

Ezenia InfoWorkSpace

Technical Bulletin TB08-012 Change Request: 9606

Title: Moving an Oracle Datafile on Solaris Servers

Platform	Version	Operating System	Category
IWS Server	3.0.x	Solaris	Oracle

Description:

How to safely move an Oracle database datafile.

Action:

WARNING: *This is a high risk operation. This process can leave your database in an unrecoverable state. You must make backups of the entire system and database, to ensure recovery if needed.*

1. Back up the entire system., including the entire server, the database, and all of IWS.
You must make backups.
2. Shutdown Placeware:


```
# /etc/init.d/placeware stop
```
3. Shutdown the sunOne Web Server:
 - a. On the server console, open a browser and enter http://<FQHN>:10002
 - b. Enter admin for the username.
 - c. Enter the Privileged User Password for the password.
 - d. For IWS 3.0, click manage, then click Server Off.
For IWS 3.0.6.x, click Start/Stop Instances, select the instance, then click Stop.
4. Shutdown the sunOne Directory Server:
 - a. On the server console, open a terminal window.
 - b. cd to /opt/sunone/servers
 - c. Run the command:
./startconsole
 - d. Enter admin for the username.
 - e. Enter the Privileged User Password for the password.
 - f. Expand the tree on the left and select Directory Server.
 - g. Click Open.
 - h. Click Stop Server.
 - i. Close the window.
 - j. Select the Administration Server from the tree on the left.
 - k. Click Open.
 - l. Click Stop Server.
5. Have your Solaris Administrator add the new drive and configure a file system on it. Have a directory, owned and writable by Oracle, created for the new datafile. Use this naming convention: /<filesystem_name>/oradata/oraiws/
6. Reboot Solaris to verify the new file system is online and accessible after reboot.

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Ezenia InfoWorkSpace

Action, continued:

7. Once you are sure you have good backups and the file system is available, shut down Placeware, the sunOne Web Server, and the sunOne Directory Server, as in steps 2, 3, and 4.
8. As the user oracle, connect to the database as sysdba and alter the tablespace IFS_LOB_N offline:

```
SQL> connect / as sysdba
SQL> select file_name, tablespace_name from dba_data_files where tablespace_name='IFS_LOB_N';
SQL> alter tablespace IFS_LOB_N offline;
```
9. Shut down Oracle:

```
SQL> shutdown immediate
```
10. As the user oracle, copy the datafile (listed under FILE_NAME in the above output) to the new directory on the new file system:

```
# cp -p /old_directory_path/ifs_lob_n.dbf /new_filesystem_path/ifs_lob_n.dbf
```
11. Start the database:

```
SQL> startup
```
12. Alter the tablespace to point to the new datafile. Make sure the datafile names are enclosed in apostrophes (e.g. 'a_filename'):

```
SQL> alter tablespace ifs_lob_n rename datafile
      '/old_directory_path/ifs_lob_n.dbf'
      to '/new_filesystem_path/ifs_lob_n.dbf';
```
13. Alter the tablespace online:

```
SQL> alter tablespace ifs_lob_n online;
```
14. Shut down and restart Oracle:

```
SQL> shutdown immediate
SQL> startup
```
15. Verify there were no errors in the alert log and in the SQL*Plus session:

```
# tail -100 /opt/oracle/u01/product/817/admin/oraiws/bdump/alert_oraiws.log
```
16. Verify that the tablespace points to the new datafile:

```
SQL> select file_name, tablespace_name from dba_data_files where tablespace_name='IFS_LOB_N';
```
17. Reboot the server, check all error logs, and test IWS thoroughly.

For technical support, please contact Ezenia Customer Support
Phone: 866-269-0532
E-mail: customersupport@ezenia.com