

## Installing Oracle GoldenGate 21c MicroServices on Network File System

```
[root@lnx001 app]# pwd
```

```
/u01/app
```

```
[root@lnx001 app]# mkdir ogg
```

```
[root@lnx001 app]# chown oracle:oinstall ogg
```

```
[root@lnx001 app]# chmod 775 ogg
```

```
[root@lnx001 app]#
```

```
[root@lnx012 app]# mkdir ogg
```

```
[root@lnx012 app]# chown oracle:oinstall ogg
```

```
[root@lnx012 app]# chmod 775 ogg
```

```
[root@lnx012 app]#
```

```
# Specify the installation option.
# Specify ora21c for installing Oracle GoldenGate for Oracle Database 21c and low
#-----
INSTALL_OPTION=ORA21c

#-----
# Specify a location to install Oracle GoldenGate
#-----
SOFTWARE_LOCATION=/u01/app/ogg

#####
##                                     ##
## Specify details to Create inventory for Oracle installs           ##
## Required only for the first Oracle product install on a system.  ##
##                                     ##
#####

#-----
# Specify the location which holds the install inventory files.
# This is an optional parameter if installing on
# Windows based Operating System.
#-----
INVENTORY_LOCATION=/u01/app/oraInventory

#-----
# Unix group to be set for the inventory directory.
# This parameter is not applicable if installing on
# Windows based Operating System.
#-----
UNIX_GROUP_NAME=oinstall █
-- INSERT --

: bash                                     response :
```

target:/mnt/hgfs/share/ogg21c\_install/fbo\_ggs\_Linux\_x64\_Oracle\_services\_shiphome/Disk1> ./runInstaller -silent -showProgress -waitforcompletion -responseFile /mnt/hgfs/share/ogg21c\_install/fbo\_ggs\_Linux\_x64\_Oracle\_services\_shiphome/Disk1/response/oggcore.rsp

Starting Oracle Universal Installer...

Checking Temp space: must be greater than 120 MB. Actual 30087 MB Passed

Checking swap space: must be greater than 150 MB. Actual 24574 MB Passed

Preparing to launch Oracle Universal Installer from /tmp/OraInstall2024-03-23\_06-56-44PM. Please wait ...You can find the log of this install session at:

/u01/app/orainventory/logs/installActions2024-03-23\_06-56-44PM.log

Prepare in progress.

..... 10% Done.

Prepare successful.

Copy files in progress.

..... 53% Done.

..... 58% Done.

..... 64% Done.

..... 70% Done.

..... 75% Done.

..... 80% Done.

..... 85% Done.

..... 91% Done.

Copy files successful.

Link binaries in progress.

Link binaries successful.

Setup files in progress.

..... 95% Done.

..... 96% Done.

..... 97% Done.

..... 99% Done.

Setup files successful.

Setup Inventory in progress.

Setup Inventory successful.

..... 95% Done.

Successfully Setup Software.

..... 100% Done.

Finish Setup successful.

The installation of Oracle GoldenGate Services was successful.

Please check '/u01/app/orainventory/logs/silentInstall2024-03-23\_06-56-44PM.log' for more details.

target:/mnt/hgfs/share/ogg21c\_install/fbo\_ggs\_Linux\_x64\_Oracle\_services\_shiphome/Disk1>

Disk1 : runInstaller - Konsole

File Edit View Bookmarks Settings Help

```
#####  
##  
## Specify details to Create inventory for Oracle installs      ##  
## Required only for the first Oracle product install on a system. ##  
##  
#####  
  
#-----  
# Specify the location which holds the install inventory files.  
# This is an optional parameter if installing on  
# Windows based Operating System.  
#-----  
INVENTORY_LOCATION=  
  
target:/mnt/hgfs/share/ogg21c_install/fbo_ggs_Linux_x64_Oracle_services_shiphome/Disk1/response> cd ..  
target:/mnt/hgfs/share/ogg21c_install/fbo_ggs_Linux_x64_Oracle_services_shiphome/Disk1> ./runInstaller -silent -showProgress -waitforcompletion -responseFile /mnt/hgfs/share/ogg21c_install/fbo_ggs_Linux_x64_Oracle_services_shiphome/Disk1/response/oggcore.rsp  
Starting Oracle Universal Installer...  
  
Checking Temp space: must be greater than 120 MB.   Actual 30087 MB   Passed  
Checking swap space: must be greater than 150 MB.   Actual 24574 MB   Passed  
Preparing to launch Oracle Universal Installer from /tmp/OraInstall2024-03-23_06-56-44PM. Please wait ...You can find the log of this install session at :  
/u01/app/oraInventory/logs/installActions2024-03-23_06-56-44PM.log  
  
Prepare in progress.  
..... 10% Done.  
  
Prepare successful.  
  
Copy files in progress.  
.....█
```

```
DISK1 : DASH - Konsole
File Edit View Bookmarks Settings Help
Copy files in progress.
..... 53% Done.
..... 58% Done.
..... 64% Done.
..... 70% Done.
..... 75% Done.
..... 80% Done.
..... 85% Done.
..... 91% Done.

Copy files successful.

Link binaries in progress.

Link binaries successful.

Setup files in progress.
..... 95% Done.
..... 96% Done.
..... 97% Done.
..... 99% Done.

Setup files successful.

Setup Inventory in progress.

Setup Inventory successful.
..... 95% Done.
Successfully Setup Software.
..... 100% Done.

Finish Setup successful.
The installation of Oracle GoldenGate Services was successful.
Please check '/u01/app/oraInventory/logs/silentInstall2024-03-23_06-56-44PM.log' for more details.
target:/mnt/hgfs/share/ogg21c_install/fbo_ggs_linux_x64_oracle_services_shiphome/Disk1> █
```

Repeat on node 12, sane file

```
File Edit View Bookmarks Settings Help
..... 10% Done.
Prepare successful.
Copy files in progress.
..... 53% Done.
..... 58% Done.
..... 64% Done.
..... 70% Done.
..... 75% Done.
..... 80% Done.
..... 85% Done.
..... 91% Done.
Copy files successful.
Link binaries in progress.
Link binaries successful.
Setup files in progress.
..... 95% Done.
..... 96% Done.
..... 97% Done.
..... 99% Done.
Setup files successful.
Setup Inventory in progress.
Setup Inventory successful.
..... 95% Done.
Successfully Setup Software.
..... 100% Done.
Finish Setup successful.
The installation of Oracle GoldenGate Services was successful.
Please check '/u01/app/oraInventory/logs/silentInstall2024-03-23_07-07-42PM.log' for more details.
[oracle@lnx012 Disk1]$ █
```



```
-rwxr-xr-x. 1 oracle oinstall 3488 Mar 23 19:01 oggcore.rsp
[oracle@lnx012 zfs]$ pwd
/mnt/zfs
[oracle@lnx012 zfs]$ mkdir ogg_sm
[oracle@lnx012 zfs]$ mkdir ogg_dp_dc1
[oracle@lnx012 zfs]$ mkdir ogg_dp_dc2
[oracle@lnx012 zfs]$ ls -l
total 16
-rwxr-xr-x. 1 oracle oinstall 3488 Mar 23 19:01 oggcore.rsp
drwxr-xr-x. 2 oracle oinstall 4096 Mar 24 09:42 ogg_dp_dc1
drwxr-xr-x. 2 oracle oinstall 4096 Mar 24 09:42 ogg_dp_dc2
drwxr-xr-x. 2 oracle oinstall 4096 Mar 24 09:42 ogg_sm
[oracle@lnx012 zfs]$ █
```

```
[oracle@lnx001 ~]$ cd /mnt/zfs
[oracle@lnx001 zfs]$ ls -l
total 16
-rwxr-xr-x. 1 oracle oinstall 3488 Mar 23 19:01 oggcore.rsp
drwxr-xr-x. 2 oracle oinstall 4096 Mar 24 09:42 ogg_dp_dc1
drwxr-xr-x. 2 oracle oinstall 4096 Mar 24 09:42 ogg_dp_dc2
drwxr-xr-x. 2 oracle oinstall 4096 Mar 24 09:42 ogg_sm
[oracle@lnx001 zfs]$ █
```

```
[root@filer ~]# cd /goldengate
[root@filer goldengate]# ls -l
total 16
-rwxr-xr-x. 1 oracle oinstall 3488 Mar 23 19:01 oggcore.rsp
drwxr-xr-x. 2 oracle oinstall 4096 Mar 24 09:42 ogg_dp_dc1
drwxr-xr-x. 2 oracle oinstall 4096 Mar 24 09:42 ogg_dp_dc2
drwxr-xr-x. 2 oracle oinstall 4096 Mar 24 09:42 ogg_sm
[root@filer goldengate]# hostname
filer
[root@filer goldengate]# █
```

Export the correct .ENV file on both nodes:

```
target:/home/oracle> more ogg_ms_dc1.env
```

```
# .bash_profile
```

```
# User specific environment and startup programs
```

```
#PATH=$PATH:$HOME/.local/bin:$HOME/bin
```

```
#export PATH
```

```
# Oracle Settings
```

```
export TMP=/tmp
```

```
export TMPDIR=$TMP
```

```
export GG_HOME=/u01/app/ogg
```

```
export OGG_HOME=$GG_HOME
```

```
export ORACLE_HOSTNAME=localhost.localdomain

export ORACLE_UNQNAME=target

#export ORACLE_BASE=/u01/app/oracle

export ORACLE_HOME=/u01/app/ogg

#export ORA_INVENTORY=/u01/app/oraInventory

export TNS_ADMIN=/mnt/zfs/ogg_dp_dc1/etc

export ORACLE_SID=target

#export PDB_NAME=pdb1

#export DATA_DIR=/u02/data

export JAVA_HOME=$OGG_HOME/jdk

export NLS_DATE_FORMAT="YYYY-MM-DD"

export NLS_TIME_FORMAT="HH24.MI.SSXFF"

export NLS_TIME_TZ_FORMAT="HH24:MI.SSXFF"

export NLS_TIMESTAMP_FORMAT="YYYY-MM-DD-HH24.MI.SSXFF"

export NLS_TIMESTAMP_TZ_FORMAT="YYYY-MM-DD-HH24.MI.SSXFF"

export LD_LIBRARY_PATH=$GG_HOME/lib:/lib:/usr/lib:/u01/app/oracle/product/19c/dbhome_1/lib:$ORACLE_HOME

export GG=/u01/app/ogg

#export DBNAME=cdb1
```

```
export EDITOR=vi
```

```
export PS1='${ORACLE_SID}:""$PWD"> "
```

```
#umask 022
```

```
#set -o vi
```

```
export PATH=/usr/sbin:/usr/local/bin:/u01/app/ogg:$ORACLE_HOME/bin:$ORACLE_HOME/OPatch:$PATH
```

```
#export PATH=$ORACLE_HOME/bin:$PATH
```

```
#export LD_LIBRARY_PATH=$LD_LIBRARY_PATH:$ORACLE_HOME/lib:$ORACLE_HOME
```

```
export CLASSPATH=$ORACLE_HOME/jlib:$ORACLE_HOME/rdbms/jlib
```

```
echo "Local OGG ORACLE_HOME=/u01/app/ogg"
```

```
echo "Shared OGG_DEPLOYMENT_HOME=/ogg_dc1_dp"
```

```
echo "Shared OGG_SERVICE_MANAGER_HOME=/ogg_sm"
```

```
echo "Shared TNS_ADMIN=/mnt/zfs/ogg_dp_dc1/etc"
```

```
#if [ -f ~/.bashrc ]; then
```

```
#    ~/.bashrc
```

```
#fi
```

```
# User specific environment and startup programs
```

```
#PATH=$PATH:$HOME/.local/bin:$HOME/bin
```

```
#export PATH
```

```
target:/home/oracle>
```

```
export ORACLE_HOSTNAME=localhost.localdomain
export ORACLE_UNQNAME=target
#export ORACLE_BASE=/u01/app/oracle
export ORACLE_HOME=/u01/app/ogg
#export ORA_INVENTORY=/u01/app/oraInventory
export TNS_ADMIN=/mnt/zfs/ogg_dp_dcl/etc
export ORACLE_SID=target
#export PDB_NAME=pdb1
#export DATA_DIR=/u02/data
export JAVA_HOME=$OGG_HOME/jdk
export NLS_DATE_FORMAT="YYYY-MM-DD"
export NLS_TIME_FORMAT="HH24.MI.SSXFF"
export NLS_TIME_TZ_FORMAT="HH24:MI.SSXFF"
export NLS_TIMESTAMP_FORMAT="YYYY-MM-DD-HH24.MI.SSXFF"
export NLS_TIMESTAMP_TZ_FORMAT="YYYY-MM-DD-HH24.MI.SSXFF"
export LD_LIBRARY_PATH=$GG_HOME/lib:/lib:/usr/lib:/u01/app/oracle/product/19c/dbhome_1/lib:$ORACLE_HOME
export GG=/u01/app/ogg
#export DBNAME=cdb1
export EDITOR=vi
export PS1='$ORACLE_SID':"$'"$PWD'"> "
#umask 022
#set -o vi

export PATH=/usr/sbin:/usr/local/bin:/u01/app/ogg:$ORACLE_HOME/bin:$ORACLE_HOME/OPatch:$PATH
#export PATH=$ORACLE_HOME/bin:$PATH

#export LD_LIBRARY_PATH=$LD_LIBRARY_PATH:$ORACLE_HOME/lib:$ORACLE_HOME
export CLASSPATH=$ORACLE_HOME/jlib:$ORACLE_HOME/rdbms/jlib

echo "Local OGG ORACLE_HOME=/u01/app/ogg"
echo "Shared OGG_DEPLOYMENT_HOME=/ogg_dp_dcl"
echo "Shared OGG_SERVICE_MANAGER_HOME=/ogg_sm"
echo "Shared TNS_ADMIN=/mnt/zfs/ogg_dp_dcl/etc"
```

Oggca\_DEV.rsp:

```
#####  
## Copyright(c) Oracle Corporation 2016, 2021. All rights reserved.      ##  
##                                                                    ##  
## Specify values for the variables listed below to customize your      ##  
## installation.                                                         ##  
##                                                                    ##  
## Each variable is associated with a comment. The comments can help to  ##  
## populate the variables with the appropriate values.                  ##  
##                                                                    ##  
## IMPORTANT NOTE: This file should be secured to have read permission  ##  
## by the Oracle user or an administrator who owns this configuration to ##  
## protect any sensitive input values.                                   ##  
##                                                                    ##  
#####  
  
#-----  
# Do not change the following system generated value.  
#-----  
oracle.install.responseFileVersion=/oracle/install/rspfmt_oggca_response_schema_v21_1_0
```





```
# Specify the configuration option.
# Specify:
# - ADD      : for adding a new GoldenGate deployment.
# - REMOVE  : for removing an existing GoldenGate deployment.
#-----
CONFIGURATION_OPTION=ADD

#-----
# Specify the name for the new or existing deployment.
#-----
DEPLOYMENT_NAME=DC1_DP

#####
#                                     #
#           SECTION B - ADMINISTRATOR ACCOUNT           #
#                                     #
# * If creating a new Service Manager, set the Administrator Account username #
#   and password.                                     #
#                                     #
# * If reusing an existing Service Manager:           #
#   * If external Identity Provider authorization profile is enabled,       #
#     enter the external Identity Provider credentials.                       #
#   * Otherwise, enter the credentials for the Administrator Account in      #
```

```
# the existing Service Manager. #
# #
#####

#-----
# Specify the administrator account username or external Identity Provider username.
#-----
ADMINISTRATOR_USER=oggadmin

#-----
# Specify the administrator account password or external Identity Provider password.
#-----
ADMINISTRATOR_PASSWORD=

#####
# #
# SECTION B.1 - LOCAL ADMINISTRATOR ACCOUNT #
# #
# * If reusing an existing Service Manager and external Identity Provider #
# authorization profile is enabled, set the credentials for the local #
# Administrator User. #
# #
#####
```

```
# -----  
# Specify the local administrator user name.  
#-----  
LOCAL_ADMINISTRATOR_USER=  
  
#-----  
# Specify the local administrator password.  
#-----  
LOCAL_ADMINISTRATOR_PASSWORD=  
  
#####  
#                                     #  
#           SECTION C - SERVICE MANAGER           #  
#                                     #  
#####  
  
#-----  
# Specify the location for the Service Manager deployment.  
# This is only needed if the Service Manager deployment doesn't exist already.  
#-----  
SERVICEMANAGER_DEPLOYMENT_HOME=/mnt/zfs/ogg_sm
```

```
#-----  
# Specify the host for the Service Manager.  
#-----  
HOST_SERVICEMANAGER=127.0.0.1  
  
#-----  
# Specify the port for the Service Manager.  
#-----  
PORT_SERVICEMANAGER=9000  
  
#-----  
# Specify if SSL / TLS is or will be enabled for the deployment.  
# Specify true if SSL / TLS is or will be enabled, false otherwise.  
#-----  
SECURITY_ENABLED=false  
  
#-----  
# Specify if the deployment should enforce a strong password policy.  
# Specify true to enable strong password policy management.  
#-----  
STRONG_PWD_POLICY_ENABLED=false  
  
#-----  
# Specify if a new Service Manager should be created.
```

```
# Specify true if a new Service Manager should be created, false otherwise.
#
# This option is only needed when CONFIGURATION_OPTION is ADD.
#-----
CREATE_NEW_SERVICEMANAGER=true

#-----
# Specify if Service Manager should be registered as a service/daemon. This option is mutually exclusive with the 'INTEGRATE_SERVICEMANAGER_WITH_XAG' option.
# Specify true if Service Manager should be registered as a service, false otherwise.
#
# This option is only needed when CONFIGURATION_OPTION is ADD.
# This option does not apply to Windows platform.
#-----
REGISTER_SERVICEMANAGER_AS_A_SERVICE=true

#-----
# Specify if Service Manager should be integrated with XAG. This option is mutually exclusive with the 'REGISTER_SERVICEMANAGER_AS_A_SERVICE' option.
# Specify true if Service Manager should be integrated with XAG, false otherwise.
#
# This option is only needed when CONFIGURATION_OPTION is ADD.
# This option is only supported for Oracle databases.
#-----
INTEGRATE_SERVICEMANAGER_WITH_XAG=false
```

```
#-----  
# If using an existing Service Manager, specify if it is integrated with XAG.  
# Specify true if the existing Service Manager is integrated with XAG, false otherwise.  
#  
# This option is only needed when CONFIGURATION_OPTION is ADD.  
# This option is only supported for Oracle databases.  
#-----
```

```
EXISTING_SERVICEMANAGER_IS_XAG_ENABLED=false
```

```
#####  
# #  
# SECTION D - SOFTWARE HOME #  
# #  
#####
```

```
#-----  
# Specify the existing OGG software home location.  
#-----  
OGG_SOFTWARE_HOME=/u01/app/ogg
```

```
#####  
# #
```

```
# SECTION E - DEPLOYMENT DIRECTORIES #
# #
#####

#-----
# Specify the location of the new or existing OGG deployment.
#-----
OGG_DEPLOYMENT_HOME=/mnt/zfs/ogg_dp_dc1

#-----
# Specify the location for OGG_ETC_HOME.
#-----
OGG_ETC_HOME=

#-----
# Specify the location for OGG_CONF_HOME.
#-----
OGG_CONF_HOME=

#-----
# Specify the location for OGG_SSL_HOME.
#-----
OGG_SSL_HOME=
```

```
#-----  
# Specify the location for OGG_VAR_HOME.  
#-----  
OGG_VAR_HOME=  
  
#-----  
# Specify the location for OGG_DATA_HOME.  
#-----  
OGG_DATA_HOME=  
  
#####  
#                                     #  
#           SECTION F - ENVIRONMENT VARIABLES           #  
#                                     #  
#####  
  
#-----  
# Specify the value for the ORACLE_HOME environment variable.  
#-----  
ENV_ORACLE_HOME=  
  
#-----  
# Specify the value for the LD_LIBRARY_PATH environment variable.
```



```
#-----
ENV_LD_LIBRARY_PATH=${OGG_HOME}/lib/instantclient:${OGG_HOME}/lib

#-----
# Specify the value for the TNS_ADMIN environment variable.
# This environment variable is only for Oracle Databases.
#-----
ENV_TNS_ADMIN=/mnt/zfs/ogg_dp_dc1/etc

#-----
# This option is only needed when Sharding will be enabled.
# Specify the value for the STREAMS_POOL_SIZE environment variable.
# This environment variable is only for Oracle Databases.
#-----
ENV_STREAMS_POOL_SIZE=

#-----
# Specify any additional environment variables to be set in the deployment.
#-----
ENV_USER_VARS=OGG_DEPLOYMENT_HOME=/mnt/zfs/ogg_dp_dc1

#####
#                                     #
```

```
# SECTION G - SECURITY #
# This section is only needed if Security will be enabled #
# #
#####
#-----
# Specify if FIPS will be enabled.
#-----
FIPS_ENABLED=false

#-----
# Specify the Cipher Suites to be used for SSL.
#-----
CIPHER_SUITES=

#-----
# If SSL / TLS will be enabled, specify the server Wallet to be copied.
#-----
SERVER_WALLET=

#-----
# If SSL / TLS will be enabled, specify the server certificate
# to be imported.
#-----
```

```
SERVER_CERTIFICATE=
```

```
#-----
```

```
# If importing a server certificate, specify the private key file in PKCS#8 format
```

```
#-----
```

```
SERVER_CERTIFICATE_KEY_FILE=
```

```
#-----
```

```
# When providing a private key file for the server certificate,
```

```
# the passphrase must be specified
```

```
#-----
```

```
SERVER_CERTIFICATE_KEY_FILE_PWD=
```

```
#-----
```

```
# If SSL / TLS will be enabled, specify the client Wallet to be copied. (Optional)
```

```
#-----
```

```
CLIENT_WALLET=
```

```
#-----
```

```
# If SSL / TLS will be enabled, specify the client certificate
```

```
# to be imported. (Optional)
```

```
#-----
```

```
CLIENT_CERTIFICATE=
```

```
#-----  
# If importing a client certificate, specify the private key file in PKCS#8 format  
#-----  
CLIENT_CERTIFICATE_KEY_FILE=  
  
#-----  
# When providing a private key file for the client certificate,  
# the passphrase must be specified  
#-----  
CLIENT_CERTIFICATE_KEY_FILE_PWD=  
  
#####  
# #  
# SECTION H - SHARDING #  
# #  
#####  
  
#-----  
# Specify if Sharding will be enabled for this deployment.  
# Specify true if Sharding will be enabled for this deployment, false otherwise.  
#  
# This option is only supported for Oracle databases.  
#-----
```

```
SHARDING_ENABLED=false
```

```
#-----
```

```
# Specify the Sharding user.
```

```
#
```

```
# This option is only needed when Sharding will be enabled.
```

```
#-----
```

```
SHARDING_USER=
```

```
#####
```

```
# #
```

```
# SECTION I - SERVICES #
```

```
# #
```

```
#####
```

```
#-----
```

```
# Specify if the Administration server will be enabled.
```

```
# Specify true if the Administration server will be enabled, false otherwise.
```

```
#-----
```

```
ADMINISTRATION_SERVER_ENABLED=true
```

```
#-----
```

```
# Required only if the Administration server will be enabled.
```

```
# Specify the port for Administration Server.
#-----
PORT_ADMINSRVR=9005

#-----
# Specify if the Distribution server will be enabled.
# Specify true if the Distribution server will be enabled, false otherwise.
#-----
DISTRIBUTION_SERVER_ENABLED=true

#-----
# Required only if the Distribution server will be enabled.
# Specify the port for Distribution Server.
#-----
PORT_DISTSRVR=9006

#-----
# If security is disabled, specify if this non-secure deployment will be used
# to send trail data to a secure deployment.
#-----
NON_SECURE_DISTSRVR_CONNECTS_TO_SECURE_RCVRSRVR=false

#-----
# Specify if the Receiver server will be enabled.
```

```
# Specify true if the Receiver server will be enabled, false otherwise.
#-----
RECEIVER_SERVER_ENABLED=true

#-----
# Required only if the Receiver server will be enabled.
# Specify the port for Receiver Server.
#-----
PORT_RCVRSRVR=9007

#-----
# Specify if Performance Metrics server will be enabled.
# Specify true if Performance Metrics server will be enabled, false otherwise.
#-----
METRICS_SERVER_ENABLED=true

#-----
# Specify if Performance Metrics server is a critical service.
# Specify true if Performance Metrics server is a critical service, false otherwise.
#
# This is optional and only takes effect when Performance Metrics server will be enabled.
# Also, this option should only be set when the Service Manager is integrated with XAG.
# The default value is false.
#
```

```
# This option is only supported for Oracle databases.
#-----
METRICS_SERVER_IS_CRITICAL=false

#-----
# Specify the port for Performance Metrics server (TCP).
#
# This option is only needed when Performance Metrics server will be enabled.
#-----
PORT_PMSRVR=9008

#-----
# Specify the port for Performance Metrics server (UDP).
#
# This option is only needed when Performance Metrics server will be enabled.
#-----
UDP_PORT_PMSRVR=9009

#-----
# Specify the DataStore type for Performance Metrics server.
# Valid values are: BDB, LMDB
#
# This option is only needed when Performance Metrics server will be enabled.
#-----
```



```
PMSRVR_DATASTORE_TYPE=LMDB
```

```
#-----
```

```
# Specify the DataStore home location for Performance Metrics server.
```

```
# This is optional and only takes effect when Performance Metrics server will be enabled.
```

```
#-----
```

```
PMSRVR_DATASTORE_HOME=
```

```
#####
```

```
# #
```

```
# SECTION J - REPLICATION OPTIONS #
```

```
# #
```

```
#####
```

```
#-----
```

```
# Specify the value for the GoldenGate schema.
```

```
#-----
```

```
OGG_SCHEMA=GGATE
```

```
#####
```

```
# #
```

```
# SECTION K - REMOVE DEPLOYMENT OPTIONS #
```

```
# #
#####

#-----
# Specify if the deployment files should be removed from disk.
# Specify true if the deployment files should be removed, false otherwise.
#-----

REMOVE_DEPLOYMENT_FROM_DISK=
```

### Select Service Manager Options

- Service Manager Options**
- Configuration Options
- Deployment Details
- Deployment Directories
- Environment Variables
- Administrator Account
- Security Options
- Port Settings
- Replication Settings
- Summary
- Configure Deployment
- Finish

#### Service Manager Details

Existing Service Manager

Integrated with XAG

Create New Service Manager

Service Manager Deployment Home

Register Service Manager as a system service/daemon

Integrate with XAG

#### Service Manager Connection Details

Listening hostname/address

Listening port

Help

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Finish

Cancel

### Select directory for the Service Manager deployment

Location:

- ogg\_dp\_dc1
- ogg\_dp\_dc2
- ogg\_sm

File Name:

File Type:

Select

Cancel

## Select Configuration Options

[Service Manager Options](#)

**Configuration Options**

[Deployment Details](#)

Deployment Directories

Environment Variables

Administrator Account

Security Options

Port Settings

Replication Settings

Summary

Configure Deployment

Finish

### Deployment Configuration Option

- Add new GoldenGate deployment
- Remove existing GoldenGate deployment

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Cancel

### Specify Deployment Details

- Service Manager Options
- Configuration Options
- Deployment Details**
- Deployment Directories
- Environment Variables
- Administrator Account
- Security Options
- Port Settings
- Replication Settings
- Summary
- Configure Deployment
- Finish

#### Deployment Details

Deployment Name

Software Home

Enable FIPS mode

Enable Sharding

#### Select Path

Location:

- ogg\_dp\_dc1
- ogg\_dp\_dc2
- ogg\_sm

File Name:

File Type:

### Specify Deployment Directories

- Service Manager Options
- Configuration Options
- Deployment Details
- Deployment Directories**
- Environment Variables
- Administrator Account
- Security Options
- Port Settings
- Replication Settings
- Summary
- Configure Deployment
- Finish

Deployment home:

/mnt/zfs/ogg\_dp\_dc1

Browse...

Customize directories

Configuration files.

/mnt/zfs/ogg\_dp\_dc1/etc

Configuration bootstrap files, process parameter files.

/mnt/zfs/ogg\_dp\_dc1/etc/conf

Security configuration files.

/mnt/zfs/ogg\_dp\_dc1/etc/ssl

Runtime and support files.

/mnt/zfs/ogg\_dp\_dc1/var

Trail files

/mnt/zfs/ogg\_dp\_dc1/var/lib/data

#### Select Path

Location: zfs

- ogg\_dp\_dc1
- ogg\_dp\_dc2
- ogg\_sm

File Name: /mnt/zfs/ogg\_dp\_dc1

File Type: All Files

Select Cancel

Help

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### Specify Environment Variables

- [Service Manager Options](#)
- [Configuration Options](#)
- [Deployment Details](#)
- [Deployment Directories](#)
- [Environment Variables](#)**
- [Administrator Account](#)
- [Security Options](#)
- [Port Settings](#)
- [Replication Settings](#)
- [Summary](#)
- [Configure Deployment](#)
- [Finish](#)

#### Environment Variables

Name	Value
OGG_HOME	/u01/app/ogg
LD_LIBRARY_PATH	\${OGG_HOME}/lib/instantclient:\${OGG_HOME}/lib
TNS_ADMIN	/mnt/zfs/ogg_dp_dc1/etc
OGG_DEPLOYMENT_HOME	/mnt/zfs/ogg_dp_dc1

Add

Remove

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## Administrator Account Credentials

- Service Manager Options
- Configuration Options
- Deployment Details
- Deployment Directories
- Environment Variables
- Administrator Account**
- Security Options
- Port Settings
- Replication Settings
- Summary
- Configure Deployment
- Finish

### Administrator account

Username	<input type="text" value="oggadmin"/>
Password	<input type="password" value="*****"/>
Confirm Password	<input type="password" value="*****"/>

Enable strong password policy in the new deployment.

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### Specify Security Options

- Service Manager Options
- Configuration Options
- Deployment Details
- Deployment Directories
- Environment Variables
- Administrator Account
- Security Options**
- Port Settings
- Replication Settings
- Summary
- Configure Deployment
- Finish

**SSL / TLS security**

This non-secure deployment will be used to send trail data to a secure deployment

#### Server

<input checked="" type="radio"/> Use existing Wallet	<input type="text"/>	<input type="button" value="Browse"/>
<input type="radio"/> Use certificate	<input type="text"/>	<input type="button" value="Browse"/>
Private key (PKCS#8)	<input type="text"/>	<input type="button" value="Browse"/>
Pass phrase	<input type="text"/>	

#### Client

<input checked="" type="radio"/> Use existing Wallet	<input type="text"/>	<input type="button" value="Browse"/>
<input type="radio"/> Use certificate	<input type="text"/>	<input type="button" value="Browse"/>
Private key (PKCS#8)	<input type="text"/>	<input type="button" value="Browse"/>
Pass Phrase	<input type="text"/>	

## Specify Port Settings

- Service Manager Options
- Configuration Options
- Deployment Details
- Deployment Directories
- Environment Variables
- Administrator Account
- Security Options
- Port Settings**
- Replication Settings
- Summary
- Configure Deployment
- Finish

## Service Manager Details

Listening hostname/address      Listening port  
127.0.0.1      9000

## Services

<input checked="" type="checkbox"/> Enable Administration Service	Administration Service port	9005
<input checked="" type="checkbox"/> Enable Distribution Service	Distribution Service port	9006
<input checked="" type="checkbox"/> Enable Receiver Service	Receiver Service port	9007

## Monitoring

<input checked="" type="checkbox"/> Enable Monitoring	<input type="checkbox"/> XAG Critical
Metrics Service port	9008
Metrics Service UDP port (data)	9009
Metrics Service DataStore type	LMDB
Metrics Service DataStore home	<input type="text"/> <input type="button" value="Browse"/>

## Specify OGG Replication Settings

- [Service Manager Options](#)
- [Configuration Options](#)
- [Deployment Details](#)
- [Deployment Directories](#)
- [Environment Variables](#)
- [Administrator Account](#)
- [Security Options](#)
- [Port Settings](#)
- Replication Settings**
- [Summary](#)
- Configure Deployment
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### Replication Options

Default Schema

[Help](#)

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## Summary

- [Service Manager Options](#)
- [Configuration Options](#)
- [Deployment Details](#)
- [Deployment Directories](#)
- [Environment Variables](#)
- [Administrator Account](#)
- [Security Options](#)
- [Port Settings](#)
- [Replication Settings](#)
- Summary**
- Configure Deployment
- Finish

**Oracle GoldenGate Configuration Assistant**

- Service Manager Settings**
  - Create New Service Manager: true
  - Service Manager Hostname/Address: 127.0.0.1
  - Service Manager Port: 9000
  - Service Manager Home: /mnt/zfs/ogg\_sm
  - Register Service Manager as a system service/daemon: true
- Configuration Settings**
  - Deployment Configuration: ADD
  - Deployment Name: DC1\_DP
  - Software Home: /u01/app/ogg
  - Strong Password Policy Enabled: false
  - FIPS Mode Enabled: false
- Deployment Directories**
  - Deployment Home: /mnt/zfs/ogg\_dp\_dc1
- Environment Variables**
  - LD\_LIBRARY\_PATH: \${OGG\_HOME}/lib/instantclient:\${OGG\_HOME}/lib
  - TNS\_ADMIN: /mnt/zfs/ogg\_dp\_dc1/etc
  - User Environment Variables: OGG\_DEPLOYMENT\_HOME=/mnt/zfs/ogg\_dp\_dc1
- Administrator Account**
  - Username: oggadmin
- Security Options**

Save Response File...

Help

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## Summary

- [Service Manager Options](#)
- [Configuration Options](#)
- [Deployment Details](#)
- [Deployment Directories](#)
- [Environment Variables](#)
- [Administrator Account](#)
- [Security Options](#)
- [Port Settings](#)
- [Replication Settings](#)
- Summary**
- [Configure Deployment](#)
- [Finish](#)

```
----- TNS_ADMIN: /mnt/zfs/ogg_dp_dc1/etc
----- User Environment Variables: OGG_DEPLOYMENT_HOME=/mnt/zfs/ogg_dp_dc1
[-] Administrator Account
  ----- Username: oggadmin
[-] Security Options
  ----- SSL / TLS Security: false
[-] Sharding Settings
  ----- Sharding Enabled: false
[-] Port Settings
  ----- Enable Administration Service: true
  ----- Administration Service Port: 9005
  ----- Enable Distribution Service: true
  ----- Distribution Service Port: 9006
  ----- Enable Receiver Service: true
  ----- Receiver Service Port: 9007
  ----- Enable Monitoring: true
  ----- Metrics Service port: 9008
  ----- Metrics Service UDP port (data): 9009
  ----- Critical Service: false
  ----- Metrics Service DataStore type: LMDB
[-] Replication Settings
  ----- Replication Schema: GGATE
```

Save Response File...

Help

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### Summary

- [Service Manager Options](#)
- [Configuration Options](#)
- [Deployment Details](#)
- [Deployment Directories](#)
- [Environment Variables](#)
- [Administrator Account](#)
- [Security Options](#)
- [Port Settings](#)
- [Replication Settings](#)
- Summary**
- Configure Deployment
- Finish

TNS\_ADMIN: /mnt/zfs/ogg\_dp\_dc1/etc  
User Environment Variables: OGG\_DEPLOYMENT\_HOME=/mnt/zfs/ogg\_dp\_dc1

- Administrator Account
  - Username: oggadmin
- Security
  - SSL /
- Sharding
  - Shard
- Port Settings
  - Enable
  - Admin
  - Enable
  - Distrib
  - Enable
  - Receiv
  - Enable
  - Metric
  - Metric
  - Critica
  - Metric
- Replicati
  - Replication Schema: GGATE

#### Save Response File

Location: share

- /
- ogg21d
- mnt
- hgfs
- share

File Name: oggca\_DEV.rsp  
File Type: \*.rsp

Save Cancel

Save Response File...

Help

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```
cr-xr-x. 1 oracle oinstall 40 Jun 5 2020 Document
cr-xr-x. 1 oracle oinstall 332523 Jun 5 2020 OGG WINU
r--r--. 1 oracle oinstall 709 Jun 5 2020 gg.old
r--r--. 1 oracle oinstall 3036843 Jun 5 2020 Firefox
r--r--. 1 oracle oinstall 0 Mar 24 2023 authoriz
cr-xr-x. 1 oracle oinstall 18 May 1 2023 aser6139
crwxrwx. 1 oracle oinstall 30 Aug 17 2023 Cox
cr-xr-x. 1 oracle oinstall 676 Oct 5 04:31 ansible-
```

### Configure Deployment

- Service Manager Options
- Configuration Options

**Progress**

86%

Log of this session available at: /u01/app/oralInventory/logs/OGGCAConfigActions2024-03-24\_10-57-07AM

**Status**

✔ Create Service Manager	Succeeded
✔ Verify connection to Service Manager	Succeeded
✔ Create deployment directories	Succeeded
✔ Import users	Succeeded
✔ Register deployment	Succeeded
✔ Start services	Succeeded
➔ Register Service Manager as a system service/daemon	In Progress

#### Register Service Manager as a system service/daemon

In order to register Service Manager as a system service/daemon, the following script needs to be executed as the "root" user.

Script(s) to execute

```
/mnt/zfs/ogg_sm/bin/registerServiceManager.sh
```

- To execute the configuration script:
1. Open a terminal window
  2. Login as "root"
  3. Run the script
  4. Return to this window and click "OK" to continue

Details Revert All Revert Retry Skip

OK

Help

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File Edit View Bookmarks Settings Help

```
[oracle@lnx001 ogg]$ su -
```

```
Password:
```

```
Last login: Sun Mar 24 10:51:01 EDT 2024 on pts/3
```

```
[root@lnx001 ~]# /mnt/zfs/ogg_sm/bin/registerServiceManager.sh
```

```
Copyright (c) 2017, 2020, Oracle and/or its affiliates. All rights reserved.
```

```
-----  
Oracle GoldenGate Install As Service Script  
-----
```

```
OGG_HOME=/u01/app/ogg
```

```
OGG_CONF_HOME=/mnt/zfs/ogg_sm/etc/conf
```

```
OGG_VAR_HOME=/mnt/zfs/ogg_sm/var
```

```
OGG_USER=oracle
```

```
Running OracleGoldenGateInstall.sh...
```

```
[root@lnx001 ~]# █
```





Click  
opti  
mor  
New

## Finish

- Service Manager Options
- Configuration Options
- Deployment Details
- Deployment Directories
- Environment Variables
- Administrator Account
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- Port Settings
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- Summary
- Configure Deployment
- Finish**

The configuration of The Oracle GoldenGate Deployment was successful.

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Close

← → ↻ 🏠 Not secure 192.168.1.104:9000 🔍 ☆

🌐 AT&T 🌐 MAIN ZONE 🌐 WorkSpace 🌐 Service Mgr. Sign In 🌐 Set Up Bidirectional... 🌐 Document 751068.1 🌐 oracle-db-examples... 🌐 Repairing SQL Perfo... 🌐 Document 1359841.1 🌐 dbms\_spm.evolve\_s... 🌐 Document 271196.1 🌐 ora-presentations/s...

☰ **ORACLE** Oracle GoldenGate Service Manager 21.3.0.0.0 (ServiceManager)

Services 🟢 Running 4 🔴 Abended 0 🟡 Other 0

Deployment: All ▾

Deployment	Service	Port	Status	Action	Details
DC1_DP	Administration Service	9005 ?	Running	Action ▾	⚙️
DC1_DP	Distribution Service	9006 ?	Running	Action ▾	⚙️
DC1_DP	Performance Metrics Service	9008 ?	Running	Action ▾	⚙️
DC1_DP	Receiver Service	9007 ?	Running	Action ▾	⚙️

Deployments

Deployment	GoldenGate Home	Status	Running Services	Not Running Services	Action
DC1_DP	/u01/app/ogg	Running	4	0	Action ▾
ServiceManager	/u01/app/ogg	Running	0	0	Action ▾

## Shutdown node 2

🖥️ **My Computer**

- 📁 Ansible COntrl Node Oracle Database 19.4 for Linux ★
- 📁 19cDB\_Ansible\_Host\_001 ★
- 📁 Inx003 of 19cDB\_Ansible\_Host\_001
- 📁 Inx012 21cDB\_Ansible\_Host\_012



## This site can't be reached

**192.168.1.199** took too long to respond.

Try:

- Checking the connection
- [Checking the proxy and the firewall](#)
- [Running Windows Network Diagnostics](#)

ERR\_CONNECTION\_TIMED\_OUT

Reload

Details

```
[root@lnx012 ogg]# hostname
lnx012
[root@lnx012 ogg]# whoami
root
[root@lnx012 ogg]# /mnt/zfs/ogg_sm/bin/registerServiceManager.sh
Copyright (c) 2017, 2020, Oracle and/or its affiliates. All rights reserved.
-----
      Oracle GoldenGate Install As Service Script
-----
OGG_HOME=/u01/app/ogg
OGG_CONF_HOME=/mnt/zfs/ogg_sm/etc/conf
OGG_VAR_HOME=/mnt/zfs/ogg_sm/var
OGG_USER=oracle
Running OracleGoldenGateInstall.sh...
Created symlink from /etc/systemd/system/multi-user.target.wants/OracleGoldenGate.service to /etc/systemd/system/OracleGoldenGate.service.
[root@lnx012 ogg]# █
```

Not secure 192.168.1.79:9000/?root=account

NE Workspace Service Mgr. Sign In Set Up Bidirectional... Document 751068.1 oracle-db-examples... Repairing SQL Perfo... Document 1359841.1 dbms\_spm.evolve\_s...



## Oracle GoldenGate Service Manager

oggadmin

.....

Sign In

ORACLE Oracle GoldenGate Service Manager 21.3.0.0.0 (ServiceManager)

Services Running 4 Abended 0 Other 0

Deployment: All

Deployment	Service	Port	Status	Action
DC1_DP	Administration Service	9005	Running	Action
DC1_DP	Distribution Service	9006	Running	Action
DC1_DP	Performance Metrics Service	9008	Running	Action
DC1_DP	Receiver Service	9007	Running	Action

Save password?

Username: oggadmin




Password: oracle

Save Never

You can use saved passwords on any device. They're saved to Google Password Manager for grigorianvadi@gmail.com.

Deployments

Deployment	GoldenGate Home	Status	Running Services	Not Running Services	Action
DC1_DP	/u01/app/ogg	Running	4	0	Action
ServiceManager	/u01/app/ogg	Running	0	0	Action

Services  Running 4  Abended 0  Other 0

Deployment:

Deployment	
DC1_DP	Administration Service
DC1 DP	Distribution Service

```

[root@lnx001 ~]# mkdir /mnt/zfs
[root@lnx001 ~]# mount -t nfs 192.168.7.11:/alpha /mnt/zfs
[root@lnx001 ~]# df

```

Filesystem	1K-blocks	Used	Available	Use%	Mounted on
devtmpfs	4059408	0	4059408	0%	/dev
tmpfs	4078352	0	4078352	0%	/dev/shm
tmpfs	4078352	9656	4068696	1%	/run
tmpfs	4078352	0	4078352	0%	/sys/fs/cgroup
/dev/sda2	101196800	75945048	22092536	78%	/
/dev/sdd1	123722304	48871232	68543284	42%	/u01
/dev/sdcl	32895760	60036	31141672	1%	/tmp
/dev/sdf	51475068	7243144	41610484	15%	/goldengate
/dev/sdal	510636	199192	311444	40%	/boot
vmhgfs-fuse	11718883324	10974984320	743899004	94%	/mnt/hgfs
tmpfs	815672	48	815624	1%	/run/user/54321
192.168.7.11:/alpha	101196800	35785728	61913088	37%	/mnt/zfs

```

[root@lnx001 ~]#

```

Start page X | orade@filer:~ X | root@lnx001:~ X

```

#
# /etc/fstab
# Created by anaconda on Wed Dec 9 13:12:16 2015
#
# Accessible filesystems, by reference, are maintained under '/dev/disk'
# See man pages fstab(5), findfs(8), mount(8) and/or blkid(8) for more info
#
UUID=074c366e-59e0-45ff-9803-afce4e412caf / btrfs defaults 0 0
/dev/sdal /boot xfs defaults 0 0
LABEL=/goldengate /goldengate ext3 defaults 1 2
UUID=dd5f20dc-6ecf-465b-af8b-07516b9f9a85 swap swap defaults 0 0
UUID=22425b9b-f5dd-4e9c-931c-69ea326c7eda /tmp ext4 defaults 0 0
UUID=9157b096-0afd-4b5c-9f70-643490f70f4c /u01 ext4 defaults 0 0
UUID=62bad1bd-17dc-43fc-8add-4bc001f11267 /oradata ext4 defaults 0 0
192.168.7.11:/alpha /mnt/zfs nfs defaults 0 0

```



```

[root@lnx012 ~]# rpm -qa | grep nfs
libnfsidmap-0.25-19.el7.x86_64
nfs-utils-1.3.0-0.61.0.1.el7.x86_64
[root@lnx012 ~]# mkdir /mnt/zfs
[root@lnx012 ~]# mount -t nfs 192.168.7.11:/alpha /mnt/zfs
[root@lnx012 ~]# df

```

Filesystem	1K-blocks	Used	Available	Use%	Mounted on
devtmpfs	4059408	0	4059408	0%	/dev
tmpfs	4078352	0	4078352	0%	/dev/shm
tmpfs	4078352	9568	4068784	1%	/run
tmpfs	4078352	0	4078352	0%	/sys/fs/cgroup
/dev/sda2	101196800	42530112	55233392	44%	/
/dev/sdd1	123722304	85984	117328532	1%	/u01
/dev/sdc1	32895760	49444	31152264	1%	/tmp
/dev/sdf	51475068	3858584	44995044	8%	/goldengate
/dev/sda1	510636	199200	311436	40%	/boot
vmhgfs-fuse	11718883324	10975200376	743682948	94%	/mnt/hgfs
tmpfs	815672	10	815662	1%	/run/user/54321
192.168.7.11:/alpha	101196800	35796480	61902592	37%	/mnt/zfs

```

[root@lnx012 ~]# █

```

```

[oracle@lnx001 ~]$ cd /mnt/zfs
[oracle@lnx001 zfs]$ ls -l
total 0
drwxrwxr-x. 1 oracle oinstall 6 Mar 23 12:44 ogg
[oracle@lnx001 zfs]$ cd ogg
[oracle@lnx001 ogg]$ ls -l
total 0
drwxr-xr-x. 1 root root 0 Mar 23 12:44 dcl
[oracle@lnx001 ogg]$ hostname
lnx001

```