Spool
Oracle_12c_CIS_Audit.html

```
prompt [Test]: Ensure All Default Passwords Are Changed
prompt [Query] : SELECT USERNAME FROM
DBA_USERS_WITH_DEFPWD WHERE USERNAME NOT LIKE '%XS$NULL%';
prompt [Output]:
SELECT USERNAME FROM DBA_USERS_WITH_DEFPWD WHERE USERNAME
NOT LIKE '%XS$NULL%';
prompt [Expected Output]: Empty Result
prompt [Remediation]: For each username run PASSWORD
<username>
prompt ----------------------------------------

prompt [Test]: Ensure All Sample Data And Users Have Been
Removed
prompt [Query] : SELECT USERNAME FROM ALL_USERS WHERE
USERNAME IN ('BI','HR','IX','OE','PM','SCOTT','SH');
prompt [Output]:
SELECT USERNAME FROM ALL_USERS WHERE USERNAME IN
('BI','HR','IX','OE','PM','SCOTT','SH');
prompt [Expected Output]: Empty Result
prompt [Remediation]: Execute
$ORACLE_HOME/demo/schema/drop_sch.sql and then DROP USER
SCOTT CASCADE;
prompt ----------------------------------------

prompt [Manual Test]: Ensure
'SECURE_CONTROL_<listener_name>' Is Set In 'listener.ora'
prompt [Expected Output]: In the
$ORACLE_HOME/network/admin/listener.ora ensure each
listener has an associated SECURE_CONTROL_<listener_name>
directive
prompt [Remediation]: Set the
SECURE_CONTROL_<listener_name> for each defined listener
in the listener.ora
prompt ----------------------------------------

prompt [Manual Test]: Ensure 'extproc' Is Not Present in
'listener.ora'
prompt [Expected Output]: Run grep -i extproc
$ORACLE_HOME/network/admin/listener.ora and ensure extproc
does not exist
```

```
prompt [Remediation]: Remove extproc from the listener.ora
file
prompt ----------------------------------------

prompt [Manual Test]: Ensure
'ADMIN_RESTRICTIONS_<listener_name>' Is Set to 'ON'
prompt [Expected Output]: Run grep -i admin_restrictions
$ORACLE_HOME/network/admin/listener.ora and ensure
ADMIN_RESTRICTIONS_<listener_name> is set to ON for
        all listeners
prompt [Remediation]: Set the
ADMIN_RESTRICTIONS_<listener_name> value to ON
prompt ----------------------------------------

prompt [Manual Test]: Ensure
'SECURE_REGISTER_<listener_name>' Is Set to 'TCPS' or
'IPC'
prompt [Expected Output]: grep -i SECURE_REGISTER
$ORACLE_HOME/network/admin/listener.ora and ensure
SECURE_REGISTER_<listener_name> is set to TCPS or IPC
prompt [Remediation]: For each listener set the
SECURE_REGISTER_<listener_name>=TCPS or
SECURE_REGISTER_<listener_name>=IPC
prompt ----------------------------------------

prompt [Test]: Ensure 'AUDIT_SYS_OPERATIONS' Is Set to
'TRUE'
prompt [Query] : SELECT UPPER(VALUE) FROM V$PARAMETER
WHERE UPPER(NAME) = 'AUDIT_SYS_OPERATIONS';
prompt [Output]:
SELECT UPPER(VALUE) FROM V$PARAMETER WHERE UPPER(NAME) =
'AUDIT_SYS_OPERATIONS';
prompt [Expected Output]: AUDIT_SYS_OPERATIONS Value Is
Set to 'TRUE'
prompt [Remediation]: ALTER SYSTEM SET
AUDIT_SYS_OPERATIONS = TRUE SCOPE=SPFILE;
prompt ----------------------------------------

prompt [Test]: Ensure 'AUDIT_TRAIL' Is Set to
'OS','DB,EXTENDED', or 'XML,EXTENDED'
prompt [Query] : SELECT UPPER(VALUE) FROM V$PARAMETER
WHERE UPPER(NAME)='AUDIT_TRAIL';
prompt [Output]:
```

```sql
SELECT UPPER(VALUE) FROM V$PARAMETER WHERE
UPPER(NAME)='AUDIT_TRAIL';
prompt [Expected Output]: AUDIT_TRAIL VALUE is set to OS
or      DB,EXTENDED or XML,EXTENDED.
prompt [Remediation]: ALTER SYSTEM SET AUDIT_TRAIL =
'DB,EXTENDED' SCOPE = SPFILE; or ALTER SYSTEM SET
AUDIT_TRAIL = 'OS' SCOPE = SPFILE; or ALTER SYSTEM SET
AUDIT_TRAIL = 'XML,EXTENDED' SCOPE = SPFILE;
prompt ----------------------------------------

prompt [Test]: Ensure 'GLOBAL_NAMES' Is Set to 'TRUE'
prompt [Query] : SELECT UPPER(VALUE) FROM V$PARAMETER
WHERE UPPER(NAME)='GLOBAL_NAMES';
prompt [Output]:
SELECT UPPER(VALUE) FROM V$PARAMETER WHERE
UPPER(NAME)='GLOBAL_NAMES';
prompt [Expected Output]: GLOBAL_NAMES VALUE is set to
TRUE
prompt [Remediation]: ALTER SYSTEM SET GLOBAL_NAMES = TRUE
SCOPE = SPFILE;
prompt ----------------------------------------

prompt [Test]: Ensure 'LOCAL_LISTENER' Is Set
Appropriately
prompt [Query] : SELECT UPPER(VALUE) FROM V$PARAMETER
WHERE UPPER(NAME)='LOCAL_LISTENER';
prompt [Output]:
SELECT UPPER(VALUE) FROM V$PARAMETER WHERE
UPPER(NAME)='LOCAL_LISTENER';
prompt [Expected Output]: VALUE is  set to
(DESCRIPTION=(ADDRESS= (PROTOCOL=IPC)(KEY=REGISTER)))
prompt [Remediation]: ALTER SYSTEM SET
LOCAL_LISTENER='[description]' SCOPE = BOTH;
prompt ----------------------------------------

prompt [Test]: Ensure 'O7_DICTIONARY_ACCESSIBILITY' Is Set
to 'FALSE'
prompt [Query] : SELECT UPPER(VALUE) FROM V$PARAMETER
WHERE UPPER(NAME)='O7_DICTIONARY_ACCESSIBILITY';
prompt [Output]:
SELECT UPPER(VALUE) FROM V$PARAMETER WHERE
UPPER(NAME)='O7_DICTIONARY_ACCESSIBILITY';
prompt [Expected Output]: VALUE is set to FALSE
```

```
prompt [Remediation]: ALTER SYSTEM SET
O7_DICTIONARY_ACCESSIBILITY=FALSE SCOPE = SPFILE;
prompt ----------------------------------------

prompt [Test]: Ensure 'OS_ROLES' Is Set to 'FALSE'
prompt [Query] : SELECT UPPER(VALUE) FROM V$PARAMETER
WHERE UPPER(NAME)='OS_ROLES';
prompt [Output]:
SELECT UPPER(VALUE) FROM V$PARAMETER WHERE
UPPER(NAME)='OS_ROLES';
prompt [Expected Output]: VALUE is set to FALSE
prompt [Remediation]: ALTER SYSTEM SET OS_ROLES = FALSE
SCOPE = SPFILE;
prompt ----------------------------------------

prompt [Test]: Ensure 'REMOTE_LISTENER' Is Empty
prompt [Query] : SELECT UPPER(VALUE) FROM V$PARAMETER
WHERE UPPER(NAME)='REMOTE_LISTENER';
prompt [Output]:
SELECT UPPER(VALUE) FROM V$PARAMETER WHERE
UPPER(NAME)='REMOTE_LISTENER';
prompt [Expected Output]: Empty result
prompt [Remediation]: ALTER SYSTEM SET REMOTE_LISTENER =
'' SCOPE = SPFILE;
prompt ----------------------------------------

prompt [Test]: Ensure 'REMOTE_LOGIN_PASSWORDFILE' Is Set
to 'NONE'
prompt [Query] : SELECT UPPER(VALUE) FROM V$PARAMETER
WHERE UPPER(NAME)='REMOTE_LOGIN_PASSWORDFILE';
prompt [Output]:
SELECT UPPER(VALUE) FROM V$PARAMETER WHERE
UPPER(NAME)='REMOTE_LOGIN_PASSWORDFILE';
prompt [Expected Output]: VALUE is set to NONE
prompt [Remediation]: ALTER SYSTEM SET
REMOTE_LOGIN_PASSWORDFILE = 'NONE' SCOPE = SPFILE;
prompt ----------------------------------------

prompt [Test]: Ensure 'REMOTE_OS_AUTHENT' Is Set to
'FALSE'
prompt [Query] : SELECT UPPER(VALUE) FROM V$PARAMETER
WHERE UPPER(NAME)='REMOTE_OS_AUTHENT';
prompt [Output]:
```

```
SELECT UPPER(VALUE) FROM V$PARAMETER WHERE
UPPER(NAME)='REMOTE_OS_AUTHENT';
prompt [Expected Output]: VALUE is set to FALSE
prompt [Remediation]: ALTER SYSTEM SET REMOTE_OS_AUTHENT =
FALSE SCOPE = SPFILE;
prompt ----------------------------------------

prompt [Test]: Ensure 'REMOTE_OS_ROLES' Is Set to 'FALSE'
prompt [Query] : SELECT UPPER(VALUE) FROM V$PARAMETER
WHERE UPPER(NAME)='REMOTE_OS_ROLES';
prompt [Output]:
SELECT UPPER(VALUE) FROM V$PARAMETER WHERE
UPPER(NAME)='REMOTE_OS_ROLES';
prompt [Expected Output]: VALUE is set to FALSE
prompt [Remediation]: ALTER SYSTEM SET REMOTE_OS_ROLES =
FALSE SCOPE = SPFILE;
prompt ----------------------------------------

prompt [Test]: Ensure 'UTIL_FILE_DIR' Is Empty
prompt [Query] : SELECT UPPER(VALUE) FROM V$PARAMETER
WHERE UPPER(NAME)='UTIL_FILE_DIR';
prompt [Output]:
SELECT UPPER(VALUE) FROM V$PARAMETER WHERE
UPPER(NAME)='UTIL_FILE_DIR';
prompt [Expected Output]: Empty result
prompt [Remediation]: ALTER SYSTEM SET UTIL_FILE_DIR = ''
SCOPE = SPFILE;
prompt ----------------------------------------

prompt [Test]: Ensure 'SEC_CASE_SENSITIVE_LOGON' Is Set to
'TRUE'
prompt [Query] : SELECT UPPER(VALUE) FROM V$PARAMETER
WHERE UPPER(NAME)='SEC_CASE_SENSITIVE_LOGON';
prompt [Output]:
SELECT UPPER(VALUE) FROM V$PARAMETER WHERE
UPPER(NAME)='SEC_CASE_SENSITIVE_LOGON';
prompt [Expected Output]: VALUE is set to TRUE
prompt [Remediation]: ALTER SYSTEM SET
SEC_CASE_SENSITIVE_LOGON = TRUE SCOPE = SPFILE;
prompt ----------------------------------------

prompt [Test]: Ensure 'SEC_MAX_FAILED_LOGIN_ATTEMPTS' Is
Set to '10'
```

```
prompt [Query] : SELECT UPPER(VALUE) FROM V$PARAMETER
WHERE UPPER(NAME)='SEC_MAX_FAILED_LOGIN_ATTEMPTS';
prompt [Output]:
SELECT UPPER(VALUE) FROM V$PARAMETER WHERE
UPPER(NAME)='SEC_MAX_FAILED_LOGIN_ATTEMPTS';
prompt [Expected Output]: VALUE is set to 10
prompt [Remediation]: ALTER SYSTEM SET
SEC_MAX_FAILED_LOGIN_ATTEMPTS = 10 SCOPE = SPFILE;
prompt ----------------------------------------

prompt [Test]: Ensure 'SEC_PROTOCOL_ERROR_FURTHER_ACTION'
Is Set to 'DELAY,3' or 'DROP,3'
prompt [Query] : SELECT UPPER(VALUE) FROM V$PARAMETER
WHERE UPPER(NAME)='SEC_PROTOCOL_ERROR_FURTHER_ACTION';
prompt [Output]:
SELECT UPPER(VALUE) FROM V$PARAMETER WHERE
UPPER(NAME)='SEC_PROTOCOL_ERROR_FURTHER_ACTION';
prompt [Expected Output]: VALUE is set to DELAY,3 or
DROP,3
prompt [Remediation]: ALTER SYSTEM SET
SEC_PROTOCOL_ERROR_FURTHER_ACTION = 'DELAY,3' SCOPE =
SPFILE; or ALTER SYSTEM SET
SEC_PROTOCOL_ERROR_FURTHER_ACTION = 'DROP,3' SCOPE =
SPFILE;
prompt ----------------------------------------

prompt [Test]: Ensure 'SEC_PROTOCOL_ERROR_TRACE_ACTION' Is
Set to 'LOG'
prompt [Query] : SELECT UPPER(VALUE) FROM V$PARAMETER
WHERE UPPER(NAME)='SEC_PROTOCOL_ERROR_TRACE_ACTION';
prompt [Output]:
SELECT UPPER(VALUE) FROM V$PARAMETER WHERE
UPPER(NAME)='SEC_PROTOCOL_ERROR_TRACE_ACTION';
prompt [Expected Output]: VALUE is set to LOG
prompt [Remediation]: ALTER SYSTEM SET
SEC_PROTOCOL_ERROR_TRACE_ACTION=LOG SCOPE = SPFILE;
prompt ----------------------------------------

prompt [Test]: Ensure 'SEC_RETURN_SERVER_RELEASE_BANNER'
Is Set to 'FALSE'
prompt [Query] : SELECT UPPER(VALUE) FROM V$PARAMETER
WHERE UPPER(NAME)='SEC_RETURN_SERVER_RELEASE_BANNER';
prompt [Output]:
```

```
SELECT UPPER(VALUE) FROM V$PARAMETER WHERE
UPPER(NAME)='SEC_RETURN_SERVER_RELEASE_BANNER';
prompt [Expected Output]: VALUE is set to FALSE
prompt [Remediation]: ALTER SYSTEM SET
SEC_RETURN_SERVER_RELEASE_BANNER = FALSE SCOPE = SPFILE;
prompt ----------------------------------------

prompt [Test]: Ensure 'SQL92_SECURITY' Is Set to 'FALSE'
prompt [Query] : SELECT UPPER(VALUE) FROM V$PARAMETER
WHERE UPPER(NAME)='SQL92_SECURITY';
prompt [Output]:
SELECT UPPER(VALUE) FROM V$PARAMETER WHERE
UPPER(NAME)='SQL92_SECURITY';
prompt [Expected Output]: VALUE is set to SCOPE
prompt [Remediation]: ALTER SYSTEM SET SQL92_SECURITY =
FALSE SCOPE = SPFILE;
prompt ----------------------------------------

prompt [Test]: Ensure '_TRACE_FILES_PUBLIC'        Is Set
to 'FALSE'
prompt [Query] : SELECT VALUE FROM V$PARAMETER WHERE
NAME='_trace_files_public';
prompt [Output]:
SELECT VALUE FROM V$PARAMETER WHERE
NAME='_trace_files_public';
prompt [Expected Output]: VALUE equal to FALSE or empty
result
prompt [Remediation]: ALTER SYSTEM SET
"_trace_files_public" = FALSE SCOPE = SPFILE;
prompt ----------------------------------------
```