

Box Corp

Oracle Database Monitoring Tool

Course: Administración de Bases de Datos EIF402



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LOGIN

Login

Purpose

There are placed all the attributes necessary to make the connection to the Oracle database to monitor.

Benefit

It allows to make the connection in a clear way, apart from changing database easily.



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Choose Data Base Backup

Full Database Backup

Archived

☒ Include Control Files

☒ Include Redo Logs

Confirm

Choose the Object

SYSTEM

Script generated:

run [execute script backup_full];

Acer (D:) > app > emad0 > product > 21c > dbhome0E > database >

C-3001183045-20221122-00	Fecha de modificación: 22/11/2022 21:04
Tipo: Archivo	Tamaño: 17.9 MB
041DG95I_4_1_1	Fecha de modificación: 22/11/2022 21:04
Tipo: Archivo	Tamaño: 508 MB
031DG94P_3_1_1	Fecha de modificación: 22/11/2022 21:03
Tipo: Archivo	Tamaño: 565 MB
021DG92N_2_1_1	Fecha de modificación: 22/11/2022 21:03
Tipo: Archivo	Tamaño: 1.73 GB
A1.DAT	Fecha de modificación: 22/11/2022 21:02
Tipo: Archivo DAT	Tamaño: 100 MB
RMAN_TS.DAT	Fecha de modificación: 22/11/2022 20:57
Tipo: Archivo DAT	Tamaño: 0.97 GB

Backup Strategies

This window allows to generate customized inconsistent backups with the help of RMAN tool.

Purpose

This function will generate RMAN scripts that can backup the selected data, automating this process.

Backup Directory

The files generated after the backup will be stored in the default directory of the data base.

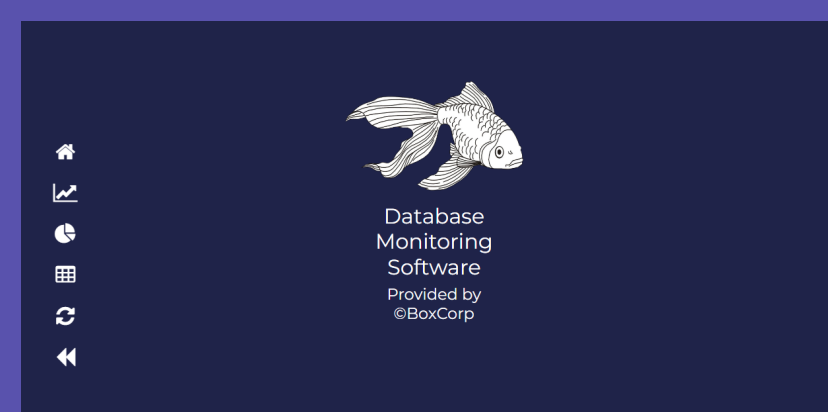
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Navbar

- Returns to home
- SGA Usage
- Tablespaces Memory
- RedoLog Status
- Backup Strategies
- Returns to Login

Home

In this window, the user sees the navigation bar for the first time, accompanied with icons that guide to each of the monitors in the system.



Purpose

Easy navigation through all monitors, on a Single Page Application (SPA).

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RedoLog Status

It is visually represented with how many groups and logs the database has, as well as showing which is the current log.

Group 1	Group 2	Group 3
REDO 1	REDO 2	REDO 3

Purpose

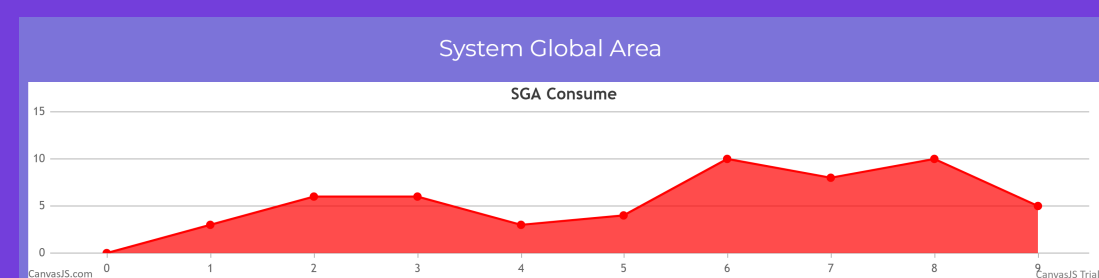
This part of the system facilitates to have a view of where the redo logs will be stored. The log that appears in green is the current redo log.

Benefit

If there is frequent log switches you can check the size of logs and increase accordingly, since there should not be frequent log switches per hour.

Logs	Status	Location	Size	Switch frequency
REDO01	Active	C:\ORADATA\XE\REDO01.LOG	500 MB	30 minutes
REDO02	Current	C:\ORADATA\XE\REDO02.LOG	500 MB	30 minutes
REDO03	Inactive	C:\ORADATA\XE\REDO03.LOG	500 MB	30 minutes

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SGA Usage

In this part of the system you will be able to see a live SGA usage chart, and you will also be notified regarding memory consumption alerts.

Queries executed after HWM Info			
User	Date	Time	Query
SYS	11/18/22	01:43	select * from v\$sgainfo
USER01	11/18/22	01:45	select * from Persons
USER01	11/18/22	01:48	select * from Citas
SYS	11/18/22	01:54	CREATE TABLESPACE rman_ts DATAFILE 'RMAN_TS.DAT' SIZE 1000M ONLINE;
DBA	11/18/22	01:43	select b.tablespace_name, tbs_size SizeMb from (select tablespace_name, sum(bytes)/1024/1024 as tbs_size from dba_data_files group by tablespace_name) b
rman_user	11/18/22	01:43	\$ RMAN target / catalog rman_user

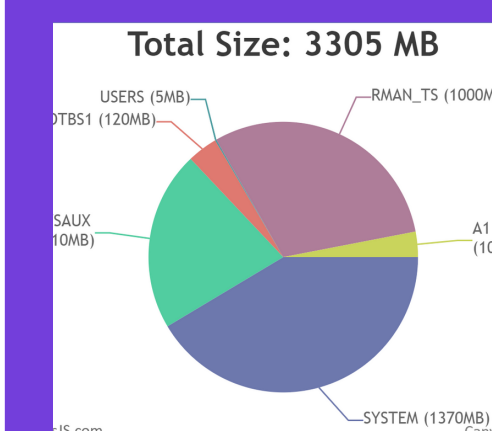
Benefit

This will help to smooth the monitoring of the processes that are consuming more resources in the database, and simultaneously recognize which user is calling those processes.

Purpose

Show all the queries executed by each user in the database once the HWM (High Water Mark) is passed.

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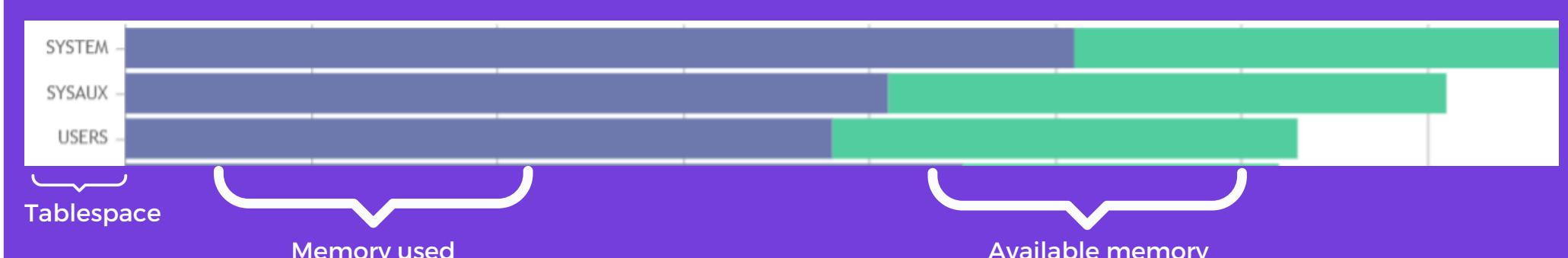
Tablespaces Size

Displays the total memory of each tablespace and compares them in a pie chart.

Tablespaces Memory

This window provides interesting information about tablespace memory, useful to control memory consumption.

Used and free memory for each tablespace



Tablespace	Growth rate	Days until full	HWM
SYSTEM	22 MB/day	76 days left	1030 MB
SYS_AUX	14 MB/day	35 days left	560 MB
USERS	0.2 MB/day	2 days left	4 MB
UNDO	3 MB/day	23 days left	90 MB
RMAN_TS	3 MB/day	135 days left	920 MB
A1	8 MB/day	10 days left	80 MB

Displays the name of each existing tablespace.

It is an approximation of how much memory is used on a daily basis, out of the total available memory.

Displays the number of days left until the memory of the tablespace is full. Is automatically calculated using data consumption statistics.

When the used memory reaches this amount, it means that it is time to increase the memory of the tablespace.

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