant.privilege|| ':' ||lv_grant.table_name|| ':'||lv_grant.grantee); end
loop;
```

-- check out external users

```
dbms_output.put_line('.'); dbms_output.put_line('Display External Users');
dbms_output.put_line('====='); for lv_ext in c_ext loop
dbms_output.put_line(lv_ext.username); end loop;
```

-- check out database links where there is a password set.

```
dbms_output.put_line('.'); dbms_output.put_line('Display Database links where there is a password set');
dbms_output.put_line('====='); for lv_links
in c_links loop dbms_output.put_line(lv_links.name|| ':'||lv_links.host|| ':' ||lv_links.userid||
:'||lv_links.password || ':'||lv_links.authusr|| ':'||lv_links.authpwd); end loop; end; /
```

spool off

Securiteam: [TOOL] A Simple Oracle Installation Security Scanner

ADDITIONAL INFORMATION

The information has been provided by <<mailto:pete@peterfinnigan.demon.co.uk>> Pete Finnigan of Pentest Limited.

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