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Tujuan

Setelah menyelesaikan pelajaran ini Anda harus dapat melakukan hal berikut:

- Buat cadangan basis data yang konsisten
- Cadangkan basis data Anda tanpa mematikannya
- Buat cadangan tambahan
- Otomatiskan pencadangan basis data
- Pantau area pemulihan flash

Terminologi

- Strategi pencadangan dapat mencakup:
 - Seluruh database (keseluruhan)
 - Sebagian dari database (sebagian)
- Jenis cadangan mungkin:
 - Semua informasi dari semua file data (penuh)
 - Hanya informasi yang telah berubah sejak beberapa pencadangan sebelumnya (tambahan)
- Mode pencadangan mungkin:
 - Offline (konsisten, dingin)
 - Online (tidak konsisten, panas)



Terminologi

- Cadangan dapat disimpan sebagai:
 - Salinan gambar
 - Set cadangan

File Data #1

File Data #2

Berkas Data #3

Berkas Data #4

Berkas Data #5

Berkas Data #6

Salinan gambar

File Data #1	File Data #2
Berkas Data #3	Berkas Data #4
Berkas Data #5	Berkas Data #6

Kumpulan cadangan

Manajer Pemulihan (RMAN)

Enterprise Manager menggunakan Recovery Manager (RMAN) untuk melakukan operasi pencadangan dan pemulihan.

- Klien baris perintah untuk fungsi lanjutan
- Kontrol yang kuat dan bahasa scripting
- API yang diterbitkan yang memungkinkan antarmuka dengan perangkat lunak pencadangan paling populer
- Mencadangkan data, kontrol, log yang diarsipkan, dan file parameter server
- Mencadangkan file ke disk atau tape

Mengonfigurasi Pengaturan Cadangan

Configure Backup	Settings	
Device Backup Set Police	¥	
Disk Settings		
Parallelism	1	Test Disk Backup
	Concurrent streams to disk drives	
Disk Backup Location		
	An existing directory or diskgroup name where database files will be backed up. If you do not specify a location, database files will be backed up to the flash recovery area location.	
Disk Backup Type	Backup Set An Oracle proprietary format which has to be restored before use.	
	O Compressed Backup Set An Oracle proprietary format in compressed format which has to be restored before use.	
	○ Image Copy A bit-by-bit copy of database files that can be used as-is to perform recovery.	

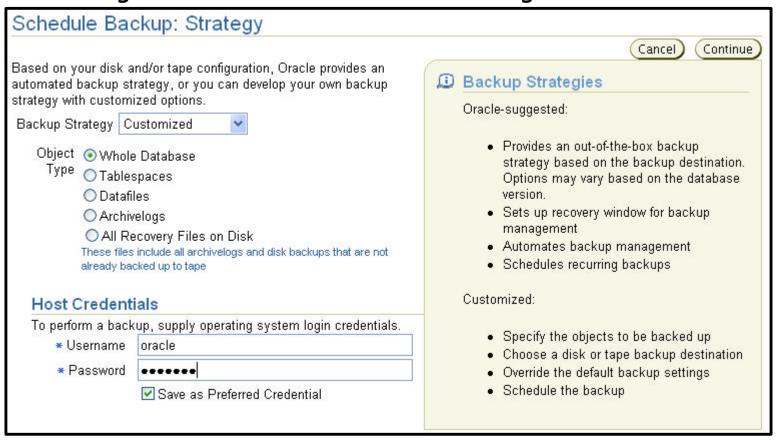
Host Credentials		
To save the backup settings, su	pply operating system login credentials.	
* Username		
* Password		
that the street his control of the	☑ Save as Preferred Credential	

Mengonfigurasi Pengaturan Cadangan

Backup Policy					
Automatically backup th	e control file and	server parameter file (SPFILE	E) with eve	ry backup and d	latabase structural
Autobackup Disk Location				6-	
		or diskgroup name where the co location, the files will be backed u			
Optimize the whole data been backed up	base backup by s	kipping unchanged files suc	h as read-	only and offline (datafiles that have
Enable block change tra	cking for faster in	cremental backups			
Block Change Tracking File		20			
		and file, otherwise an Oracle man	aged file will	be created in the o	database area.
Tablespaces Exclu	ded From Wh	ole Database Backup			
		ou want to exclude from a wh	nole databa	ase backup. Use	e the Add button to add
tablespaces to this table.	188 50				
				Add	
Select Tablespace Nar	ne	Tablespace Number	Status	Contents	
No Items Selecte					
▼ TIP These tablespaces	s can be backed u	ıp separately using tablespa	ce backup		
Retention Policy					
Retain All Backups					
You must manually delete any b	packups				
Retain backups that are	necessary for a r	ecovery to any time within th	e specified	Daγs	31
number of days (point-in-tim	ie recovery)	24 G		25	Recovery Window
 Retain at least the speci 	ified number of full	backups for each datafile		Backups	1
					Redundancy

Penjadwalan Pencadangan: Strategi

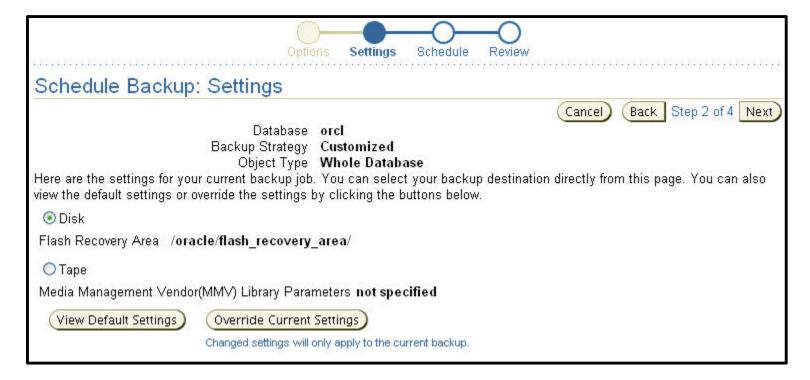
Pilih cadangan basis data keseluruhan atau sebagian.



Penjadwalan Pencadangan: Opsi

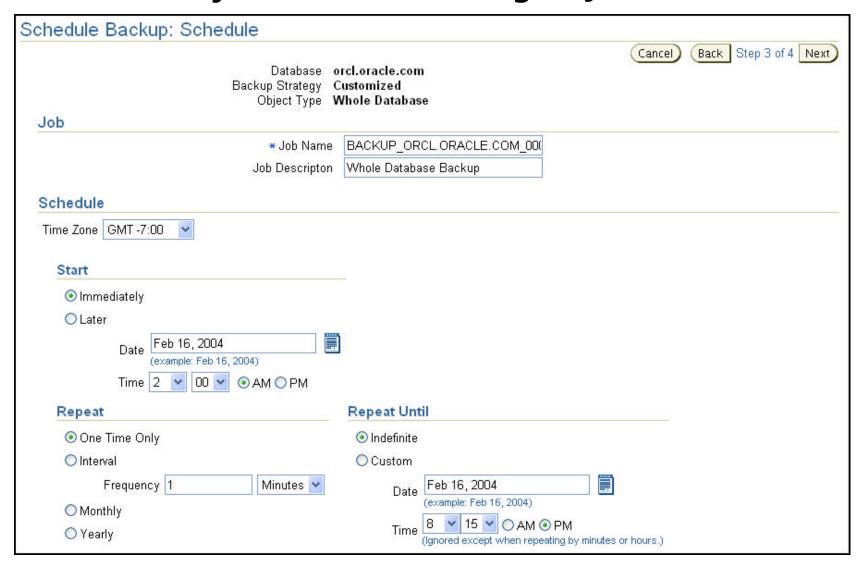
Backup Strategy Object Type	Customized Whole Database
Backup Type	
● Full Backup	
Use as the base of an incremental bac	ckup strategy
O Incremental Backup (Level 1) Level 1 incremental backup includes all the changed by	olocks since the most recent level 0 backup (cumulative).
Refresh the latest datafile copy on dis	k to the current time using the incremental backup
Backup Mode	
Online Backup The backup can be performed when the database is	OPEN.
Offline Backup If the database is OPEN at the time of backup, the dat the backup.	tabase will be shut down and mounted before the backup. The database will be opened after
Advanced	
☑ Back up all archived logs on disk	
Delete all archived logs from disk afte	r they are successfully backed up
Use proxy copy supported by media mail f proxy copy of the selected files is not supported, F	nagement software to perform a backup Recovery Manager will perform a conventional backup.
Delete obsolete backups Delete backups that are no longer needed to satisfy the satisfy t	the retention policy.
Maximum Files per Backup Set The maximur	m number of input files in each backup set.

Penjadwalan Pencadangan: Pengaturan

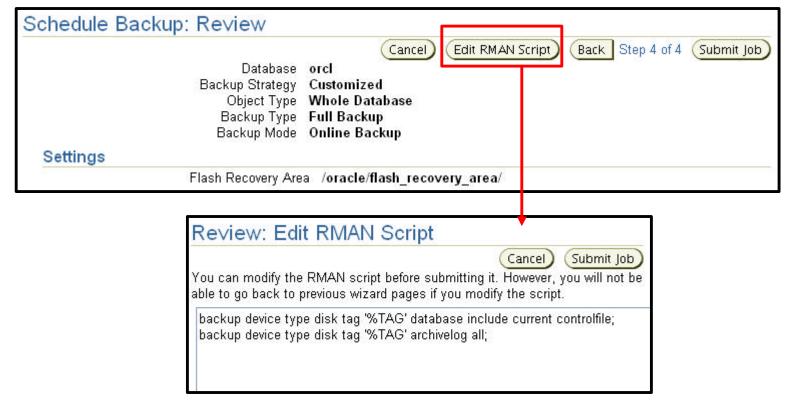


Pengaturan konfigurasi pencadangan persisten dapat diganti untuk pencadangan ini dengan mengeklik Ganti Pengaturan Saat Ini.

Penjadwalan Pencadangan: Jadwal

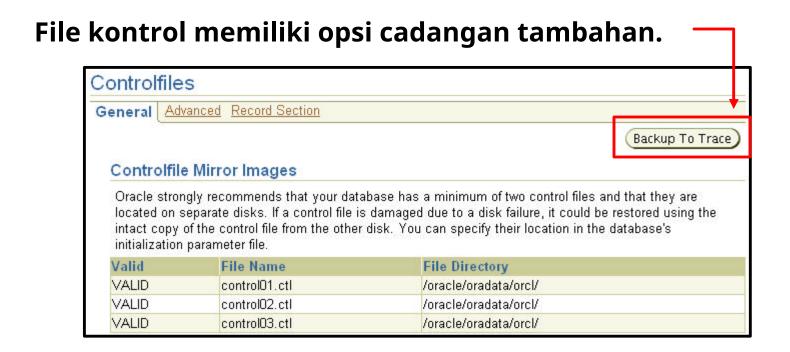


Penjadwalan Pencadangan: Tinjau



Klik Edit RMAN Script untuk meninjau perintah RMAN.

Cadangkan File Kontrol untuk Dilacak



Cadangan jejak file kontrol dapat digunakan untuk memulihkan dari hilangnya semua file kontrol.

Kelola Cadangan

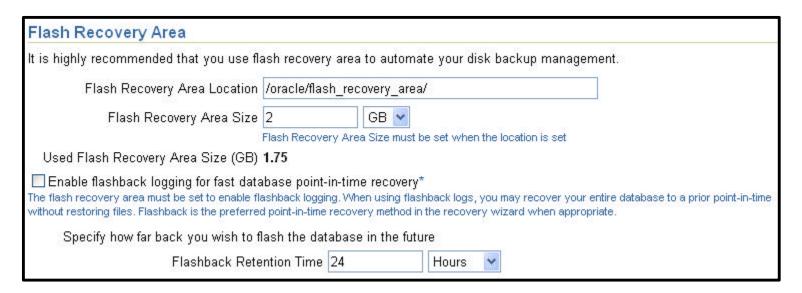
/lallaye	e Current Backups								
		Catalog Additi	onal Files	rosscheck All)	Delete	All Obsolete) (Delete	e All Ex	pired)
his backup	data was retrieved from the databa	se control file.		30000	*		50% x20		
Backup S	Sets Image Copies								
Search	ı								
	Status Available								
(Contents 🗹 Datafile 🗹 Archived Re	edo Log 🗹 SPFILE	E ☑ Control File	е					
Complet	ion Time Within a month 🔻	\$3,76900000 Consumer (1000000000000000000000000000000000000	(GO)						
8000 P. Peterson									
Result	s								
				Cro	sscheck	Change to	Unavailabl	e) De	lete)
Select A	All <u>Select None</u>			Cro	sscheck	Change to	Unavailabl	e De	lete)
	All Select None 	Compl	letion Time ▽		Device		Unavailabl Obsolete		
				Contents	Device Type		Obsolete		

Klik Edit RMAN Script untuk meninjau perintah RMAN.

Area Pemulihan Flash

Pantau Area Pemulihan Flash

- Konfigurasikan pencatatan kilas balik
- Ukuran area pemulihan
- Pantau konsumsi ruang saat ini



Ringkasan

Dalam pelajaran ini Anda seharusnya telah belajar bagaimana:

- Buat cadangan basis data yang konsisten
- Cadangkan basis data Anda tanpa mematikannya
- Buat cadangan tambahan
- Otomatiskan pencadangan basis data
- Pantau area pemulihan flash

Latihan 19: Cadangan Basis Data

Amalan ini mencakup hal-hal berikut:

- Mengonfigurasi basis data Anda untuk pencadangan
- Mencadangkan database Anda saat database terbuka untuk aktivitas pengguna
- Menjadwalkan pencadangan tambahan setiap malam secara otomatis untuk database Anda