

Oracle Database Auditing

Oracle database auditing allows you to monitor certain database actions happening inside the database. Auditing also helps in looking at the actions performed against a particular table, schema or certain specific rows.

You can check database auditing is enabled via **SHOW PARAMETER** command

```
Show parameter audit;
```

NAME	TYPE	VALUE
audit_file_dest	string	/u01/app/oracle/admin/orcl/adump
audit_sys_operations	boolean	TRUE
audit_syslog_level	string	
audit_trail	string	DB
unified_audit_common_systemlog	string	
unified_audit_sga_queue_size	integer	1048576
unified_audit_systemlog	string	

The **AUDIT_TRAIL** parameter defines database auditing status. It can take any of the following values

- **none** - Database auditing is disabled
- **os** - Enabled, audit logs are stored at OS level, not inside the database
- **db** - Enabled, audit records are stored inside database (SYS.AUD\$ table)
- **db,extended** - Same as db but populates SQL_BIND & SQL_TEXT too
- **xml** - Enabled, audit records are stored at OS level in XML format
- **xml,extended** - Same as xml but populates SQL_BIND & SQL_TEXT too

Default is DB if you create database via DBCA, else its NONE

The **AUDIT_FILE_DEST** parameter defines the OS level location of the audit trail files. By default it is set to **adump** location.

The **AUDIT_SYS_OPERATIONS** parameter defines auditing is enabled or disabled for any user connecting to database as SYSDBA. This is enabled by default. All the SYS operations audit records goes to OS level into **AUDIT_FILE_DEST** location.

Move AUD\$ Table to Another Tablespace

By default the **SYS.AUD\$ (stores db audit records)** and **SYS.FGA_LOG\$ (stores fine grain audit records)** tables resides under SYSTEM tablespace

```
col owner for a10;  
col segment_name for a10;  
col tablespace_name for a15;
```

```
select owner, segment_name, segment_type, tablespace_name,
       bytes/1024/1024 as MB
from dba_segments
where segment_name in ('AUD$', 'FGA_LOG$');
```

OWNER	SEGMENT_NAME	SEGMENT_TYPE	TABLESPACE_NAME	MB
SYS	AUD\$	TABLE	SYSTEM	.0625
SYS	FGA_LOG\$	TABLE	SYSTEM	.0625

The [DBMS_AUDIT_MGMT](#) package allows you to change the default tablespace. Below query moves **AUD\$** & **FGA_LOG\$** tables to **USERS** tablespace

```
BEGIN
DBMS_AUDIT_MGMT.SET_AUDIT_TRAIL_LOCATION(
audit_trail_type          => DBMS_AUDIT_MGMT.AUDIT_TRAIL_DB_STD,
audit_trail_location_value => 'USERS');
END;
/
```

If you want to only move **AUD\$** table then replace audit_trail_type with

```
audit_trail_type          => DBMS_AUDIT_MGMT.AUDIT_TRAIL_AUD_STD
```

If you want to only move **FGA_LOG\$** table then replace audit_trail_type with

```
audit_trail_type          => DBMS_AUDIT_MGMT.AUDIT_TRAIL_FGA_STD
```