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。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 - TNYTPlus	Ľ
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	e
Oracle Enterprise Manager 10g Database Control Release 10.1.0.2.0	у
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@EDCDK32P1 oracle]\$	
	Ţ

2、您可以通过执行以下命令来检查 dbconsole 进程的状态: emctl status dbconsole

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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

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 Ma Database Control	anager 10G
Login	
Login to Database	e:orcl.us.oracle.com
* User Name	sys
* Password	*****
Connect As	SYSDBA
	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。

ORACLE Enterprise Manager 10g Database Control		Setue Preferences Hele Leasus Database
Database: orcl.us.oracle.com		Logged in As SYS
Home Performance Administration Maintenance		
		Page Refreshed Dec 19, 2003 10:32:46 AM (Refresh) View Data Manually
General Status Up Up Since Dec 18, 2003 12:33:27 PM Time Zone PST Availability (%) 100 (Lat 24 hours) Instance Name orcl Version 10.1.0.2.0 Read Only No Oracle Home (A01/app/oracle/product/10.1.0 Listener LISTENER EDCDR26P1 Host EDCDR25P1	Host CPU	Active Sessions
High Availability Instance Recovery Time (seconds) 8 Last Backup n/a Archiving Disabled Archive Area Used (%) n/a Flashback Logging Disabled	Space Usage Database Size (GB) 1 Problem Tablespaces 0 Segment Findings Not Configured Policy Violations 0 Dump Area Used (%) Unavailable	Diagnostic Summary Performance Findings All Policy Violations Alert Log Alerts Critical

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。

ORACLE Enterprise Ma Database Control	nager 10 <i>g</i> Setup Preferences Helo Logout Database
Setup	
Administrators	Search Go
Notification Methods	Administrators
Patching Setup	Administrators are database users who can login to Enterprise Manager to perform management tasks like set Blackouts, email notification schedules.
Blackouts	(Refresh) (Create)
	View Edit Delete
	Select Name
	SYS
	© SYSTEM



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 字段相邻的手电图标来从弹出窗口中选择一个现有的数据库用户。 单击 Finish 。



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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 。

RACLE Enterprise M atabase Control	inager 10g	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 man notification schedules.	nagement tasks like set Blackouts, email Refresh Create
4		(View) Edit) Delete)
	Select Name	
	SYS	
	O <u>SYSTEM</u>	
yright © 1996, 2003, Oracle. A <u>at Oracle Enterprise Manager</u> :	rights reserved. <u>Par Database</u> Setup <u>Proferences</u> <u>Help</u> <u>Logout</u> <u>Par Database Control</u>	

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

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ORACLE Enterprise Mar Database Control	nager 10 <i>g</i>				Setup	Preferences Help Losout Database
Setup						
Administrators Notification Methods Patching Setup	Blackouts Blackouts allow you to suspen need to have at least Operator	d monitoring on o privileges on the	ne or more targets in order target.	to perform mainte	nance operations.	To blackout a target, you
Blackouts	Select Name No Blackouts found.	Status Reason	Next Scheduled Date	Duration Repo	at Created By	Last Updated B
	CTIP Changes to repeating bl	ackouts that have	e already started will not tak	e effect until the r	ext occurrence.	
Copyright @ 1996, 2003, Cracle. All n About Oracle Enterprise Manager 10	Daf	(abase Setup	I Preferences I Help I La	290ut		

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 。

ORACLE Database (E Enterprise Manager Control	0g			Setup Preferences Help Logout Database
Setup		Properties M	ember Targets Targets on Hos	st Schedule Review	
Create	Blackout: Prope	ties			(Cancel) Step 1 of 5 Next)
 Name 	DBA_shutdown				
Comments	DBA shutting down dat	abase.	×		
Reason	<u>।</u> ज ज	Enter a new reason DBA s	hutdown		
Target	Run jobs during the	olackout			
Select th	e targets to be blacked o full host blackout.	t. You only see the targets	for which you have Operator pri	vileges. Agents are not shown	n because they can only be blacked out a
Avail	able Targets	Selected	Targets		
Type	Database 💌				
		More All C Remove Remove			

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



ORACLE Database C	E Enterprise Manager 10 Control	g			Setup Preferences Help Logout Database
Setup		Pro	operties Member Targets	Targets on Host Schedule Review	
Create I	Blackout: Propert	ies			
- Name	DBA, shutdown				Cancel Step 1 of 5 Next
Comments	DBA shutting down datab	ase.		X	
 Reason 		nter a new re	ason DBA_shutdown		
	Run jobs during the bla	ackout			
Targets Select the part of a f	s e targets to be blacked out. jull host blackout.	You only se	e the targets for which you h	ave Operator privileges. Agents are not shown beca	use they can only be blacked out as
Avail	able Targets		Selected Targets		
Туре [Database 💌	Nove Move All Remove	orci.us.oracle.com		
		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 。

ORACLE Enterprise Manager 10g Database Control	Setup Proferences Help Logout
Setup Properties Me	mber Targets Targets on Host Schedule Review
Create Blackout: Schedule Set up a schedule for the blackout using the targets timezone. If to occur simultaneously across all targets. Time Zone GMT 408:00	Cancel) (Back) Step 4 of 5 Next) argets span multiple timezones, you can select the timezone for the schedule, but the blackout w
Start	Duration
C Immediately € Later Date Jan 12, 2004 (example: Jan 12, 2004) Time 11 ■: 00 ■ C AM € PM	C Indefinite C Length 4 Hours 0 Minutes C Until Date Jan 12, 2004 (complex Jan 12, 2004) Time 12 15 C AM © PM C TIP Duration should be in Hours and Minutes for repeating blackouts.
Repeating Repeat Do Not Repeat TIP Once a blackout has started, the repeat type cannot be	changed from repeating to non-repeating and vice versa. (Cancel) Back Step 4 of 5 Next use Setup Preforences Help Lepout
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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。

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ORACLE Enterprise Mana Database Control	ger 10g	Setup Preferences Help Losout
Setup		
	Properties Member Targets Targets on Host Schedule Review	
Create Blackout: Re	view	
		(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 Dur	Date Jan 12, 2004 11:00:00 PM ation 4 Hours	
Repeating		
Re	Do Not Repeat	
Selected Targets		
Name	Туре	
orcl.us.oracle.com	Database	
		Court Court of Court
		Cancel Back Step 5 of 5 (Hinish)

8、接收到一条确认消息。

ORACLE Enterprise Ma Database Control	nager 10g	Setup	Preferences Help Logout Database	*
Setup				,
Administrators Notification Methods Patching Setup	Elackout DBA_shutdown created successfully.			
Blackouts	Blackouts			
	Blackouts allow you to suspend monitoring on one or more targets in order to perform maintenance ope need to have at least Operator privileges on the target.	erations. 1	ľo blackout a target, you	
	View Active		Create	
	Create Like	Edit)	View Stop	
	Select Name Status Reason Next Scheduled Date 🗸 Duration Repeat	Created By	Last Updated By	
	DBA_shutdown Scheduled DBA_shutdown Uan 12, 2004 11:00:00 4 Hours Do Not Separate Scheduled DBA_shutdown Uan 12, 2004 11:00:00 4 Hours Do Not Scheduled DBA_shutdown Uan 12, 2004 11:	SYSMAN	SYSMAN	
	Of TIP Changes to repeating blackouts that have already started will not take effect until the next occur	rence.		
Copyright © 1996, 2003, Oracle. All About Oracle Enterprise Manager 10	Database Setup Preferences Help Legout rights reserved. In 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 。

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Database: orcl us oracle com		Setue Preferences Hele Losout
Home Performance Administration Maintenance		
		Page Refreshed Jan 12, 2004 11:14:21 AM Refresh View Data Manually
General	Host CPU	Active Sessions
Status Up Up Since Jan 12, 2004 10:37:04 AM Time Zone PST Availability (%) 2.58 (Latt 24 hours) Instance Name orcl Version 10.1.0.2.0 Read Only No Oracle Home (<u>JUI/app/oracle/product/10.1.0</u>	000% 75 50 25 0 Run Queue 0.0	Active Sessions
Listener <u>LISTENER_EDCDR32P1.us.oracle</u> Host <u>edcdr32p1.us.oracle.com</u>	.com Paging (pages per second) 0.0	SQL Response Time (%) ✓ 101.94 (compared to baseline)
High Availability	Space Usage	Diagnostic Summary
Instance Recovery Time (seconds) <u>17</u> Last Backup n/a Archiving <u>Enabled</u> Archive Area Used (%) ✓ <u>0</u> Flashback Logging <u>Disabled</u>	Database Size (GB) 1 Problem Tablespaces V 0 Segment Findings Policy Violations V Q Dump Area Used (%) Unavailable	Performance 0 Findings 3 84 All Policy Violations 3 84 Jan 5, 2004 12:26:28 PM
4		Alerts

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

ORACLE Enterprise Ma Database Control	nager 10 <i>g</i>	1		Setup Preferences Help Losout Database	×
Preferences					
General Preferred Credentials Notification Rules Schedule	General Password To change your passw Administrator Password Confirm Password Confirm Password E-mail Addresses and the format to use sent to you.	word, specify and confirm a new passwor SYS ****** ****** S used to send notifications to you. You c for each address. Later on, you will nee	d. an specify multiple addresses if § to define a Notification Schedu Remnue Tert	(Revert) (Apply) you want to be notified in different ways, ule before any e-mail notifications can be	
Copyright @ 1996, 2003, Oracle: All About Cracle Enterprise Manager 10	Select All Select No Select E-mail Addre a@b.com Add Another Row TIP Refer to on-line ights reserved. In Database Control	ne ss help for message format sample. Database Setup Preferences	Message Format	(Revert) (Apply)	X

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

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pase control	anager 10 <i>g</i>			Setup Preferences Help Logout Database
references				
aneral referred Credentials	Preferred C You can use prefe login to that target	Credentials rred credentials to simplify t will automatically use the	access to targets that you manage. If a target h preferred credentials.	as preferred credentials set, applications tha
otification	Target Type	Total Targets	Targets with Credentials Set	Set Credentials
Rules	Database	1	0	24 - C
schedule	Host	1	0	
	Listener	2	0	R
ht © 1996, 2003, Oracle. A racle Enterprise Manager.	I rights reserved. I da Detabase Control	<u>Database</u> <u>Setu</u>	g Preferences Help Logout	
H ⊕ 1996, 2003, Oracle, A Iracle Enterprise Manager :	I rights reserved. IOa Detabase Control	<u>Database</u> <u>Set</u> u	ig Preferences <u>Heig</u> <u>Logout</u>	

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 。

ORACLE Enterprise Manager 10g	Preferences Help Logout
Preferences	
Preferred Credentials > Database Preferred Credentials	
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 ap after making any changes.	propriate fields. Press Apply
IP Normal database credentials are used by Enterprise Manager functions that do not require database administrator privileges. SYSDB used by privileged functions that access non-open databases or perform database startup/shutdown operations. Host credentials are and jobs to run applications that access a database (e.g., SQLPLUS).	A database credentials are used by remote operations
Target Credentials	
Target credentials can be specified for each Database target.	
Normal Normal SYSDBA SYSDBA Name △ Host Username Password Username Password Host Username	ame Host Password Test
orcl.us.oracie.com edcdr32p1.us.oracie.com system system sys	Test
	46
	Revert Apply
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	¥

5、收到一条消息,确认证书验证完成。单击 Apply,保存首选证书。

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ORACLE Enterprise Manager 10g Database Control	Setup Preferences Help Logout
Preferences	
Information	
(i) Information Credentials successfully verified for database and us aracle com	
Database Preferred Credentials	
To set preferred credentials for Database targets, update the appropriate fields in one of the tables below. To delete credentials, clear th after making any changes.	Revert Apply e appropriate fields. Press Apply
IP Normal database credentials are used by Enterprise Manager functions that do not require database administrator privileges. SY used by privileged functions that access non-open databases or perform database startup/shutdown operations. Host credentials and jobs to run applications that access a database (e.g., SOLPLUS).	SDBA database credentials are are used by remote operations
Target Credentials	
Target credentials can be specified for each Database target.	
Name A Host Normal Normal SYSDBA SYSDBA Name A Host Username Password Username Password Host Username	sername Host Password Test
orcl.us.oracle.com edcdr32p1.us.oracle.com system system sys oracle	Test
	(Revert) (Apply)
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