

第 2 章: Oracle Enterprise Manager 入门

目的

本章向您介绍 Oracle Enterprise Manager Database Control。当您安装 Oracle 软件时, Oracle Universal Installer 将安装 Oracle Enterprise Manager Database Control。Enterprise Manager Database Control 提供了一个基于 Web 的界面, 您可以使用这个界面来管理 Oracle 例程和数据库。

主题

本章讨论了以下内容:

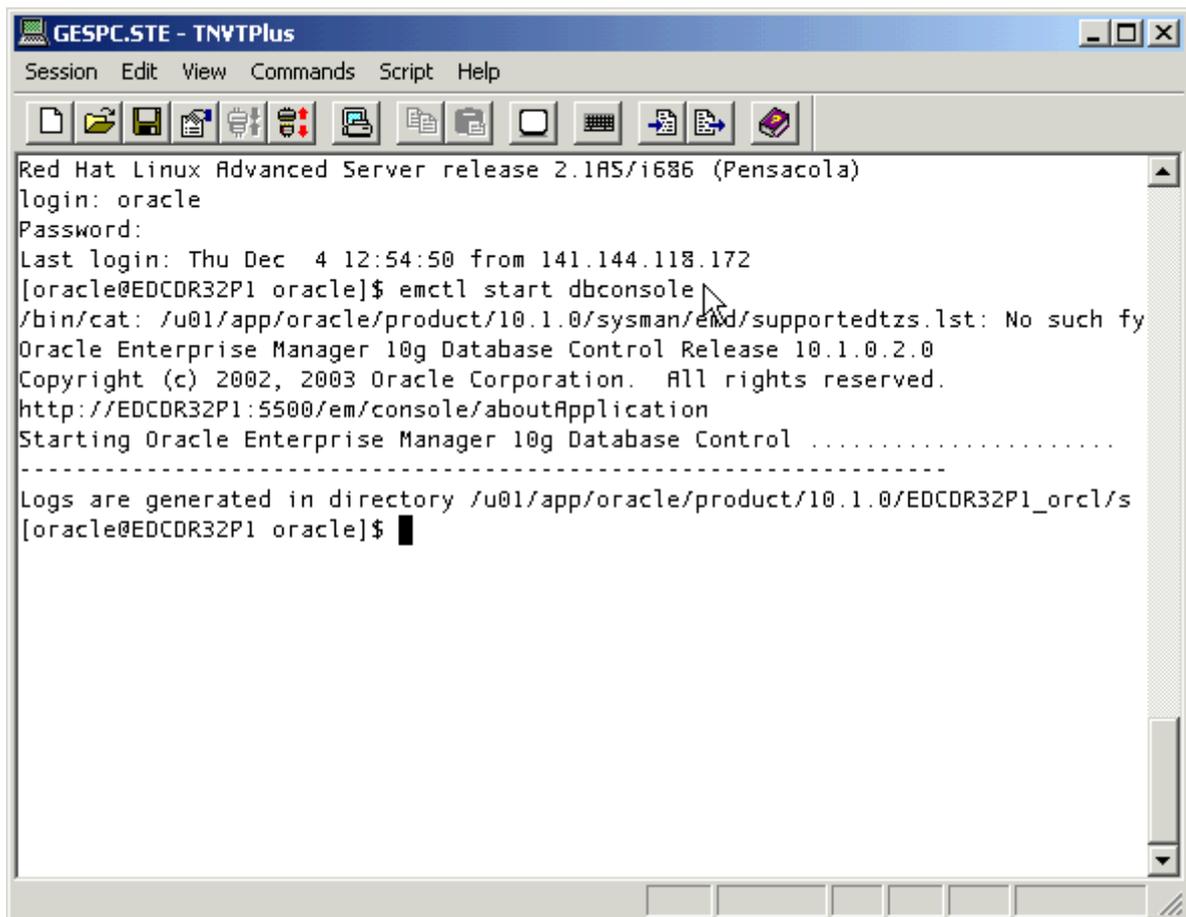
- 启动 Enterprise Manager dbconsole 进程
- 访问 Enterprise Manager Database Control
- 将 EM 管理权限授予其他用户
- 定义中断周期
- 设置首选证书

启动 Enterprise Manager dbconsole 进程

您要从客户端浏览器访问 Oracle Enterprise Manager Database Control, 则必须启动 dbconsole 进程。dbconsole 进程在安装之后自动启动。如果该进程没有启动, 则您必须在命令行下按如下方式人工启动它:

1、作为 oracle 用户登录到操作系统上。执行以下命令来启动 dbconsole 进程:

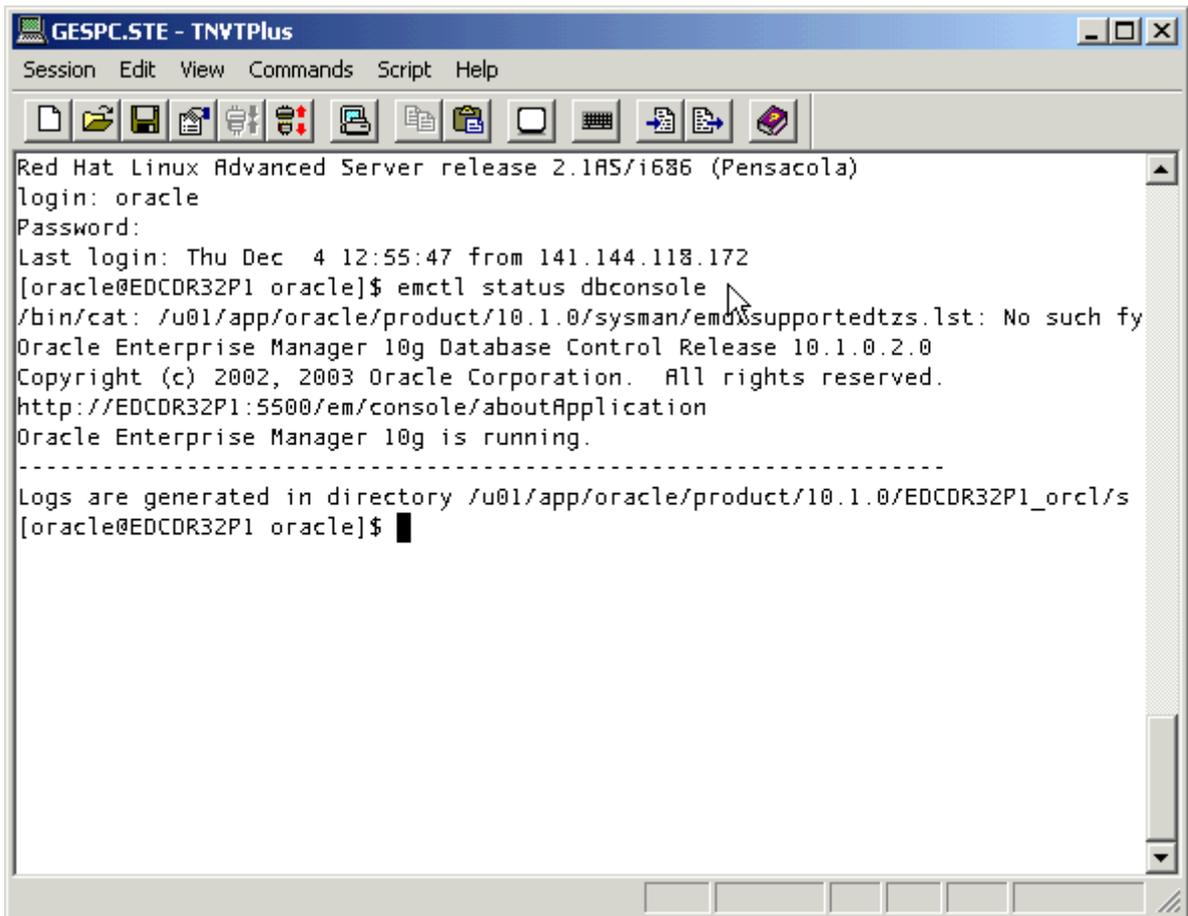
```
emctl start dbconsole
```



```
GESPC.STE - TNVPlus
Session Edit View Commands Script Help
Red Hat Linux Advanced Server release 2.1AS/i686 (Pensacola)
login: oracle
Password:
Last login: Thu Dec  4 12:54:50 from 141.144.118.172
[oracle@EDCDR32P1 oracle]$ emctl start dbconsole
/bin/cat: /u01/app/oracle/product/10.1.0/sysman/emd/supportedtzs.lst: No such fy
Oracle Enterprise Manager 10g Database Control Release 10.1.0.2.0
Copyright (c) 2002, 2003 Oracle Corporation. All rights reserved.
http://EDCDR32P1:5500/em/console/aboutApplication
Starting Oracle Enterprise Manager 10g Database Control .....
-----
Logs are generated in directory /u01/app/oracle/product/10.1.0/EDCDR32P1_orcl/s
[oracle@EDCDR32P1 oracle]$
```

2、您可以通过执行以下命令来检查 dbconsole 进程的状态:

```
emctl status dbconsole
```



```
GESPC.STE - TNVTPPlus
Session Edit View Commands Script Help
Red Hat Linux Advanced Server release 2.1AS/i686 (Pensacola)
login: oracle
Password:
Last login: Thu Dec  4 12:55:47 from 141.144.118.172
[oracle@EDCDR32P1 oracle]$ emctl status dbconsole
/bin/cat: /u01/app/oracle/product/10.1.0/sysman/emd\supportedtzs.lst: No such fy
Oracle Enterprise Manager 10g Database Control Release 10.1.0.2.0
Copyright (c) 2002, 2003 Oracle Corporation. All rights reserved.
http://EDCDR32P1:5500/em/console/aboutApplication
Oracle Enterprise Manager 10g is running.
-----
Logs are generated in directory /u01/app/oracle/product/10.1.0/EDCDR32P1_orcl/s
[oracle@EDCDR32P1 oracle]$
```

访问 Enterprise Manager (EM) Database Control

您可以按如下方式访问 Oracle Enterprise Manager Database Control:

- 1、打开 Web 浏览器，输入以下 URL:

[http:// :5500/em](http://:5500/em)

- 2、如果进程启动，则将显示 Database Control Login 页面。输入一个获授权访问 Oracle Enterprise Manager Database Control 的用户的用户名和口令。单击 Login 。



ORACLE Enterprise Manager 10G
Database Control

Login

Login to Database:orcl.us.oracle.com

* User Name

* Password

Connect As

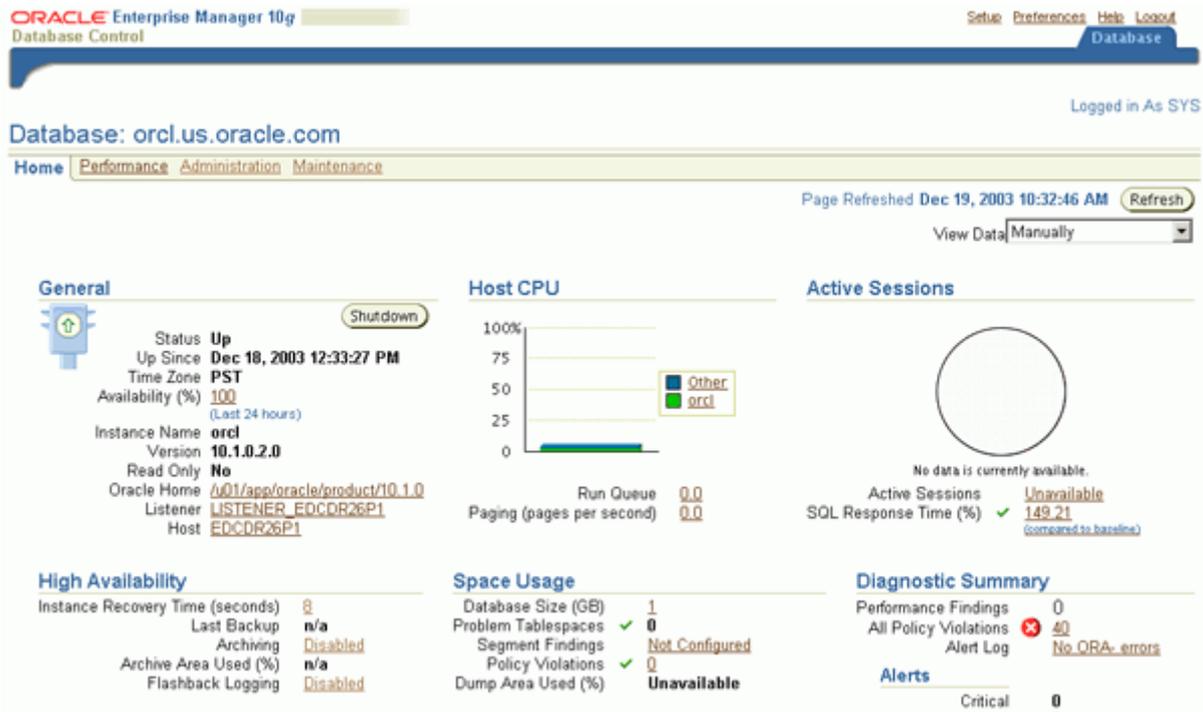
Login

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注意： 如果这是您第一次访问 Enterprise Manager Database Control，那么您会看到一个关于许可的页面。仔细查看信息，并根据您的情况相应地进行回答。

关于启动例程和打开数据库的详细说明，请参考第 4 章。

3、显示 Database Home 页面。您可以从 Database Home 页面访问 Performance、Administration 和 Maintenance 属性。

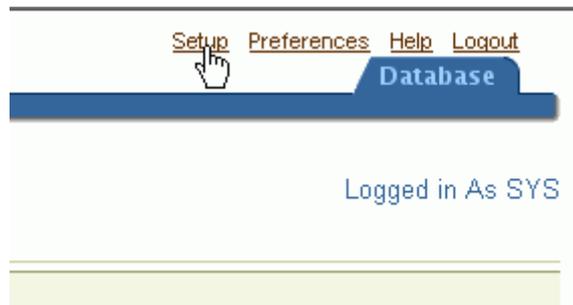


将 EM 管理权限授予其他用户

在这一部分中，您将了解到如何将管理权限授予其它的数据库用户。管理员是在管理信息库中定义的、能够登录 Enterprise Manager 来执行管理任务的数据库用户。在 Enterprise Manager 中提供的管理任务的范围取决于分配给管理员的权限和角色。

执行下列步骤来将管理权限授予其他的数据库用户：

- 1、单击 Database Home 页面顶部的 Setup。



2、显示 Administrators 列表。单击 Create，通过将管理权限分配给一个现有的数据库用户来创建一个新的 Enterprise Manager 用户。显示 Create Administrator:Properties 页面。



3、在这个步骤中，您将把管理权限授予 HR 用户。输入下列值：

Name: HR

Password: HR

注意：您可以单击与 Name 字段相邻的手电筒图标来从弹出窗口中选择一个现有的数据库用户。

单击 Finish 。

ORACLE Enterprise Manager 10g Database Control

Setup Preferences Help Logout Database

Setup

Create Administrator: Properties

* Name

* Password

* Confirm Password

Email Address

Specify one or more e-mail addresses separated by a comma or space.

Super Administrator

Cancel Finish

4、显示 Create Administrator:Review 页面。单击 Finish 。

ORACLE Enterprise Manager 10g Database Control

Setup Preferences Help Logout Database

Setup

Create Administrator: Review

Cancel Finish

Properties

Name **HR**

Email Address No Email address is defined for this administrator.

Super Administrator privileges with access to all targets.

Database system privilege: SELECT ANY DICTIONARY

Database role: MGMT USER

Cancel Finish

5、再次出现 Administrators 页面，新的管理员包括在了管理员列表中。

ORACLE Enterprise Manager 10g Database Control

Setup Preferences Help Logout Database

Setup

Administrators

Notification Methods

Patching Setup

Blackouts

Search Go

Administrators

Administrators are database users who can login to Enterprise Manager to perform management tasks like set Blackouts, email notification schedules.

Refresh Create

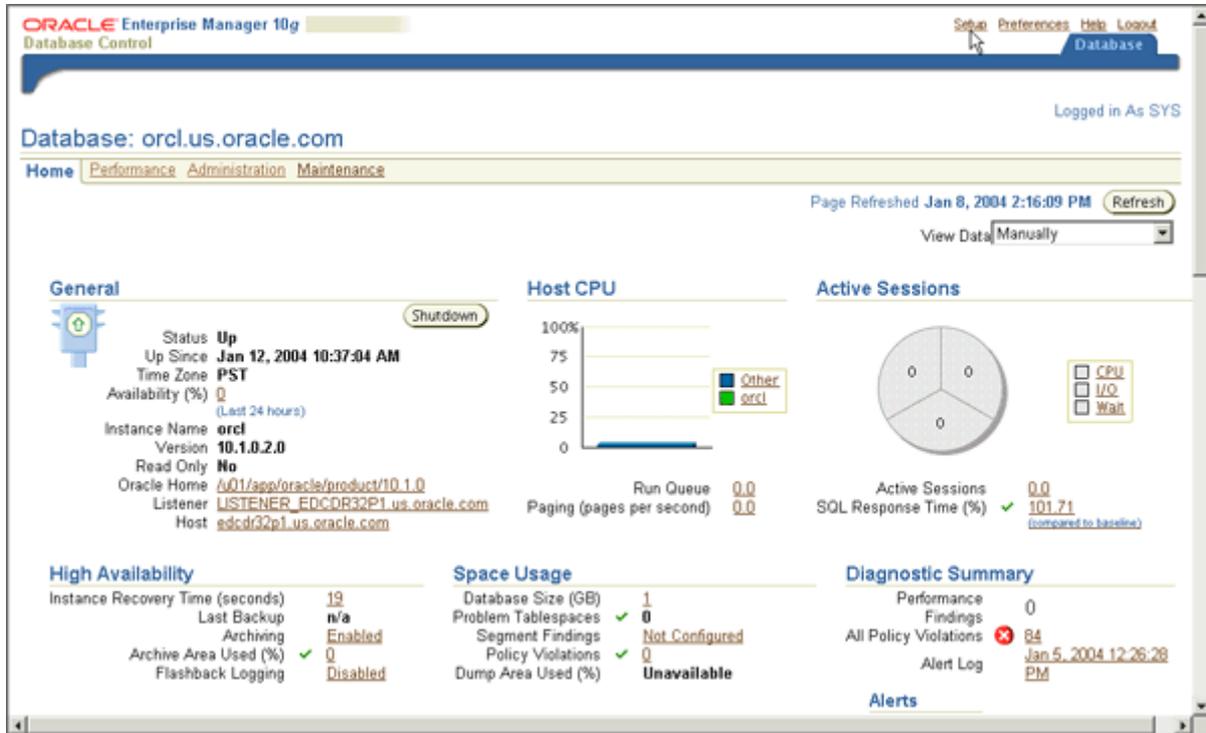
View Edit Delete

Select	Name
<input checked="" type="radio"/>	HR
<input type="radio"/>	SYS
<input type="radio"/>	SYSTEM

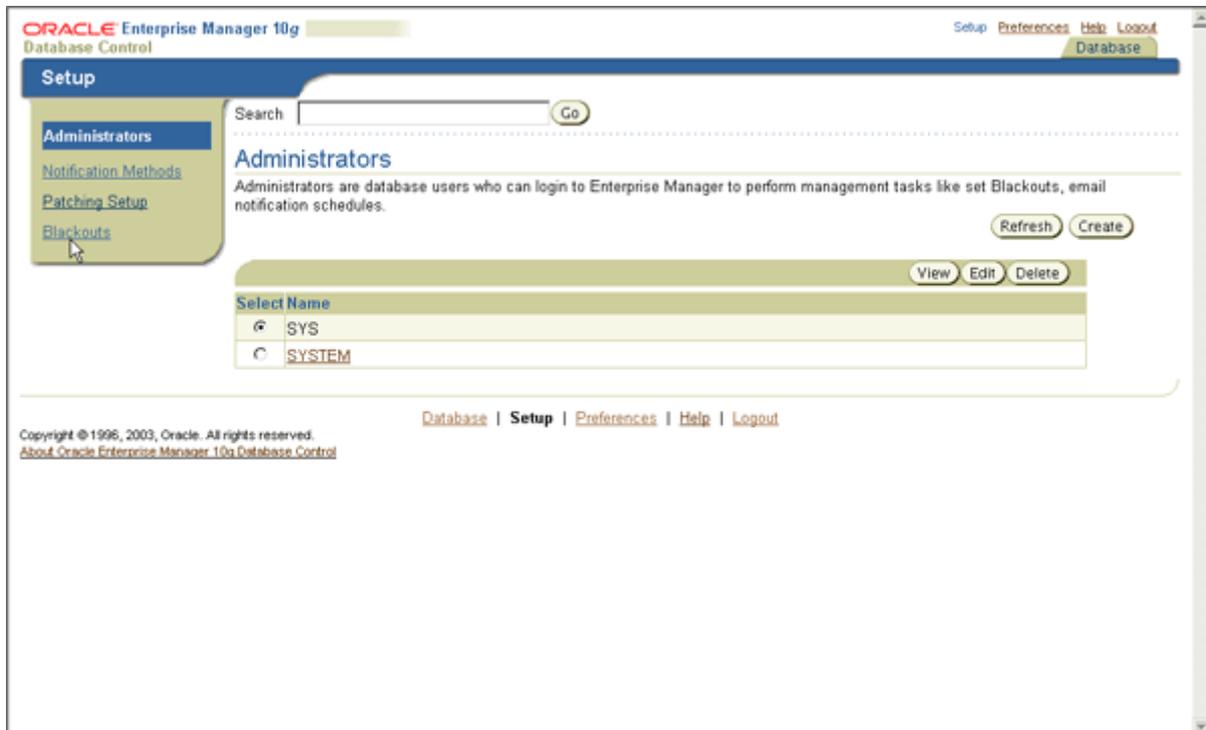
定义中断周期

当您计划中断您的数据库，以进行维护时，您可以通过定义一个中断周期来指定您不希望接收警报通知。中断还允许您暂停监控，以便执行其它的维护操作。您可以通过执行以下步骤，在 Enterprise Manager Database Control 中定义一个中断时间周期：

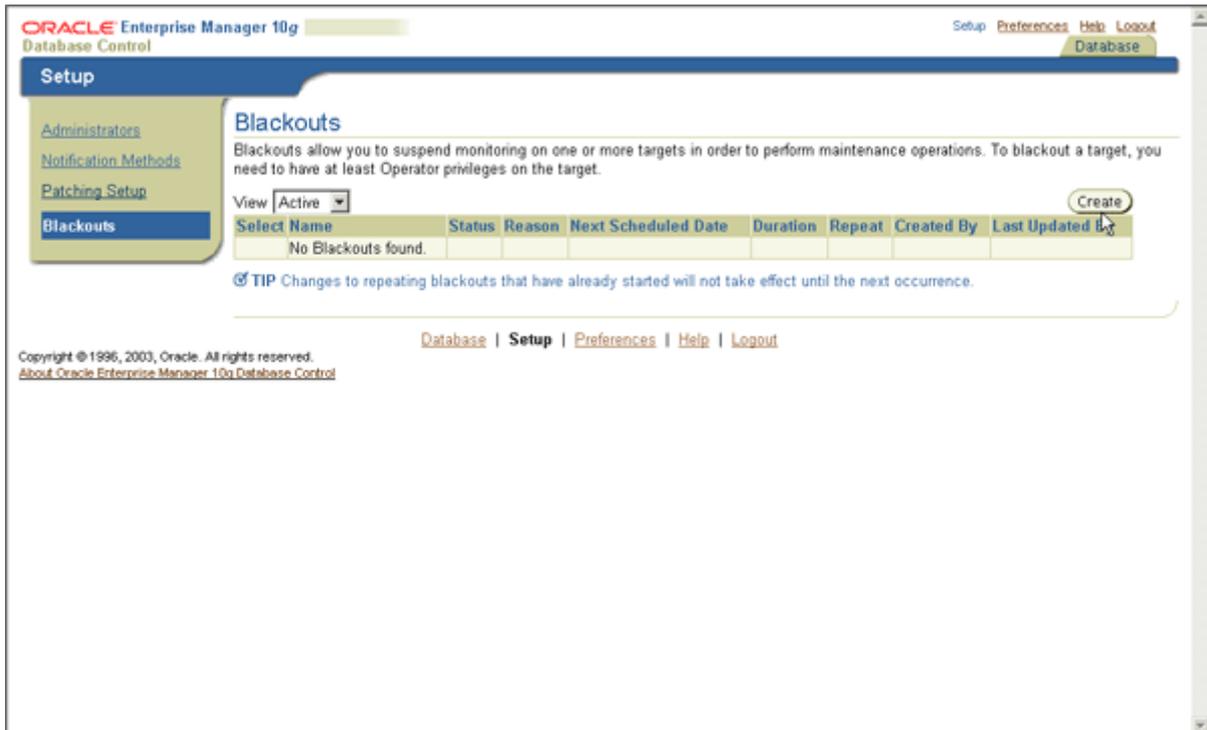
- 1、单击 Database Home 页面顶部的 Setup 。



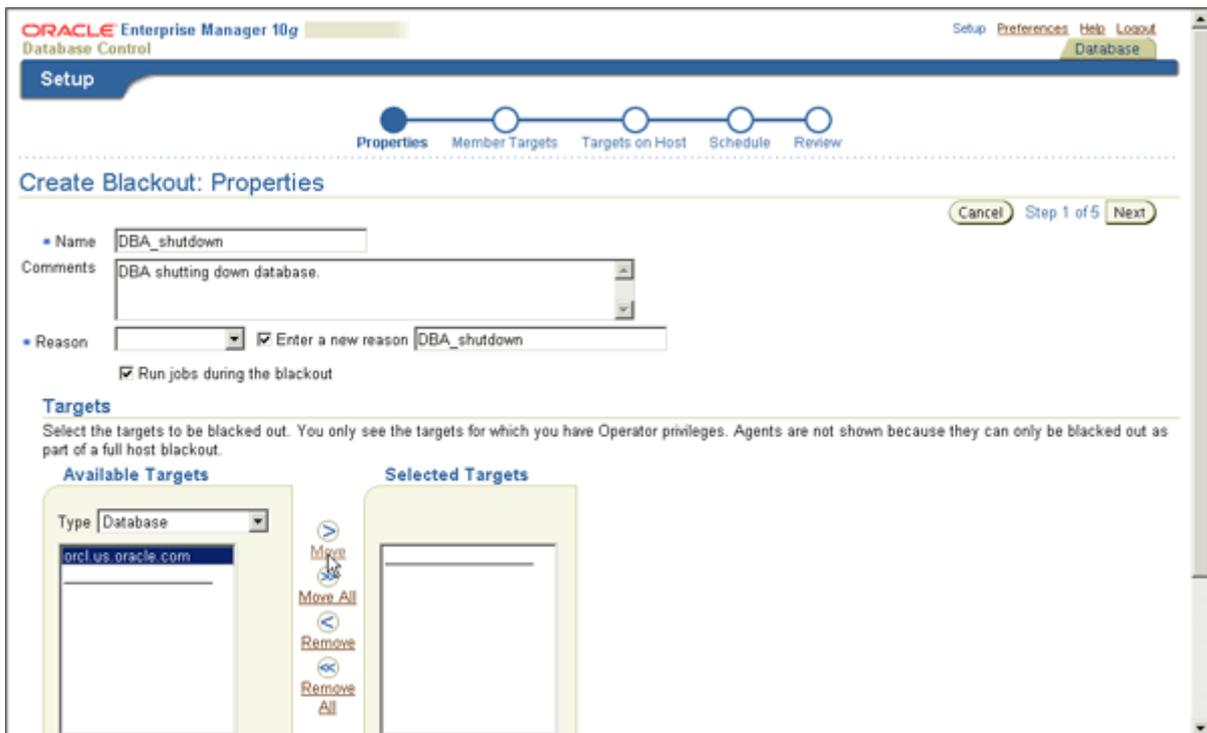
- 2、出现 Setup 页面。单击左边窗格中的 Blackouts 。



- 3、出现 Blackouts 页面。单击 Create ，启动 Create Blackout 向导。



4、在 Name 字段中为中断输入一个名称。您还可以在 Comments 字段（虽然它不是一个必需的字段）中添加注释。选择 Enter a new reason，为中断输入一个原因。在 Available Targets 区域中的 Type 下拉菜单中选择 Database。选择数据库，然后单击 Move。



5、您的数据库现在作为一个 Selected Target 列出。单击 Next。

The screenshot shows the 'Create Blackout: Properties' page in Oracle Enterprise Manager 10g. The breadcrumb trail at the top indicates the current step is 'Properties', with other steps being 'Member Targets', 'Targets on Host', 'Schedule', and 'Review'. The page title is 'Create Blackout: Properties'. On the right, there are navigation buttons: 'Cancel', 'Step 1 of 5', and 'Next'. The main form contains the following fields and options:

- Name:** DBA_shutdown
- Comments:** DBA shutting down database.
- Reason:** A dropdown menu is open, showing 'DBA_shutdown' as the selected option. There is a checkbox for 'Enter a new reason' which is checked.
- Run jobs during the blackout:** A checked checkbox.
- Targets:** A section with instructions: 'Select the targets to be blacked out. You only see the targets for which you have Operator privileges. Agents are not shown because they can only be blacked out as part of a full host blackout.' It features two panels: 'Available Targets' (with a 'Type' dropdown set to 'Database') and 'Selected Targets' (containing 'orcl.us.oracle.com'). Between the panels are buttons for 'Move', 'Move All', 'Remove', and 'Remove All'.

6、出现 Create Blackout:Schedule 页面。输入您计划的中断的开始时间，或者如果您要立即关闭数据库，则选择 immediately。选择中断的持续时间，可以是不确定、一段时间长度，或者为到将来的某个时间为止。接受默认的 "Do Not Repeat"，或在下拉菜单中选择一个重复频率。单击 Next。

The screenshot shows the 'Create Blackout: Schedule' page in Oracle Enterprise Manager 10g. The breadcrumb trail at the top indicates the current step is 'Schedule', with other steps being 'Properties', 'Member Targets', 'Targets on Host', and 'Review'. The page title is 'Create Blackout: Schedule'. On the right, there are navigation buttons: 'Cancel', 'Back', 'Step 4 of 5', and 'Next'. The main form contains the following fields and options:

- Time Zone:** GMT 08:00
- Start:** Radio buttons for 'Immediately' and 'Later'. 'Later' is selected. Fields for 'Date' (Jan 12, 2004) and 'Time' (11:00 AM) are present.
- Duration:** Radio buttons for 'Indefinite', 'Length', and 'Until'. 'Length' is selected. Fields for 'Hours' (4) and 'Minutes' (0) are present. There are also fields for 'Date' (Jan 12, 2004) and 'Time' (12:15 PM) for the 'Until' option.
- Repeating:** A dropdown menu set to 'Do Not Repeat'. A tip states: 'Once a blackout has started, the repeat type cannot be changed from repeating to non-repeating and vice versa.'

At the bottom, there are navigation buttons: 'Cancel', 'Back', 'Step 4 of 5', and 'Next'. The footer contains copyright information: 'Copyright © 1996, 2003, Oracle. All rights reserved. About Oracle Enterprise Manager 10g Database Control'.

7、出现 Create Blackout:Review 页面。仔细查看您输入的信息，然后单击 Finish。如果您需要修改某个设置，可以单击 Back。

ORACLE Enterprise Manager 10g Database Control

Setup Preferences Help Logout Database

Setup

Properties Member Targets Targets on Host Schedule Review

Create Blackout: Review

Cancel Back Step 5 of 5 Finish

Properties

Name: DBA_shutdown
Reason: DBA_shutdown
Comments: DBA shutting down database.
Run jobs during the blackout: Yes

Schedule

Time Zone: GMT-08:00
Start Date: Jan 12, 2004 11:00:00 PM
Duration: 4 Hours

Repeating

Repeat: Do Not Repeat

Selected Targets

Name	Type
orcl.us.oracle.com	Database

Cancel Back Step 5 of 5 Finish

8、接收到一条确认消息。

ORACLE Enterprise Manager 10g Database Control

Setup Preferences Help Logout Database

Setup

Administrators
Notification Methods
Patching Setup
Blackouts

Confirmation

Blackout DBA_shutdown created successfully

Blackouts

Blackouts allow you to suspend monitoring on one or more targets in order to perform maintenance operations. To blackout a target, you need to have at least Operator privileges on the target.

View: Active

Create Like Edit View Stop

Select	Name	Status	Reason	Next Scheduled Date	Duration	Repeat	Created By	Last Updated By
<input checked="" type="checkbox"/>	DBA_shutdown	Scheduled	DBA_shutdown	Jan 12, 2004 11:00:00 PM	4 Hours	Do Not Repeat	SYSMAN	SYSMAN

TIP Changes to repeating blackouts that have already started will not take effect until the next occurrence.

Database | Setup | Preferences | Help | Logout

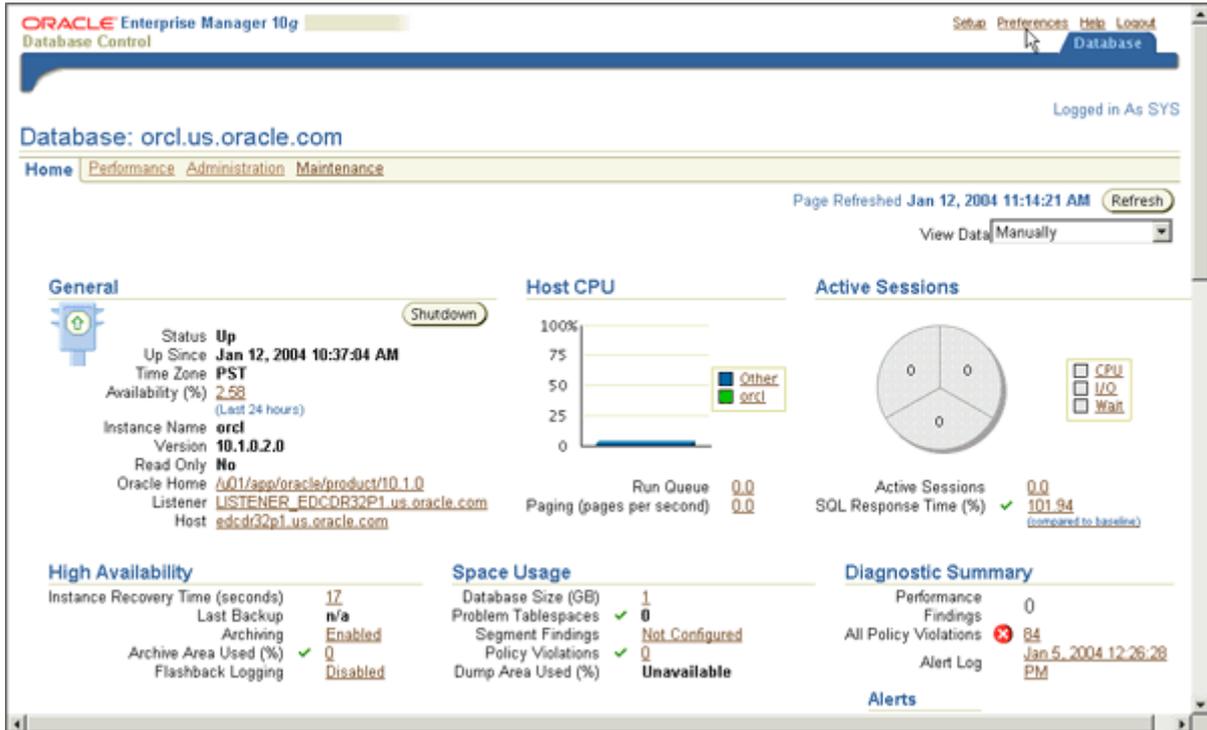
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About Oracle Enterprise Manager 10g Database Control

设置首选证书

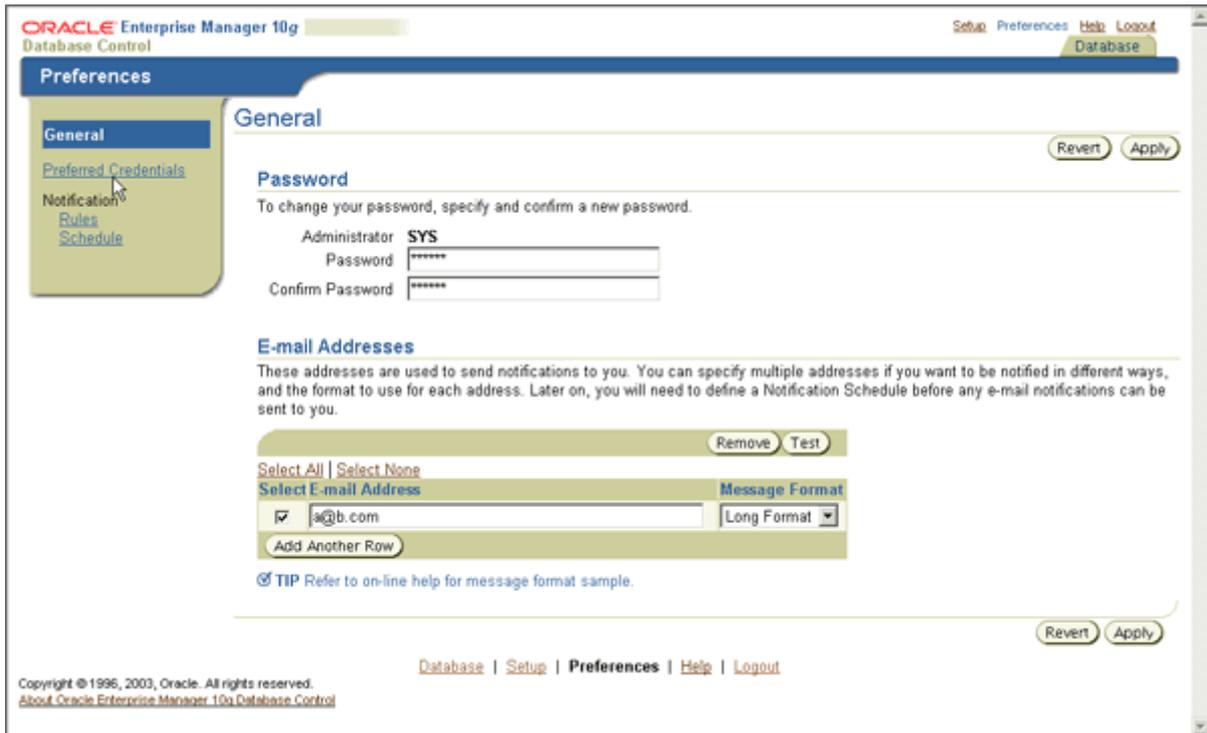
您可以设置首选证书，以便在您为执行管理操作（如备份和恢复）而安排作业和任务时，Enterprise Manager 能够为您自动提供主机和数据库登录证书。出于安全性的考虑，Oracle 以加密模式存储首选证书。

您可以通过执行以下步骤来在 Enterprise Manager Database Control 中设置首选证书：

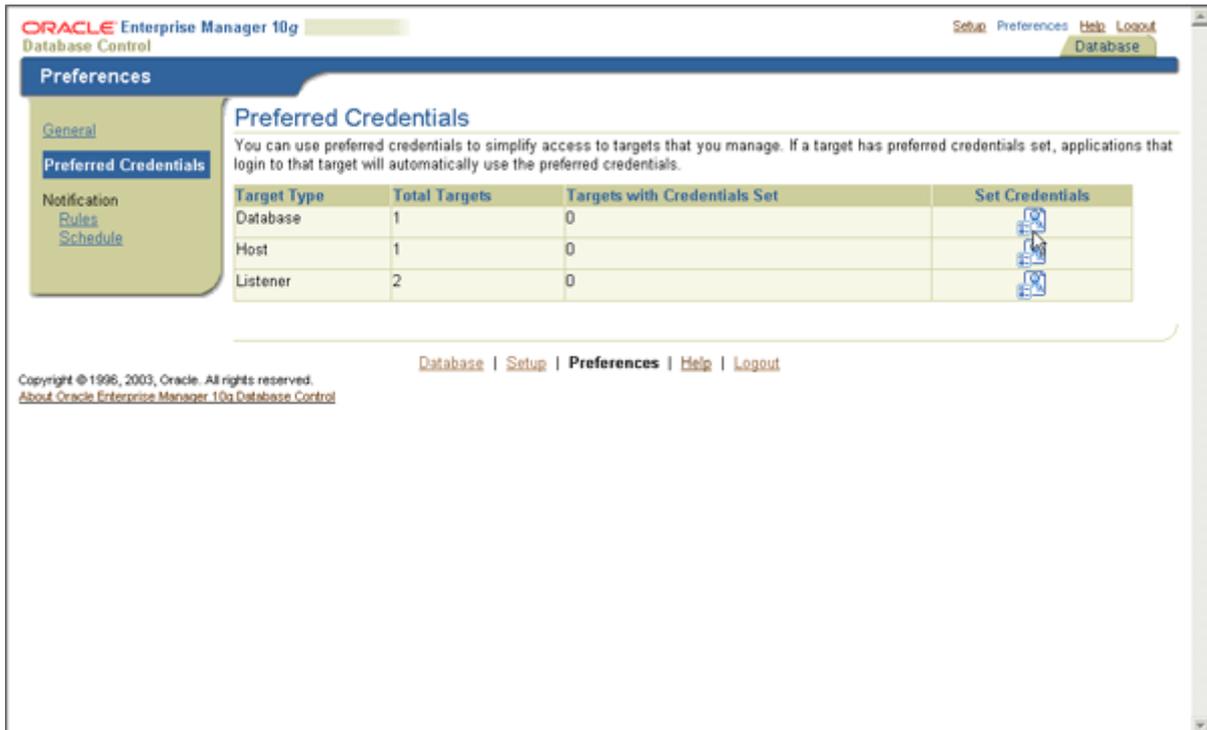
- 1、单击 Database Home 页面顶部的 Preferences 。



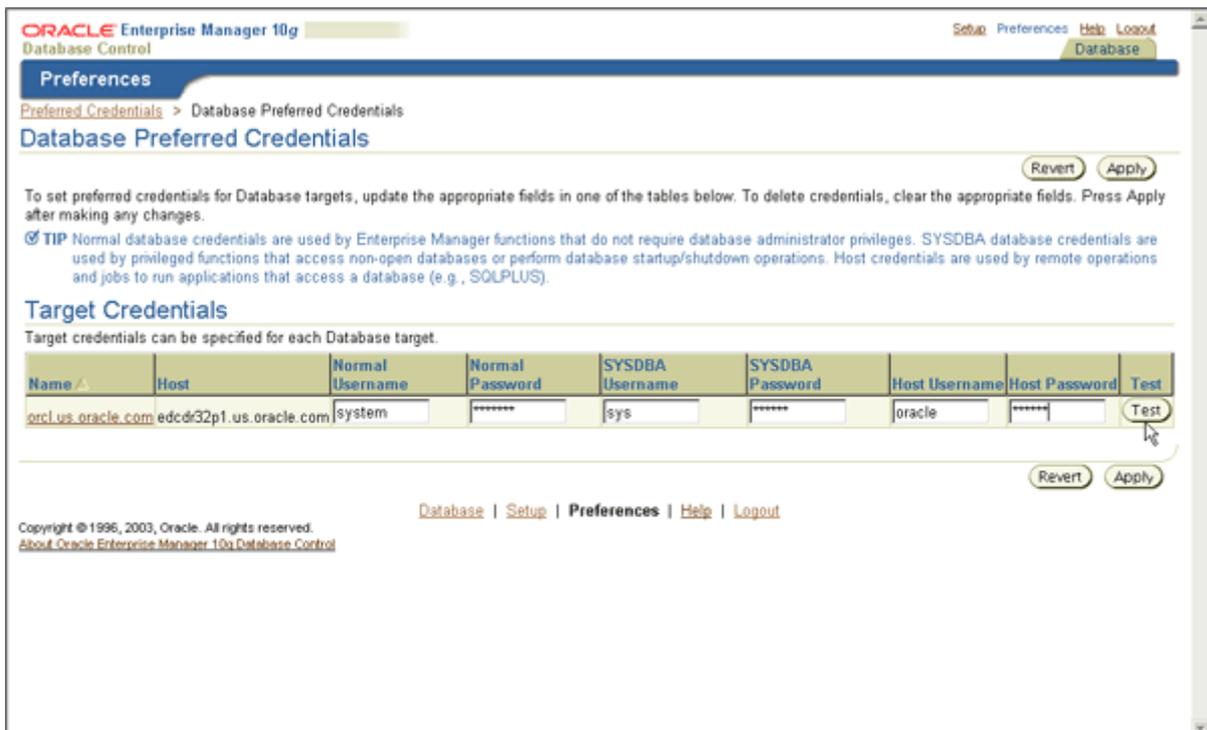
2、出现 Preferences 页面。单击左边窗格中的 Preferred Credentials 。



3、出现 Preferred Credentials 页面。单击数据库 Target Type 的 Set Credentials 下的图标。



4、出现 Database Preferred Credentials 页面。以 用户名 和 口令 的形式为普通、 SYSDBA 和主机连接输入证书。单击 Test 。



5、收到一条消息，确认证书验证完成。单击 Apply ，保存首选证书。

ORACLE Enterprise Manager 10g Database Control

Setup Preferences Help Logout Database

Preferences

Preferred Credentials > Database Preferred Credentials

i Information
Credentials successfully verified for database orcl.us.oracle.com.

Database Preferred Credentials

Revert Apply

To set preferred credentials for Database targets, update the appropriate fields in one of the tables below. To delete credentials, clear the appropriate fields. Press Apply after making any changes.

TIP Normal database credentials are used by Enterprise Manager functions that do not require database administrator privileges. SYSDBA database credentials are used by privileged functions that access non-open databases or perform database startup/shutdown operations. Host credentials are used by remote operations and jobs to run applications that access a database (e.g., SQLPLUS).

Target Credentials

Target credentials can be specified for each Database target.

Name	Host	Normal Username	Normal Password	SYSDBA Username	SYSDBA Password	Host Username	Host Password	Test
orcl.us.oracle.com	edcd32p1.us.oracle.com	system	*****	sys	*****	oracle	*****	Test

Revert Apply

Database | Setup | Preferences | Help | Logout

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About Oracle Enterprise Manager 10g Database Control

已完成