Oracle GoldenGate 12c Database Replication

Introduction to Oracle Golden Gate

- Welcome to the Principal Oracle GoldenGate12c course
- Overview of Oracle GoldenGate12c
- Logical replication vs Physical replication

Preparing your environment

- Oracle VirtualBox and Virtual Machines
- OraLinux Oracle12c with GoldenGate
- Other possible installation
- Download and Install Oracle VirtualVBox
- Set up the virtual network
- Download the VM template and generate two virtual machines
- Set up host connectivity
- Set up the /etc/hosts file
- Set up database connectivity
- Install the Oracle GoldenGate software
- Setup Oracle GoldenGate environment
- Database setup for Oracle GoldenGate12c

Oracle GoldenGate infrastructure and other things you must know before continue

- The importance of SCN
- Understanding database logging
- Set up the database logging
- Restore database at a point in time (SCN)
- Some notes about Oracle12c multitenant architecture

Table replication to the same database

- Create the manager process
- Methods of data capture: classic and integrated
- Create the extract process - The ADD command
- Create the extract process
- Replicate data in the same database
- Create the replicat process
- Monitoring the replication

Managing the Oracle GoldenGate12c command line interface

- Some useful commands
- The GLOBALS parameter file
- Error checking

Schema replication to a remote database

- Modify extract process on source server
- Modify the extract process ext1
- Consistent schema copy based on a given SCN
- Duplicate HR schema at a consistent SCN using Export and Import Data Pump utilit
- Create the pump process based on SCN number
- Create the extract process for PUMP
- Create the replicat process on the target server
- Create the replicat process in the remote database
- Some considerations about sequences and triggers

Extra: Software, official documentation and other resources

- List of software used in the course.
- Other VM's and additional products
- Official documentation of Oracle GoldenGate12c
- Basic troubleshooting