

## Load Test of Oracle 21c GoldenGate MicroServices

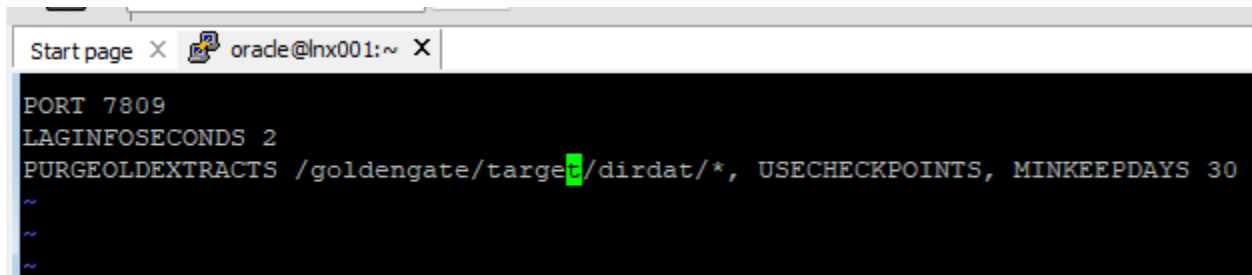
### Disk IO Test

```
madwp3:/opt/app/gg/gg> time dd if=/dev/zero of=/opt/app/gg/gg/testfile bs=16k count=16384
16384+0 records in
16384+0 records out
268435456 bytes (268 MB) copied, 25.7041 seconds, 10.4 MB/s
```

```
real 0m25.742s
user 0m0.004s
sys 0m0.250s
madwp3:/opt/app/gg/gg> time dd if=/opt/app/gg/gg/testfile of=/dev/null bs=16k
16384+0 records in
16384+0 records out
268435456 bytes (268 MB) copied, 0.102082 seconds, 2.6 GB/s
```

```
real 0m0.114s
user 0m0.006s
sys 0m0.098s
madwp3:/opt/app/gg/gg>
```

1. GG: add LAGINFOSECONDS 2 to the Manager parameter file for future measurement and graphing. Bounce the manager, if running.



```
Start page X orade@lnx001:~ X
PORT 7809
LAGINFOSECONDS 2
PURGEOLDEXTRACTS /goldengate/target/dirdat/*, USECHECKPOINTS, MINKEEPDAYS 30
~
~
~
```

As a backup, put in a shell script that writes an output to an ggsci "info all" to a log on OS level every 2 seconds as well. The checkpoint delay (if present) will also be recorded and graphed.

```
target:/home/oracle> mkdir /goldengate/target/log
```

```
target:/home/oracle> mkdir /goldengate/target/scripts
```

```
target:/goldengate/target> cd scripts
```

```
target:/goldengate/target/scripts> ls -ltr
```

```
total 8
```

```
-rwxrwxr-x. 1 oracle oinstall 1838 Mar 15 18:16 ogg_dump_lag_to_log_every_2_secs.ksh
```

```
-rwxrwxr-x. 1 oracle oinstall 866 Mar 15 18:27 ggs.ksh
```

To kick off the monitoring scripts to run every 5 seconds:

```
target:/goldengate/target/log> while true ; do  
/goldengate/target/scripts/ogg_dump_lag_to_log_every_2_secs.ksh & sleep 5; done
```

```
target:/goldengate/target/scripts> ls -l  
total 8  
-rwxrwxr-x. 1 oracle oinstall 866 Mar 15 18:27 ggs.ksh  
-rwxrwxr-x. 1 oracle oinstall 1838 Mar 15 18:16 ogg_dump_lag_to_log_every_2_secs.ksh  
target:/goldengate/target/scripts> while true ; do /goldengate/target/scripts/ogg_dump_lag_to_log_every_2_secs.ksh & sleep 5; done  
[1] 12335  
  
[1]+ Done /goldengate/target/scripts/ogg_dump_lag_to_log_every_2_secs.ksh  
[1] 12353  
[1]+ Done /goldengate/target/scripts/ogg_dump_lag_to_log_every_2_secs.ksh  
[1] 12371  
[1]+ Done /goldengate/target/scripts/ogg_dump_lag_to_log_every_2_secs.ksh
```

From another session, simply tail -f the log:

```
Start page X orade@lnx001:/goldengate/target/scripts X orade@lnx001:/goldengate/target/log X
Using username "oracle".
Last login: Fri Mar 15 10:22:32 2024 from 192.168.1.68
ORACLE_SID=target
ORACLE_HOME=/goldengate/target
RDBMS_HOME=/u01/app/oracle/product/19c/dbhome_1
WALLET=/u01/app/oracle/admin/target/oud_wallet
TNS_ADMIN=/u01/app/oracle/product/19c/network/admin
[oracle@lnx001 ~]$ cd /goldengate/target/log
[oracle@lnx001 log]$ ls -ltr
total 8
-rw-r--r-- 1 oracle oinstall 4392 Mar 15 18:42 ggs_1.log
[oracle@lnx001 log]$ tail -f ggs_1.log
EXTRACT      RUNNING      ECLMDBA1    00:00:00    00:00:08
EXTRACT      RUNNING      PCLMDBA1    00:00:00    00:00:03
REPLICAT     RUNNING      RCLMDBA1    00:00:00    00:00:07

GGSCI (lnx001) 2>
Fri Mar 15 18:42:23 EDT 2024


GGSCI (lnx001) 3>
Oracle GoldenGate Command Interpreter for Oracle
Version 19.1.0.0.200204 OGGCORE_19.1.0.0.OGGBP_PLATFORMS_200122.0600_FBO
Linux, x64, 64bit (optimized), Oracle 19c on Jan 22 2020 16:49:58
Operating system character set identified as UTF-8.

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GGSCI (lnx001) 1>
Program      Status      Group      Lag at Chkpt  Time Since Chkpt
MANAGER      RUNNING
EXTRACT      RUNNING      ECLMDBA1    00:00:00      00:00:03
EXTRACT      RUNNING      PCLMDBA1    00:00:00      00:00:08
REPLICAT     RUNNING      RCLMDBA1    00:00:00      00:00:02
```

 ogg\_dump\_lag\_to\_log\_every\_2\_secs.ksh

 ggs.ksh

 populate\_5min\_rows.sql

CUSTOMER_ID	CUSTOMER_NAME	REG_DATE	INSERTED
2906	~==\}P8GsMc,7r.Wel6	21-FEB-24	16.03.2024:12:26:14
2908	uu(1FCK(O@_J3wMic@	23-AUG-20	16.03.2024:12:26:14
2910	JjH6PlYb	03-JUN-20	16.03.2024:12:26:14
2912	Ltdlca(& X'?`[Z!	03-FEB-22	16.03.2024:12:26:14
2914	r}8!G1G'bO]xKTD	12-JUL-19	16.03.2024:12:26:14
2916	/t Ti<GZx'EJm \$	27-FEB-22	16.03.2024:12:26:14
2918	8 ms H=BZS[E^TOU\ /ksvNv?Fq[G,	25-AUG-20	16.03.2024:12:26:14
2920	uu9IBNjQOT00{(	23-OCT-19	16.03.2024:12:26:14
2922	cT7bwSP: _oI<*ch	01-JUL-20	16.03.2024:12:26:14
2924	m%h-?"&2@ psYG\$(	22-SEP-19	16.03.2024:12:26:14
2926	@`keUeceM2	27-NOV-21	16.03.2024:12:26:14
2928	!C6y) <-Uuu4Sk.w>[xh\kOO	10-JUN-20	16.03.2024:12:26:14
2930	k6?r1'UVvz0g zq>	16-JUL-23	16.03.2024:12:26:14
2932	nc%2_	25-JUL-21	16.03.2024:12:26:14
2934	9b#Y8u"OI/z\	16-JUL-21	16.03.2024:12:26:14
2936	,N{vt9N8\h[4T!v	09-MAR-24	16.03.2024:12:26:14
2938	P#vG@K	28-MAR-22	16.03.2024:12:26:14
2940	D@cZ	12-APR-21	16.03.2024:12:26:14
2942	JB) fY?'w), t	15-OCT-23	16.03.2024:12:26:14
2944	ZOulaL'B}x'4s<ZPan	20-SEP-22	16.03.2024:12:26:14
2946	rBntao);EzO#PBkiqG&X@G_6FA+"O[	09-SEP-19	16.03.2024:12:26:14
2948	7	05-DEC-22	16.03.2024:12:26:14

```

ERROR at line 1:
ORA-00947: not enough values

Elapsed: 00:00:00.00

Commit complete.

Elapsed: 00:00:00.00

COUNT(1)
-----
1500

Elapsed: 00:00:00.00

```

```

GGSCI (lnx001) 1>
Program      Status      Group      Lag at Chkpt  Time Since Chkpt
MANAGER      RUNNING
EXTRACT      RUNNING     ECLMDBA1   01:06:20     00:00:04
EXTRACT      RUNNING     PCLMDBA1   00:00:00     00:00:01
REPLICAT     RUNNING     RCLMDBA1   00:00:00     00:00:01

GGSCI (lnx001) 2>
Sat Mar 16 13:33:20 EDT 2024

GGSCI (lnx001) 3>

```