

Create Standby Database Using Oracle 10g Enterprise Manager Grid Control

By vongates

Instance Type	Primary Instance	Physical Standby 1	Physical Standby 2	
OS & Version	HP-UX 11i V1	HP-UX 11i V1	HP-UX 11i V1	
Oracle Home Directory	/opt/oracle/product/10g/	/opt/oracle/product/10g/	/opt/oracle/product/10g/	
Oracle Data Directory	/oradata/.../ora10g/	/oradata/.../ora10d/	/oradata/.../ora10s/	
Database Name	Ora10g	Ora10g	Ora10g	
DB Unique Name	Ora10g	Ora10d	Ora10s	
DB Instance Name	Ora10g	Ora10d	Ora10s	
Service Name	Ora10g	Ora10d	Ora10s	
Host Name	Szvsx017	Szvsx017	Szvsx017	

OS and Version: HP-UX 11i V1 64Bit
Oracle EM Version: Oracle 10g R2 Enterprise Manager Grid Control
Oracle DB Version: Oracle Database 10g Enterprise Edition Release 10.2.0.1.0
Oracle Database Name : ora10g

Create a new **Physical Standby Database** on single node step by step

→01.Open OEM Grid Control →Targets→Database→ Database Instance [ora10g]

The screenshot shows the Oracle Enterprise Manager 10g console interface. The browser address bar displays the URL: `https://szvsx019:1159/em/console/targets?ctxType=Databases`. The page title is "ORACLE Enterprise Manager 10g Grid Control". The navigation menu includes "Home", "Targets", "Deployments", "Alerts", "Policies", "Jobs", and "Reports". The "Databases" section is active, showing a table of database instances. The "ora10g" instance is selected, indicated by a red circle around the selection icon and the instance name in the table. The table columns include Name, Type, Status, Alerts, Policy Violations, Compliance Score (%), Version, Sessions CPU, Sessions I/O, Sessions Other, and Instance CPU (%). The "ora10g" instance is a "Database Instance: Primary" with a status of "OK", 0 alerts, 7 policy violations, a 95% compliance score, and version 10.2.0.1.0.

Select	Name	Type	Status	Alerts	Policy Violations	Compliance Score (%)	Version	Sessions CPU	Sessions I/O	Sessions Other	Instance CPU (%)
<input checked="" type="radio"/>	ora10g	Database Instance: Primary	OK	0	7	95	10.2.0.1.0	0	0	0	.08

→02. Database Instance: ora10g→Maintenance→Data Guard→Setup and Manage

Oracle Enterprise Manager (SYSMAN) - Database Instance: ora10g - Qimonda

Address: https://szvsx019:1159/em/console/database/instance/sitemap?event=doLoad&target=ora10g&type=oracle_database&pageNun

ORACLE Enterprise Manager 10g

Grid Control

Home Targets Deployments Alerts Policies Jobs Reports

Hosts | Databases | Application Servers | Web Applications | Services | Systems | Groups | All Targets

Logged in As SYS

Database Instance: ora10g

Home Performance Administration Maintenance

The Administration tab displays links that allow you to administer database objects and initiate database operations inside an Oracle database. The Maintenance tab displays links that provide functions that control the flow of data between or outside Oracle databases.

High Availability

- Backup/Recovery**
 - [Schedule Backup](#)
 - [Perform Recovery](#)
 - [Manage Current Backups](#)
 - [Manage Restore Points](#)
- Backup/Recovery Settings**
 - [Backup Settings](#)
 - [Recovery Settings](#)
 - [Recovery Catalog Settings](#)
- Data Guard**
 - [Setup and Manage](#)

→03. Add Standby Database

Database Instance:ora10g > Add Standby Database

Oracle Enterprise Manager (SYSMAN) - Data Guard - Qimonda

Address: https://szvsx019:1159/em/console/database/dataguard?redirect=true&event=doLoad&target=ora10g&type=oracle_database

ORACLE Enterprise Manager 10g

Grid Control

Home Targets Deployments Alerts Policies Jobs Reports

Hosts | Databases | Application Servers | Web Applications | Services | Systems | Groups | All Targets

Database Instance: ora10g >

Logged in As SYS

Data Guard

Page Refreshed May 10, 2007 10:28:08 AM GMT+08:00

View Data Real Time: Manual Refresh

Overview

- Data Guard Status: **Normal**
- Protection Mode: [Maximum Performance](#)
- Fast-Start Failover: [Disabled](#)

Primary Database

- Name: [ora10g](#)
- Host: [SZVSX017](#)
- Data Guard Status: **Normal**
- Current Log: [23](#)
- Properties: [Edit](#)

Standby Progress Summary

The transport lag is the time difference between the primary last update and the standby last received redo. The apply lag is the time difference between the primary last update and the standby last applied redo.

No data is currently available.

Standby Databases

[Edit](#) [Remove](#) [Switchover](#) [Failover](#)

Select	Name	Host	Data Guard Status	Role	Last Received Log	Last Applied Log	Estimated Failover Time
--------	------	------	-------------------	------	-------------------	------------------	-------------------------

Add Standby Database

Performance

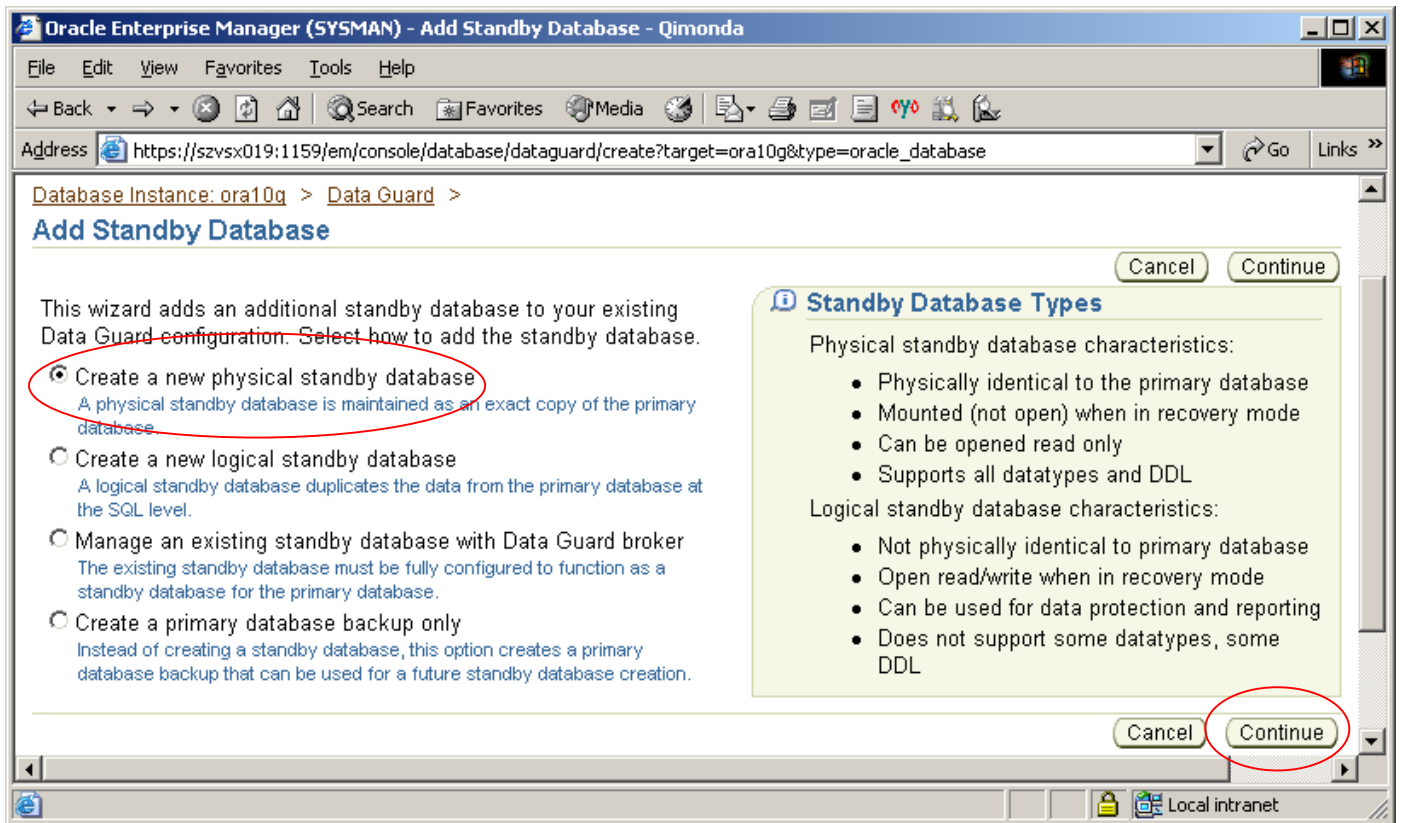
- [Performance Overview](#)
- [Log File Details](#)

Additional Administration

- [Verify Configuration](#)
- [Remove Data Guard Configuration](#)

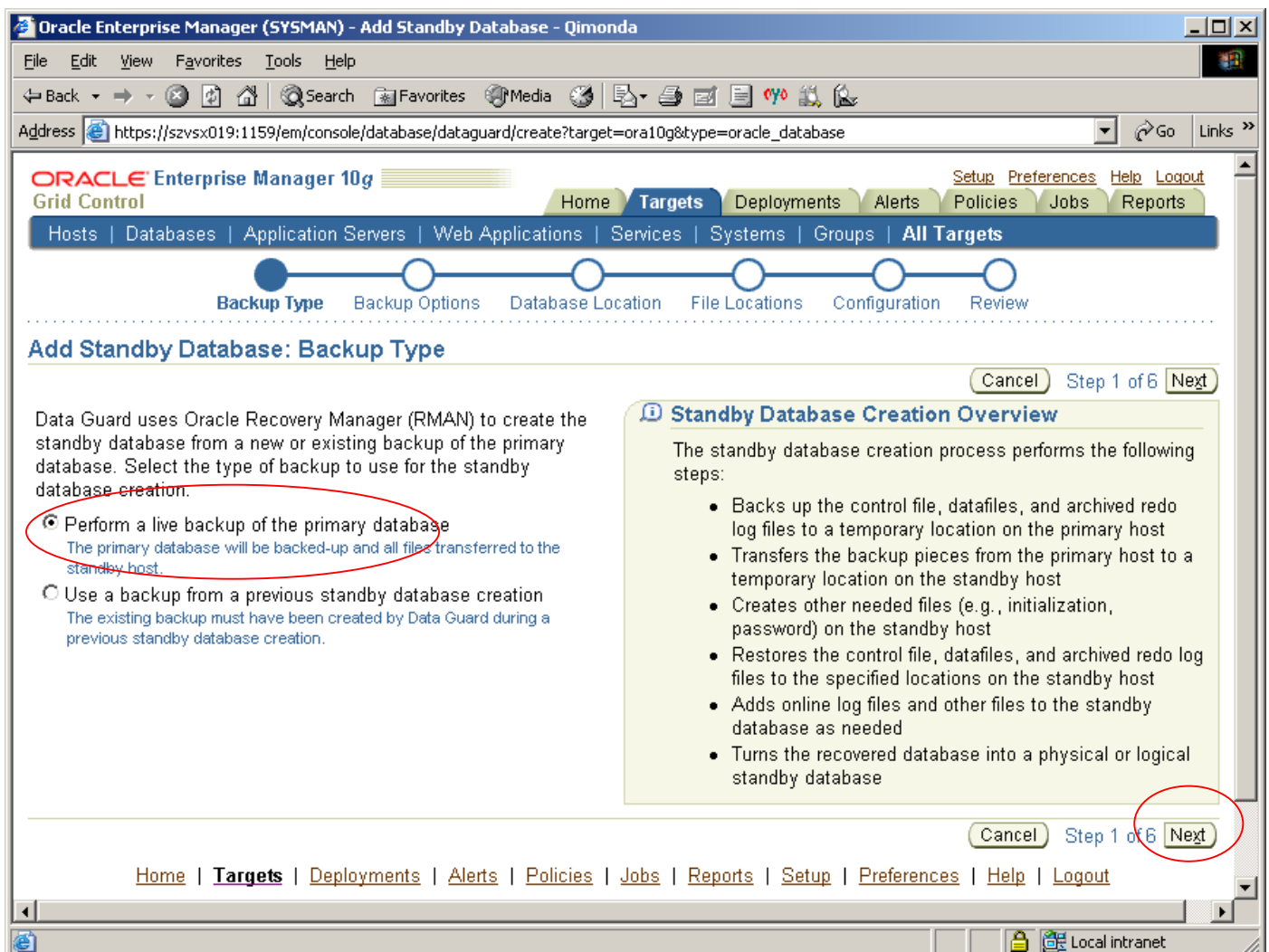
→04. Select Standby database type:

→ Create a new physical standby database → Continue



→05. [Step 1 of 6] Select Backup Type:

→ Perform a live backup of the primary database → Next



→06 [Step 2 of 6] Fill in Backup Options: →Next

Backup Files Directory:

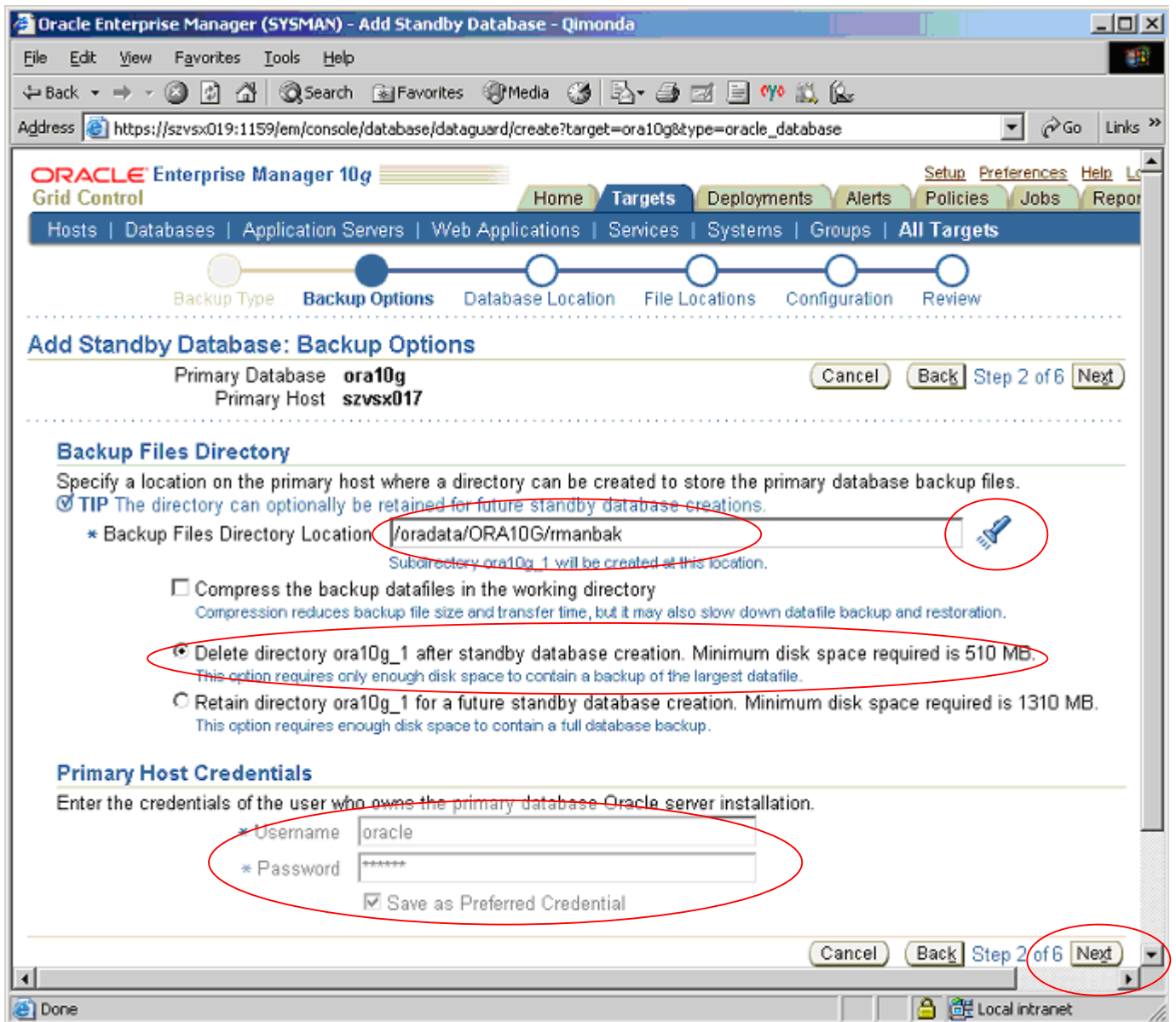
Backup files Directory Location: /oradata/ORA10G/rmanbak

Primary Host Credentials:

Username: oracle

Password: password

Save as Preferred Credential



→07. [Step 3 of 6] Confirm Standby database Location →Next

Standby Database:

Instance Name: **ora10d**

Database Storage: **File System** (or Raw Device)

Standby Host Credentials (Standby machine OS account and password)

Username: **oracle**

Password: **password**

Standby Databases Location (select or search standby machine for standby database)

Example: the same to primary machine (szvsx017)

Oracle Enterprise Manager (SYSMAN) - Add Standby Database - Qimonda

Address: https://szvsx019:1159/em/console/database/dataguard/create?target=ora10g&type=oracle_database

ORACLE Enterprise Manager 10g
Grid Control

Home Targets Deployments Alerts Policies Jobs Reports

Hosts | Databases | Application Servers | Web Applications | Services | Systems | Groups | All Targets

Backup Type Backup Options Database Location File Locations Configuration Review

Add Standby Database: Database Location

Primary Database **ora10g** Cancel Back Step 3 of 6 Next
 Primary Host **szvsx017**

Standby Database

* Instance Name
The instance name (also referred to as the SID) must be unique on the standby host.

Database Storage
Choose whether the database files will be put on a conventional file system or on raw devices.

Standby Host Credentials

Enter the credentials of the user who owns the Oracle installation in the Oracle Home selected below.

* Username
 * Password

Standby Database Location

The standby database can be created in any Oracle Home that has been discovered by Enterprise Manager. Only Oracle Homes on hosts that match the operating system of the primary host are shown. Select the Oracle Home in which to create the standby database.

Search For Host Go

Select	Host	Oracle Home	Oracle Server Version	Operating System	Operating System Version
<input checked="" type="radio"/>	szvsx017.	/opt/oracle/product/10g	10.2.0.1.0	HP-UX	B.11.11

Cancel Back Step 3 of 6 Next

→08 [Step 4 of 6] Confirm the Standby database File Location

Standby Database File Locations→Customize

Customize Storage :[/oradata/ORA10G/ora10d]

Oracle Enterprise Manager (SYSMAN) - Add Standby Database - Qimonda

Address: https://szvsx019:1159/em/console/database/dataguard/create?target=ora10g&type=oracle_database

ORACLE Enterprise Manager 10g
Grid Control

Home Targets Deployments Alerts Policies Jobs Reports

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Backup Type Backup Options Database Location File Locations Configuration Review

Add Standby Database: File Locations

Primary Database **ora10g** Cancel Back Step 4 of 6 Next
 Primary Host **szvsx017**
 Standby Host **szvsx017**

Standby Database File Locations

Since the primary and standby databases are on the same host, the standby database files will be placed into an Oracle Optimal Flexible Architecture (OFA) directory structure. Click 'Customize' to modify individual file names. Customize

Total Disk Space Required **1310 MB**

Network Configuration File Location

Data Guard will add configuration information for the standby database to the network configuration files (listener.ora and tnsnames.ora) in the specified directory on the standby host.

* Configuration File Location

Cancel Back Step 4 of 6 Next

Fill in all files Location to [/oradata/ORA10G/ora10d]

Oracle Enterprise Manager (SYSMAN) - Add Standby Database - Qimonda

Address: https://szvsx019:1159/em/console/database/dataguard/create?target=ora10g&type=oracle_database

Backup Type Backup Options Database Location **File Locations** Configuration Review

File Locations: Customize Tablespace Storage

Primary Database: ora10g
Primary Host: szvsx017
Standby Host: szvsx017

Override database file locations or edit file names and locations below.

Datarfiles
Set location for all files: /oradata/ORA10G/ora10d

Primary Database Name	Tablespace	Status	Size (KB)	Standby Database Name
/oradata/ORA10G/ora10g/system01.dbf	SYSTEM	SYSTEM	512000	/oradata/ORA10G/ora10d/system01.dbf
/oradata/ORA10G/ora10g/undotbs01.dbf	UNDOTBS1	ONLINE	204800	/oradata/ORA10G/ora10d/undotbs01.dbf
/oradata/ORA10G/ora10g/sysaux01.dbf	SYS_AUX	ONLINE	378880	/oradata/ORA10G/ora10d/sysaux01.dbf
/oradata/ORA10G/ora10g/users01.dbf	USERS	ONLINE	5120	/oradata/ORA10G/ora10d/users01.dbf
/oradata/ORA10G/ora10g/osiobuff01.dbf	OSIOBUFF	ONLINE	20480	/oradata/ORA10G/ora10d/osiobuff01.dbf

Tempfiles
Set location for all files: /oradata/ORA10G/ora10d

Primary Database Name	Tablespace	Status	Size (KB)	Standby Database Name
/oradata/ORA10G/ora10g/temp01.dbf	TEMP	ONLINE	27648	/oradata/ORA10G/ora10d/temp01.dbf

Log Files
Set location for all files: /oradata/ORA10G/ora10d

Group	Primary Database Member	Size (KB)	Standby Database Member
1	/oradata/ORA10G/ora10g/redo01.log	51200	/oradata/ORA10G/ora10d/redo01.log
2	/oradata/ORA10G/ora10g/redo02.log	51200	/oradata/ORA10G/ora10d/redo02.log

Locations Customize result: [The location customization has been successfully applied.]

Oracle Enterprise Manager 10g

Grid Control

Home Targets Deployments Alerts Setup Preferences Help Logout Policies Jobs Reports

Hosts | Databases | Application Servers | Web Applications | Services | Systems | Groups | All Targets

Backup Type Backup Options Database Location **File Locations** Configuration Review

Add Standby Database: File Locations

Primary Database: ora10g
Primary Host: szvsx017
Standby Host: szvsx017

Standby Database File Locations

Since the primary and standby databases are on the same host, the standby database files will be placed into an Oracle Optimal Flexible Architecture (OFA) directory structure. Click 'Customize' to modify individual file names.

Total Disk Space Required: 1310 MB

The location customization has been successfully applied.

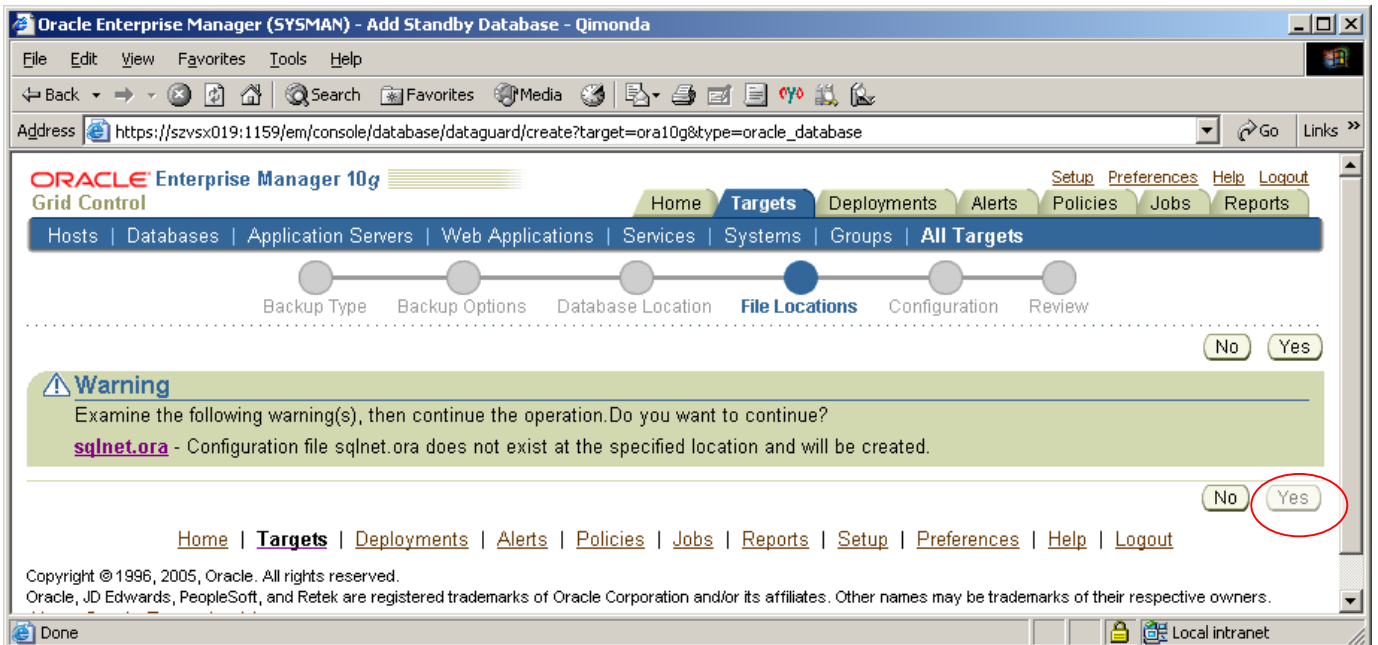
Network Configuration File Location

Data Guard will add configuration information for the standby database to the network configuration files (listener.ora and tnsnames.ora) in the specified directory on the standby host.

Configuration File Location: /opt/oracle/product/10g/network/admin

Step 4 of 6

Warning Report: The file sqlnet.ora does not exist at the specified location → Yes



→09. [Step 5 of 6] Configuration→Next

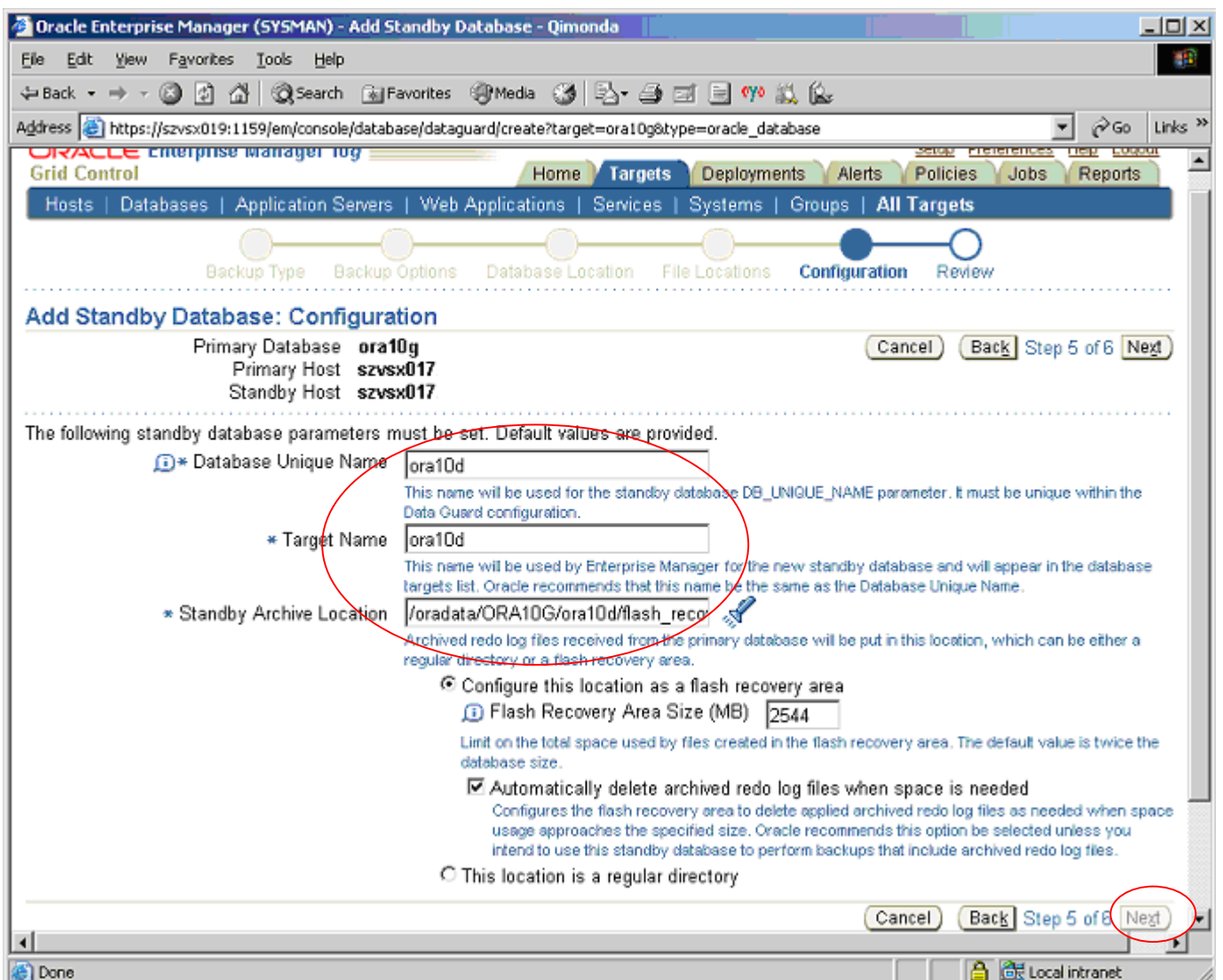
Fill in Standby database parameter

DB Unique name: ora10d

Target name: ora10d

Standby Arch Location: /oradata/ORA10G/ora10d/flash_recover_area

Others: default



→10. Add Standby database :Review→Finish

List Primary and Standby database all related configuration informations

Add Standby Database: Review

The standby database creation process runs as an Enterprise Manager job. Standby database **ora10d** will be created by job **DataGuardCreateStandby1** and added to the Data Guard configuration.

Buttons: **Step 6 of 6**

Primary Database		Standby Database	
Target Name	ora10g	Target Name	ora10d
Database Name	ora10g	Database Name	ora10g
Instance Name	ora10g	Instance Name	ora10d
Database Version	10.2.0.1.0	Oracle Server Version	10.2.0.1.0
Oracle Home	/opt/oracle/product/10g	Oracle Home	/opt/oracle/product/10g
Host	szvsx017.	Host	szvsx017
Operating System	HP-UX B.11.11	Operating System	HP-UX B.11.11
Host Username	oracle	Host Username	oracle
Backup Files		Backup Type	New backup
Directory Location	/oradata/ORA10G/rmanbak	Database Unique Name	ora10d
Retain Backup	No	Standby Type	Physical Standby
Directory		Flash Recovery Area	/oradata/ORA10G/ora10d/flash_recovery_area
Compress Backup Files	No	Flash Recovery Area Size (MB)	2544M
		Automatically Delete Archived Redo Log Files	Yes

▼ Standby Database Storage

Standby database storage detail information: (data files, temp files, log files, Control files)

▼ Standby Database Storage

Datfiles

Primary Database Name	Tablespace	Status	Size (KB)	Standby Database Name
/oradata/ORA10G/ora10g/system01.dbf	SYSTEM	SYSTEM	512000	/oradata/ORA10G/ora10d/system01.dbf
/oradata/ORA10G/ora10g/undotbs01.dbf	UNDOTBS1	ONLINE	204800	/oradata/ORA10G/ora10d/undotbs01.dbf
/oradata/ORA10G/ora10g/sysaux01.dbf	SYSAux	ONLINE	378880	/oradata/ORA10G/ora10d/sysaux01.dbf
/oradata/ORA10G/ora10g/users01.dbf	USERS	ONLINE	5120	/oradata/ORA10G/ora10d/users01.dbf
/oradata/ORA10G/ora10g/osiobuff01.dbf	OSIOBUFF	ONLINE	20480	/oradata/ORA10G/ora10d/osiobuff01.dbf

Tempfiles

Primary Database Name	Tablespace	Status	Size (KB)	Standby Database Name
/oradata/ORA10G/ora10g/temp01.dbf	TEMP	ONLINE	27648	/oradata/ORA10G/ora10d/temp01.dbf

Log Files

Group	Primary Database Member	Size (KB)	Standby Database Member
1	/oradata/ORA10G/ora10g/redo01.log	51200	/oradata/ORA10G/ora10d/redo01.log
2	/oradata/ORA10G/ora10g/redo02.log	51200	/oradata/ORA10G/ora10d/redo02.log
3	/oradata/ORA10G/ora10g/redo03.log	51200	/oradata/ORA10G/ora10d/redo03.log
4	/oradata/ORA10G/ora10g/redo04.log	51200	/oradata/ORA10G/ora10d/redo04.log
5	/oradata/ORA10G/ora10g/redo05.log	51200	/oradata/ORA10G/ora10d/redo05.log
6	/oradata/ORA10G/ora10g/redo06.log	51200	/oradata/ORA10G/ora10d/redo06.log
7	/oradata/ORA10G/ora10g/redo07.log	51200	/oradata/ORA10G/ora10d/redo07.log

Control Files

Primary Database Name	Standby Database Name
/oradata/ORA10G/ora10g/control01.ctl	/oradata/ORA10G/ora10d/control01.ctl
/oradata/ORA10G/ora10g/control02.ctl	/oradata/ORA10G/ora10d/control02.ctl
/oradata/ORA10G/ora10g/control03.ctl	/oradata/ORA10G/ora10d/control03.ctl

Directory Objects

Directory Name	Primary Directory Path	Standby Directory Path
ADMIN_DIR	/opt/oracle/product/10g/md/admin	/opt/oracle/product/10g/md/admin
DATA_PUMP_DIR	/opt/oracle/product/10g/rdbms/log/	/opt/oracle/product/10g/rdbms/log/
WORK_DIR	/opt/oracle/product/10g/work	/opt/oracle/product/10g/work

External Files

→ 11. The standby database creation process runs as an enterprise manager job

ORACLE Enterprise Manager 10g
Grid Control

Home | Targets | Deployments | Alerts | Policies | Jobs | Reports

Hosts | Databases | Application Servers | Web Applications | Services | Systems | Groups | All Targets

Processing: Add Standby Database

The standby database creation process runs as an Enterprise Manager job.

The job will be submitted after completion of several preliminary steps. After all steps are complete, you will be returned to the Data Guard overview page.

- ✓ Creating Data Guard configuration
- Preparing standby database creation job
- Submitting standby database creation job
- Adding standby database target

⚠ The process can be cancelled prior to submission of the standby database creation job.

Cancel

Home | Targets | Deployments | Alerts | Policies | Jobs | Reports | Setup | Preferences | Help | Logout

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Oracle Enterprise Manager (SYSMAN) - Processing: Add Standby Database - Qimonda

File Edit View Favorites Tools Help

Address: https://szvsx019:1159/em/console/database/dataguard/create?target=ora10g&type=oracle_database

ORACLE Enterprise Manager 10g
Grid Control

Home | Targets | Deployments | Alerts | Policies | Jobs | Reports

Hosts | Databases | Application Servers | Web Applications | Services | Systems | Groups | All Targets

Processing: Add Standby Database

The standby database creation process runs as an Enterprise Manager job.

The job will be submitted after completion of several preliminary steps. After all steps are complete, you will be returned to the Data Guard overview page.

- ✓ Creating Data Guard configuration
- ✓ Preparing standby database creation job
- ✓ Submitting standby database creation job
- Adding standby database target

⚠ The process cannot be cancelled at this stage.

Cancel

Home | Targets | Deployments | Alerts | Policies | Jobs | Reports | Setup | Preferences | Help | Logout

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[About Oracle Enterprise Manager](#)

→ 12. Auto go back to Data Guard setup and maintains GUI

The standby database creation in progress

Data Guard Status: Creation in progress

Oracle Enterprise Manager (SYSMAN) - Data Guard - Qimonda

Address: https://szvsx019:1159/em/console/database/dataguard?redirect=true&event=doLoad&target=ora10g&type=oracle_database

ORACLE Enterprise Manager 10g Grid Control

Home Targets Deployments Alerts Policies Jobs Reports

Hosts | Databases | Application Servers | Web Applications | Services | Systems | Groups | All Targets

Database Instance: ora10g > Logged in As SYS

Data Guard

Page Refreshed May 10, 2007 10:28:08 AM GMT+08:00 View Data Real Time: Manual Refresh

Overview

Data Guard Status **Normal**
 Protection Mode [Maximum Performance](#)
 Fast-Start Failover [Disabled](#)

Primary Database

Name [ora10g](#)
 Host [SZVSX017](#)
 Data Guard Status **Normal**
 Current Log [23](#)
 Properties [Edit](#)

Standby Progress Summary

The transport lag is the time difference between the primary last update and the standby last received redo. The apply lag is the time difference between the primary last update and the standby last applied redo.

No data is currently available.

Standby Databases

[Add Standby Database](#)

[Edit](#) [Remove](#) [Switchover](#) [Failover](#)

Select	Name	Host	Data Guard Status	Role	Last Received Log	Last Applied Log	Estimated Failover Time
<input checked="" type="radio"/>	ora10d	szvsx017	Creation in progress	Physical Standby	n/a	n/a	n/a

Performance

[Performance Overview](#)
[Log File Details](#)

Additional Administration

[Verify Configuration](#)
[Remove Data Guard Configuration](#)

→13: Finished the standby database Creation: [Data Guard Status: Normal]

Oracle Enterprise Manager (SYSMAN) - Data Guard - Qimonda

Address: https://szvsx019:1159/em/console/database/dataguard?redirect=true&event=doLoad&target=ora10g&type=oracle_database

ORACLE Enterprise Manager 10g Grid Control

Home Targets Deployments Alerts Policies Jobs Reports

Hosts | Databases | Application Servers | Web Applications | Services | Systems | Groups | All Targets

Database Instance: ora10g > Logged in As SYS

Data Guard

Page Refreshed May 10, 2007 10:37:16 AM GMT+08:00 View Data Real Time: Manual Refresh

Overview

Data Guard Status **Normal**
 Protection Mode [Maximum Performance](#)
 Fast-Start Failover [Disabled](#)

Primary Database

Name [ora10g](#)
 Host [SZVSX017](#)
 Data Guard Status **Normal**
 Current Log [27](#)
 Properties [Edit](#)

Standby Progress Summary

The transport lag is the time difference between the primary last update and the standby last received redo. The apply lag is the time difference between the primary last update and the standby last applied redo.

seconds	Transport Lag	Apply Lag
3	3	9

Standby Databases

[Add Standby Database](#)

[Edit](#) [Remove](#) [Switchover](#) [Failover](#)

Select	Name	Host	Data Guard Status	Role	Last Received Log	Last Applied Log	Estimated Failover Time
<input checked="" type="radio"/>	ora10d	SZVSX017	Normal	Physical Standby	26	26	0 seconds

Performance

[Performance Overview](#)
[Log File Details](#)

Additional Administration

[Verify Configuration](#)
[Remove Data Guard Configuration](#)

→14: Check the targets database list if include the standby database instance [ora10d]

Oracle Enterprise Manager (SYSMAN) - Databases - Qimonda

Address: https://szvsx019:1159/em/console/targets?ctxType=Databases

Grid Control: Home **Targets** Deployments Alerts Policies Jobs Reports

Hosts | **Databases** | Application Servers | Web Applications | Services | Systems | Groups | All Targets

Databases

Page Refreshed May 10, 2007 4:40:17 PM

Search: Go [Advanced Search](#)

Remove Configure Add

Select	Name	Type	Status	Alerts	Policy Violations	Compliance Score (%)	Version	Sessions: CPU	Sessions: I/O	Sessions: Other	Instance CPU (%)
<input checked="" type="radio"/>	ora10d	Database Instance: Physical Standby		0 3	0 0 0	100	10.2.0.1.0				
<input type="radio"/>	ora10g	Database Instance: Primary		0 5	7 3 2	95	10.2.0.1.0	0	0	0	.08

TIP For an explanation of the icons and symbols used in this page, see the [Icon Key](#).

→15. Go back to The data guard maintains GUI→Verify configuration

Oracle Enterprise Manager (SYSMAN) - Data Guard - Qimonda

Address: https://szvsx019:1159/em/console/database/dataguard?redirect=true&event=doLoad&target=ora10g&type=oracle_database

ORACLE Enterprise Manager 10g

Grid Control: Home **Targets** Deployments Alerts Policies Jobs Reports

Hosts | **Databases** | Application Servers | Web Applications | Services | Systems | Groups | All Targets

Database Instance: ora10g > [Data Guard](#) Logged in As SYS

Page Refreshed May 10, 2007 10:59:33 AM GMT+08:00 View Data Real Time: Manual Refresh

Overview

- Data Guard Status: **Normal**
- Protection Mode: [Maximum Performance](#)
- Fast-Start Failover: [Disabled](#)

Primary Database

- Name: ora10g
- Host: SZVSXD17
- Data Guard Status: **Normal**
- Current Log: 28
- Properties: [Edit](#)

Standby Progress Summary

The transport lag is the time difference between the primary last update and the standby last received redo. The apply lag is the time difference between the primary last update and the standby last applied redo.

seconds	ora10d
4	Transport Lag
12	Apply Lag

Standby Databases

[Add Standby Database](#)

Select	Name	Host	Data Guard Status	Role	Last Received Log	Last Applied Log	Estimated Failover Time
<input checked="" type="radio"/>	ora10d	SZVSXD17	Normal	Physical Standby	27	27	0 seconds

Performance

- [Performance Overview](#)
- [Log File Details](#)

Additional Administration

- [Verify Configuration](#)
- [Remove Data Guard Configuration](#)

Oracle Enterprise Manager (SYSMAN) - Processing: Verify - Qimonda

File Edit View Favorites Tools Help

Address https://szvsx019:1159/em/console/database/dataguard?redirect=true&event=verify&target=ora10g&type=oracle_database

ORACLE Enterprise Manager 10g Grid Control

Home Targets Deployments Alerts Policies Jobs Reports


Hosts | Databases | Application Servers | Web Applications | Services | Systems | Groups | All Targets

Logged in As SYS

Processing: Verify

Verify checks various standby database settings.

The results of the verify will be shown upon completion. You can click Cancel to stop processing at any time.



- ✓ Initializing
- ✓ Switching current log
- ✓ Performing health check
- ➔ Updating Data Guard information
- Verifying protection mode
- Checking standby redo log files
- Checking Data Guard status
- Checking properties
- Verifying log switch
- Saving detailed results

Cancel

Home | Targets | Deployments | Alerts | Policies | Jobs | Reports | Setup | Preferences | Help | Logout

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Done Local intranet

Oracle Enterprise Manager (SYSMAN) - Processing: Verify - Qimonda

File Edit View Favorites Tools Help

Address https://szvsx019:1159/em/console/database/dataguard?redirect=true&event=verify&target=ora10g&type=oracle_database

ORACLE Enterprise Manager 10g Grid Control

Home Targets Deployments Alerts Policies Jobs Reports


Hosts | Databases | Application Servers | Web Applications | Services | Systems | Groups | All Targets

Logged in As SYS

Processing: Verify

Verify checks various standby database settings.

The results of the verify will be shown upon completion. You can click Cancel to stop processing at any time.



- ✓ Initializing
- ✓ Switching current log
- ✓ Performing health check
- ✓ Updating Data Guard information
- ✓ Verifying protection mode
- ✓ Checking standby redo log files
- ✓ Checking Data Guard status
- ✓ Checking properties
- ✓ Verifying log switch
- ✓ Saving detailed results

Cancel

Home | Targets | Deployments | Alerts | Policies | Jobs | Reports | Setup | Preferences | Help | Logout

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Done Local intranet

→16: Verify Configuration completed successfully

Oracle Enterprise Manager (SYSMAN) - Processing: Verify - Qimonda

File Edit View Favorites Tools Help

Address https://szvsx019:1159/em/console/database/dataguard?target=ora10g&type=oracle_database

ORACLE Enterprise Manager 10g

Grid Control

Home Targets Deployments Alerts Policies Jobs Re

Hosts | Databases | Application Servers | Web Applications | Services | Systems | Groups | All Targets

Logged in As SYS

Processing: Verify Completed

Verify completed successfully. Check the detailed results for more information.

Detailed Results

```
Initializing
Connected to instance SZVSX017:ora10g
Starting alert log monitor...
Updating Data Guard link on database homepage...

Data Protection Settings:
Protection mode : Maximum Performance
Log Transport Mode settings:
ora10g: ASYNC
ora10d: ASYNC
Checking standby redo log files.....OK

Checking Data Guard status
ora10g : Normal
ora10d : Normal
Checking Inconsistent Properties
```

OK

Local intranet

Detailed Results:

```
Initializing
Connected to instance SZVSX017:ora10g
Starting alert log monitor...
Updating data guard link on database homepage...

Data Protection Settings:
Protection mode : Maximum Performance
Log Transport Mode settings:
ora10g: ASYNC
ora10d: ASYNC
checking standby redo log files.....OK

Checking Data Guard status
ora10g : Normal
ora10d : Normal
Checking Inconsistent Properties

Checking agent status
ora10g ... OK
ora10d ... OK

switching log file 27.Done
checking applied log on ora10d...OK

Processing completed.
```

Add exist standby database instance into 10g OEM Grid Control step by step

Primary DB Name: ora10g
Standby DB Name: ora10s
Standby type: Physical standby
DB Version: 10.2.0.1 EE
Host Name: szvsx017

→01 Go Back to OEM→Targets→Databases→Add

Oracle Enterprise Manager (SYSMAN) - Databases - Qimonda

Grid Control | Home | Targets | Deployments | Alerts | Policies | Jobs | Reports

Hosts | Databases | Application Servers | Web Applications | Services | Systems | Groups | All Targets

Databases

Page Refreshed May 10, 2007 4:40:17 PM

Search Go [Advanced Search](#)

Remove **Configure** | **Add**

Select	Name	Type	Status	Alerts	Policy Violations	Compliance Score (%)	Version	Sessions: CPU	Sessions: I/O	Sessions: Other	Instance CPU (%)
<input checked="" type="radio"/>	ora10d	Database Instance: Physical Standby		0 3	0 0 0	100	10.2.0.1.0				
<input type="radio"/>	ora10g	Database Instance: Primary		0 5	7 3 2	95	10.2.0.1.0	0	0	0	.08

TIP For an explanation of the icons and symbols used in this page, see the [Icon Key](#).

→02 Specify Host for the standby database instance

Host [szvsx017]

Oracle Enterprise Manager (SYSMAN) - Add Database Instance Target: Specify Host - Qimonda

Grid Control | Home | Targets | Deployments | Alerts | Policies | Jobs | Reports

Enterprise Manager Configuration | Management Services and Repository | Agents

Cancel Continue

Add Database Instance Target: Specify Host

In order to add targets to be monitored by Enterprise Manager, you must first specify the host on which those targets reside. Type the host name or click the icon to select the host.

* Host

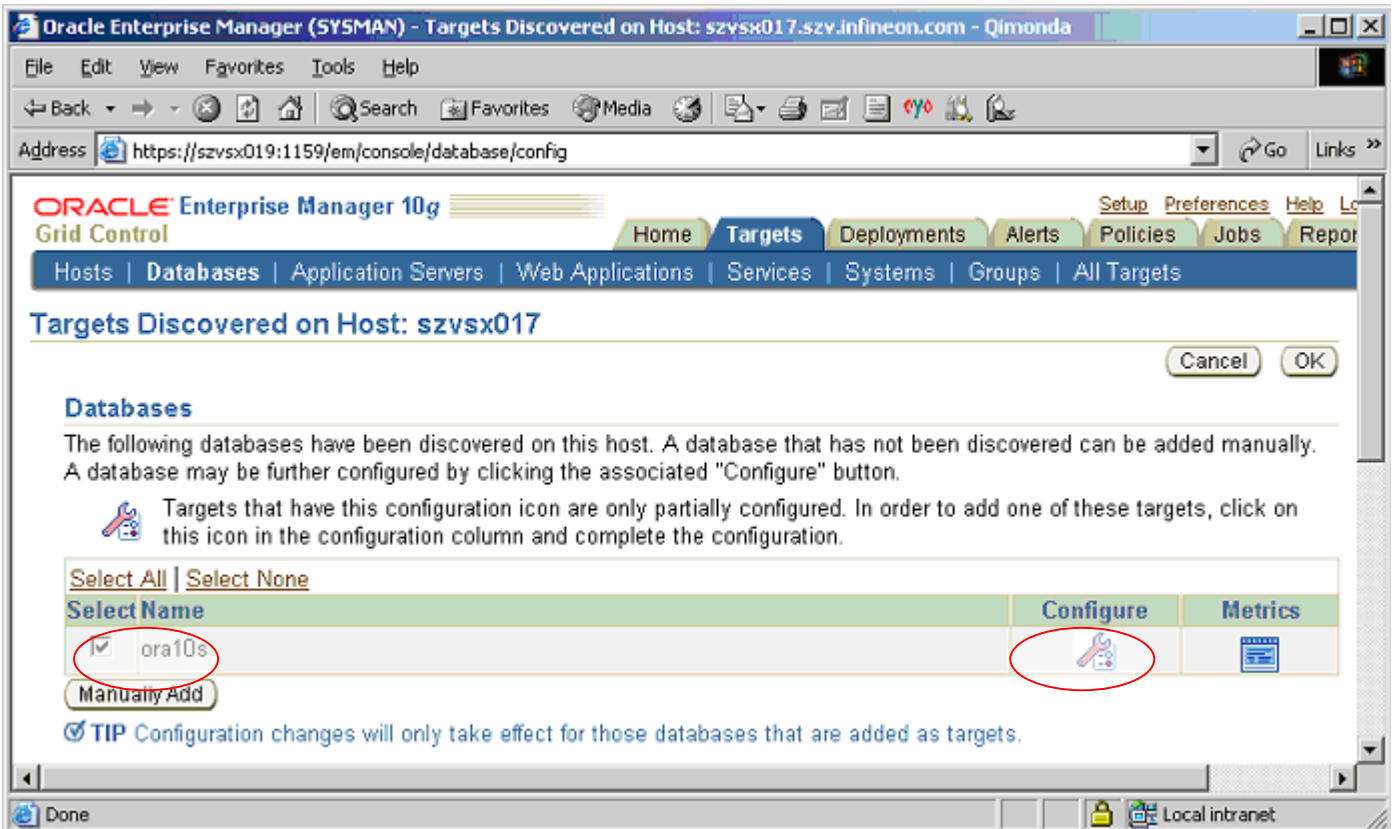
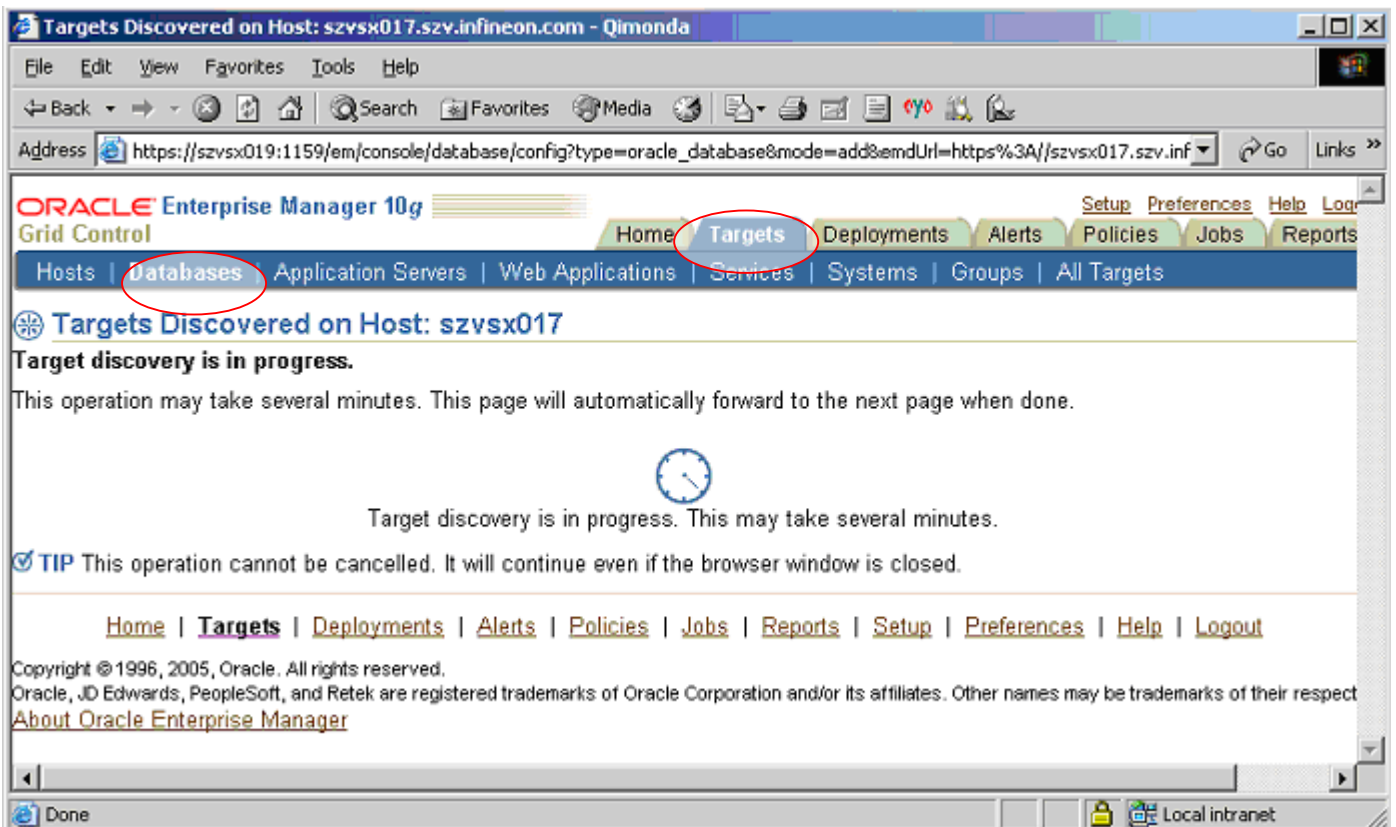
TIP If the host you specify is a member of a cluster target, the process will allow you to add cluster database targets on the cluster.

Overview

This process allows you to add databases, listeners, and Automated Storage Managers (ASM) as monitored targets. A monitored target is an entity that you want to monitor and administer using Enterprise Manager. Enterprise Manager will search for targets of these types on the host that you specify.

Cancel **Continue**

→03: Specify Host→Continue→Auto Discovery



Modify the configure to Normal→Input monitor password and test connection→Failed

Oracle Enterprise Manager (SYSMAN) - Configure Database Instance: Properties - Qimonda

File Edit View Favorites Tools Help

Address <https://szvsx019:1159/em/console/database/config?target=#>

Grid Control Home Targets Deployments Alerts Policies Jobs Reports

Hosts Databases Application Servers Web Applications Services Systems Groups All Targets

Cancel Step 1 of 5 Next

Validation Error
Please correct the following error(s).
Monitor Password - Password must be specified

Properties Install Packages Credentials Parameters Review

Configure Database Instance: Properties

* Name

Type **Database Instance**

Name	Value
Oracle home path	<input type="text" value="/opt/oracle/product/10g"/>
Monitor Username	<input type="text" value="dbstmp"/>
Monitor Password	<input type="password" value=""/> Password must be specified
Role	<input type="text" value="Normal"/>
Listener Machine Name	<input type="text" value="szvsx017"/>
Port	<input type="text" value="1521"/>
Database SID	<input type="text" value="ora10s"/>

Cancel Step 1 of 5 Next

Home Targets Deployments Alerts Policies Jobs Reports Setup Preferences Help Logout

<https://szvsx019:1159/em/console/database/config?target=#> Local intranet

→Test connection Result: ORA-604

Oracle Enterprise Manager (SYSMAN) - Configure Database Instance: Properties - Qimonda

Address: https://szvsx019:1159/em/console/database/config?target=

ORACLE Enterprise Manager 10g Grid Control

Home Targets Deployments Alerts Policies Jobs Repo

Hosts | Databases | Application Servers | Web Applications | Services | Systems | Groups | All Targets

Cancel Step 1 of 5 Next

Error
Failed to connect to the database: ORA-00604: error occurred at recursive SQL level 1 ORA-01219: database not open: queries allowed on fixed tables/views only

Properties Install Packages Credentials Parameters Review

Configure Database Instance: Properties

* Name

Type Database Instance

Name	Value
Oracle home path	<input type="text" value="/opt/oracle/product/10g"/>
Monitor Username	<input type="text" value="dbsnmp"/>
Monitor Password	<input type="password" value="*****"/>
Role	<input type="text" value="Normal"/>
Listener Machine Name	<input type="text" value="szvsx017."/>
Port	<input type="text" value="1521"/>
Database SID	<input type="text" value="ora10s"/>

Cancel Step 1 of 5 Next

Done Local intranet

→ Change Role and Monitor Username (Because the Standby is not open)

Oracle Enterprise Manager (SYSMAN) - Configure Database Instance: Properties - Qimonda

Address: https://szvsx019:1159/em/console/database/config?target=

ORACLE Enterprise Manager 10g Grid Control

Home Targets Deployments Alerts Policies Jobs Repo

Hosts | Databases | Application Servers | Web Applications | Services | Systems | Groups | All Targets

Cancel Step 1 of 5 Next

Properties Install Packages Credentials Parameters Review

Configure Database Instance: Properties

* Name

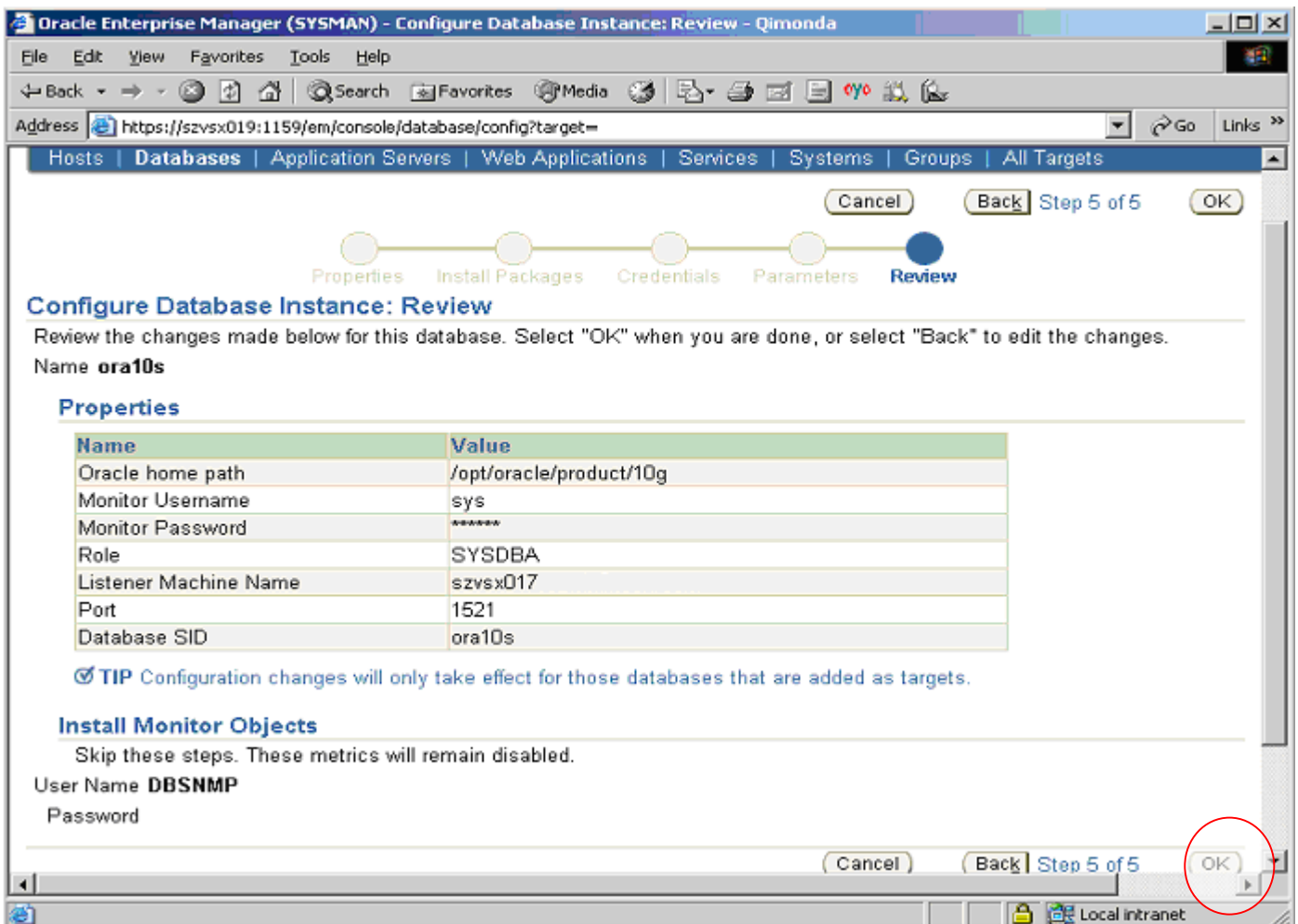
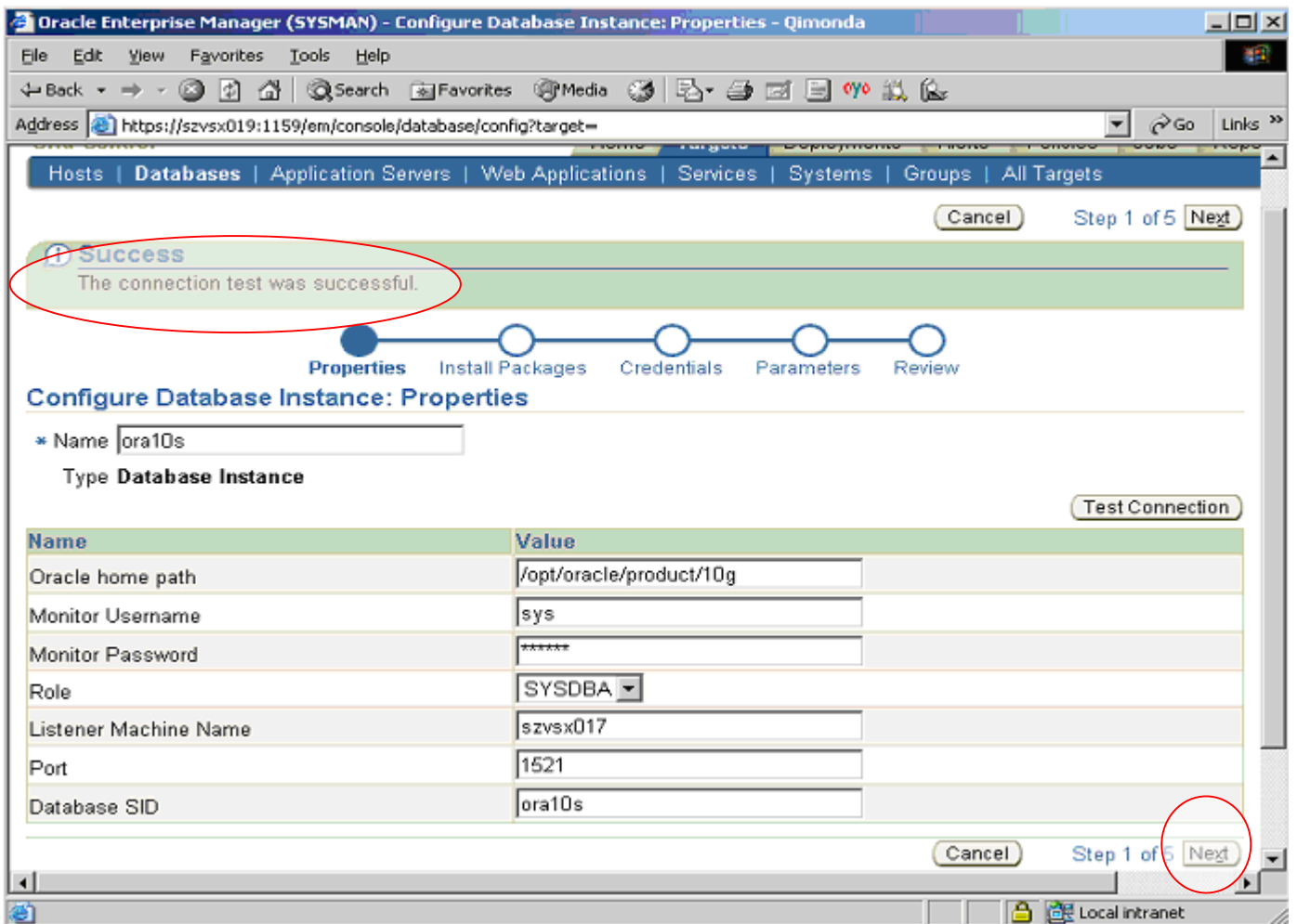
Type Database Instance

Name	Value
Oracle home path	<input type="text" value="/opt/oracle/product/10g"/>
Monitor Username	<input type="text" value="sys"/>
Monitor Password	<input type="password" value="*****"/>
Role	<input type="text" value="SYSDBA"/>
Listener Machine Name	<input type="text" value="szvsx017"/>
Port	<input type="text" value="1521"/>
Database SID	<input type="text" value="ora10s"/>

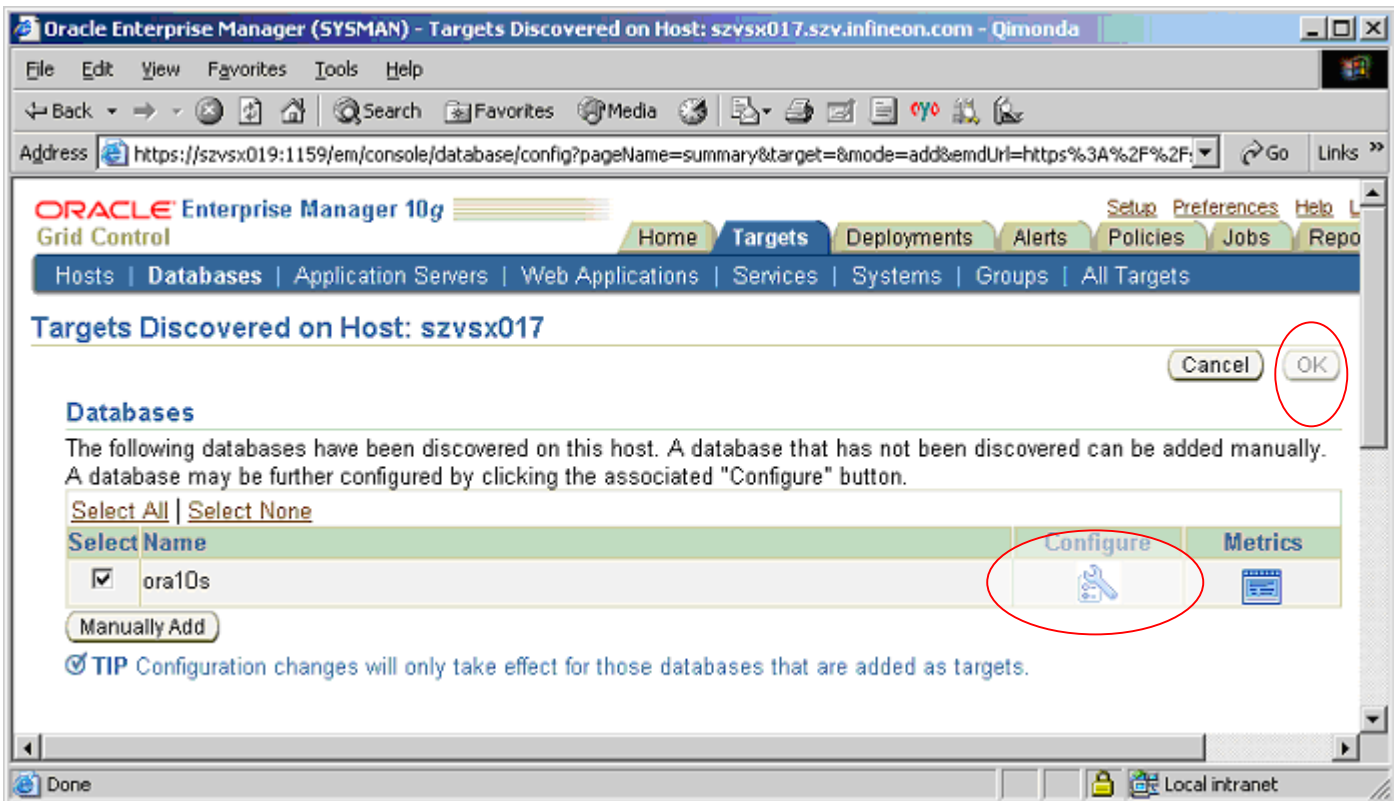
Cancel Step 1 of 5 Next

Local intranet

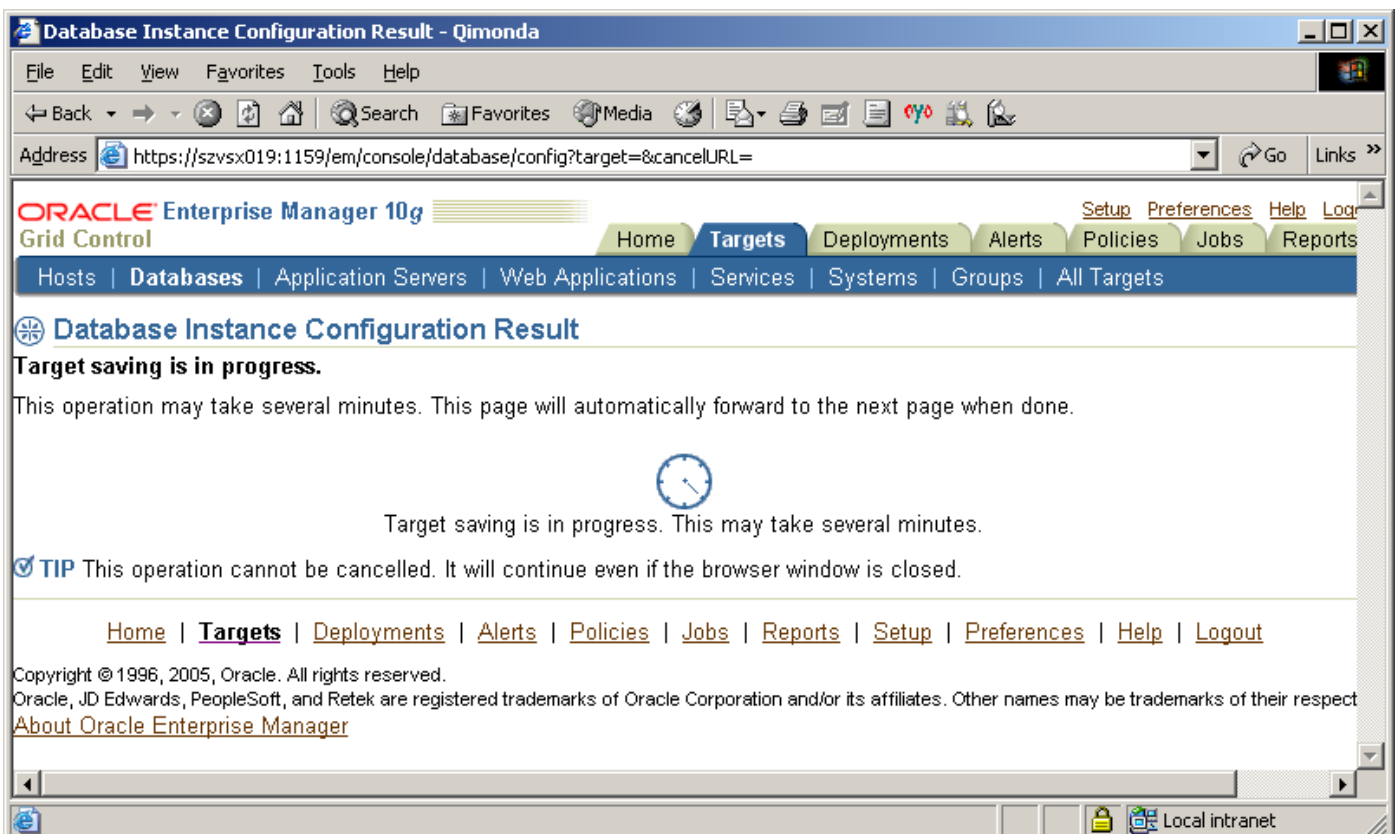
Test connection was successful



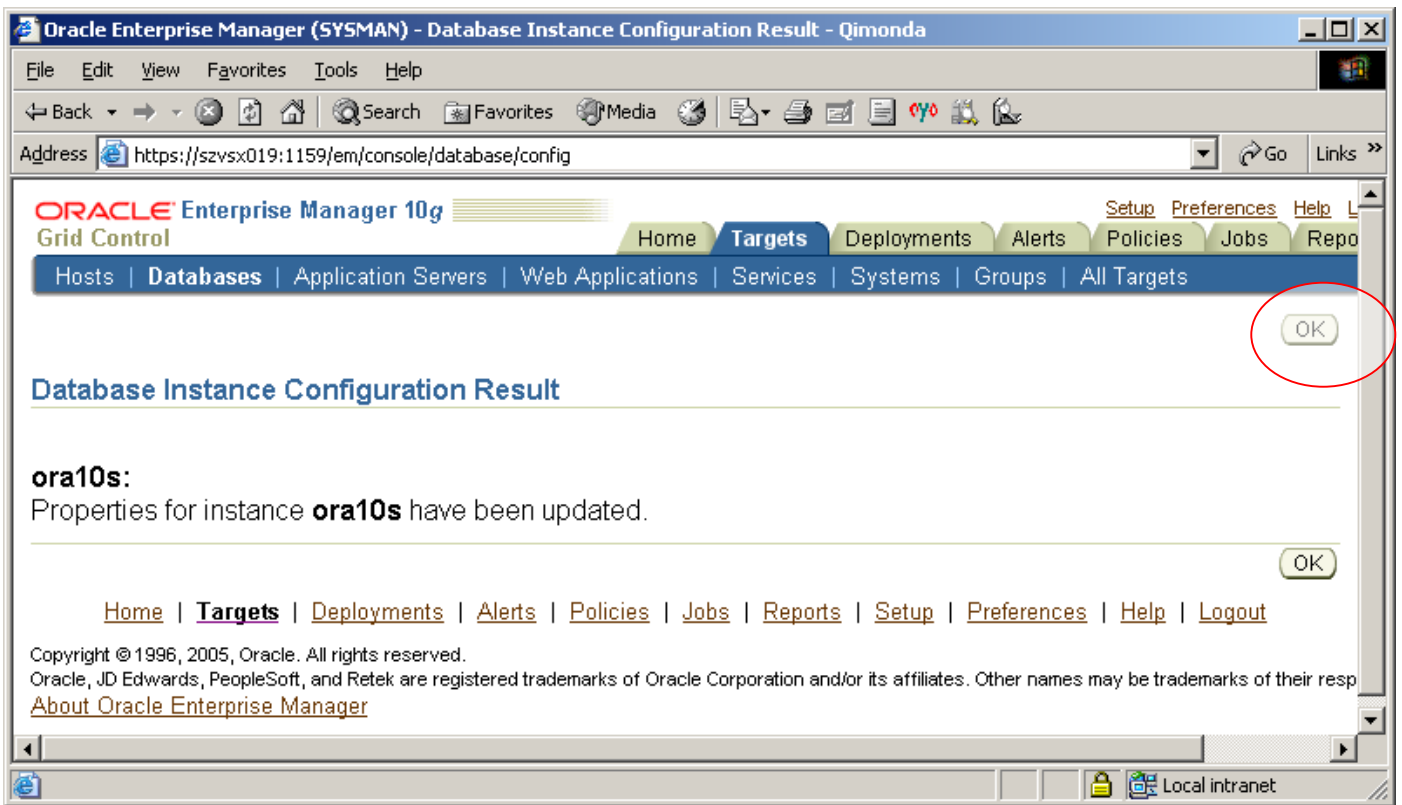
→04.The database Instance ora10s configure status to normal→OK



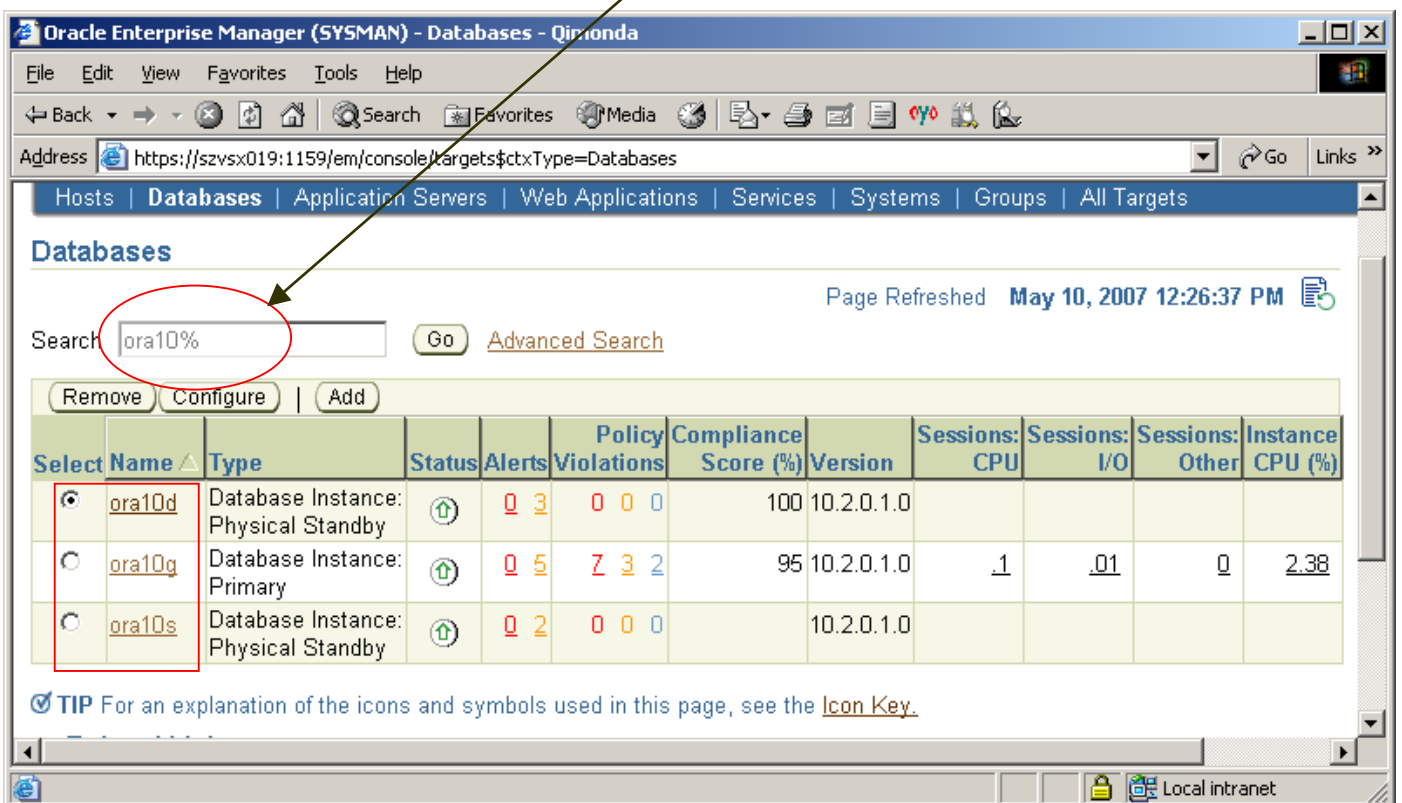
→05.Saving the database instance into the OEM database.



→06.Database Instance Configuration Result is successful →OK



→07.OEM Grid Control→Targets→databases→ora10%



→08.Add the standby database instance into the data guard group

10g OEM Grid control→Targets→Databases→ora10g

databases instance:ora10g→Maintenance→Data Guard→Setup and Manage

Oracle Enterprise Manager (SYSMAN) - Database Instance: ora10g - Qimonda

File Edit View Favorites Tools Help

Address https://szvsx019:1159/em/console/database/instance/sitemap?event=doLoad&target=ora10g&type=oracle_database&...

Logged in As SYS

Database Instance: ora10g

Home Performance Administration **Maintenance**

The Administration tab displays links that allow you to administer database objects and initiate database operations inside an Oracle database. The Maintenance tab displays links that provide functions that control the flow of data between or outside Oracle databases.

High Availability

Backup/Recovery

- [Schedule Backup](#)
- [Perform Recovery](#)
- [Manage Current Backups](#)
- [Manage Restore Points](#)
- [Backup Reports](#)

Backup/Recovery Settings

- [Backup Settings](#)
- [Recovery Settings](#)
- [Recovery Catalog Settings](#)

Data Guard

- [Setup and Manage](#)

Data Movement

Oracle Enterprise Manager (SYSMAN) - Data Guard - Qimonda

File Edit View Favorites Tools Help

Address https://szvsx019:1159/em/console/database/dataguard?redirect=true&event=doLoad&target=ora10g&type=oracle_dat...

Database Instance: ora10g > Logged in As SYS

Data Guard

Page Refreshed May 10, 2007 12:03:35 PM GMT+08:00 View Data Real Time: Manual Refresh

Overview

- Data Guard Status ✓ **Normal**
- Protection Mode [Maximum Performance](#)
- Fast-Start Failover [Disabled](#)

Primary Database

- Name [ora10g](#)
- Host [SZVSX017](#)
- Data Guard Status ✓ [Normal](#)
- Current Log [28](#)
- Properties [Edit](#)

Standby Progress Summary

The transport lag is the time difference between the primary last update and the standby last received redo. The apply lag is the time difference between the primary last update and the standby last applied redo.

Category	Value (seconds)
Transport Lag	2
Apply Lag	9

Standby Databases

[Add Standby Database](#)

Edit Remove Switchover Failover

Select	Name	Host	Data Guard Status	Role	Last Received Log	Last Applied Log	Estimated Failover Time
<input checked="" type="radio"/>	ora10d	SZVSX017	✓ Normal	Physical Standby	27	27	0 seconds

Oracle Enterprise Manager (SYSMAN) - Add Standby Database - Qimonda

File Edit View Favorites Tools Help

Address https://szvsx019:1159/em/console/database/dataguard/create?target=ora10g&type=oracle_database

Hosts | Databases | Application Servers | Web Applications | Services | Systems | Groups | All Targets

Database Instance: ora10g > Data Guard >

Add Standby Database

Cancel Continue

This wizard adds an additional standby database to your existing Data Guard configuration. Select how to add the standby database.

- Create a new physical standby database
A physical standby database is maintained as an exact copy of the primary database.
- Create a new logical standby database
A logical standby database duplicates the data from the primary database at the SQL level.
- Manage an existing standby database with Data Guard broker
The existing standby database must be fully configured to function as a standby database for the primary database.
- Create a primary database backup only
Instead of creating a standby database, this option creates a primary database backup that can be used for a future standby database creation.

Standby Database Types

Physical standby database characteristics:

- Physically identical to the primary database
- Mounted (not open) when in recovery mode
- Can be opened read only
- Supports all datatypes and DDL

Logical standby database characteristics:

- Not physically identical to primary database
- Open read/write when in recovery mode
- Can be used for data protection and reporting
- Does not support some datatypes, some DDL

Done Local intranet

Oracle Enterprise Manager (SYSMAN) - Add Standby Database - Qimonda

File Edit View Favorites Tools Help

Address https://szvsx019:1159/em/console/database/dataguard/create?target=ora10g&type=oracle_database

ORACLE Enterprise Manager 10g

Grid Control

Home Targets Deployments Alerts Policies Jobs Rep

Hosts | Databases | Application Servers | Web Applications | Services | Systems | Groups | All Targets

Select Existing Standby Database Configuration Review

Add Standby Database: Select Existing Standby Database

Cancel Step 1 of 3 Next

Select an existing standby database to be managed by Data Guard broker. The database you choose must have been created from the primary database and must be configured to function as a standby database.

Only databases that match the version (10.2.0.1.0) and operating system (HP-UX) of the primary database are listed in the table.

Select Database	Host
<input checked="" type="radio"/> ora10s	szvsx017

Cancel Step 1 of 3 Next

Home | Targets | Deployments | Alerts | Policies | Jobs | Reports | Setup | Preferences | Help | Logout

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About Oracle Enterprise Manager

Done Local intranet

Oracle Enterprise Manager (SYSMAN) - Add Standby Database - Qimonda

File Edit View Favorites Tools Help

Address https://szvsx019:1159/em/console/database/dataguard/create?target=ora10g&type=oracle_database

ORACLE Enterprise Manager 10g

Grid Control

Home Targets Deployments Alerts Policies Jobs Rep

Hosts | Databases | Application Servers | Web Applications | Services | Systems | Groups | All Targets

Select Existing Standby Database Configuration Review

Add Standby Database: Configuration

Cancel Back Step 2 of 3 Next

Optionally change the following standby database parameters.

- * Standby Archive Location

A flash recovery area is currently being used for archived redo log files.

Cancel Back Step 2 of 3 Next

Home | Targets | Deployments | Alerts | Policies | Jobs | Reports | Setup | Preferences | Help | Logout

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Local intranet

Oracle Enterprise Manager (SYSMAN) - Add Standby Database - Qimonda

File Edit View Favorites Tools Help

Address https://szvsx019:1159/em/console/database/dataguard/create?target=ora10g&type=oracle_database

ORACLE Enterprise Manager 10g

Grid Control

Home Targets Deployments Alerts Policies Jobs Rep

Hosts | Databases | Application Servers | Web Applications | Services | Systems | Groups | All Targets

Select Existing Standby Database Configuration Review

Add Standby Database: Review

Cancel Back Step 3 of 3 Finish

Standby database **ora10s** will be added to the Data Guard configuration.

Primary Database	Standby Database
Target Name ora10g	Target Name ora10s
Host SZVSX017	Host SZVSX017
	Instance Name ora10s
	Oracle Home /opt/oracle/product/10g
	Standby Type Physical Standby
	Standby Archive Location USE_DB_RECOVERY_FILE_DEST

Cancel Back Step 3 of 3 Finish

Home | Targets | Deployments | Alerts | Policies | Jobs | Reports | Setup | Preferences | Help | Logout

Local intranet

Oracle Enterprise Manager (SYSMAN) - Processing: Add Standby Database - Qimonda

File Edit View Favorites Tools Help

Address: https://szvsx019:1159/em/console/database/dataguard/create?target=ora10g&type=oracle_database

ORACLE Enterprise Manager 10g Grid Control

Home **Targets** Deployments Alerts Policies Jobs Rep

Hosts | Databases | Application Servers | Web Applications | Services | Systems | Groups | All Targets

Processing: Add Standby Database

The standby database will be added to the Data Guard configuration.

After the process is complete, you will be returned to the Data Guard overview page.

- ➔ Updating Data Guard configuration
- Updating standby database target

TIP This process cannot be cancelled. It will continue even if the browser window is closed.

Home | **Targets** | Deployments | Alerts | Policies | Jobs | Reports | Setup | Preferences | Help | Logout

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[About Oracle Enterprise Manager](#)

Done Local intranet

Oracle Enterprise Manager (SYSMAN) - Data Guard - Qimonda

File Edit View Favorites Tools Help

Address: https://szvsx019:1159/em/console/database/dataguard?redirect=true&event=doLoad&target=ora10g&type=oracle_database

Database Instance: ora10g > Logged in As SYS

Data Guard

Page Refreshed May 10, 2007 12:31:18 PM GMT+08:00 View Data Real Time: Manual Refresh

Overview

- Data Guard Status **✓ Normal**
- Protection Mode Maximum Performance
- Fast-Start Failover Disabled

Primary Database

- Name ora10g
- Host SZVSX017
- Data Guard Status **✓ Normal**
- Current Log 31
- Properties Edit

Standby Progress Summary

The transport lag is the time difference between the primary last update and the standby last received redo. The apply lag is the time difference between the primary last update and the standby last applied redo.

Instance	Transport Lag (seconds)	Apply Lag (seconds)
ora10d	4	9
ora10s	4	8

Standby Databases

Add Standby Database

Select	Name	Host	Data Guard Status	Role	Last Received Log	Last Applied Log	Estimated Failover Time
<input checked="" type="radio"/>	ora10d	SZVSX017	✓ Normal	Physical Standby	30	30	0 seconds
<input type="radio"/>	ora10s	SZVSX017	✓ Normal	Physical Standby	30	30	8 seconds

Edit Remove Switchover Failover

Local intranet

Oracle Enterprise Manager (SYSMAN) - Data Guard - Qimonda

Address: https://szvsx019:1159/em/console/database/dataguard?redirect=true&event=dLoad&target=ora10g&type=oracle_database

Hosts | Databases | Application Servers | Web Applications | Services | Systems | Groups | All Targets

Database Instance: ora10g > Logged in As SYS

Data Guard

Page Refreshed May 10, 2007 5:22:30 PM GMT+08:00 View Data Real Time: Manual Refresh

Overview

- Data Guard Status: **Normal**
- Protection Mode: **Maximum Performance**
- Fast-Start Failover: **Disabled**

Primary Database

- Name: ora10g
- Host: SZVXSX017
- Data Guard Status: **Normal**
- Current Log: 31
- Properties: [Edit](#)

Standby Progress Summary

The transport lag is the time difference between the primary last update and the standby last received redo. The apply lag is the time difference between the primary last update and the standby last applied redo.

Instance	Transport Lag (seconds)	Apply Lag (seconds)
ora10d	0	6
ora10s	0	6

Standby Databases

[Add Standby Database](#)

Select	Name	Host	Data Guard Status	Role	Last Received Log	Last Applied Log	Estimated Failover Time
<input checked="" type="radio"/>	ora10d	SZVXSX017	Normal	Physical Standby	30	30	0 seconds
<input type="radio"/>	ora10s	SZVXSX017	Normal	Physical Standby	30	30	8 seconds

Performance

- [Performance Overview](#)
- [Log File Details](#)

Additional Administration

- [Verify Configuration](#)
- [Remove Data Guard Configuration](#)

Oracle Enterprise Manager (SYSMAN) - Processing: Verify - Qimonda

Address: https://szvsx019:1159/em/console/database/dataguard?redirect=true&event=verify&target=ora10g&type=oracle_database

Hosts | Databases | Application Servers | Web Applications | Services | Systems | Groups | All Targets

Grid Control Home Targets Deployments Alerts Policies Jobs Reports

Logged in As SYS

Processing: Verify

Verify checks various standby database settings.

The results of the verify will be shown upon completion. You can click Cancel to stop processing at any time.

- ✓ Initializing
- ✓ Switching current log
- ✓ Performing health check
- ➔ Updating Data Guard information
 - Verifying protection mode
 - Checking standby redo log files
 - Checking Data Guard status
 - Checking properties
 - Verifying log switch
 - Saving detailed results

[Cancel](#)

Home | **Targets** | Deployments | Alerts | Policies | Jobs | Reports | Setup | Preferences | Help | Logout

Oracle Enterprise Manager (SYSMAN) - Processing: Verify - Qimonda

File Edit View Favorites Tools Help

Address https://szvsx019:1159/em/console/database/dataguard?target=ora10g&type=oracle_database

Setup Preferences Help

ORACLE Enterprise Manager 10g
Grid Control

Home Targets Deployments Alerts Policies Jobs Rep

Hosts | Databases | Application Servers | Web Applications | Services | Systems | Groups | All Targets

Logged in As SYS

Processing: Verify Completed

Verify completed successfully. Check the detailed results for more information.

Detailed Results

```
Checking Data Guard status
ora10g : Normal
ora10d : Normal
ora10s : Normal
Checking Inconsistent Properties

Checking agent status
ora10g ... OK
ora10d ... OK
ora10s ... OK

Switching log file 30.Done
Checking applied log on ora10d...OK
Checking applied log on ora10s...OK

Processing completed.
```

Detailed Results

OK

Done Local intranet