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# Netkiller Database 手札

April 6, 2008

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文档出处: http://netkiller.sourceforge.net/ | http://netkiller.github.com

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下面是我多年积累下来的经验总结,整理成文档供大家参考:

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# 1. 内容简介

当前文档档容比较杂, 涉及内容广泛。

慢慢我会将其中章节拆成新文档.

文档内容简介:

- 1. Network
- 2. Security
- 3. Web Application
- 4. Database
- 5. Storage And Backup/Restore
- 6. Cluster
- 7. Developer

# 1.1. Audience(读者对象)

This book is intended primarily for Linux system administrators who are familiar with the following activities:

# Audience

- 1. Linux system administration procedures, including kernel configuration
- 2. Installation and configuration of cluster, such as load balancing, High Availability,
- 3. Installation and configuration of shared storage networks, such as Fibre Channel SANs
- 4. Installation and configuration of web server, such as apache, nginx, lighttpd, tomcat/resin ...

本文档的读者对象:

文档面向有所有读者。您可以选读您所需要的章节,无需全篇阅读,因为有些章节不一定对你有用,用得着就翻来看看,暂时用不到的可以不看.

大体分来读者可以分为几类:

- 1. 架构工程师
- 2. 系统管理员
- 3. 系统支持,部署工程师

不管是谁,做什么的,我希望通过阅读这篇文档都能对你有所帮助。

### 1.2. 写给读者

欢迎提出宝贵的建议,如有问题请到邮件列表讨论

为什么写这篇文章

有很多想法,工作中也用不到所以未能实现,所以想写出来,和大家分享.有一点写一点,写得也不好,只要能看懂就行,就当学习笔记了.

开始零零碎碎写过一些文档,也向维基百科供过稿,但维基经常被ZF封锁,后来发现sf.net可以提供主机存放文档,便做了迁移。并开始了我的写作生涯。

这篇文档是作者8年来对工作的总结,是作者一点一滴的积累起来的,有些笔记已经丢失, 所以并不完整。

因为工作太忙整理比较缓慢。目前的工作涉及面比较窄所以新文档比较少。

我现在花在技术上的时间越来越少,兴趣转向摄影,无线电。也想写写摄影方面的心得体会。

写作动力:

曾经在网上看到外国开源界对中国的评价,中国人对开源索取无度,但贡献却微乎其微.这句话一直记在我心中,发誓要为中国开源事业做我仅有的一点微薄贡献

另外写文档也是知识积累,还可以增加在圈内的影响力.

人跟动物的不同,就是人类可以把自己学习的经验教给下一代人.下一代在上一代的基础上再创新,不断积累才有今天.

所以我把自己的经验写出来,可以让经验传承

没有内容的章节:

目前我自己一人维护所有文档,写作时间有限,当我发现一个好主题就会加入到文档中,待我有时间再完善章节,所以你会发现很多章节是空无内容的.

文档目前几乎是流水帐试的写作,维护量很大,先将就着看吧.

我想到哪写到哪,你会发现文章没一个中心,今天这里写点,明天跳过本章写其它的.

文中例子绝对多,对喜欢复制然后粘贴朋友很有用,不用动手写,也省时间.

理论的东西,网上大把,我这里就不写了,需要可以去网上查.

我爱写错别字,还有一些是打错的,如果发现请指正.

文中大部分试验是在Debian/Ubuntu/Redhat AS上完成.

### 1.3. 获得文档

#### 1.3.1. PDF

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# 2. 作者简介

主页地址: http://netkiller.sourceforge.net, http://netkiller.github.com/

陈景峰(彳与 41ム にム)

Nickname: netkiller | English name: Neo chen | Nippon name: ちんけいほう (音訳) | Korean Thailand name:

IT民工, UNIX like Evangelist, 业余无线电爱好者 (呼号: BG7NYT), 户外运动以及摄影爱 好者。

《PostgreSQL实用实例参考》, 《Postfix 完整解决方案》, 《Netkiller Linux 手札》的作者 2001年来深圳进城打工,成为一名外来务工者.

2002年我发现不能埋头苦干,埋头搞技术是不对的,还要学会"做人".

2003年这年最惨,公司拖欠工资16000元,打过两次官司2005才付清.

2004年开始加入分布式计算团队,目前成绩

2004-10月开始玩户外和摄影

2005-6月成为中国无线电运动协会会员

2006年单身生活了这么多年,终于找到归宿.

2007物价上涨,金融危机,休息了4个月(其实是找不到工作)

2008终于找到英文学习方法,,《Netkiller Developer 手札》,《Netkiller Document 手札》

2008-8-8 08:08:08 结婚,后全家迁居湖南省常德市

2009《Netkiller Database 手札》,年底拿到C1驾照

2010对电子打击乐产生兴趣, 计划学习爵士鼓

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TM/QQ: 13721218 MSN: netkiller@msn.com

G Talk: 很少开 网易泡泡: 很少开

# 写给火腿:

欢迎无线电爱好者和我QSO,我的QTH在深圳宝安区龙华镇溪山美地12B7CD,设备YAESUFT-50R,FT-60R,FT-7800 144-430双段机,拉杆天线/GP天线 Nagoya MAG-79EL-3W/Yagi

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# 3. ORDBMS / OODBMS

下面数据库设计实例中,大部分使用MySQL,PostgreSQL为例

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鞋

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46.5

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```

49.5

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服装

内衣

文胸

A B B E E E D E

其他服装

F
XF
XXS
XS
S
M
L
XL
XXL
XXXL
XXXL
XXXXL

隐形眼镜

戒指

19

手机号码分配:

移动: 134, 135, 136, 137, 138, 139, 150, 151, 152, 157, 158, 159, 187, 188, 147, 182

联通: 130, 131, 132, 155, 156, 185, 186, 140

电信: 180, 159, 133, 153 , 189

中国电信发布中国3G号码段,中国联通185,186;中国移动188,187;中国电信189,180共6个号段。目前,3G业务专属的180-189号段已基本分配给各运营商使用,其中180、189分配给中国电信,187、188归中国移动使用,185、186属于新联通。

中国移动拥有号码段 为: 139、138、137、136、135、134、159、158、157(3G)、151、150、188(3G)、187(3G); 13个号段

中国联通拥有号码段为: 130、131、132、156 (3G)、186 (3G)、185 (3G); 6个号段

中国电信拥有号码段为: 133、153、189 (3G)、180 (3G); 4个号码段

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# 仅供参考

1. 数据字典

我比建议使用传统的《数据字典》,我的做法是E-R图加数据库注释

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# 2. 用户帐号表

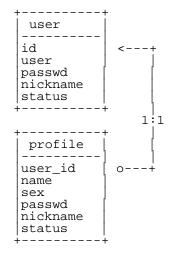
用户帐号或通行证系统设计, 下面以我的数库为例讲解。

我一般使用两个表 passport, profile 完成网站会员系统。

首先说说passport表,你也要以使用user或member等等命名,这个表设计尽可能地简单,不要使用过多字段。仅保存登录所必须用到的字段,如user,password,nickname,email... 登录帐号和密码做复合索引。

然后是profile表,这个表与passport是1:1关系,保存用户详细信息

这样设计可以保证海量用户登录时的速度。



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第1章RDBMS数据库设计

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3. 分类表设计

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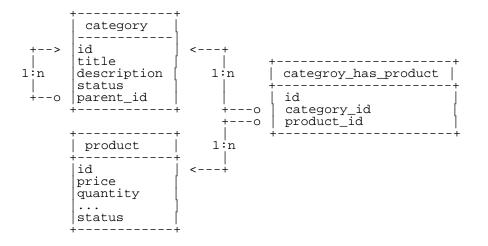
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# 3. 分类表设计

### 3.1. 树形分类表

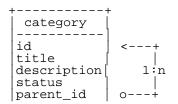
# 3.2. 多对多分类

多对多分类,主要用于满足,一个产品/文章属于多个分类的需求。



### 3.3. 快速检索子分类设计

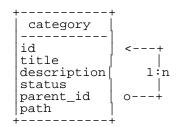
上面我刚刚讲过怎样实现"不限子树的分类树",我们可以实现不限层次的无线分类表。

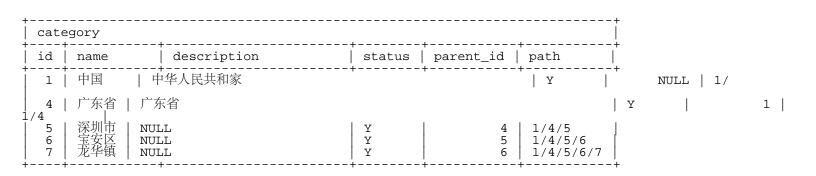


+----+

问题出来了,当我需要读取一个分类(任意分类)下的所有子分类,怎样实现,很多人会说用"递归"。当然"递归"可是现实我们的需求,在几百个分类的项目中,使用递归也不是不可以的,但是当数量非常庞大时怎么办?

当然有更好的解决方案,请看下面





insert into category(`name`,`description`,`status`,`parent\_id`,`path`) values('中国','中华人民共和家','Y',null,'1/')

ALTER TABLE `category`
ADD CONSTRAINT `FK\_category\_category` FOREIGN KEY (`parent\_id`) REFERENCES `category` (`id`)

### 抽取广东子树

select \* from category where path like '1/4%';

:	id	name		descripti	on	status	parent_	id	path	
+	4   5   6   7	广 宗 宗 宗 宗 宝 生 も 大 大 は 大 生 も 大 は に に に に に に に に に に に に に	一一方名 广东省 NULL NULL NULL	Î   Y	Y Y Y	+	1   1/4 4 5 6	1/4	4/5 4/5/6 4/5/6/7 +	

4 rows in set (0.00 sec)

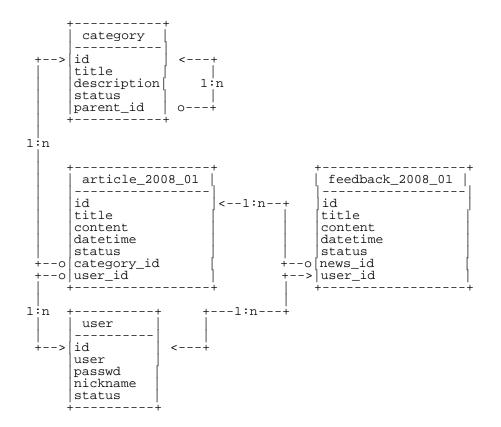
2. 用户帐号表 起始页 4. 文章表设计

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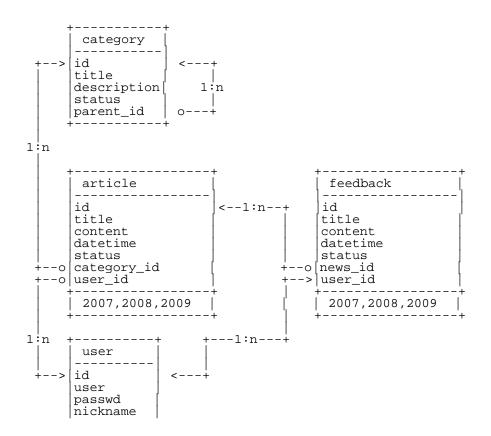
# 4. 文章表设计

看具体情况,拆分表,可按"日","月","年"等等



### 4.1. 分区表设计

分区表可以通过表空间,等等技术实现,优点是解决了Union查询问题,保证了数据的一致性。



	status											
4	⊦ –	_	_	_	_	_	_	_	_	_	+	

# 4.2. Title性能优化

显示title前20个汉字并在后尾添加省略号。

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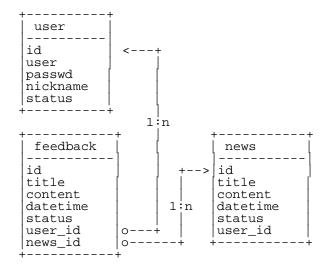
 3. 分类表设计
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 5. 评论表

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# 5. 评论表



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4. 文章表设计

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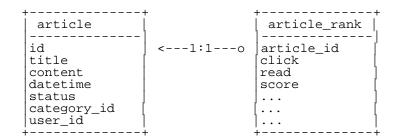
6. 记录点击率,阅读次数,及评分表

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6. 记录点击率,阅读次数,及评分表



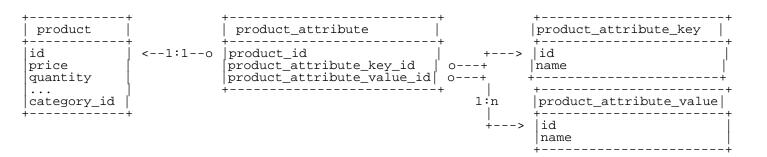
5. 评论表 起始页 7. 产品属性表

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# 7. 产品属性表

### 7.1. 简单实现



#### 7.2. 实现属性组管理

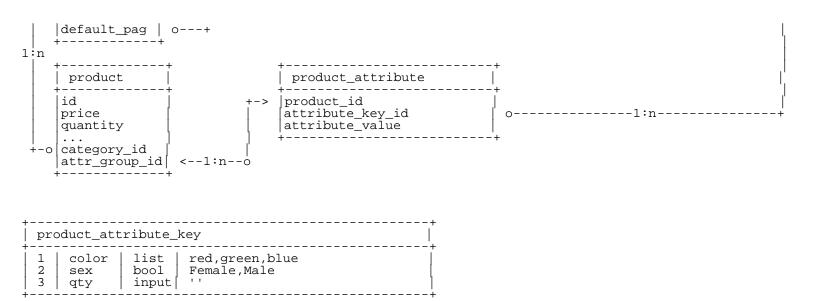
product attribute group

```
+-----
 category
                       | product_attribute_group
                                                           | product_attribute
product_attribute_key
id
                                                | <--1:n--o | product_attribute_group_id |</pre>
id
---> |id
title
|name
                name
                                                           |product_attribute_key_id | o---
description |
                1:1
                      Istatus
                                                           |product_attribute_value_id| o---
default_pag | o---+
+---> |id
name
```

#### 7.3. 可编辑属表

product attribute group

```
+-----
                               attribute_group
      category
                                                                  group_has_attribute
attribute_key
  ->|id
                              |id
                                                     | <--1:n--o | attribute_group_id</pre>
 |id
    title
                         |attribute_key_id
                               name
| description | 1:1 | sta
|type enum('Bool','List','Input')
| status | +---
                               Istatus
default array()
  |parent_id
```



6. 记录点击率,阅读次数,及评分表

起始页

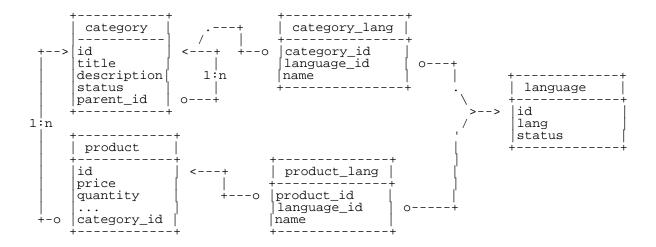
8. 国际化语言表

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# 8. 国际化语言表



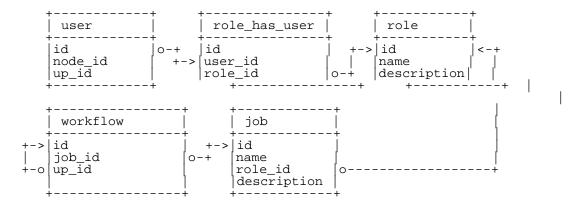
7. 产品属性表 <u>起始页</u> 9. Workflow

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# 9. Workflow



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8. 国际化语言表 起始页 10. 内容版本控制

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### 10. 内容版本控制

```
主表
```

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DELIMITER;

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9. Workflow

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11. Sharding

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### 11. Sharding

Sharding是近几年提出的概念,可以做分表,分库切割,通过hash值定位。但都存在一个问题,数据连续性,索引无法跨表。

Oracle 在8.x中就支持分区功能,MySQL在5.1.x中也是闲类似功能,PostgreSQL 因存储结构设计的较好,基本不需要做分区。

#### 11.1. horizontal

```
ALTER TABLE `goods` DROP INDEX `goods_sn_2`;

ALTER TABLE goods PARTITION BY RANGE (goods_id) (

PARTITION p0 VALUES LESS THAN (10000),

PARTITION p1 VALUES LESS THAN (20000),

PARTITION p2 VALUES LESS THAN (30000),

PARTITION p3 VALUES LESS THAN (40000),

PARTITION p4 VALUES LESS THAN MAXVALUE
);

ALTER TABLE goods PARTITION BY HASH(goods_id) PARTITIONS 10;

ALTER TABLE goods PARTITION BY KEY (is_on_sale) PARTITIONS 2;

ALTER TABLE goods PARTITION BY HASH(YEAR(FROM_UNIXTIME(add_time))) PARTITIONS 4;
```

11.2. vertical

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10. 内容版本控制

第2章 Hierarchical Database Management

System

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# 第 2 章 Hierarchical Database Management System

目录

- 1. User And Profile
- 2. Category
- 3. Article
- 4. Product and ProductAttribute
- 5. Address
- 6. 练习

Comment="A column family with supercolumns, whose column and subcolumn names are UTF8 strings"/>

### 1. User And Profile

</Keyspace>

</Keyspaces>

```
### Example.User['neo']['uuid']='b5ac78c3-fd5c-40ca-acc2-04d483052fc4'
### set Example.User('neo']['name']='neo'
### set Example.User('neo']['passwd']='mNBhMPAH'
### set Example.User('neo']['email']='openunix@163.com'
### set Example.User('neo']['status']='Y'
### get Example.User('neo']
### set Example.User('jam']['uuid']='8e07adbd-2dea-40d0-a822-5909f14f9ba2'
### set Example.User('jam']['name']='jam'
### set Example.User('jam']['passwd']='mNBhMPAH'
### set Example.User('jam']['email']='t1@163.com'
### set Example.User('jam']['status']='Y'
### get Example.User('jam']

### set Example.User('jam')

### set Example.User
```

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2. Category

11. Sharding

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### 2. Category

set Example.Category['85c1acb3-dc81-4626-aea9-c153dc80e74f']['uuid'] = '85c1acb3-dc81-4626-aea9-c153dc80e74f']['name'] = '中国' set Example.Category['85c1acb3-dc81-4626-aea9-c153dc80e74f']['name'] = '中国' set Example.Category['85c1acb3-dc81-4626-aea9-c153dc80e74f']['description'] = '中华人民共和国' set Example.Category['002f7fd4-455a-4f16-9cc8-38a43f9d285c']['uuid'] = '002f7fd4-455a-4f16-9cc8-38a43f9d285c']['name'] = '广东' set Example.Category['002f7fd4-455a-4f16-9cc8-38a43f9d285c']['description'] = '广东省' set Example.Category['002f7fd4-455a-4f16-9cc8-38a43f9d285c']['parent\_uuid'] = '85c1acb3-dc81-4626-aea9-c153dc80e74f'
get Example.Category['002f7fd4-455a-4f16-9cc8-38a43f9d285c']

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第2章 Hierarchical Database Management

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3. Article

System

第 2 章 Hierarchical Database Management System

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#### 3. Article

set Example.Article['862f0f17-a697-49b3-9bca-68b0cfc873ec']['uuid'] = '862f0f17-a697-49b3-9bca-68b0cfc873ec'] set Example.Article['862f0f17-a697-49b3-9bca-68b0cfc873ec']['title'] = '文章标题' set Example.Article['862f0f17-a697-49b3-9bca-68b0cfc873ec']['content'] = '文章内容' set Example.Article['862f0f17-a697-49b3-9bca-68b0cfc873ec']['author'] = 'Neo' set Example.Article['862f0f17-a697-49b3-9bca-68b0cfc873ec']['datetime'] = '2010-5-10 12:00:00' get Example.Article['862f0f17-a697-49b3-9bca-68b0cfc873ec']

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2. Category

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4. Product and ProductAttribute

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#### 4. Product and ProductAttribute

#### Product data

```
da60005ec081
set Example.Product['b12e97e1-63b4-4042-a3f2-da60005ec081']['name'] = 'Dell Optiplex 780' set Example.Product['b12e97e1-63b4-4042-a3f2-da60005ec081']['description'] = 'Dell Computer' set Example.Product['b12e97e1-63b4-4042-a3f2-da60005ec081']['price'] = '5000' set Example.Product['b12e97e1-63b4-4042-a3f2-da60005ec081']['image'] = '/www/images/dell780.jpg' set Example.Product['b12e97e1-63b4-4042-a3f2-da60005ec081']['category_uuid'] = 'b12e97e1-63b4-4042-a3f2-da60005ec081']
4042-a3f2-da60005ec081
get Example.Product['b12e97e1-63b4-4042-a3f2-da60005ec081']
product attribute
set Example.ProductAttribute['b12e97e1-63b4-4042-a3f2-da60005ec081']['color']['box'] = 'sil
set Example.ProductAttribute['b12e97e1-63b4-4042-a3f2-da60005ec081']['color']['display'] =
set Example.ProductAttribute['b12e97e1-63b4-4042-a3f2-da60005ec081']['monitor']['size'] =
                                                                                                                                                                      'silver'
                                                                                                                                                                              'black'
 '1440*900'
set Example.ProductAttribute['b12e97e1-63b4-4042-a3f2-da60005ec081']['monitor']['power'] = '12v' set Example.ProductAttribute['b12e97e1-63b4-4042-a3f2-da60005ec081']['parameter']['process'] = 'Intel(R) Core(TM)2 Duo CPU E7500 @ 2.93Ghz' set Example.ProductAttribute['b12e97e1-63b4-4042-a3f2-da60005ec081']['parameter']['memory'] =
'2GB'
set Example.ProductAttribute['b12e97e1-63b4-4042-a3f2-da60005ec081']['parameter']['harddisk'] =
'360GB'
set Example.ProductAttribute['b12e97e1-63b4-4042-a3f2-da60005ec081']['parameter']['disc'] = 'DVD
RW'
set Example.ProductAttribute['b12e97e1-63b4-4042-a3f2-da60005ec081']['software']['os'] = 'Windows
set Example.ProductAttribute['b12e97e1-63b4-4042-a3f2-da60005ec081']['software']['compress'] =
'7zip'
      Example.ProductAttribute['b12e97e1-63b4-4042-a3f2-da60005ec081']['software']['media'] =
'Kmplay
```

set Example.Product['b12e97e1-63b4-4042-a3f2-da60005ec081']['uuid'] = 'b12e97e1-63b4-4042-a3f2-

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 3. Article
 起始页
 5. Address

set Example.ProductAttribute['b12e97e1-63b4-4042-a3f2-da60005ec081']['software']['qame'] = 'mine'

get Example.ProductAttribute['b12e97e1-63b4-4042-a3f2-da60005ec081']

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# 5. Address

set	Example.Address['b5ac78c3-fd5c-40ca-acc2-04d483052fc4']['home']['street']='Longhua' Example.Address['b5ac78c3-fd5c-40ca-acc2-04d483052fc4']['home']['city']='Shenzhen' Example.Address['b5ac78c3-fd5c-40ca-acc2-04d483052fc4']['home']['zip']='518000'
set	$\label{lem:condition}                                    $
get	Example.Address['b5ac78c3-fd5c-40ca-acc2-04d483052fc4']

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4. Product and ProductAttribute <u>起始页</u> 6. 练习

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# 6. 练习

division
id
name
country\_id

department
id
name
up\_id
path

division\_has\_department

employee
id
ename
name
sex
age
department\_id

devices
name
sn

devices\_attribute

employee\_has\_devices
employee\_id
devices\_id

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# 第3章 ORDBMS / OODBMS

对象相关数据库管理系统(ORDBMS Object - Oriented Relative DBMS)

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6. 练习

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- 2.7. 禁用TCP/IP链接
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- 3.2. Slave
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# 4. MySQL CLuster

- 4.1. Management node (MGM node)
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```
4.6. Testing
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                  6.1.2. show master status
            6.2. Analysis and Optimization
                  6.2.1. mytop - top like query monitor for MySQL
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                  6.2.3. innotop
                  6.2.4. mysqlreport
            6.3. Munin
            6.4. Cacti
            6.5. Monitoring MySQL with SNMP
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           1.1. ~/.my.cnf
           1.2. 终端编码
            1.3. Unix Socket
            1.4. 重定向巧用
      2. mysqldump - a database backup program
      3. mysqladmin - client for administering a MySQL server
            3.1. status
            3.2. process list
      4. myisamchk — MyISAM Table-Maintenance Utility
      5. mysqlcheck — A Table Maintenance and Repair Program
      6. mysqlslap - load emulation client
      7. mysqldumpslow - Parse and summarize the MySQL slow query log.
7. Database Administration
      1. User Account Management
            1.1. Create User
```

	1.2. Drop User
	1.3. Rename User
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<u>2.</u>	Access Privilege System
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	2.2. Revoke privileges
	2.3. Show Privileges
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<u>4.</u>	当前数据
8. DDL	- Data Definition Language
1.	<u>Database</u>
	1.1. create
	1.2. drop
	1.3. Alter
	1.4. Rename
<u>2.</u>	<u>Table</u>
	2.1. create table select
	2.2. modifiy table
	2.3. TEMPORARY Table
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<u>6.</u>	<u>Trigger</u>
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```
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     2. replace
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                5.2.1. LEFT/RIGHT
                5.2.2. RPAD/LPAD
                5.2.3. CONCAT
                 5.2.4. replace
           5.3. Data and Time
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     2. ODBC
     3. MySQL native driver for PHP - mysqlnd
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     1. HeidiSQL
     2. Toad for MySQL Freeware
     3. phpMyAdmin - MySQL web administration tool
     4. Maatkit Essential command-line utilities for MySQL
12. FAO
     1. 数据库内容替换
     2. 查看错误代码
```

```
4. 临时表是否需要建索引
```

```
13. HandlerSocket
```

14. MariaDB

```
1. Import / Export (Backup and Recovery)
```

```
1.1. Export(Backup)
mysqldump - hlocalhost - proot - p**** mydb > mydb.sql
gzip
mysqldump -hlocalhost -proot -p**** mydb | gzip > mydb.sql.gz
1.2. Import(Recovery)
mysql -hlocalhost -proot -p**** mydb < mydb.sql</pre>
gunzip
gunzip mydb.sql.gz -c | mysql -hlocalhost -proot -p**** mydb
1.3. xml
export xml
$ mysqldump -uusrname -ppasswd -X -t database table -r filename.xml
1.4. 备份表数据
SELECT * INTO OUTFILE 'file_name' FROM tbl_name LOAD DATA INFILE 'file_name' REPLACE INTO TABLE tbl_name
1.5. source
mysql> use your_db
mysql> SOURCE database.sql
1.6. 使用 mysqlhotcopy 备份 MyISAM 引擎的数据库
shell> mysqlhotcopy db_name /path/to/some/dir
```

mysql:~# mysqlhotcopy --user=neo --password=chen shop /tmp/backup
Locked 100 tables in 0 seconds.
Flushed tables (`shop`.`account\_log`, `shop`.`ad`, `shop`.`ad\_custom`, `shop`.`ad\_position`,
`shop`.`admin\_action`,

# 1.7. AutoMySQLBackup

https://sourceforge.net/projects/automysqlbackup/

1.8. xtrabackup - Open source backup tool for InnoDB and XtraDB.

https://launchpad.net/percona-xtrabackup

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#### 5. Security

```
6. Monitoring
```

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6.1.1. show status

6.1.2. show master status

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6.2.2. mtop - MySQL terminal based query monitor

6.2.3. innotop

6.2.4. mysqlreport

6.3. Munin

6.4. Cacti

6.5. Monitoring MySQL with SNMP

# 1. MySQL Installation

http://downloads.mysql.com/archives.php

1.1. Installation by apt-get under debian/ubuntu

安装环境 ubuntu 8.10

sudo apt-get install mysql-server

New password for the MySQL "root" user

```
While not mandatory, it is highly recommended that you set a password for the MySQL administrative "root" user.

If that field is left blank, the password will not be changed.

| New password for the MySQL "root" user:
```

Repeat password for the MySQL "root" user

```
Configuring mysql-server-5.0 Repeat password for the MySQL "root" user:
```

create database

--without-blackhole --without-ibmdb2i --without-federated --without-example

```
create database example;
mysql> SHOW GRANTS;
      .....
   -----+
  Grants for root@localhost
 GRANT ALL PRIVILEGES ON *.* TO 'root'@'localhost' IDENTIFIED BY PASSWORD *C6325DAF39AE6CC34E960D3C65F1398FE467E1D0' WITH GRANT OPTION |
1 row in set (0.00 sec)
GRANT ALL PRIVILEGES ON example.* TO 'dbuser'@'localhost' IDENTIFIED BY '*****' WITH GRANT
OPTION;
FLUSH PRIVILEGES;
 /mysql -udbuser -p
Enter password:
./mysql -udbuser -p example < /tmp/example_china_copy.sql</pre>
 /mysql -uroot
Welcome to the MySQL monitor. Commands en
Your MySQL connection id is 6
Server version: 5.0.45 Source distribution
                                      Commands end with ; or \g.
Type 'help;' or '\h' for help. Type '\c' to clear the buffer.
mysql> use example;
Database changed
mysql> show tables;
配置文件样本
my-huge.cnf.gz my-innodb-heavy-4G.cnf.gz my-large.cnf.gz my-medium.cnf.gz my-small.cnf ndb_mgmd.cnf
1.2. Installation by source code
./configure \
--prefix=/usr/local/$MYSQL_DIR \
--enable-assembler \
--enable-local-infile \
--with-charset=utf8 \
--with-collation=utf8_general_ci \
--with-extra-charsets=none
--with-openssl
--with-pthread
--with-pthread \
--with-unix-socket-path=/var/lib/mysql/mysql.sock \
--with-mysqld-user=mysql \
--with-mysqld-ldflags \
--with-client-ldflags \
--with-comment
--with-big-tables \
--without-ndb-debug \
--without-docs
--without-debug
--without-bench
make && make install
/usr/local/$MYSQL_DIR/bin/mysql_install_db
other option
--without-isam
--without-innodb
--without-ndbcluster
```

```
--without-comment
--localstatedir=/usr/local/mysql/data
```

#### 1.3. MySQL binary distribution

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```
shell> groupadd mysql
shell> useradd -g mysql mysql
shell> cd /usr/local
shell> cd /usr/local
shell> gunzip < /path/to/mysql-VERSION-OS.tar.gz | tar xvf -
shell> ln -s full-path-to-mysql-VERSION-OS mysql
shell> cd mysql
shell> chown -R mysql .
shell> cdsrp -R mysql .
shell> chigrp R mysql .
shell> scripts/mysql_install_db --user=mysql
shell> chown -R root .
shell> chown -R mysql data
shell> bin/mysqld_safe --user=mysql &
install core database
[root@test mysql]# ./scripts/mysql_install_db Installing MySQL system tables... 100428 23:16:20 [Warning] '--skip-locking' is deprecated and will be removed in a future release. Please use '--skip-external-locking' instead.
Filling help tables...
100428 23:16:20 [Warning] '--skip-locking' is deprecated and will be removed in a future release.
Please use '--skip-external-locking' instead.
To start mysqld at boot time you have to copy support-files/mysql.server to the right place for your system
PLEASE REMEMBER TO SET A PASSWORD FOR THE MySQL root USER ! To do so, start the server, then issue the following commands:
./bin/mysqladmin -u root password 'new-password' ./bin/mysqladmin -u root -h db.example.com password 'new-password'
Alternatively you can run: ./bin/mysql_secure_installation
which will also give you the option of removing the test databases and anonymous user created by default. This is strongly recommended for production servers.
See the manual for more instructions.
You can start the MySQL daemon with: cd . ; ./bin/mysqld_safe \&
You can test the MySQL daemon with mysql-test-run.pl cd ./mysql-test ; perl mysql-test-run.pl
Please report any problems with the ./bin/mysqlbug script!
set root's password
[root@test mysql]# cp support-files/mysql.server /etc/init.d/mysqld
[root@test mysql]# /etc/init.d/mysqld start
                                                                                                               [ OK ]
Starting MySQL.
[root@test mysql]# ./bin/mysqladmin -u root password 'chen'
[root@test mysql]# ./bin/mysqladmin -u root -h db.example.com password 'chen'
test
[root@test mysql]# ./bin/mysql -uroot -pchen Welcome to the MySQL monitor. Commands end with ; Your MySQL connection id is 3 Server version: 5.1.45 MySQL Community Server (GPL)
                                                         Commands end with ; or \g.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
mysql>
```

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# 2. my.cnf

#### 2.1. Configuring Database Character Encoding

mysql> SHOW VARIABLES LIKE 'character\_set\_%';

8 rows in set (0.00 sec)

Server Character Set and Collation

\$ vim /etc/mysql/my.cnf

```
[mysqld]
default-character-set=utf8
init_connect='SET NAMES utf8'
[client]
default-character-set=utf8
```

mysql --default-character-set=utf8 -u root -p

mysql> show variables like 'character%';

Variable_name	Value
character_set_client character_set_connection character_set_database character_set_filesystem character_set_results character_set_server character_set_system character_sets_dir	<pre>utf8 utf8 utf8 utf8 binary utf8 utf8 utf8 utf8 utf8 utf8 /usr/share/mysql/charsets/</pre>

8 rows in set (0.00 sec)

#### 2.2. max\_connections

```
[mysqld]
max_connections=250
```

#### 2.3. storage-engine

```
[mysqld]
default-storage-engine=INNODB
```

mysqladmin --user=root --password reload

2.5. max\_allowed\_packet

max\_allowed\_packet=500M

2.6. skip-name-resolve

# 跳过域名解析

# vim /etc/mysql/my.cnf

[mysqld]
skip-external-locking
skip-name-resolve

# MySQL 登录缓慢,大量用户排队等待

# mysql> SHOW FULL PROCESSLIST;

11	iysqı>	SHOW FULL PROCESSLIST,	+		<b>.</b>	L		4
-	 Id	+ User	Host	db	Command	Time	State	Info
- 	 718	+ unauthenticated user	192.168.3.124:42075	NULL	Connect	· NULL	login	NULL
	719	unauthenticated user	192.168.3.124:42073	NULL	Connect	NULL	login	NULL
	720	unauthenticated user	192.168.3.124:42074	NULL	Connect	NULL	login	NULL
	721	unauthenticated user	192.168.3.124:42077	NULL	Connect	NULL	login	NULL
	722	unauthenticated user	192.168.3.124:42076	NULL	Connect	NULL	login	NULL
	723	unauthenticated user	192.168.3.124:42079	NULL	Connect	NULL	login	NULL
	724	unauthenticated user	192.168.3.124:42078	NULL	Connect	NULL	login	NULL
	725	unauthenticated user	192.168.3.124:42081	NULL	Connect	NULL	login	NULL
	726	unauthenticated user	192.168.3.124:42080	NULL	Connect	NULL	login	NULL
	727	unauthenticated user	192.168.3.124:42082	NULL	Connect	NULL	login	NULL
	728	unauthenticated user	192.168.3.124:42083	NULL	Connect	NULL	login	NULL
	729	unauthenticated user	192.168.3.124:42085	NULL	Connect	NULL	login	NULL
	730	unauthenticated user	192.168.3.124:42084	NULL	Connect	NULL	login	NULL
	731	unauthenticated user	192.168.3.124:42086	NULL	Connect	NULL	login	NULL
	732	unauthenticated user	192.168.3.124:42087	NULL	Connect	NULL	login	NULL
	733	unauthenticated user	192.168.3.124:42088	NULL	Connect	NULL	login	NULL
	734	unauthenticated user	192.168.3.124:42089	NULL	Connect	NULL	login	NULL
	735	unauthenticated user	192.168.3.124:42090	NULL	Connect	NULL	login	NULL
	736	unauthenticated user	192.168.3.124:42091	NULL	Connect	NULL	login	NULL
	737	unauthenticated user	192.168.3.124:42092	NULL	Connect	NULL	login	NULL
	738	unauthenticated user	192.168.3.124:42093	NULL	Connect	NULL	login	NULL
	739	unauthenticated user	192.168.3.124:42094	NULL	Connect	NULL	login	NULL
	740	unauthenticated user	192.168.3.124:42095	NULL	Connect	NULL	login	NULL
	741	unauthenticated user	192.168.3.124:42096	NULL	Connect	NULL	login	NULL
	742	unauthenticated user	192.168.3.124:42097	NULL	Connect	NULL	login	NULL
	743	unauthenticated user	192.168.3.124:42098	NULL	Connect	NULL	login	NULL
	744	unauthenticated user	192.168.3.124:42099	NULL	Connect	NULL	login	NULL
	745	unauthenticated user	192.168.3.124:42100	NULL	Connect	NULL	login	NULL
	746	unauthenticated user	192.168.3.124:42101	NULL	Connect	NULL	login	NULL
	747	unauthenticated user	192.168.3.124:42102	NULL	Connect	NULL	login	NULL
	748	unauthenticated user	192.168.3.124:42103	NULL	Connect	NULL	login	NULL

```
749 | unauthenticated user | 192.168.3.124:42104
                                                | NULL | Connect | NULL | login | NULL
 750 | unauthenticated user | 192.168.3.124:42068
                                                | NULL | Connect | NULL | login | NULL
 751 | unauthenticated user | 192.168.3.124:42064
                                                | NULL | Connect | NULL | login | NULL
 752 | unauthenticated user | 192.168.3.124:42071
                                                | NULL | Connect | NULL | login | NULL
 753 | unauthenticated user | 192.168.3.124:42072
                                                | NULL | Connect | NULL | login | NULL
 754 | unauthenticated user | 192.168.3.124:42067
                                                | NULL | Connect | NULL | login | NULL
 755 | unauthenticated user | 192.168.3.124:42070
                                                | NULL | Connect | NULL | login | NULL
 756 | unauthenticated user | 192.168.3.124:42069
                                                | NULL | Connect | NULL | login | NULL
 757 | unauthenticated user | 192.168.3.124:42065
                                                | NULL | Connect | NULL | login | NULL
 758 | unauthenticated user | 192.168.3.124:42112
                                                | NULL | Connect | NULL | login | NULL
 759 | unauthenticated user | 192.168.3.50:4872
                                                | NULL | Connect | NULL | login | NULL
 761 | unauthenticated user | 192.168.3.40:36363
                                                | NULL | Connect | NULL | login | NULL
                          | www.example.com:56200 | NULL | Query | 0 | NULL | SHOW FULL
     l neo
  762
PROCESSLIST
            44 rows in set (0.00 sec)
mysql> SHOW FULL PROCESSLIST;
```

		SHOW FULL PROCESSLIST;	+	+	+	+	+	+
-	Id	+   User	Host	db	Command	Time	State	Info
-	718	+   unauthenticated user	192.168.3.124:42075	NULL	Connect	NULL	login	NULL
	719	unauthenticated user	192.168.3.124:42073	NULL	Connect	NULL	login	NULL
	720	unauthenticated user	192.168.3.124:42074	NULL	Connect	NULL	login	NULL
	721	unauthenticated user	192.168.3.124:42077	NULL	Connect	NULL	login	NULL
	722	unauthenticated user	192.168.3.124:42076	NULL	Connect	NULL	login	NULL
	723	unauthenticated user	192.168.3.124:42079	NULL	Connect	NULL	login	NULL
	724	unauthenticated user	192.168.3.124:42078	NULL	Connect	NULL	login	NULL
	725	unauthenticated user	192.168.3.124:42081	NULL	Connect	NULL	login	NULL
	726	unauthenticated user	192.168.3.124:42080	NULL	Connect	NULL	login	NULL
	727	unauthenticated user	192.168.3.124:42082	NULL	Connect	NULL	login	NULL
	728	unauthenticated user	192.168.3.124:42083	NULL	Connect	NULL	login	NULL
	729	unauthenticated user	192.168.3.124:42085	NULL	Connect	NULL	login	NULL
	730	unauthenticated user	192.168.3.124:42084	NULL	Connect	NULL	login	NULL
	731	unauthenticated user	192.168.3.124:42086	NULL	Connect	NULL	login	NULL
	732	unauthenticated user	192.168.3.124:42087	NULL	Connect	NULL	login	NULL
	733	unauthenticated user	192.168.3.124:42088	NULL	Connect	NULL	login	NULL
	734	unauthenticated user	192.168.3.124:42089	NULL	Connect	NULL	login	NULL
	735	unauthenticated user	192.168.3.124:42090	NULL	Connect	NULL	login	NULL
	736	unauthenticated user	192.168.3.124:42091	NULL	Connect	NULL	login	NULL
	737	unauthenticated user	192.168.3.124:42092	NULL	Connect	NULL	login	NULL
	738	unauthenticated user	192.168.3.124:42093	NULL	Connect	NULL	login	NULL
	739	unauthenticated user	192.168.3.124:42094	NULL	Connect	NULL	login	NULL
	740	unauthenticated user	192.168.3.124:42095	NULL	Connect	NULL	login	NULL
	741	unauthenticated user	192.168.3.124:42096	NULL	Connect	NULL	login	NULL
	742	unauthenticated user	192.168.3.124:42097	NULL	Connect	NULL	login	NULL
	743	unauthenticated user	192.168.3.124:42098	NULL	Connect	NULL	login	NULL
	744	unauthenticated user	192.168.3.124:42099	NULL	Connect	NULL	login	NULL
	745	unauthenticated user	192.168.3.124:42100	NULL	Connect	NULL	login	NULL
	746	unauthenticated user	192.168.3.124:42101	NULL	Connect	NULL	login	NULL
	747	unauthenticated user	192.168.3.124:42102	NULL	Connect	NULL	login	NULL
	748	unauthenticated user	192.168.3.124:42103	NULL	Connect	NULL	login	NULL
	749	unauthenticated user	192.168.3.124:42104	NULL	Connect	NULL	login	NULL
	750	unauthenticated user	192.168.3.124:42068	NULL	Connect	NULL	login	NULL
	751	unauthenticated user	192.168.3.124:42064	NULL	Connect	NULL	login	NULL

```
752 | unauthenticated user | 192.168.3.124:42071
                                                     | NULL | Connect | NULL | login | NULL
 753 | unauthenticated user | 192.168.3.124:42072
                                                     | NULL | Connect | NULL | login | NULL
 754 | unauthenticated user | 192.168.3.124:42067
                                                     | NULL | Connect | NULL | login | NULL
 755 | unauthenticated user | 192.168.3.124:42070
                                                     | NULL | Connect | NULL | login | NULL
 756 | unauthenticated user | 192.168.3.124:42069
                                                     | NULL | Connect | NULL | login | NULL
 757 | unauthenticated user | 192.168.3.124:42065
                                                     | NULL | Connect | NULL | login | NULL
 758 | unauthenticated user | 192.168.3.124:42112
                                                     | NULL | Connect | NULL | login | NULL
 759 | unauthenticated user | 192.168.3.50:4872
                                                     | NULL | Connect | NULL | login | NULL
 761 | unauthenticated user | 192.168.3.40:36363
                                                     | NULL | Connect | NULL | login | NULL
      | neo
                                                                           0 | NULL | SHOW FULL
 762
                             | www.example.com:56200 | NULL | Query |
PROCESSLIST
```

44 rows in set (0.00 sec)

解决方案 my.cnf 配置文件中加入skip-name-resolve

#### 2.7. 禁用TCP/IP链接

[mysqld]
skip-networking

2.8. timeout

[mysqld]  $wait_timeout = 30$ interactive\_timeout =30

如果你没有修改过MySQL的配置,缺省情况下,wait\_timeout的初始值是28800。

wait\_timeout过大有弊端,其体现就是MySQL里大量的SLEEP进程无法及时释放,拖累系统性能,不过也不能把 这个指设置的过小,否则你可能会遭遇到"MySQL has gone away"之类的问题,通常来说,我觉得把 wait timeout设置为10是个不错的选择,但某些情况下可能也会出问题,比如说有一个CRON脚本,其中两次 SQL查询的间隔时间大于10秒的话,那么这个设置就有问题了:

mysql> show global variables like 'wait\_timeout';

Variable_name	Value
wait_timeout	10

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# 3. Replication

3.1. Master

#### 过程 4.1. Master 设置步骤

1. 配置 my.cnf 文件

确保主服务器主机上my.cnf文件的[mysqld]部分包括一个log-bin选项。该部分还应有一个server-id=Master\_id选项

# vim /etc/mysql/my.cnf

[mysqld]

bind-address = 192.168.245.129

server-id = 1

log\_bin = /var/log/mysql/mysql-bin.log

bind-address默认是127.0.0.1你必须更改它,否则Slave将无法链接到 Master

2. 重启服务器

```
neo@netkiller:~$ sudo /etc/init.d/mysql reload
 * Reloading MySQL database server mysqld [ OK ]
```

建议使用reload,如果不起作用再用restart

3. MASTER STATUS

如果显示下面内容表示, 配置不正确

```
mysql> SHOW MASTER STATUS;
Empty set (0.02 sec)
```

4. 创建账户并授予REPLICATION SLAVE权限

mysql> GRANT REPLICATION SLAVE ON \*.\* TO 'repl'@'%.mydomain.com' IDENTIFIED BY 'slavepass';
mysql> FLUSH PRIVILEGES;

GRANT REPLICATION SLAVE, REPLICATION CLIENT ON \*.\* TO repl@'192.168.245.131' IDENTIFIED BY 'slavepass'

5. 清空所有表和块写入

mysql> FLUSH TABLES WITH READ LOCK;

6. 备份数据库

```
# tar zcvf mysql-snapshot.tar.gz /var/lib/mysql/neo
```

复制给从数据库

```
scp mysql-snapshot.tar.gz neo@192.168.245.131:/tmp
```

7. 取得快照并记录日志名和偏移量后,可以在主服务器上重新启用写活动

```
mysql> UNLOCK TABLES;
```

8. 复制的信息

SHOW PROCESSLIST语句可以提供在主服务器上和从服务器上发生的关于复制的信息

```
mysql> SHOW PROCESSLIST\G
********************************
    Id: 7
    User: root
    Host: localhost
        db: NULL
Command: Query
    Time: 0
    State: NULL
    Info: SHOW PROCESSLIST
1 row in set (0.00 sec)
```

3.2. Slave

过程 4.2. Slave 设置步骤

1. 配置my.cnf

从服务器的ID必须与主服务器的ID不相同,如果设置多个从服务器,每个从服务器必须有一个唯一的 server-id值,必须与主服务器的以及其它从服务器的不相同。

```
# vim /etc/mysql/my.cnf
[mysqld]
server-id = 2
```

2. 恢复数据库

snapshot 恢复

```
neo@slave:/tmp$ cd
neo@slave:~$ cd /tmp/
neo@slave:/tmp$ tar zxvf mysql-snapshot.tar.gz
neo@slave:/tmp$ cd /var/lib/mysql
neo@slave:/var/lib/mysql$ mv /tmp/var/lib/mysql/neo .
neo@slave:/var/lib/mysql$ sudo chown mysql.mysql -R neo
```

```
重新启动Mysql
```

```
neo@slave:~$ sudo /etc/init.d/mysql restart
```

如果使用mysqldump备份主服务器的数据,将转储文件装载到从服务器

```
# mysql -u root -p < dump_file.sql</pre>
```

#### 3. 指定 master 相关参数

在从服务器上执行下面的语句,用你的系统的实际值替换选项值

#### 4. 启动从服务器线程

```
mysql> START SLAVE;
Query OK, 0 rows affected (0.00 sec)
```

#### 5. 查看复制线程

```
Id: 13
  User: root
Host: localhost
db: NULL
Command: Query
Time: 0
State: NULL
Id: 14
  User: system user
  Host:
   db: NULL
Command: Connect
 Time: 2
State: Connecting to master
Id: 15
  User: system user
  Host:
   db: NULL
Command: Connect
  Time: 2
 State: Has read all relay log; waiting for the slave I/O thread to update it
  Info: NULL
3 rows in set (0.00 sec)
```

#### 6. SLAVE STATUS

3.3. Testing

登录 master

mysql> insert into foo(id,data) values(2,'Hello world!!!');
Query OK, 1 row affected (0.00 sec)

登录 slave

mysql> select \* from foo;

在master服务器上插入一条记录,你可以立刻在slave服务器上看到变化。

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2. my.cnf

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4. MySQL CLuster

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#### 4. MySQL CLuster

The cluster need a lot of server for experiments, if you haven't any server for one, I have a good idea that using Vmware for you.

at first, let's create lots of virtual machine (You MUST have a third server). and then follow me step by step learning how to set up a mysql cluster on your virtual machine.



```
      mgm
      192.168.0.1
      # Management

      data
      192.168.0.2
      # Ndbd Node

      data
      192.168.0.3
      # Ndbd Node

      sql
      192.168.0.4
      # SQL Node

      sql
      192.168.0.5
      # SQL Node
```

#### 4.1. Management node (MGM node)

```
neo@mgm:~$ sudo vim /var/lib/mysql-cluster/config.ini
[NDBD DEFAULT]
NoOfReplicas=2
DataMemory=80M
IndexMemory=18M
[MYSQLD DEFAULT]
[NDB_MGMD DEFAULT]
[TCP DEFAULT]
portnumber=2202
[NDB MGMD]
hostname=192.168.0.1
datadir=/var/lib/mysql-cluster
hostname=192.168.0.2
datadir=/var/lib/mysql-cluster
[NDBD]
hostname=192.168.0.3
datadir=/var/lib/mysql-cluster
[MYSOLD]
hostname=192.168.0.4
[MYSOLD]
hostname=192.168.0.5
```

#### 4.2. Data node

```
my.cnf
```

```
neo@data:~$ sudo vim /etc/mysql/my.cnf

[mysqld]
ndbcluster
ndb-connectstring=192.168.0.1  # the IP of the MANAGMENT SERVER
[mysql_cluster]
ndb-connectstring=192.168.0.1  # the IP of the MANAGMENT SERVER
```

```
my.cnf
```

```
neo@sql:~$ sudo vim /etc/mysql/my.cnf
[mysqld]
ndbcluster
ndb-connectstring=192.168.0.1  # the IP of the MANAGMENT SERVER
[mysql_cluster]
ndb-connectstring=192.168.0.1  # the IP of the MANAGMENT SERVER
```

#### 4.4. Starting

1. starting mgm

```
neo@mgm:~$ sudo ndb_mgmd -f /var/lib/mysql-cluster/config.ini
```

2. initial ndbd

```
neo@data:~$ sudo ndbd --initial
```

首次运行需要 --initial 参数,以后不需要。

#### 4.5. Shutdown

MGM

```
$ sudo ndb_mgm -e shutdown
```

4.6. Testing

与没有使用簇的MySQL相比,在MySQL簇内操作数据的方式没有太大的区别。

执行这类操作时应记住三点

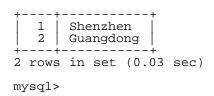
1. 表必须用ENGINE=NDB或ENGINE=NDBCLUSTER选项创建,或用ALTER TABLE选项更改,以使用NDB Cluster存储引擎在 Cluster内复制它们。如果使用mysqldump的输出从已有数据库导入表,可在文本编辑器中打开SQL脚本,并将该选项添加到任何表创建语句,或用这类选项之一替换任何已有的ENGINE(或TYPE)选项。

- 2. 另外还请记住,每个NDB表必须有一个主键。如果在创建表时用户未定义主键,NDB Cluster存储引擎将自动生成隐含的主键。(注释:该隐含键也将占用空间,就像任何其他 的表索引一样。由于没有足够的内存来容纳这些自动创建的键,出现问题并不罕见)。
- 3. 当你在一个节点上运行create database mydb;你去其他sql node上执行show databases;将不能看到mydb,你需要创建它,然后use mydb; show tables;你将看到同步的表。

```
SQL Node 1
neo@sql:~$ mysql -uroot -p
Enter password:
Welcome to the MySQL monitor. Commands end with ; or \gap{g.} Your MySQL connection id is 7 Server version: 5.0.51a-3ubuntu5.1 (Ubuntu)
Type 'help;' or '\h' for help. Type '\c' to clear the buffer.
mysql> create database cluster;
Query OK, 1 row affected (0.00 sec)
mysql> use cluster
Database changed
mysql> create table city( id mediumint unsigned not null auto_increment primary key, name varchar(20) not null default '') engine = ndbcluster default charset utf8; Query OK, 0 rows affected (1.07 sec)
mysql> insert into city values(1, 'Shenzhen');
Query OK, 1 row affected (0.12 sec)
mysql> insert into city values(2, 'Guangdong');
Query OK, 1 row affected (0.00 sec)
SQL Node 2
neo@sql:~$ mysql -uroot -p
Enter password:
Welcome to the MySQL monitor. Commands end
Your MySQL connection id is 7
Server version: 5.0.51a-3ubuntu5.1 (Ubuntu)
                                        Commands end with ; or \g.
Type 'help;' or '\h' for help. Type '\c' to clear the buffer.
mysql> show databases;
  Database
  information_schema
  example
  mydb
  mysql
  neo
6 rows in set (0.13 sec)
mysql> create database cluster;
Query OK, 1 row affected (0.00 sec)
mysql> show databases;
 Database
   information_schema
  cluster
  example
  mydb
  mysql
  neo
6 rows in set (0.13 sec)
mysql> use cluster;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A
Database changed mysql> show tables;
Tables_in_cluster
1 row in set (0.01 sec)
```

mysql> select \* from city;

| id | name



3. Replication起始页5. Security

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5. Security

Firewall

iptables -A INPUT -i eth0 -p tcp -s xxx.xxx.xxx.xxx --dport 3306 -j ACCEPT

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6.1. SHOW COMMAND

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#### 6. Monitoring

#### http://netkiller.sourceforge.net/monitoring/index.html

```
SHOW DATABASES;
SHOW DATABASES;
SHOW TABLE STATUS FROM `db`;
SHOW FUNCTION STATUS WHERE `Db`='db';
SHOW PROCEDURE STATUS WHERE `Db`='db';
SHOW TRIGGERS FROM `db`;
Show Global Status;
Show global variables;
Show full processlist;
6.1.1. show status
数据库性能状态
(1)QPS(每秒Query量)
QPS = Questions(or Queries) / seconds
mysql > show /*50000 global */ status like 'Question';
(2)TPS(每秒事务量)
TPS = (Com_commit + Com_rollback) / seconds
mysql > show status like 'Com_commit';
mysql > show status like 'Com_rollback';
(3)key Buffer 命中率
key_buffer_read_hits = (1-key_reads / key_read_requests) * 100%
key_buffer_write_hits = (1-key_writes / key_write_requests) * 100%
mysql> show status like 'Key%';
(4)InnoDB Buffer命中率 innodb_buffer_pool_reads / innodb_buffer_pool_read_requests) * 100%
mysql> show status like 'innodb_buffer_pool_read%';
(5)Query Cache命中率
Query_cache_hits = (Qcahce_hits / (Qcache_hits + Qcache_inserts )) * 100%;
mysql> show status like 'Qcache%'; (6)Table Cache状态量
mysql> show status like 'open%';
(7)Thread Cache 命中率
Thread_cache_hits = (1 - Threads_created / connections ) * 100%
mysql> show status like 'Thread%';
mysql> show status like 'Connections';
(8)锁定状态
mysql> show status like '%lock%';
(9)复制延时量
mysgl > show slave status
(10) Tmp Table 状况(临时表状况)
mysql > show status like 'Create_tmp%';
(11) Binlog Cache 使用状况
mysql > show status like 'Binlog_cache%';
(12) Innodb_log_waits \stackrel{\square}{\equiv} mysql > show status like 'innodb_log_waits';
```

6.1.2. show master status

<b>+</b>	<u> </u>	·	+			
File	Position	Binlog_Do_DB 	Binlog_Ignore_DB   +			
DBMaster-bin.000018	409468882	example				
1 row in set (0.00 sec)						
mysql>						

#### 6.2. Analysis and Optimization

6.2.1. mytop - top like query monitor for MySQL

sudo apt-get install mytop

mytop --host=172.16.0.7 --user=monitor --password=your\_passwd

6.2.2. mtop - MySQL terminal based query monitor

http://mtop.sourceforge.net/

sudo apt-get install mtop
mtop --host=172.16.0.6 --dbuser=monitor --password=your\_passwd

mkill

mkill -sl 180 -fi 'select.\*from bad\_table' > /var/log/mkill.out 2> /var/log/mkill.kill

6.2.3. innotop

\_\_ Key \_

6.2.4. mysqlreport

# yum install mysqlreport -y

wget hackmysql.com/scripts/mysqlreport

[root@database ~]# mysqlreport --user root --password chen
Use of uninitialized value in multiplication (\*) at /usr/bin/mysqlreport line 829.
Use of uninitialized value in formline at /usr/bin/mysqlreport line 1227.
MySQL 5.0.77-log uptime 28 23:42:33 Sat Apr 10 18:15:44 2010

Buffer used Current Write hit Read hit	6.54M of 1.49M 97.65% 99.81%	8.00M %Used: %Usage:		
_	63.68k 6.26k 52 1.91M 1.17M 276.13k 264.78k 158.14k 41.74k 249.93k 89.09k 59.71k	0.9/s 0.8/s %Total 0.1/s 0.0/s 0.0/s 0.0/s 0.0/s 0.1/s 0.1/s 0.1/s 0.1/s 0.1/s 0.1/s 0.0/s 0.0/s	11.25 2.87 0.28	OMS: 0.00 Log: OFF 61.29 14.43 13.84 8.26 2.18
SELECT and Scan Range Full join Range check Full rng join Sort scan Sort range Sort mrg pass Table Locks Waited	161.33k 6.47k 1.56k 0 34.03k 21.98k 733	0.1/s %SELECT: 0.0/s 0.0/s 0/s 0/s 0.0/s 0.0/s 0.0/s	0.55 0.13 0.00 0.00	

Immediate	2.15M		0.9/s					
Tables Open Opened	64 159.20k	of	64 0.1/s	%Cache:	100.00			
Connection Max used Total	ns36 63.75k	of	200 0.0/s	%Max:	18.00			
Created T Disk table Table File	emp 32.80k 63.69k 319		0.0/s 0.0/s 0.0/s	Size:	32.0M			
Threads _ Running Cached Created Slow	0 63.75k	of	1 0 0.0/s 0/s	%Hit:	0			
Aborted _ Clients Connects								
Bytes Sent Received	23.89G 6.36G		9.5k/s 2.5k/s					
InnoDB Bu Usage Read hit Pages	ffer Pool 8.00M 99.99%	of	8.00M	%Used:	100.00			
Free Data Misc Latched	0 511 1			%Total:	0.00 99.80 0.20 0.00	%Drty:	0.00	
Reads From file Ahead Rnd Ahead Sql Writes Flushes	1.54M 135 4 6		0.6/s 0.0/s 0.0/s 0.0/s		0.01			
Flushes Wait Free	1.56k 0		0.0/s 0/s					
InnoDB Lo Waits Current Time acquiri Total Average Max	0 0 ng	ms ms ms	0/s					
	ta, Pages,		ows					
Reads Writes fsync Pending Reads Writes fsync	194 628 323 0 0		0.0/s 0.0/s 0.0/s					
Pages Created Read Written	534 201 1.56k		0.0/s 0.0/s 0.0/s					
Rows Deleted Inserted Read Updated	0 423.82k 1.27M 0		0/s 0.2/s 0.5/s 0/s					

6.3. Munin

6.4. Cacti

6.5. Monitoring MySQL with SNMP

mysql-snmp - monitoring MySQL with SNMP

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# 第6章 Client and Utility Programs

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1.1. ~/.my.cnf

1.2. 终端编码

1.3. Unix Socket

1.4. 重定向巧用

- 2. mysqldump a database backup program
- 3. mysqladmin client for administering a MySQL server

3.1. status

3.2. process list

- 4. myisamchk MyISAM Table-Maintenance Utility
- 5. mysqlcheck A Table Maintenance and Repair Program
- 6. mysqlslap load emulation client
- 7. mysqldumpslow Parse and summarize the MySQL slow query log.
- 1. mysql the MySQL command-line tool
- 1.1. ~/.my.cnf

# mysql\_secure\_installation config file
[mysql]
user=root
password='chen'

#### 1.2. 终端编码

mysql> show variables like 'char%';

```
Variable_name Value

character_set_client utf8
character_set_database character_set_filesystem character_set_results character_set_server character_set_setset utf8
character_set_setystem utf8
character_set_server utf8
character_set_system utf8
character_set_system utf8
character_set_system utf8
character_set_system utf8
character_sets_dir /usr/share/mysql/charsets/
```

8 rows in set (0.00 sec)

mysql> select \* from category;

id	name	description	status	parent_id	path
1 4 5 6 7	;;; ;;; ;;;	??????? ??? NULL NULL NULL	Y Y Y Y Y	NULL 1 4 5 6	1/ 1/4 1/4/5 1/4/5/6 1/4/5/6/7

5 rows in set (0.00 sec)

mysql> set names utf8; Query OK, 0 rows affected (0.00 sec)

mysql> select \* from category;

-	-2 1-		,						
	id	name	description	status	parent_id	path			
	1	中国   中	华人民共和家			Y	т	NULL   1/	
	4	广东省   广东	床省				Y		1
	5 6 7	深圳市   NUI 宝安区   NUI 龙华镇   NUI	L	Y Y Y	4 5 6	1/4/5 1/4/5/6 1/4/5/6/7			

5 rows in set (0.00 sec)

1.3. Unix Socket

mysql -uroot -p -S /tmp/mysql.sock

1.4. 重定向巧用

echo "show databases;" | mysql -uroot -pneo cat |mysql -uroot -pneo << EOF show databases; EOF

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6. Monitoring

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2. mysqldump - a database backup program

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2. mysqldump - a database backup program

mysqldump -uroot -p dbname | gzip > dbname.backup

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第6章 Client and Utility Programs

3. mysqladmin - client for administering a

MySQL server

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3. mysqladmin - client for administering a MySQL server

3.1. status

每个10秒输出一次mysql的状态信息

mysqladmin -i 10 extended status

mysqladmin -h 172.16.0.1 -u monitor -ppasswd status Uptime: 195824 Threads: 21 Questions: 57744081 Slow queries: 516230 Opens: 13202607 Flush tables: 1 Open tables: 160 Queries per second avg: 294.877

 ${\tt mysqladmin -h \ 172.16.0.1 -u \ monitor -ppasswd \ extended-status}$ 

Variable_name		-+
Aborted_connects   36		Value
Aborted_connects   36		-+
Binlog_cache_disk_use   Binlog_cache_use   Bytes_received   Bytes_received   Bytes_sent   Com_admin_commands   Com_assign_to_keycache   Com_alter_db   O	Aborted_clients	60336
Binlog_cache_use   100721		
Bytes_received   Bytes_sent		
Bytes_sent		
Com_admin_commands         10026660           Com_asign_to_keycache         0           Com_alter_db         0           Com_alter_db_upgrade         0           Com_alter_procedure         0           Com_alter_procedure         0           Com_alter_procedure         0           Com_alter_table         418           Com_alter_table         0           Com_alter_tablespace         0           Com_alter_tablespace         0           Com_alter_table         0           Com_alter_table         0           Com_alter_table         0           Com_alter_table         0           Com_begin         0           Com_begin         0           Com_begin         0           Com_begin         0           Com_call_procedure         0           Com_call_procedure         0           Com_change_master         1           Com_change_master         1           Com_checksum         0           Com_checksum         0           Com_checksum         0           Com_create_db         1           Com_create_db         1           Com_create_index <td></td> <td></td>		
Com_assign_to_keycache         0           Com_alter_db         0           Com_alter_db_upgrade         0           Com_alter_event         0           Com_alter_procedure         0           Com_alter_server         0           Com_alter_table         418           Com_alter_tablespace         0           Com_alter_tablespace         0           Com_alter_table         0           Com_all_procedure         0           Com_begin         0           Com_ceall_procedure         0           Com_change_master         1           Com_change_master         1           Com_checksum         0           Com_checksum         0           Com_checksum         0           Com_create_bb         1           Com_create_bb         1           Com_create_bile         2		
Com_alter_db_upgrade         0           Com_alter_db_upgrade         0           Com_alter_function         0           Com_alter_procedure         0           Com_alter_server         0           Com_alter_table         418           Com_alter_table         0           Com_alter_table         0           Com_analyze         0           Com_begin         0           Com_begin         0           Com_binlog         0           Com_binlog         0           Com_com_binlog         0           Com_com_binlog         0           Com_com_binlog         0           Com_com_binlog         0           Com_com_all_procedure         0           Com_change_master         1           Com_change_master         1           Com_check         0           Com_check         0           Com_check         0           Com_check         0           Com_check         0           Com_create_ub         1           Com_create_ub         1           Com_create_procedure         0           Com_create_uif         0		1
Com_alter_db_upgrade         0           Com_alter_event         0           Com_alter_procedure         0           Com_alter_procedure         0           Com_alter_table         418           Com_alter_tablespace         0           Com_alter_tablespace         0           Com_alter_table         0           Com_alter_table         0           Com_backup_table         0           Com_check         0           Com_change_db         44440400           Com_check         0           Com_create_ub         1           Com_create_ub         1           Com_create_table         211		li li
Com_alter_event	Com_alter_db	,
Com_alter_function	Com_alter_db_upgrade	
Com_alter_procedure         0           Com_alter_server         0           Com_alter_table         418           Com_alter_tablespace         0           Com_backup_table         0           Com_begin         0           Com_bedinlog         0           Com_binlog         0           Com_chinlog         0           Com_change_db         4440400           Com_change_master         1           Com_change_master         1           Com_checksum         0           Com_create_wb         1           Com_create_db         1           Com_create_went         0           Com_create_procedure         0           Com_create_table         211           Com_create_user         0           Com_create_user         0           Com_create_wise         2           Com_delete         36664	Com_alter_event	
Com_alter_table         418           Com_alter_table         418           Com_alter_tablespace         0           Com_analyze         0           Com_begin         0           Com_begin         0           Com_binlog         0           Com_change_db         4440400           Com_change_master         1           Com_check         0           Com_checksum         0           Com_check         0           Com_check         0           Com_check         0           Com_create_db         1           Com_commit         30089           Com_create_junction         0           Com_create_procedure         0           Com_create_table         211           Com_create_user         0           Com_create_user         0           Com_create_user         0           Com_delet		
Com_alter_table         418           Com_alter_tablespace         0           Com_analyze         0           Com_backup_table         0           Com_begin         0           Com_begin         0           Com_binlog         0           Com_change_db         4440400           Com_change_master         1           Com_check         0           Com_checksum         0           Com_create_db         1           Com_create_db         1           Com_create_index         1           Com_create_procedure         0           Com_create_table         211           Com_create_table         21           Com_create_udf         0           Com_delete         36664           Com_delete_multi         0           Com_dop_pinction         0           <		1
Com_alter_tablespace         0           Com_analyze         0           Com_backup_table         0           Com_begin         0           Com_binlog         0           Com_chinlog         0           Com_change_db         4440400           Com_change_master         1           Com_check         0           Com_checksum         0           Com_cente         0           Com_cente         1           Com_create_b         1           Com_create_bunction         0           Com_create_view         2           Com_delete         36664           Com_delete_multi         0           Com_delete_multi         0           Com_drop_event         0           Com_drop_procedure         0           Com_drop_proced	Com_alter_server	
Com_analyze         0           Com_begin         0           Com_binlog         0           Com_call_procedure         0           Com_change_db         4440400           Com_change_master         1           Com_check         0           Com_checksum         0           Com_create_db         1           Com_create_db         1           Com_create_index         1           Com_create_index         1           Com_create_procedure         0           Com_create_trigger         4           Com_create_trigger         4           Com_create_udf         0           Com_create_view         2           Com_delete         36664           Com_delete_multi         0           Com_dop_table         0           Com_drop_procedure         0		1 .
Com_backup_table         0           Com_begin         0           Com_com_binlog         0           Com_call_procedure         0           Com_change_db         4440400           Com_change_master         1           Com_check         0           Com_checksum         0           Com_checksum         0           Com_commit         30089           Com_comeate_db         1           Com_comeate_db         1           Com_create_event         0           Com_create_function         0           Com_create_index         1           Com_create_server         0           Com_create_trigger         4           Com_create_udf         0           Com_create_view         2           Com_create_view         2           Com_create_wiew         2           Com_deelete         36664           Com_deelete         36664           Com_drop_event         0           Com_drop_bevent         0           Com_drop_procedure         0           Com_drop_table         213           Com_drop_table         213           Com_drop_view         4<		· ·
Com_begin         0           Com_binlog         0           Com_call_procedure         0           Com_change_db         4440400           Com_check         0           Com_check         0           Com_checksum         0           Com_checksum         0           Com_checksum         0           Com_checksum         0           Com_create_db         1           Com_create_db         1           Com_create_function         0           Com_create_index         1           Com_create_index         1           Com_create_procedure         0           Com_create_server         0           Com_create_tringer         4           Com_create_tringer         4           Com_create_tringer         0           Com_create_tringer         0           Com_create_tringer         0           Com_create_tringer         0           Com_create_tringer         0           Com_delete         36664           Com_delete         36664           Com_drop_event         0           Com_drop_procedure         0           Com_drop_tringer <td< td=""><td></td><td>, ,</td></td<>		, ,
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Com_call_procedure         0           Com_change_db         4440400           Com_change_master         1           Com_check         0           Com_checksum         0           Com_commit         30089           Com_create_db         1           Com_create_event         0           Com_create_function         0           Com_create_index         1           Com_create_server         0           Com_create_server         0           Com_create_trigger         4           Com_create_udf         0           Com_create_udf         0           Com_create_udf         0           Com_create_udf         0           Com_create_user         0           Com_create_view         2           Com_create_view         2           Com_delete         36664           Com_delete         36664           Com_delete         0           Com_drop_db         0           Com_drop_event         0           Com_drop_procedure         0           Com_drop_procedure         0           Com_drop_table         213           Com_drop_view         0 </td <td>Com_binlog</td> <td>d i</td>	Com_binlog	d i
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Com_check         0           Com_checksum         0           Com_commit         30089           Com_create_db         1           Com_create_event         0           Com_create_function         0           Com_create_index         1           Com_create_index         1           Com_create_server         0           Com_create_server         0           Com_create_trigger         4           Com_create_udf         0           Com_create_user         0           Com_create_view         2           Com_create_view         2           Com_dealloc_sql         0           Com_dealloc_sql         0           Com_delete         36664           Com_delete_multi         0           Com_delete_multi         0           Com_drop_db         0           Com_drop_event         0           Com_drop_bevent         0           Com_drop_procedure         0           Com_drop_procedure         0           Com_drop_trigger         0           Com_drop_view         4           Com_drop_view         4           Com_execute_sql         0<		[ 1
Com_checksum         0           Com_commit         30089           Com_create_db         1           Com_create_event         0           Com_create_function         0           Com_create_index         1           Com_create_procedure         0           Com_create_server         0           Com_create_table         211           Com_create_udf         0           Com_create_udf         0           Com_create_view         2           Com_create_view         2           Com_create_view         2           Com_create_view         0           Com_create_user         0           Com_create_user         0           Com_create_user         0           Com_create_user         0           Com_delete         36664           Com_delete         0           Com_delete         0           Com_delete_multi         0           Com_drop_tab         0           Com_drop_function         0           Com_drop_procedure         0           Com_drop_table         213           Com_drop_tiew         0           Com_drop_view         4 <td>Com_check</td> <td>'  0 ' </td>	Com_check	'  0 '
Com_commit         30089           Com_create_db         1           Com_create_event         0           Com_create_function         0           Com_create_index         1           Com_create_procedure         0           Com_create_server         0           Com_create_table         211           Com_create_udf         0           Com_create_user         0           Com_create_view         2           Com_create_view         2           Com_create_view         2           Com_create_user         0           Com_create_user         0           Com_create_user         0           Com_create_user         0           Com_create_user         0           Com_dealloc_sql         0           Com_dealloc_sql         0           Com_dealloc_sql         0           Com_dealloc_sql         0           Com_dealloc_sql         0           Com_drop_db         0           Com_drop_function         0           Com_drop_procedure         0           Com_drop_table         213           Com_drop_user         0           Com_drop_view		0 1
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Com_create_event         0           Com_create_function         0           Com_create_index         1           Com_create_procedure         0           Com_create_server         0           Com_create_table         211           Com_create_trigger         4           Com_create_user         0           Com_create_view         2           Com_create_view         2           Com_create_view         2           Com_create_view         2           Com_create_view         2           Com_create_user         0           Com_dealloc_sql         0           Com_dealloc_sql         0           Com_delete         36664           Com_delete         36664           Com_delete_multi         0           Com_delete_multi         0           Com_drop_db         0           Com_drop_event         0           Com_drop_event         0           Com_drop_procedure         0           Com_drop_procedure         0           Com_drop_trigger         0           Com_drop_trigger         0           Com_drop_view         4           Com_com_drop_tri	Com create db	, ,
Com_create_function0Com_create_index1Com_create_procedure0Com_create_server0Com_create_table211Com_create_trigger4Com_create_udf0Com_create_user0Com_create_view2Com_dealloc_sql0Com_delete36664Com_delete_multi0Com_do0Com_drop_db0Com_drop_event0Com_drop_function0Com_drop_function0Com_drop_procedure0Com_drop_server0Com_drop_table213Com_drop_trigger0Com_drop_trigger0Com_drop_view4Com_empty_query0Com_execute_sql0Com_execute_sql0Com_grant6Com_ha_close0		0 1
Com_create_index1Com_create_procedure0Com_create_server0Com_create_table211Com_create_trigger4Com_create_udf0Com_create_user0Com_create_view2Com_dealloc_sql0Com_delete36664Com_delete_multi0Com_do0Com_drop_db0Com_drop_event0Com_drop_function0Com_drop_index0Com_drop_index0Com_drop_server0Com_drop_table213Com_drop_trigger0Com_drop_user0Com_drop_view4Com_empty_query0Com_execute_sql0Com_flush9Com_grant6Com_ha_close0		0
Com_create_procedure Com_create_server Com_create_table Com_create_trigger Com_create_udf Com_create_user Com_create_view Com_dealloc_sql Com_delete Com_delete Com_delete Com_do Com_drop_db Com_drop_event Com_drop_index Com_drop_procedure Com_drop_server Com_drop_trigger Com_drop_trigger Com_drop_view Com_drop_view Com_drop_view Com_drop_view Com_empty_query Com_execute_sql Com_grant Com_grant Com_grant Com_grant Com_grant Com_grant Com_grant Com_grant Com_drop_server Com_grant Com_grant Com_grant Com_grant Com_grant Com_grant Com_drop_close	Com create index	1 1
Com_create_server Com_create_table Com_create_trigger Com_create_udf Com_create_user Com_create_user Com_dealloc_sql Com_dealloc_sql Com_delete Com_delete Com_do Com_drop_db Com_drop_event Com_drop_function Com_drop_index Com_drop_procedure Com_drop_server Com_drop_trigger Com_drop_trigger Com_drop_user Com_drop_view Com_drop_view Com_empty_query Com_execute_sql Com_grant Com_grant Com_grant Com_drop_server Com_grant Com_grant Com_grant Com_grant Com_grant Com_drop_cose		0
Com_create_table       211         Com_create_trigger       4         Com_create_udf       0         Com_create_user       0         Com_create_view       2         Com_dealloc_sql       0         Com_delete       36664         Com_delete_multi       0         Com_drop_db       0         Com_drop_db       0         Com_drop_event       0         Com_drop_index       0         Com_drop_procedure       0         Com_drop_server       0         Com_drop_table       213         Com_drop_table       213         Com_drop_user       0         Com_drop_view       4         Com_execute_sql       0         Com_flush       9         Com_grant       6         Com_ha_close       0		1 0
Com_create_trigger       4         Com_create_udf       0         Com_create_user       0         Com_create_view       2         Com_dealloc_sql       0         Com_delete       36664         Com_delete_multi       0         Com_do       0         Com_do       0         Com_drop_db       0         Com_drop_event       0         Com_drop_tab       0         Com_drop_index       0         Com_drop_index       0         Com_drop_procedure       0         Com_drop_server       0         Com_drop_server       0         Com_drop_table       213         Com_drop_trigger       0         Com_drop_user       0         Com_drop_view       4         Com_empty_query       0         Com_execute_sql       0         Com_flush       9         Com_grant       6         Com_ha_close       0		
Com_create_udf       0         Com_create_user       0         Com_create_view       2         Com_dealloc_sql       0         Com_delete       36664         Com_delete_multi       0         Com_do       0         Com_drop_db       0         Com_drop_event       0         Com_drop_tanction       0         Com_drop_index       0         Com_drop_recedure       0         Com_drop_server       0         Com_drop_table       213         Com_drop_trigger       0         Com_drop_user       0         Com_drop_view       4         Com_empty_query       0         Com_execute_sql       0         Com_flush       9         Com_grant       6         Com_ha_close       0		4
Com_create_user       0         Com_create_view       2         Com_dealloc_sql       0         Com_delete       36664         Com_delete_multi       0         Com_do       0         Com_do       0         Com_drop_db       0         Com_drop_event       0         Com_drop_function       0         Com_drop_index       0         Com_drop_procedure       0         Com_drop_server       0         Com_drop_table       213         Com_drop_trigger       0         Com_drop_user       0         Com_drop_view       4         Com_empty_query       0         Com_execute_sql       0         Com_flush       9         Com_grant       6         Com_ha_close       0		ነ ዕ
Com_create_view       2         Com_dealloc_sql       0         Com_delete       36664         Com_do       0         Com_drop_db       0         Com_drop_event       0         Com_drop_function       0         Com_drop_index       0         Com_drop_index       0         Com_drop_server       0         Com_drop_server       0         Com_drop_table       213         Com_drop_trigger       0         Com_drop_user       0         Com_drop_view       4         Com_empty_query       0         Com_execute_sql       0         Com_flush       9         Com_grant       6         Com_ha_close       0		
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Com_delete       36664         Com_delete_multi       0         Com_do       0         Com_drop_db       0         Com_drop_event       0         Com_drop_function       0         Com_drop_index       0         Com_drop_procedure       0         Com_drop_server       0         Com_drop_table       213         Com_drop_trigger       0         Com_drop_user       0         Com_drop_view       4         Com_empty_query       0         Com_execute_sql       0         Com_flush       9         Com_grant       6         Com_ha_close       0	Com dealloc sql	
Com_delete_multi       0         Com_do       0         Com_drop_db       0         Com_drop_event       0         Com_drop_function       0         Com_drop_index       0         Com_drop_procedure       0         Com_drop_server       0         Com_drop_table       213         Com_drop_trigger       0         Com_drop_user       0         Com_drop_view       4         Com_empty_query       0         Com_execute_sql       0         Com_flush       9         Com_grant       6         Com_ha_close       0		1 36664
Com_do       0         Com_drop_db       0         Com_drop_event       0         Com_drop_function       0         Com_drop_index       0         Com_drop_procedure       0         Com_drop_server       0         Com_drop_table       213         Com_drop_trigger       0         Com_drop_user       0         Com_drop_view       4         Com_empty_query       0         Com_execute_sql       0         Com_flush       9         Com_grant       6         Com_ha_close       0	Com delete multi	
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Com_drop_event       0         Com_drop_function       0         Com_drop_index       0         Com_drop_procedure       0         Com_drop_server       0         Com_drop_table       213         Com_drop_trigger       0         Com_drop_user       0         Com_drop_view       4         Com_empty_query       0         Com_execute_sql       0         Com_flush       9         Com_grant       6         Com_ha_close       0		0 1
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Com_drop_index       0         Com_drop_procedure       0         Com_drop_server       0         Com_drop_table       213         Com_drop_trigger       0         Com_drop_user       0         Com_drop_view       4         Com_empty_query       0         Com_execute_sql       0         Com_flush       9         Com_grant       6         Com_ha_close       0	Com drop function	0 1
Com_drop_procedure       0         Com_drop_server       0         Com_drop_table       213         Com_drop_trigger       0         Com_drop_user       0         Com_drop_view       4         Com_empty_query       0         Com_execute_sql       0         Com_flush       9         Com_grant       6         Com_ha_close       0		10
Com_drop_server       0         Com_drop_table       213         Com_drop_trigger       0         Com_drop_user       0         Com_drop_view       4         Com_empty_query       0         Com_execute_sql       0         Com_flush       9         Com_grant       6         Com_ha_close       0		0 1
Com_drop_table       213         Com_drop_trigger       0         Com_drop_user       0         Com_drop_view       4         Com_empty_query       0         Com_execute_sql       0         Com_flush       9         Com_grant       6         Com_ha_close       0		10
Com_drop_trigger       0         Com_drop_user       0         Com_drop_view       4         Com_empty_query       0         Com_execute_sql       0         Com_flush       9         Com_grant       6         Com_ha_close       0		213
Com_drop_user		0 1
Com_drop_view       4         Com_empty_query       0         Com_execute_sql       0         Com_flush       9         Com_grant       6         Com_ha_close       0		
Com_empty_query		
Com_execute_sql	Com empty query	
Com_flush		
Com_grant		
Com_ha_close 0		6
	Com_ha_open	l ŏ
Com_ha_read 0	Com ha read	1 - 1
Com_help 0		
Com_insert 472260		
Com_insert_select		, i .
Com_install_plugin		
1 - 1		
	COM KILI	1 12

Com_load	0
Com_load_master_data	
Com_load_master_table Com_lock_tables	0
Com_optimize	0
Com_preload_keys	0 (
Com_prepare_sql	
Com_purge Com_purge_before_date	0   0
Com_release_savepoint	
Com rename table	
Com_rename_user	0
Com_repair	] 0
Com_replace	4612
Com_replace_select Com reset	0
Com restore table	1 0 1
Com_revoke	<u>'</u> ] 0 <u>'</u> ]
Com_revoke_all	0
Com_rollback	0   0
Com_rollback_to_savepoint Com_savepoint	
Com select	20310686
Com_set_option	9089818
Com_show_authors	0
Com_show_binlog_events	
Com_show_binlogs Com_show_charsets	0 24
Com_show_collations	18214
Com show column types	0
Com_show_contributors	
Com_show_create_db	
Com_show_create_event Com_show_create_func	0   0
Com_show_create_proc	0
Com_show_create_table	0
Com_show_create_trigger	
Com_show_databases	24
Com_show_engine_logs Com_show_engine_mutex	] 0   0
Com_show_engine_status	
Com_show_events	
Com_show_errors	0
Com_show_fields	147160
Com_show_grants	3
Com_show_grants Com_show_keys	2
Com_show_master_status	' ī '
Com_show_new_master	0
Com_show_open_tables	0
Com_show_plugins	0 0
Com_show_privileges Com_show_procedure_status	] 0
Com_show_processlist	12483
Com_show_profile	0
Com_show_profiles	0
Com_show_slave_hosts Com_show_slave_status	] 0   0
Com_show_status	1158
Com show storage engines	0 1
Com_show_table_status	2
Com_show_tables	29915
Com_show_triggers Com_show_variables	0 26295
Com_show_warnings	0
Com_slave_start	10
Com_slave_stop	0
Com_stmt_close	] 0
Com_stmt_execute Com_stmt_fetch	0
Com_stmt_prepare	1 0
Com_stmt_reprepare	0 [
Com_stmt_reset	] 0
Com_stmt_send_long_data	0   0
Com_truncate Com_uninstall_plugin	
Com_unlock_tables	209
Com_update	501411
Com_update_multi	23112
Com_xa_commit Com_xa_end	
Com_xa_prepare	1 0
Com_xa_recover	0
Com_xa_rollback	0
Com_xa_start	0
Compression Connections	OFF 4555052
Created_tmp_disk_tables	421231
Created_tmp_files	1172
Created_tmp_tables	2769149
Delayed_errors Delayed insert threads	0   0
Delayed_Insert_threads Delayed_writes	0
Flush_commands	Ĭ
Handler_commit	100721
Handler_delete	133583
Handler_discover Handler_prepare	0
Handler_read_first	404032
Handler_read_key	18292439681
Handler_read_next	33393351305
Handler_read_prev Handler_read_rnd	77792315 2969739139
Handler read rnd next	1 41965058450
Handler rollback	0

Handler_savepoint Handler_savepoint_rollback Handler_update Handler_write Innodb_buffer_pool_pages_data Innodb_buffer_pool_pages_dirty Innodb_buffer_pool_pages_flushed Innodb_buffer_pool_pages_free Innodb_buffer_pool_pages_misc Innodb_buffer_pool_pages_total Innodb_buffer_pool_read_ahead_rnd Innodb_buffer_pool_read_ahead_seq Innodb_buffer_pool_read_requests Innodb_buffer_pool_wait_free Innodb_buffer_pool_wait_free Innodb_buffer_pool_write_requests Innodb_data_fsyncs Innodb_data_pending_fsyncs Innodb_data_pending_reads Innodb_data_pending_writes Innodb_data_pending_writes	0 0 4595750766 6069006380 19 0 0 493 0 512 1 0 77 12 0 0
Handler_update Handler_write Innodb_buffer_pool_pages_data Innodb_buffer_pool_pages_dirty Innodb_buffer_pool_pages_free Innodb_buffer_pool_pages_free Innodb_buffer_pool_pages_misc Innodb_buffer_pool_pages_total Innodb_buffer_pool_read_ahead_rnd Innodb_buffer_pool_read_ahead_seq Innodb_buffer_pool_reads Innodb_buffer_pool_reads Innodb_buffer_pool_wait_free Innodb_buffer_pool_write_requests Innodb_data_fsyncs Innodb_data_pending_fsyncs Innodb_data_pending_reads Innodb_data_pending_reads Innodb_data_pending_writes	4595750766 6069006380 19 0 0 493 0 512 1 0 77 12 0 0
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Innodb_buffer_pool_pages_dirty Innodb_buffer_pool_pages_flushed Innodb_buffer_pool_pages_free Innodb_buffer_pool_pages_misc Innodb_buffer_pool_pages_total Innodb_buffer_pool_read_ahead_rnd Innodb_buffer_pool_read_ahead_seq Innodb_buffer_pool_reads Innodb_buffer_pool_wait_free Innodb_buffer_pool_write_requests Innodb_buffer_pool_write_requests Innodb_data_fsyncs Innodb_data_pending_fsyncs Innodb_data_pending_reads Innodb_data_pending_writes	0 0 493 0 512 1 0 77 12 0 0 3
Innodb_buffer_pool_pages_flushed Innodb_buffer_pool_pages_free Innodb_buffer_pool_pages_misc Innodb_buffer_pool_pages_total Innodb_buffer_pool_read_ahead_rnd Innodb_buffer_pool_read_ahead_seq Innodb_buffer_pool_reads Innodb_buffer_pool_wait_free Innodb_buffer_pool_write_requests Innodb_buffer_pool_write_requests Innodb_data_fsyncs Innodb_data_pending_fsyncs Innodb_data_pending_reads Innodb_data_pending_writes	0 493 0 512 1 0 77 12 0 0
Innodb_buffer_pool_pages_free Innodb_buffer_pool_pages_misc Innodb_buffer_pool_pages_total Innodb_buffer_pool_read_ahead_rnd Innodb_buffer_pool_read_ahead_seq Innodb_buffer_pool_read_requests Innodb_buffer_pool_wait_free Innodb_buffer_pool_write_requests Innodb_data_fsyncs Innodb_data_pending_fsyncs Innodb_data_pending_reads Innodb_data_pending_writes	493 0 512 1 0 77 12 0 0 0 3
Innodb_buffer_pool_pages_misc Innodb_buffer_pool_pages_total Innodb_buffer_pool_read_ahead_rnd Innodb_buffer_pool_read_ahead_seq Innodb_buffer_pool_read_requests Innodb_buffer_pool_reads Innodb_buffer_pool_wait_free Innodb_buffer_pool_write_requests Innodb_data_fsyncs Innodb_data_pending_fsyncs Innodb_data_pending_reads Innodb_data_pending_writes	0 512 1 0 77 12 0 0 0
Innodb_buffer_pool_pages_total Innodb_buffer_pool_read_ahead_rnd Innodb_buffer_pool_read_ahead_seq Innodb_buffer_pool_read_requests Innodb_buffer_pool_reads Innodb_buffer_pool_wait_free Innodb_buffer_pool_write_requests Innodb_data_fsyncs Innodb_data_pending_fsyncs Innodb_data_pending_reads Innodb_data_pending_writes	512 1 0 77 12 0 0 0
Innodb_buffer_pool_read_ahead_rnd Innodb_buffer_pool_read_ahead_seq Innodb_buffer_pool_read_requests Innodb_buffer_pool_reads Innodb_buffer_pool_wait_free Innodb_buffer_pool_write_requests Innodb_data_fsyncs Innodb_data_pending_fsyncs Innodb_data_pending_reads Innodb_data_pending_writes	1 0 77 12 0 0 0
Innodb_buffer_pool_read_ahead_seq Innodb_buffer_pool_read_requests Innodb_buffer_pool_reads Innodb_buffer_pool_wait_free Innodb_buffer_pool_write_requests Innodb_data_fsyncs Innodb_data_pending_fsyncs Innodb_data_pending_reads Innodb_data_pending_writes	0 77 12 0 0 3
Innodb_buffer_pool_read_requests Innodb_buffer_pool_reads Innodb_buffer_pool_wait_free Innodb_buffer_pool_write_requests Innodb_data_fsyncs Innodb_data_pending_fsyncs Innodb_data_pending_reads Innodb_data_pending_writes	77 12 0 0 3 0
Innodb_buffer_pool_reads Innodb_buffer_pool_wait_free Innodb_buffer_pool_write_requests Innodb_data_fsyncs Innodb_data_pending_fsyncs Innodb_data_pending_reads Innodb_data_pending_writes	0 0 3 0
Innodb_buffer_pool_wait_free Innodb_buffer_pool_write_requests Innodb_data_fsyncs Innodb_data_pending_fsyncs Innodb_data_pending_reads Innodb_data_pending_writes	0 3 0
Innodb_buffer_pool_write_requests	3 0
Innodb_data_pending_fsyncs Innodb_data_pending_reads Innodb_data_pending_writes	0
Innodb_data_pending_reads Innodb_data_pending_writes	
Innodb_data_pending_writes [	0
	0
Innodb_data_read	2494464
Innodb_data_reads	25 3
Innodb_data_writes Innodb_data_written	1536
Innodb_data_written Innodb_dblwr_pages_written	0
Innodb_dblwr_writes	0
Innodb_log_waits	Ö
Innodb_log_write_requests	Ö
Innodb_log_writes	1
Innodb_os_log_fsyncs	3
Innodb_os_log_pending_fsyncs	0
Innodb_os_log_pending_writes	0
Innodb_os_log_written	512
Innodb_page_size	16384
Innodb_pages_created	0
Innodb_pages_read	19
Innodb_pages_written	0
Innodb_row_lock_current_waits	0
Innodb_row_lock_time	0
Innodb_row_lock_time_avg Innodb_row_lock_time_max	0
Innodb_row_lock_waits	0
Innodb_rows_deleted	0
Innodb rows inserted	Ö
Innodb_rows_read	0
Innodb_rows_updated	0
Key_blocks_not_flushed	0
Key_blocks_unused	6917
Key_blocks_used	53585
Key_read_requests	35870213140
Key_reads	13788784
Key_write_requests	35265303
Key_writes	2467239 0.000000
Last_query_cost   Max_used_connections	3001
Not_flushed_delayed_rows	0
Open_files	238
Open streams	0
Open_table_definitions	228
Open_tables	160
Opened_files	20864567
Opened_table_definitions	653
Opened_tables	13202613
Prepared_stmt_count	0
Qcache_free_blocks	10480
Qcache_free_memory Qcache_hits	38697120 17943956
Qcache_inserts	8251298
Qcache_lowmem_prunes	560647
Ocache not cached	11879434
Qcache_queries_in_cache	54611
Qcache_total_blocks	125193
Queries	57755205
Questions	57582352
Rpl_status	NULL
Select_full_join	602236
Select_full_range_join	6851
Select_range   Select_range_check	1633467 0
	10981650
Select_scan   Slave_open_temp_tables	0
Slave retried transactions	0
Slave_running	OFF
Slow_launch_threads	206
Slow_queries ]	516237
Sort_merge_passes	548
Sort_range	293328
Sort_rows	2831414035
Sort_scan	2726547 0
Ssl_accept_renegotiates	0
Ssl_accepts   Ssl_callback_cache_hits	0
Ssl_cipher	J
Ssl_cipher_list	
Ssl_client_connects	0
Ssl_connect_renegotiates	0
Ssl_ctx_verify_depth	Ö
Ssl_ctx_verify_mode	0
Ssl_default_timeout	0
Ssl_finished_accepts	0
Ssl_finished_connects	0
Ssl_session_cache_hits	0
Ssl_session_cache_misses	0
Ssl_session_cache_mode Ssl session cache overflows	NONE 0
SSI session cache overflows	U

Ssl_session_cache_size Ssl session cache timeouts	] 0
Ssl sessions reused	1 0
Ssl_used_session_cache_entries	ı' o ı
Ssl verify depth	1 0
Ssl verify mode	1 0
Ssl version	
Table_locks_immediate	46406490
Table_locks_waited	1428430
Tc_log_max_pages_used	[ 0 ]
Tc_log_page_size	] 0
Tc_log_page_waits	[ 0
Threads_cached	] 33
Threads_connected	33
Threads_created	77809
Threads_running	7
Uptime	195854
Uptime_since_flush_status	195854

### 3.2. process list

[root@development ~]# mysqladmin -u root -p -h 127.0.0.1 processlist Enter password:

+-	+ Id	User	Host	+   db	Command	+   Time	State	+   Info
İ	23648   23878   23881	dbuser dbuser root	192.168.3.237:1220 www.testdb.com:53639 localhost:57243	testdb   testdb	Sleep Sleep Query	2733   7   0		show processlist

mysql -u root -pneo -S /tmp/mysql.sock -e "show full processlist;"|grep -v Sleep

2. mysqldump - a database backup program

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 ${\it 4. myisamchk-MyISAM\ Table-Maintenance}\\$ 

Utility

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4. myisamchk — MyISAM Table-Maintenance Utility

先停止mysqld, 在--datadir目录运行

myisamchk \*/\*.MYI >/dev/null #检查哪些表需要修复

修复用以下命令一个个修复:

myisamchk -r table.MYI

更省事的做法:

MySQL server

myisamchk -r /var/lib/mysql/\*.MYI

myisamchk可用crontab定時最佳化table

0 \* \* 0 /usr/bin/myisamchk -s /var/lib/mysql/\*/\*.MYI

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3. mysqladmin - client for administering a

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5. mysqlcheck — A Table Maintenance and

Repair Program

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5. mysqlcheck — A Table Maintenance and Repair Program

即可最佳化所有db

mysqlcheck -a -c -o -r --all-databases -uroot -p
-a = Analyse given tables.
-c = Check table for errors
-o = Optimise table
-r = Can fix almost anything except unique keys that aren't unique

mysqlcheck -A -o -r -p

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4. myisamchk — MyISAM Table-Maintenance

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6. mysqlslap - load emulation client

Utility

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6. mysqlslap - load emulation client

-auto-generate-sql, -a 自动生成测试表和数据 -auto-generate-sql-load-type=type 测试语句的类型。取值包括: read, key, write, update和mixed(默认)。 -number-char-cols=N, -x N 自动生成的测试表中包含多少个字符类型的列,默认1 -number-int-cols=N, -y N 自动生成的测试表中包含多少个数字类型的列, 默认1 -number-of-queries=N 总的测试查询次数(并发客户数×每客户查询次数) -query=name,-q 使用自定义脚本执行测试,例如可以调用自定义的一个存储过程或者sql语句来执行测试。 -create-schema 测试的schema, MySQL中schema也就是database -commint=N 多少条DML后提交一次 -compress,-C 如果服务器和客户端支持都压缩,则压缩信息传递 -concurrency=N, -c N 并发量,也就是模拟多少个客户端同时执行select。可指定多个值,以逗号或者-delimiter参数指定的值做为分隔符 -engine=engine\_name, -e engine\_name 创建测试表所使用的存储引擎,可指定多个 -iterations=N, -i N 测试执行的迭代次数 -detach=N 执行N条语句后断开重连 -debug-info, -T 打印内存和CPU的信息 -only-print 只打印测试语句而不实际执行 mysqlslap -u root -p -h localhost -c 10,50,100,200 -i 1 \
--engine=myisam --auto-generate-sql-load-type=mixed --number-of-queries=50000 \
--number-char-cols=5 --number-int-cols=5 --auto-generate-sql mysqlslap --defaults-file=/etc/my.cnf --concurrency=50,100,200 --iterations=1 \
--number-int-cols=4 --number-char-cols=4 --auto-generate-sql --auto-generate-sql-addautoincrement --auto-generate-sql-load-type=mixed --engine=myisam,innodb --number-of-queries=200 --debug-info \
-uroot -p -S/tmp/mysql.sock

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5. mysqlcheck — A Table Maintenance and

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7. mysqldumpslow - Parse and summarize the

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Repair Program MySQL slow query log.

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7. mysqldumpslow - Parse and summarize the MySQL slow query log.

开启记录日志,修改my.cnf加入下面几行

--log-slow-queries[=file\_name]

long\_query\_time = 10
log-slow-queries =

long\_query\_time 是指执行超过10秒的sql会被记录下来。

log-slow-queries设置把日志文件的位置,如果没有给出文件名值,默认未主机名,后缀为-slow.log。如果给出了文件名,但不是绝对路径名,文件则写入数据目录。

cat /etc/mysql/my.cnf

[mysqld]
set-variable=long\_query\_time=1
log-slow-queries=/var/log/mysql/log-slow-queries.log

You must create the file manually and change owners this way:

touch /var/log/mysql/log-slow-queries.log
chown mysql.mysql -R /var/log/mysql/log-slow-queries.log

\$ mysqldumpslow /var/log/mysql/log-slow-queries.log

mysqldumpslow 参数

- 1. -s,是order的顺序,说明写的不够详细,俺用下来,包括看了代码,主要有c,t,l,r和ac,at,al,ar,t=time,l=lock time,r=rows分别是按照query次数,时间,lock的时间和返回的记录数来排序,前面加了a的时倒叙
- 2. -t, 是top n的意思, 即为返回前面多少条的数据
- 3. -g, 后边可以写一个正则匹配模式, 大小写不敏感的
- 4. -g, 后边可以写一个正则匹配模式, 大小写不敏感的

mysqldumpslow -s c -t 20 ubuntu-slow.log

mysqldumpslow -s r -t 20 ubuntu-slow.log

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6. mysqlslap - load emulation client

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# 第7章 Database Administration

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### 1. User Account Management

1.1. Create User

1.2. Drop User

1.3. Rename User

1.4. SET PASSWORD

1.5. Reset root password

#### 2. Access Privilege System

- 2.1. Grant privileges
- 2.2. Revoke privileges
- 2.3. Show Privileges

### 3. 查看版本

4. 当前数据

### 1. User Account Management

```
1.1. Create User
```

```
CREATE USER user [IDENTIFIED BY [PASSWORD] 'password']
[, user [IDENTIFIED BY [PASSWORD] 'password'] ...

CREATE USER 'test'@'xxx.xxx.xxx.xxx' IDENTIFIED BY 'your_password';

add a new user by grant

GRANT ALL PRIVILEGES ON opencart.* TO 'neo'@'localhost' IDENTIFIED BY 'chen' WITH GRANT OPTION;

GRANT ALL PRIVILEGES ON *.* TO 'neo'@'localhost' IDENTIFIED BY 'chen' WITH GRANT OPTION;
```

### 1.2. Drop User

FLUSH PRIVILEGES;

```
DROP USER user [, user] ...
```

RENAME USER old\_user TO new\_user
[, old\_user TO new\_user] ...

1.4. SET PASSWORD

SET PASSWORD FOR 'bob'@'%.loc.gov' = PASSWORD('newpass');

1.5. Reset root password

忘记root密码是使用

shell>mysqld\_safe --skip-grant-tables & shell>mysqld\_min -u root flush-privileges password "newpassword"

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7. mysqldumpslow - Parse and summarize the

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2. Access Privilege System

MySQL slow query log.

1.3. Rename User

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### 2. Access Privilege System

2.1. Grant privileges

```
Global privileges
```

```
GRANT ALL ON *.* TO 'someuser'@'somehost';
GRANT SELECT, INSERT ON *.* TO 'someuser'@'somehost';
```

### Database privileges

```
GRANT ALL ON mydb.* TO 'someuser'@'somehost';
GRANT SELECT, INSERT ON mydb.* TO 'someuser'@'somehost';
```

### Table privileges

```
GRANT ALL ON mydb.mytbl TO 'someuser'@'somehost';
GRANT SELECT, INSERT ON mydb.mytbl TO 'someuser'@'somehost';
```

### Column privileges

```
GRANT SELECT (col1), INSERT (col1,col2) ON mydb.mytbl TO 'someuser'@'somehost';
```

### Routine privileges

```
GRANT CREATE ROUTINE ON mydb.* TO 'someuser'@'somehost';
GRANT EXECUTE ON PROCEDURE mydb.myproc TO 'someuser'@'somehost';
```

### 2.2. Revoke privileges

```
REVOKE
```

```
priv_type [(column_list)]
    [, priv_type [(column_list)]] ...
ON [object_type] priv_level
    FROM user [, user] ...

REVOKE ALL PRIVILEGES, GRANT OPTION
    FROM user [, user] ...
```

## 2.3. Show Privileges

```
Index_priv: Y
Alter_priv: Y
Show_db_priv: Y
Super_priv: Y
Super_priv: Y
Create_tmp_table_priv: Y
Execute_priv: Y
Execute_priv: Y
Repl_slave_priv: Y
Repl_client_priv: Y
Create_view_priv: Y
Show_view_priv: Y
Create_routine_priv: Y
Alter_routine_priv: Y
Create_user_priv: Y
Trigger_priv: Y
Trigger_priv: Y
Ssl_type:
ssl_type:
ssl_type:
ssl_type:
x509_issuer:
x509_issuer:
x509_issuer:
x509_subject:
max_questions: 0
max_updates: 0
max_updates: 0
row in set (0.00 sec)
mysql>
```

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### 3. 查看版本

Server

```
mysql> select version();
  version()
5.0.77
1 row in set (0.00 sec)
mysql> status;
mysql Ver 14.12 Distrib 5.0.77, for redhat-linux-gnu (x86_64) using readline 5.1
Connection id:
                                1533
Current database:
                                root@localhost
SSL:
                                Not in use
Current pager:
                                stdout
Using outfile:
Using delimiter:
Server version:
Protocol version:
                                5.0.77 Source distribution
                                10
                                Localhost via UNIX socket latin1
Connection:
Server characterset:
Db characterset:
                                latin1
Client characterset:
Conn. characterset:
UNIX socket:
                                latin1
                                latin1
                                /var/lib/mysql/mysql.sock
1 day 21 hours 40 min 52 sec
Uptime:
Threads: 1 Questions: 22172 Slow queries: 0 Opens: 3130 Flush tables: 1 Open tables: 64 Queries per second avg: 0.135
```

Client

[root@development ~]# mysql -V mysql Ver 14.12 Distrib 5.0.77, for redhat-linux-gnu (x86\_64) using readline 5.1

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### 4. 当前数据

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mysql> status;

 $mysql \quad Ver \ 14.12 \ Distrib \ 5.0.77 \,, \ for \ redhat-linux-gnu \ (x86\_64) \ using \ readline \ 5.1$ 

Connection id: 101447 center

Current database: Current user: root@localhost SSL: Not in use stdout

Current pager: Using outfile: Using delimiter:

5.0.77 Source distribution Server version: Protocol version: Connection: 10 Localhost via UNIX socket

Server characterset: Db characterset: latin1 utf8

Client characterset: latin1 Conn. chara UNIX socket: characterset:

latin1 /var/lib/mysql/mysql.sock 45 days 23 hours 9 min 23 sec Uptime:

Threads: 6 Questions: 5434727 Slow queries: 68 Opens: 89637 Flush tables: 1 Open tables: 18 Queries per second avg: 1.368

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# 第8章 DDL - Data Definition Language

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### 1. Database

1.1. create

1.2. drop

<u>1.3. Alter</u>

1.4. Rename

#### 2. Table

2.1. create table ... select

2.2. modifiy table

2.3. TEMPORARY Table

2.4. Collate

### 3. Index

3.1. SHOW INDEX

3.2. CREATE INDEX

3.3. DROP INDEX

3.4. rebuild

4. 外键(Foreign Key)

5. View

6. Trigger

6.1. create trigger

6.2. drop trigger

6.3. show triggers

### 7. Partitioning

7.1. range

<u>7.2. list</u>

1. Database

1.1. create			
1.1. Create			
Creating a UTF-8 database			
CREATE DATABASE db_name DEFAULT CHARAC	TER SET utf8 COLLATE uti	f8_general_ci;	
Create a UTF-8 database with binary UTF-8 coll	lation.		
CREATE DATABASE dbname CHARACTER SET u	tf8 COLLATE utf8_bin;		
1.2. drop			
DROP DATABASE db_name;			
1.3. Alter			
ALTER DATABASE dbname DEFAULT CHARACTE	R SET utf8 COLLATE utf8	_general_ci;	
1.4. Rename			
RENAME {DATABASE   SCHEMA} db_name TO	new_db_name;		
before 5.0 version			
[neo@development ~]\$ mysqldump -uroot	-pchen db_old   mysql -	uroot -pchen db_new	
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4. 当前数据	起始页		2. Table

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```
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2. Table
2.1. create table ... select
创建空表
create table admin_user_history select * from admin_user where 1 <> 1;
创建有数据的表
create table admin_user_history select * from admin_user;
2.2. modifiy table
modifiy table
ALTER TABLE ecs_users add user_picture varchar(255);
2.3. TEMPORARY Table
临时表将在你连接期间存在。一旦断开时将自动删除表并释放所用的空间。你在连接期间删除该表也同样释放
空间。
声明临时表是一个HEAP表,允许你指定在内存中创建它
2.4. Collate
```

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ALTER TABLE `tmp\_cats` COLLATE='utf8\_general\_ci', CONVERT TO CHARSET utf8;

第8章 DDL - Data Definition Language

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3. Index

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3. Index

3.1. SHOW INDEX

SHOW INDEX FROM tbl\_name

垂直显示

SHOW INDEX FROM tbl\_name\G

3.2. CREATE INDEX

CREATE INDEX index\_name
ON table\_name (column\_name)

3.3. DROP INDEX

DROP INDEX index\_name ON tbl\_name

CREATE UNIQUE INDEX

CREATE UNIQUE INDEX index\_name
ON table\_name (column\_name)

3.4. rebuild

SHOW INDEX FROM tbl\_name alter index IND\_PK rebuild;

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4. 外键(Foreign Key)

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2. Table

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4. 外键(Foreign Key)

ON DELETE、ON UPDATE 事件触发限制,可选参数:

- 1. RESTRICT (限制外表中的外键改动)
- 2. CASCADE (跟随外键改动)
- 3. SET NULL (设空值)
- 4. SET DEFAULT (设默认值)
- 5. NO ACTION (无动作,默认的)

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3. Index 起始页 5. View

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5. View

CREATE VIEW view\_name AS SELECT column\_name(s) FROM table\_name WHERE condition

update view

SQL CREATE OR REPLACE VIEW Syntax CREATE OR REPLACE VIEW view\_name AS SELECT column\_name(s) FROM table\_name WHERE condition

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6. Trigger

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6. Trigger

6.1. create trigger

history

```
CREATE TABLE user_history SELECT * FROM user WHERE 1 <> 1

DELIMITER //
CREATE TRIGGER user_history BEFORE update ON user FOR EACH ROW
BEGIN
insert into user_history SELECT * FROM user WHERE id = OLD.id;
END; //
DELIMITER ;
```

6.2. drop trigger

```
DROP TRIGGER admin_user_history;
```

DELIMITER //
CREATE TRIGGER admin\_user\_history BEFORE update ON admin\_user FOR EACH ROW
BEGIN
insert into admin\_user\_history SELECT \* FROM admin\_user WHERE user\_id = OLD.user\_id;
END; //
DELIMITER;

6.3. show triggers

show triggers;

5. View <u>起始页</u> 7. Partitioning

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### 7. Partitioning

18.5.1. Partitioning Keys, Primary Keys, and Unique Keys
This section discusses the relationship of partitioning keys with primary keys and unique keys.
The rule governing this relationship can be expressed as follows: All columns used in the partitioning expression for a partitioned table must be part of every unique key that the table may have.

In other words, every unique key on the table must use every column in the table's partitioning expression. (This also includes the table's primary key, since it is by definition a unique key. This particular case is discussed later in this section.) For example, each of the following table creation statements is invalid:

```
SOL code:
mysql> create table tx (
-> id int not null
                     info_time date,
primary key(id,info_time)
       ->
        ->
        -> PARTITION BY RANGE(info_time div 100)
        -> (
                     PARTITION p_2008_11 VALUES LESS THAN (200812), PARTITION p_2008_12 VALUES LESS THAN (200901), PARTITION p_2009_01 VALUES LESS THAN (200902), PARTITION p_2009_02 VALUES LESS THAN (200903), PARTITION p_2009_03 VALUES LESS THAN (200904), PARTITION p_2009_04 VALUES LESS THAN (200905), PARTITION p_catch_all VALUES LESS THAN MAXVALUE
        ->
        ->
        ->
        ->
        ->
        ->
              );
Query OK, 0 rows affected (0.17 sec)
mysql>
mysql> SHOW VARIABLES LIKE '%partition%';
                                        | Value |
    Variable_name
 | have_partitioning | YES
1 row in set (0.00 sec)
```

SHOW PARTITIONS

SHOW PARTITION STATUS

```
7.1. range
```

```
CREATE TABLE t1 (
    year_col INT,
    some_data INT
)

PARTITION BY RANGE (year_col) (
    PARTITION p0 VALUES LESS THAN (1991),
    PARTITION p1 VALUES LESS THAN (1995),
    PARTITION p2 VALUES LESS THAN (1999),
    PARTITION p3 VALUES LESS THAN (2002),
    PARTITION p4 VALUES LESS THAN (2006),
    PARTITION p5 VALUES LESS THAN MAXVALUE
);
```

```
e.g.2
```

```
CREATE TABLE rc
            a INT NOT NULL,
b INT NOT NULL
PARTITION BY RANGE COLUMNS(a,b)
            PARTITION PO VALUES LESS THAN (10,5),
PARTITION PO VALUES LESS THAN (20,10),
PARTITION PO VALUES LESS THAN (MAXVALUE,15),
PARTITION PO VALUES LESS THAN (MAXVALUE, MAXVALUE)
);
7.2. list
CREATE TABLE client_firms (
            id INT,
name VARCHAR(35)
           FITION BY LIST (id) (
PARTITION r0 VALUES IN (1, 5, 9, 13, 17, 21),
PARTITION r1 VALUES IN (2, 6, 10, 14, 18, 22),
PARTITION r2 VALUES IN (3, 7, 11, 15, 19, 23),
PARTITION r3 VALUES IN (4, 8, 12, 16, 20, 24)
 PARTITION BY LIST (id)
CREATE TABLE 1c (
            a INT NULL,
b INT NULL
PARTITION BY LIST COLUMNS(a,b) (
    PARTITION p0 VALUES IN( (0,0), (NULL,NULL) ),
    PARTITION p1 VALUES IN( (0,1), (0,2), (0,3), (1,1),
    PARTITION p2 VALUES IN( (1,0), (2,0), (2,1), (3,0),
    PARTITION p3 VALUES IN( (1,3), (2,2), (2,3), (3,2),
);
CREATE TABLE th (id INT, name VARCHAR(30), adate DATE) PARTITION BY LIST(YEAR(adate))
     PARTITION p1999 VALUES IN (1995, 1999, 2003)

DATA DIRECTORY = '/var/appdata/95/data'
INDEX DIRECTORY = '/var/appdata/95/idx',

PARTITION p2000 VALUES IN (1996, 2000, 2004)

DATA DIRECTORY = '/var/appdata/96/data'
INDEX DIRECTORY = '/var/appdata/96/idx',

PARTITION p2001 VALUES IN (1997, 2001, 2005)

DATA DIRECTORY = '/var/appdata/97/data'
INDEX DIRECTORY = '/var/appdata/97/idx',

PARTITION p2000 VALUES IN (1998, 2002, 2006)

DATA DIRECTORY = '/var/appdata/98/data'
INDEX DIRECTORY = '/var/appdata/98/idx'
7.3. 添加分区
mysql 5.5+
CREATE TABLE expenses
     expense_date DATE NOT NULL, category VARCHAR(30), amount DECIMAL (10,3)
ALTER TABLE expenses PARTITION BY LIST COLUMNS (category)
     PARTITION p01 VALUES IN ( 'lodging', 'food'),
PARTITION p02 VALUES IN ( 'flights', 'ground transportation'),
PARTITION p03 VALUES IN ( 'leisure', 'customer entertainment'),
PARTITION p04 VALUES IN ( 'communications'),
PARTITION p05 VALUES IN ( 'fees')
SELECT
      partition_name part, partition expression expr,
```

```
table_rows
FROM
    INFORMATION SCHEMA.partitions
WHERE
    TABLE_SCHEMA = schema()
AND TABLE_NAME='employees';
select
    partition_name part,
partition_expression expr,
from_seconds(partition_description) descr,
    table_rows
FROM
INFORMATION_SCHEMA.partitions
WHERE
         TABLE_SCHEMA = 'test'
AND TABLE_NAME='t2';
/* 在MySQL 5.1中*/
CREATE TABLE t2
    dt DATE
PARTITION BY RANGE (TO_DAYS(dt))
    PARTITION p01 VALUES LESS THAN (TO_DAYS('2007-01-01')), PARTITION p02 VALUES LESS THAN (TO_DAYS('2008-01-01')), PARTITION p03 VALUES LESS THAN (TO_DAYS('2009-01-01')), PARTITION p04 VALUES LESS THAN (MAXVALUE));
Table: t2
Create Table: CREATE TABLE `t2` (
  `dt` date DEFAULT NULL
) ENGINE=MYISAM DEFAULT CHARSET=latin1
) ENGINE=MyISAM DEFAULT CHARSET=IATIN1

/*!50100 PARTITION BY RANGE (TO_DAYS(dt))

(PARTITION p01 VALUES LESS THAN (733042) ENGINE = MyISAM,

PARTITION p02 VALUES LESS THAN (733407) ENGINE = MyISAM,

PARTITION p03 VALUES LESS THAN (733773) ENGINE = MyISAM,

PARTITION p04 VALUES LESS THAN MAXVALUE ENGINE = MyISAM) */
   /*在MySQL 5.5中*/
CREATE TABLE t2
    dt DATE
PARTITION BY RANGE COLUMNS (dt)
    PARTITION p01 VALUES LESS THAN ('2007-01-01'), PARTITION p02 VALUES LESS THAN ('2008-01-01'), PARTITION p03 VALUES LESS THAN ('2009-01-01'), PARTITION p04 VALUES LESS THAN (MAXVALUE));
Table: t2
Create Table: CREATE TABLE `t2` (
  `dt` date DEFAULT NULL
DEFAULT NOLL

Market Default Noll

Pardine Mylsam Default Charset = latin 1

/*!50500 Partition by Range Columns(dt)

(Partition p01 Values Less Than ('2007-01-01') ENGINE = Mylsam,

Partition p02 Values Less Than ('2008-01-01') ENGINE = Mylsam,

Partition p03 Values Less Than ('2009-01-01') ENGINE = Mylsam,

Partition p04 Values Less Than (Maxvalue) ENGINE = Mylsam) */
```

partition\_description descr,

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6. Trigger

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# 第9章 SQL Statement Syntax

Structured Query Language

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4. SOL 92

5. Functions and Operators

5.1. COUNT

5.2. String

5.2.1. LEFT/RIGHT

5.2.2. RPAD/LPAD

5.2.3. CONCAT

5.2.4. replace

5.3. Data and Time

5.3.1. Unix time

### 1. DISTINCT

SELECT DISTINCT user.name FROM user

SELECT DISTINCT user.name FROM user

7. Partitioning <u>起始页</u> 2. replace

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第9章 SQL Statement Syntax

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2. replace

replace into

replace into (id) value('1')

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3. OUTFILE/LOAD DATA INFILE

第9章 SQL Statement Syntax

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### 3. OUTFILE/LOAD DATA INFILE

```
SELECT * INTO OUTFILE '/home/mark/Orders.txt'
FIELDS
TERMINATED BY = ','
FROM Orders
WHERE Order_Date >= '2000-01-01'

LOAD DATA INFILE 'data.txt' INTO TABLE db2.my_table;

3.1. Export data to CSV from MySQL

SELECT *
INTO OUTFILE '/tmp/products.csv'
FIELDS TERMINATED BY ','
ENCLOSED BY '"'
ESCAPED BY '\'
LINES TERMINATED BY '\n'
FROM products
```

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2. replace <u>起始页</u> 4. SQL 92

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```
4. SQL 92
insert + select
insert into product_type_commission select id,5,1,1,0,0,0,0,0 from product_type where
title='notebook' and is_physical=0;
update table1,table2
ALTER TABLE `customer` ADD COLUMN `cutoff_time` TIMESTAMP NOT NULL default '0000-00-00 00:00:00'; update customer,agent set customer.cutoff_time = agent.cutoff_time where customer.id = agent.id; ALTER TABLE `agent` DROP COLUMN `cutoff_time`;
commit;
update table1 set field1 = (select value from table2)
UPDATE
             transaction
SET
             transaction.total_sold_price = (
                           SELECT
                                        SUM(transaction_item.price)
             FROM
                                        transaction item
                          WHERE transaction_item.transaction_id = 100
WHERE
             transaction.id = 100
update table1, (select * from other) as table2 set table1.field1 = table2.field1
UPDATE
             transaction.(
                                       SELECT
                                                                                SUM(product item.bought price) AS
total_bought_price, transaction_item.transaction_id
                                                                   FROM
                                                                                transaction item
                                                     WHERE
                                                                                transaction_item.transaction_id IN ( '123','456'
)
                                                 ) as total
SET
             transaction.total_bought_price = total.total_bought_price
WHERE
             transaction.id = total.transaction_id
join + subquery
select u.*,t.category,t.items,t.[property] from tb_sysregchkusers as u left join (select a.items as category, b.* from (select id, items from tb_sysregchktask where categoryid=0) as a left join tb_sysregchktask as b on b.categoryid=a.id ) as t on u.taskID=t.id
select * from tb_sysregchklog where CONVERT(datetime,CONVERT(varchar(10),checkTime,120)) between
convert(datetime,'2007-12-12') and convert(datetime,'2007-12-12')
select DISTINCT user_point_history.user_id,user.username,
(select count(id) from transaction where id = user_point_history.transaction_id) as transactions, (SELECT SUM(u_p_h.points) FROM user_point_history as u_p_h WHERE u_p_h.type != 'RDMP' AND u_p_h.status IN('pr','ac') AND u_p_h.user_id = user_point_history.user_id) as total_points_earned, (SELECT SUM(u_p_h.points) FROM user_point_history as u_p_h WHERE u_p_h.type = 'RDMP' AND
(SELECT SUM(u_p_h.points) FROM user_point_history as u_p_h WHERE u_p_h.type = u_p_h.status IN('pr','ac') AND u_p_h.user_id = user_point_history.user_id) as total_points_redeemed
from user_point_history,user where user_point_history.user_id = user.id;
```

(total\_points\_earned - total\_points\_redeemed) as current\_balance\_points

select user\_id, username, transactions, total\_points\_earned, total\_points\_redeemed, (total\_points\_earned - total\_points\_redeemed) as current\_balance\_points from (select DISTINCT user\_point\_history.user\_id,user.username, (select count(id) from transaction where id = user\_point\_history.transaction\_id) as transactions, (SELECT SUM(u\_p\_h.points) FROM user\_point\_history as u\_p\_h WHERE u\_p\_h.type != 'RDMP' AND u\_p\_h.status IN('pr','ac') AND u\_p\_h.user\_id = user\_point\_history.user\_id) as total\_points\_earned, (SELECT SUM(u\_p\_h.points) FROM user\_point\_history as u\_p\_h WHERE u\_p\_h.type = 'RDMP' AND u\_p\_h.status IN('pr','ac') AND u\_p\_h.user\_id = user\_point\_history.user\_id) as total\_points\_redeemed from user\_point\_history,user where user\_point\_history.user\_id = user.id) as user\_performance;

subquery作为一个字段使用

select product\_type\_attribute.\*,(select 'selected' from product\_type\_attribute\_set where
product\_type\_attribute\_set.product\_type\_attribute\_id = product\_type\_attribute.id and
product\_type\_attribute\_set.product\_type\_id = 26) as selected
from product\_type\_attribute;

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5. Functions and Operators

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```
5. Functions and Operators
```

1 row in set (0.00 sec)

```
5.1. COUNT
count()
SELECT (SELECT count(1) FROM ecs_category) as 'Export category count', (SELECT count(1) FROM ecs_goods) as 'Goods count', (SELECT count(1) FROM ecs_goods_attr) as 'Attr count';
5.2. String
5.2.1. LEFT/RIGHT
LEFT(str,len)
mysql> select left(concat('1','0000000'),5) as number;
  number
10000
1 row in set (0.00 sec)
RIGHT(str,len)
mysql> select right(concat('0000000','1'),5) as number;
  number
00001
1 row in set (0.00 sec)
5.2.2. RPAD/LPAD
补齐长度用'0'填充
RPAD(str,len,padstr)
mysql> select rpad('10',5,'0') as txt;
txt
10000
1 row in set (0.01 sec)
LPAD(str,len,padstr)
mysql> select lpad('10',5,'0') as txt;
  txt
  00010
```

```
CONCAT(str1,str2,...)
mysql> select concat('Neo',' ','Chen') as Name;
Name
Neo Chen
1 row in set (0.00 sec)
5.2.4. replace
select replace(goods_desc,':8000','') from ecs_goods;
update ecs_goods set goods_desc=replace(goods_desc,':8000','');
5.3. Data and Time
5.3.1. Unix time
mysql> SELECT UNIX_TIMESTAMP('2005-03-27 02:00:00');
UNIX_TIMESTAMP('2005-03-27 02:00:00') |
                    1111885200 |
-----
mysql> SELECT FROM_UNIXTIME(1111885200);
FROM_UNIXTIME(1111885200)
2005-03-27 03:00:00
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4. SQL 92
                                                                                  2. Snapshot Backup
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2. Snapshot Backup

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2. ODBC

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# 第 11 章 MySQL GUI/Web Manager

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- 2. Toad for MySQL Freeware
- 3. phpMyAdmin MySQL web administration tool
- 4. Maatkit Essential command-line utilities for MySQL
- 1. HeidiSQL

http://www.heidisql.com/

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3. MySQL native driver for PHP - mysqlnd

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2. Toad for MySQL Freeware

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2. Toad for MySQL Freeware

http://toadsoft.veriomigrations.com/

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3. phpMyAdmin - MySQL web administration

tool

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3. phpMyAdmin - MySQL web administration tool

homepage: http://www.phpmyadmin.net/

\$ wget http://nchc.dl.sourceforge.net/sourceforge/phpmyadmin/phpMyAdmin-3.1.3.1-all-languages.tar.bz2 \$ tar jxvf phpMyAdmin-3.1.3.1-all-languages.tar.bz2 \$ ln -s phpMyAdmin-3.1.3.1-all-languages phpMyAdmin

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2. Toad for MySQL Freeware

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4. Maatkit Essential command-line utilities for MySQL

http://www.maatkit.org/

3. phpMyAdmin - MySQL web administration

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## 第 12 章 FAQ

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- 1. 数据库内容替换
- 2. 查看错误代码
- 3. ERROR 1153 (08S01) at line 3168: Got a packet bigger than 'max\_allowed\_packet' bytes
- 4. 临时表是否需要建索引
- 1. 数据库内容替换

```
#!/bin/bash
HOST='localhost'
USER='neo'
PASS='chen'

SDB='neo'
TDB='netkiller'
MYSQLDUMP="mysqldump"
MYSQLDUMPOPTS="-h${HOST} -u${USER} -p${PASS}"

MYSQL="mysql"
MYSQLDUMPOPTS="-h${HOST} -u${USER} -p${PASS}"
#SED="sed -e 's/netkiller\.8800\.org/netkiller\.sf\.net/g' -e 's/陈景峰/景峰/g' -e 's/Neo/Netkiller/g'"

$MYSQL $MYSQLOPTS <<SQL
DROP DATABASE $TDB;
CREATE DATABASE $TDB DEFAULT CHARACTER SET utf8 COLLATE utf8_general_ci;
SQL

$MYSQLDUMP $MYSQLDUMPOPTS ${SDB} | sed -e 's/netkiller\.8800\.org/netkiller\.sf\.net/g' -e 's/陈景峰/景峰/g' -e 's/Neo/Netkiller/g' $MYSQL $MYSQLDUMP $MYSQLDUMPOPTS ${SDB} | $sed -e 's/netkiller\.8800\.org/netkiller\.sf\.net/g' -e 's/\skiller\g' $MYSQL $MYSQLDTS ${TDB} #echo "$MYSQLDUMP $MYSQLDUMPOPTS ${SDB} | $sed - $mySQL $mySQLOPTS ${TDB}"
```

4. Maatkit Essential command-line utilities for

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2. 查看错误代码

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2. 查看错误代码

mysql> \! perror 6
OS error code 6: No such device or address

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3. ERROR 1153 (08S01) at line 3168: Got a packet bigger than 'max\_allowed\_packet' bytes

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3. ERROR 1153 (08S01) at line 3168: Got a packet bigger than 'max\_allowed\_packet' bytes

 ${\tt max\_allowed\_packet=500M}$ 

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 2. 查看错误代码
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4. 临时表是否需要建索引

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3. ERROR 1153 (08S01) at line 3168: Got a packet bigger than 'max\_allowed\_packet' bytes

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# 部分 III. PostgreSQL

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2. Postgres 配置

3. PostgreSQL 实用实例参考

4. phpPgAdmin

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#### 16. Manager

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2. Database

3. Table

4. Backup / Restore

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## 第 15 章 PostgreSQL

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- 1. Install
- 2. Postgres 配置
- 3. PostgreSQL 实用实例参考
- 4. phpPgAdmin
- <u>5.</u>
- <u>6.</u>

## 1. Install

安装环境 ubuntu 8.10

\$ sudo apt-get install postgresql-8.3

\$ sudo apt-get install postgresql 下一页

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2. Postgres 配置

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## 2. Postgres 配置

8.1.5之后版本不在使用tcpip\_socket,改用listen\_addresses

去掉注释

```
listen_addresses = 'localhost'
```

如果有多个网络适配器可以指定 'ip' 或 '\*'

```
postgres@Linux-server:~$ vi /etc/postgresql/8.2/main/postgresql.conf
listen_addresses = '*'
postgres@Linux-server:~$
```

### 访问权限

```
netkiller@Linux-server:~$ sudo vi /etc/postgresql/8.1/main/pg_hba.conf
host woodart woodart 0.0.0.0/0 md5
hostssl woodart all 0.0.0.0/0 md5
```

### 设置Postgres管理员密码

```
netkiller@Linux-server:~$ sudo passwd postgres
Enter new UNIX password:
Retype new UNIX password:
passwd: password updated successfully
```

#### su postgres

```
netkiller@Linux-server:~$ su - postgres
Password:
postgres@Linux-server:~$ pwd
/var/lib/postgresql
postgres@Linux-server:~$
```

#### psql环境

```
postgres@Linux-server:~$ psql
Welcome to psql 8.1.4, the PostgreSQL interactive terminal.

Type: \copyright for distribution terms
   \h for help with SQL commands
   \? for help with psql commands
   \q or terminate with semicolon to execute query
   \q to quit

postgres=#
```

#### 退出\q

```
postgres=# \q
```

```
CREATE ROLE woodart LOGIN
   ENCRYPTED PASSWORD 'md58360b47e149f615d2d52f98d1b22431a'
   NOSUPERUSER NOINHERIT CREATEDB NOCREATEROLE;

CREATE DATABASE woodart
   WITH OWNER = woodart
   ENCODING = 'UTF8'
   TABLESPACE = pg_default;
```

### 使用psql登录

```
postgres@Linux-server:~$ psql -h127.0.0.1 -dwoodart -Uwoodart
Password for user woodart:
Welcome to psql 8.1.4, the PostgreSQL interactive terminal.

Type: \copyright for distribution terms
\h for help with SQL commands
\? for help with psql commands
\q or terminate with semicolon to execute query
\q to quit

SSL connection (cipher: DHE-RSA-AES256-SHA, bits: 256)
woodart=>
```

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3. PostgreSQL 实用实例参考

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## 3. PostgreSQL 实用实例参考 第 15 章 PostgreSQL

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## 3. PostgreSQL 实用实例参考

http://netkiller.8800.org/book/postgres/

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 4. phpPgAdmin

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## 4. phpPgAdmin

homepage: http://phppgadmin.sourceforge.net/

\$ wget http://nchc.dl.sourceforge.net/sourceforge/phppgadmin/phpPgAdmin-4.2.2.tar.bz2 \$ tar jxvf phpPgAdmin-4.2.2.tar.bz2
\$ ln -s phpPgAdmin-4.2.2 phpPgAdmin

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3. PostgreSQL 实用实例参考

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## 第 16 章 Manager

目录

- 1. User
- 2. Database
- 3. Table
- 4. Backup / Restore

<u>4.1. import</u> <u>4.2. 大型数据库</u>

## 1. User

新建用户

CREATE ROLE woodart LOGIN PASSWORD 'chen' NOINHERIT VALID UNTIL 'infinity';

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2. Database

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## 2. Database

新建数据

CREATE DATABASE woodart
WITH ENCODING='UTF8'
OWNER=woodart;

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3. Table

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## 3. Table

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## 4. Backup / Restore

Backup

```
pg_dump -i -h localhost -p 5432 -U user -Fc -c -f "your_db.backup" your_db
```

Restore

```
pg_restore -i -h localhost -p 5432 -U user -d your_db -v -c -Fc "your_db.backup"
```

local -> remote

```
set PG_HOME="C:\Program Files\PostgreSQL\8.1\bin"
%PG_HOME%\pg_dump.exe -i -h localhost -p 5432 -U woodart -Fc -c -f
"woodart.backup" woodart
%PG_HOME%\pg_restore.exe -i -h woodart.8800.org -p 5432 -U woodart -d woodart -v -
c -Fc "woodart.backup"
```

### 4.1. import

导入

\i file.backup

```
postgres=# \i /home/neo/woodart.backup
```

### 4.2. 大型数据库

split命令可以将大型文件切成小块以适应文件系统限制的单个文件大小。

分割,每650M为一个文件,试用于光盘备份

```
$ pg_dump dbname | split -b 650m - filename
```

合并,并且恢复到数据库中。

```
$ createdb dbname
$ cat filename* | psql dbname
```

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## 部分 IV. Oracle

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17. Installing Oracle Database
```

```
1. Installing Oracle Database 10g Release 2 on Linux x86
```

2.11gR2

3. Installing Oracle Client

4. Silence Install - Database

4.1. Response File

4.2. OS 配置脚本

4.3. 运行 runInstaller

5. Silence Install - Client

### 18. Manager

1. listener.ora

1.1. TNS 配置

1.1.1.11gR2

### 2. Account

2.1. show user

2.2. DEFAULT\_TABLESPACE

2.3. unlock/lock

3. 显示表

4. oracle 817 script

5. Script for automatic startup on boot

6. Run level shell script to start Oracle 10g services on RedHat Enterprise Linux (RHAS 4)

19. Oracle Gui

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2. Oracle Net Configuration Assistant
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     4. Other GUI - phpOraAdmin
20. CLI
     1. SQL*Plus
           1.1. startup/shutdown
           1.2. conn
           1.3. parameter
                 1.3.1. db
                 1.3.2. instance name
                 1.3.3. service name
                 1.3.4. global_name
                 1.3.5. db_name
                 1.3.6. db domain
                 1.3.7. sga
                 1.3.8. size
                 1.3.9. spfile
                 1.3.10. cache
           1.4. $ORACLE_HOME/sqlplus/admin/glogin.sql
           1.5. @运行SOL
     2. lsnrctl
     3. RMAN
           3.1. 数据库模式
           3.2. 完全备份
           3.3. 增量备份
           3.4. 恢复数据库
           3.5. 是用tar打包rman文件
```

1. Create instance

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## 第 17 章 Installing Oracle Database

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1. Installing Oracle Database 10g Release 2 on Linux x86

2. 11gR2

3. Installing Oracle Client

4. Silence Install - Database

4.1. Response File

4.2. OS 配置脚本

4.3. 运行 runInstaller

#### 5. Silence Install - Client

## 1. Installing Oracle Database 10g Release 2 on Linux x86

reference: http://www.oracle.com/technology/pub/articles/smiley\_10gdb\_install.html

To make these changes, cut and paste the following commands as root:

### 过程 17.1. Configure linux step by step

1. Verifying Your Installation

```
rpm -q binutils compat-db control-center gcc gcc-c++ glibc glibc-common \
gnome-libs libstdc++ libstdc++-devel make pdksh sysstat xscreensaver libaio openmotif21
installing package

yum install compat-gcc-32 compat-gcc-32-c++ compat-gcc-32-g77 compat-libf2c-32 compat-libstdc++-296 compat-libstdc++-33 compat-db compat-readline43
```

2. Verifying System Requirements

```
grep MemTotal /proc/meminfo
grep SwapTotal /proc/meminfo

Swap = mem * 2
```

3. Create the Oracle Groups and User Account

```
groupadd oinstall
groupadd dba
useradd -m -g oinstall -G dba oracle
passwd oracle
id oracle
```

4. Create Directories

5. Configuring the Linux Kernel Parameters

```
cat >> /etc/sysctl.conf <<EOF
kernel.shmall = 2097152
kernel.shmmax = 536870912
kernel.shmmni = 4096
kernel.sem = 250 32000 100 128
fs.file-max = 65536
net.ipv4.ip_local_port_range = 1024 65000
net.core.rmem_default=262144
net.core.wmem_default=262144
net.core.rmem_max=262144
net.core.wmem_max=262144
EOF
/sbin/sysctl -p</pre>
```

Run the following commands as root to verify your settings:

```
/sbin/sysctl -a | grep shm
/sbin/sysctl -a | grep sem
/sbin/sysctl -a | grep file-max
/sbin/sysctl -a | grep ip_local_port_range
/sbin/sysctl -a | grep rmem_default
/sbin/sysctl -a | grep rmem_max
/sbin/sysctl -a | grep wmem_default
/sbin/sysctl -a | grep wmem_max
```

6. Setting Shell Limits for the oracle User

```
cat >> /etc/security/limits.conf <<EOF oracle soft nproc 2047 oracle hard nproc 16384 oracle soft nofile 1024 oracle hard nofile 65536 EOF
```

7. /etc/profile

```
cat >> /etc/profile <<EOF
if [ \$USER = "oracle" ]; then
  if [ \$SHELL = "/bin/ksh" ]; then
  ulimit -p 16384
  ulimit -n 65536
  else
  ulimit -u 16384 -n 65536
  fi
  umask 022
fi
EOF

cat >> /etc/csh.login <<EOF
  if ( \$USER == "oracle" ) then
  limit maxproc 16384
  limit descriptors 65536
  umask 022
endif
EOF</pre>
```

8. .bash\_profile

```
# su - oracle
$ vim .bash_profile

export ORACLE_BASE=/u01/app/oracle
export ORACLE_HOME=$ORACLE_BASE/product/10.2.0.1
export ORACLE_SID=orcl
```

#### 过程 17.2. Installing Oracle

1. 编辑 /10201\_database\_linux32/database/install/oraparam.ini 添加

```
vim 10201_database_linux32/database/install/oraparam.ini
### #[Certified Versions]
Linux=redhat-3,SuSE-9,redhat-4,centos-5,UnitedLinux-1.0,asianux-1,asianux-2
[Linux-centos-5.1-optional]
TEMP_SPACE=80
SWAP_SPACE=150
MIN_DISPLAY_COLORS=256
```

2. install

```
gunzip xxxx.cpio.gz
cpio -idmv < xxxx.cpio
export LANG=en_US
./runInstaller</pre>
```

3. dbstart

```
# su - oracle
# dbstart
提示打开 /ade/vikrkuma_new/oracle/bin/tnslsnr 失败
```

编辑/u01/app/oracle/product/10.2.0.1/bin/dbstart

```
# Set this to bring up Oracle Net Listener ORACLE_HOME_LISTNER=/ade/vikrkuma_new/oracle 应该是在78行,将其改为:
# Set this to bring up Oracle Net Listener ORACLE_HOME_LISTNER=$ORACLE_HOME
```

/etc/oratable 将最后一行的最后一个字符由"N"改为"Y"

orcl: /u01/app/oracle/product/10.2.0.1:Y

## 过程 17.3. Configuring Storage

1. Partition the Disks

fdisk -l /dev/sdb

2. Filesystems

ZFS or btrfs

3. Create the Mount Point

mkdir /u02

Add the New Filesystem to /etc/fstab

Mount the New Filesystem

```
mount /u02
df -h /u02
```

Table created.

4. Create Oracle Directories and Set Permissions

```
mkdir -p /u02/oradata/demo1
chown -R oracle:oinstall /u02/oradata
chmod -R 775 /u02/oradata
```

5. Create a New Tablespace in the New Filesystem

```
Ex:
$ sqlplus

SQL*Plus: Release 10.2.0.1.0 - Production on Sun Nov 27 15:50:50 2005

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Enter user-name: system
Enter password:

Connected to:
Oracle Database 10g Enterprise Edition Release 10.2.0.1.0 - Production
With the Partitioning, OLAP and Data Mining options

SQL> create tablespace datal
2 datafile '/u02/oradata/demol/datal_01.dbf' size 100m
3 extent management local
4 segment space management auto;

Tablespace created.

Now you can use the new tablespace to store database objects such as tables and indexes.

Ex:
SQL> create table demotab (id number(5) not null primary key,
2 name varchar2(50) not null,
3 amount number(9,2))
4 tablespace datal;
```

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 部分 IV. Oracle
 起始页
 2. 11gR2

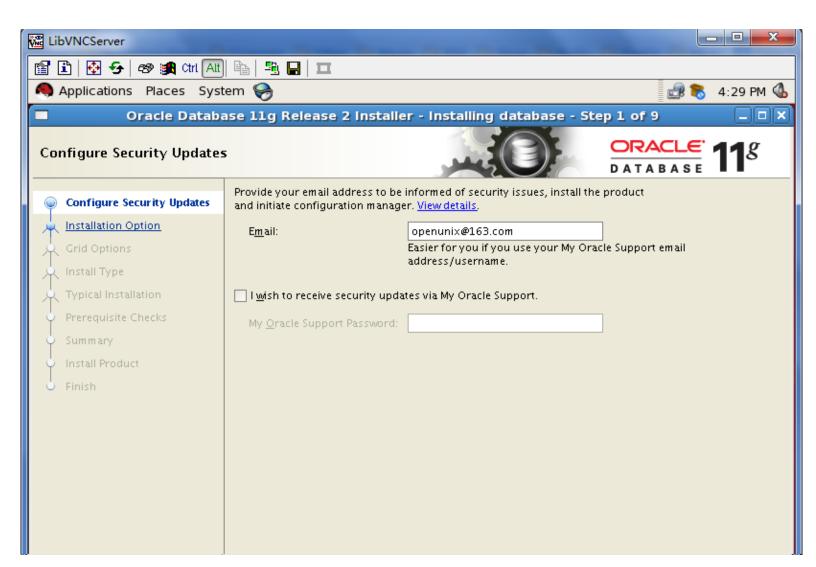
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## 2. 11gR2

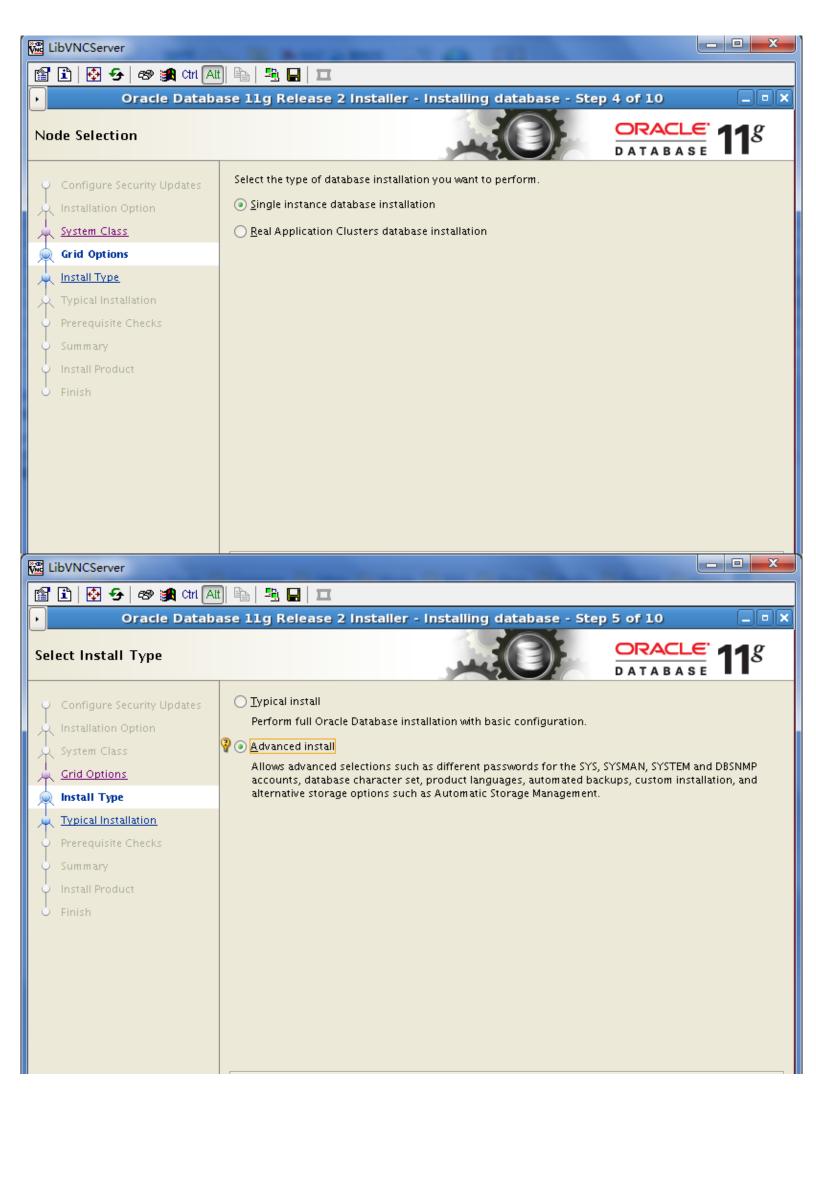
```
unzip linux.x64_l1gR2_database_lof2.zip
unzip linux.x64_l1gR2_database_2of2.zip

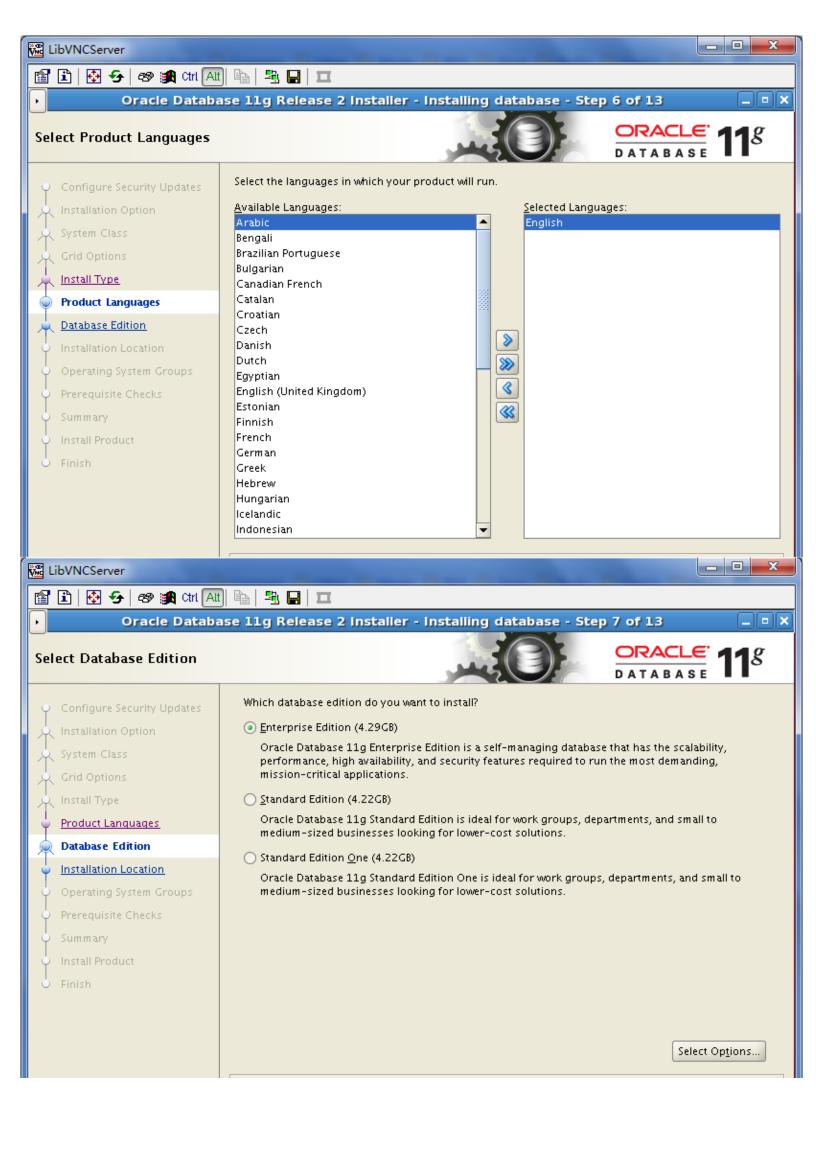
[oracle@wcs ~]$ vi .bash_profile
export TMP=/tmp
export ORACLE_BASE=/opt/oracle/
export ORACLE_BASE=/opt/oracle/
export ORACLE_HOME=$ORACLE_BASE/product/11.2.0/dbhome_1
export ORACLE_SID=orcl
export ORACLE_HOME_LISTNER=$ORACLE_HOME
export ORACLE_HOME_LISTNER=$ORACLE_HOME
export DATH=$ORACLE_HOME_bin:$PATH
export CLASSPATH=$ORACLE_HOME/lib:/lib64:/usr/lib64:/usr/local/lib64:/usr/X11R6/lib64/
export LD_LIBRARY_PATH=$ORACLE_HOME/JRE:$ORACLE_HOME/jlib:$ORACLE_HOME/rdbms/jlib
export LD_ASSUME_KERNEL=2.6.18
export NLS_LANG="AMERICAN_AMERICA.ZHS16GBK"

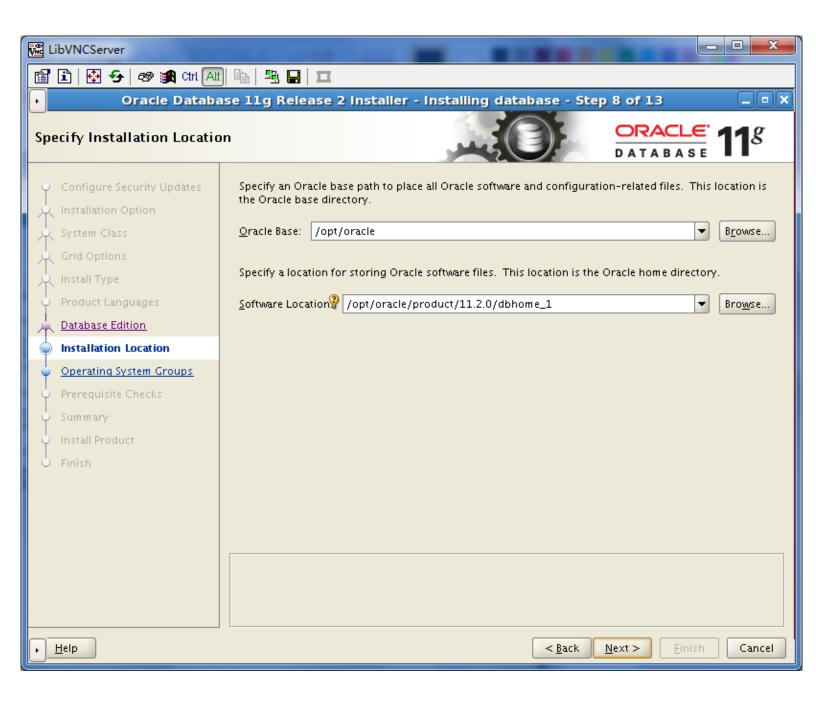
cat >> /etc/sysctl.conf <<EOF
fs.aio-max-nr = 3145728
fs.file-max = 681574
kernel.shmall = 1073741824
kernel.shmanz = 4398046511104
kernel.shmanx = 4398046511104
kernel.shmanx = 4950
kernel.sem = 250 32000 100 142
net.ipv4.ip_local_port_range = 9000 65500
net.core.rmem_default = 262144
net.core.wmem_default = 262144
net.core.wmem_default = 262144
net.core.wmem_default = 262144
net.core.wmem_max = 1048576
EOF
/sbin/sysctl -p</pre>
```

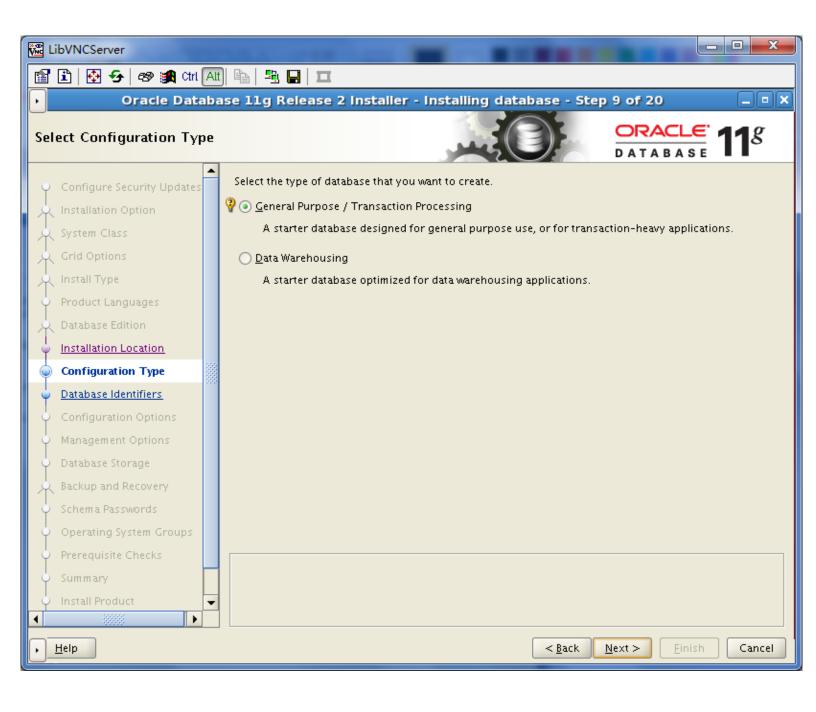


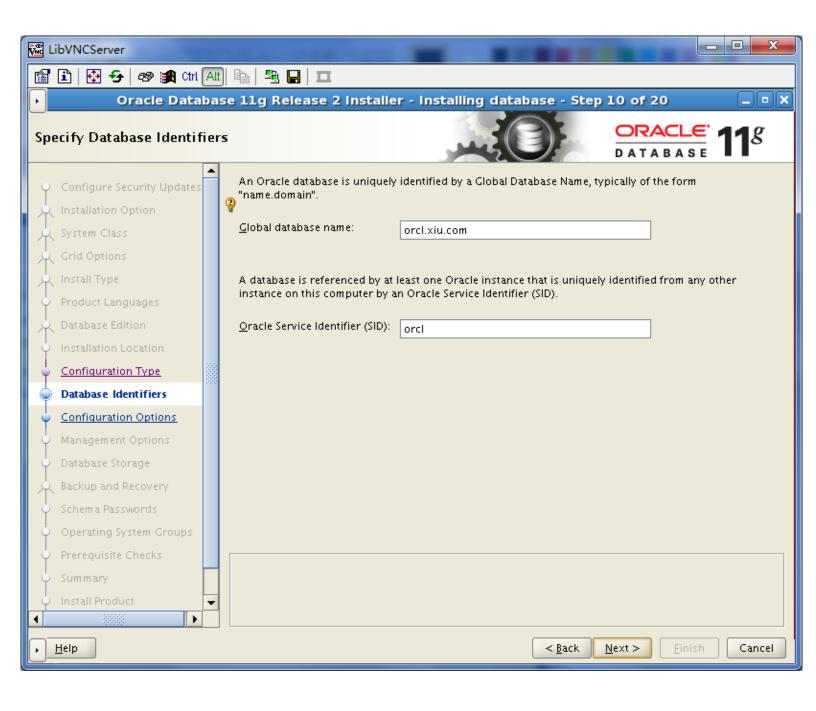


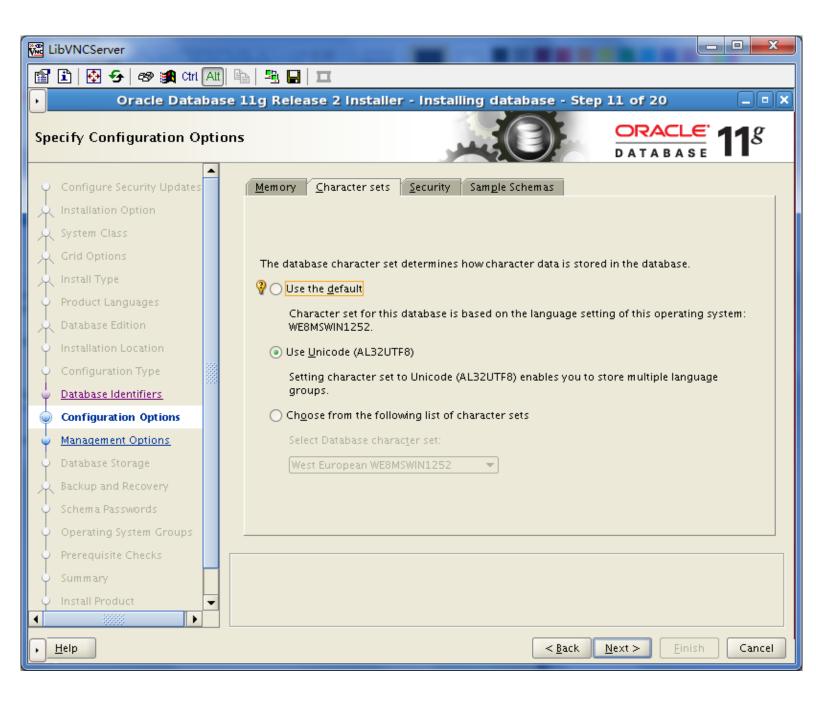


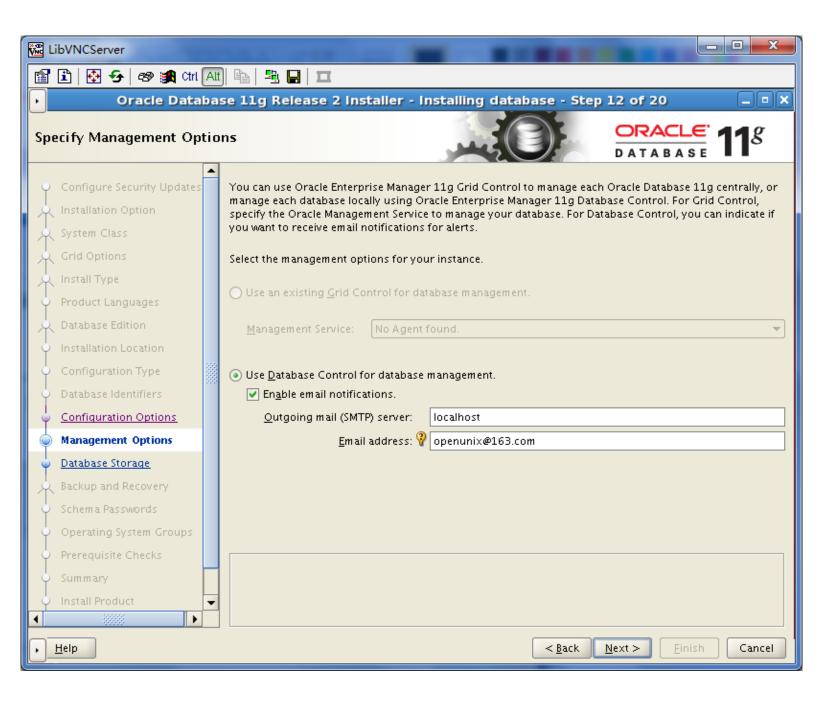


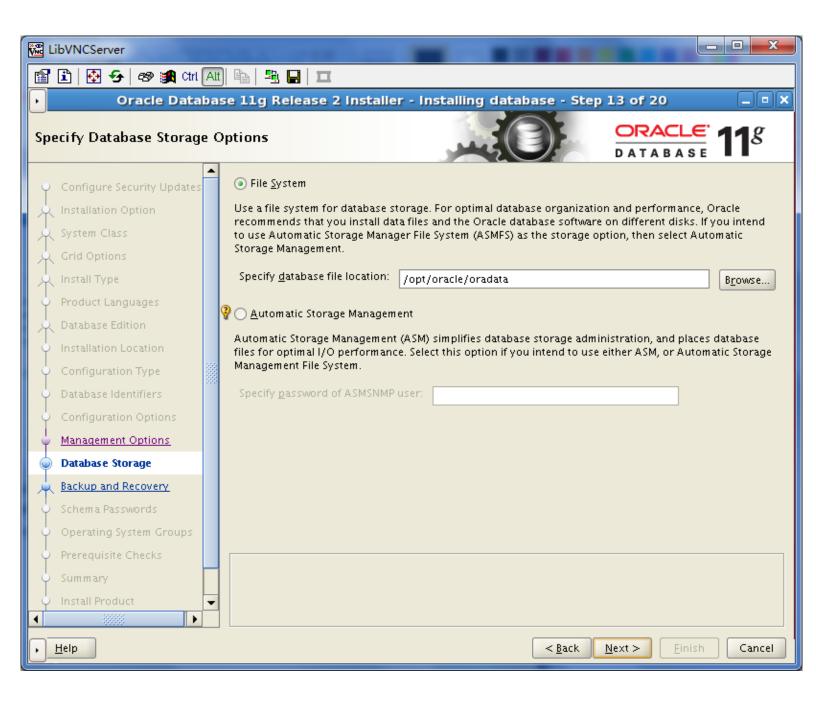


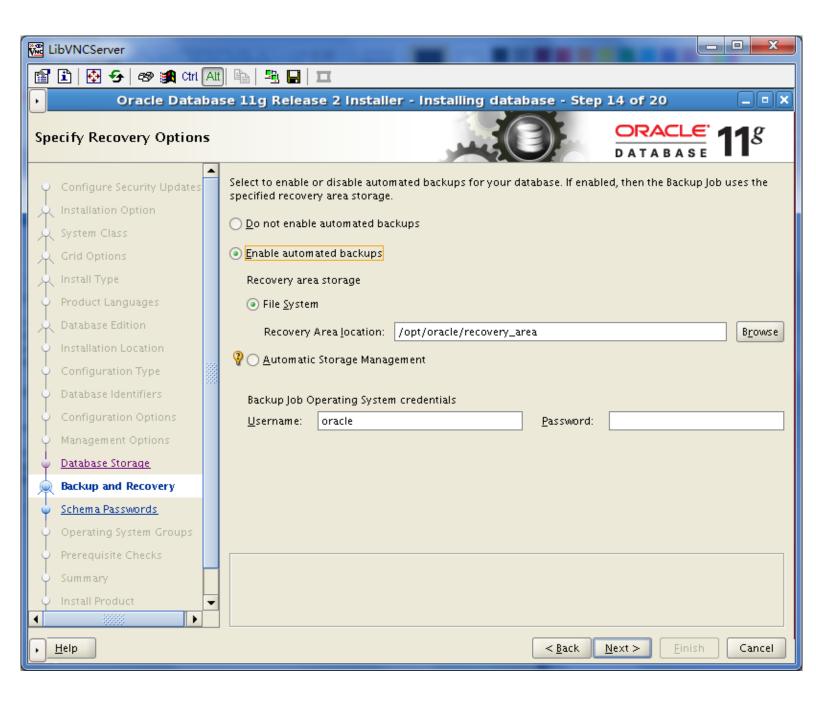


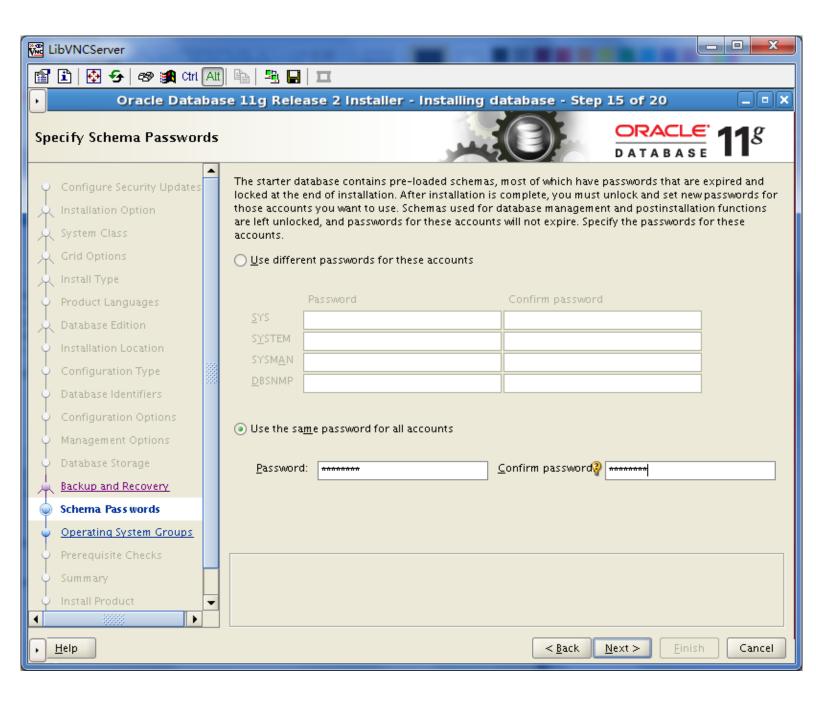


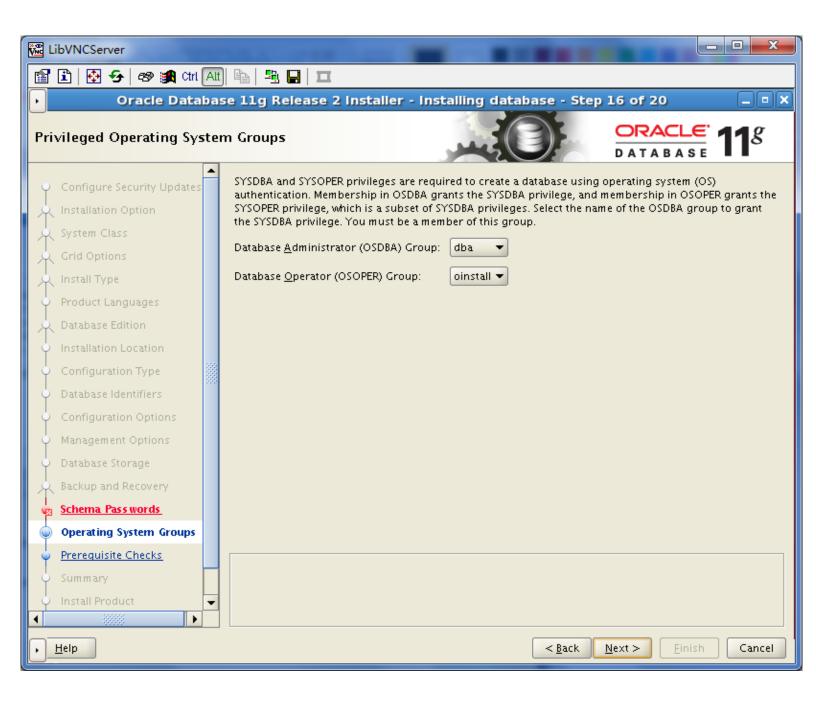


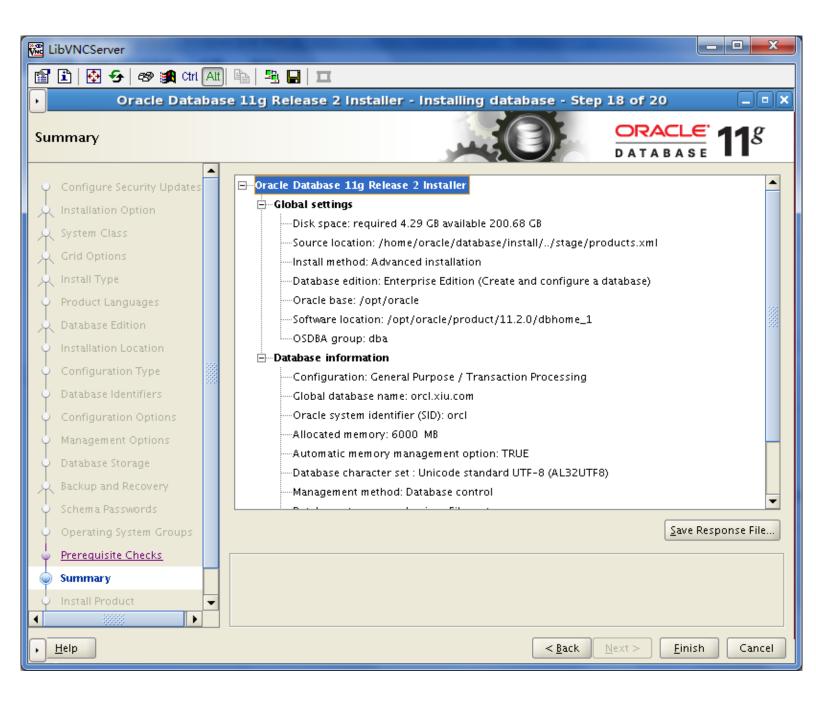


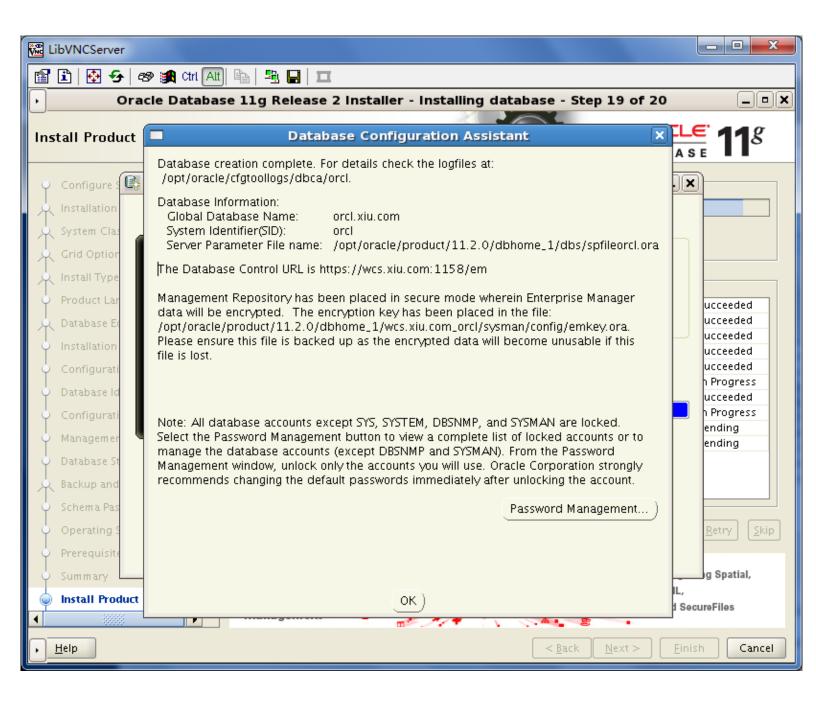


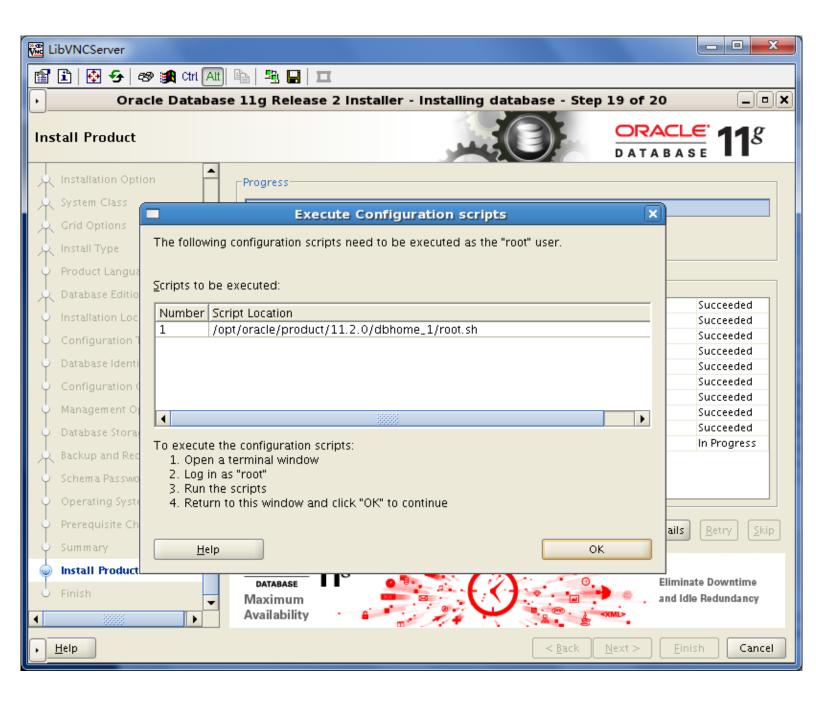


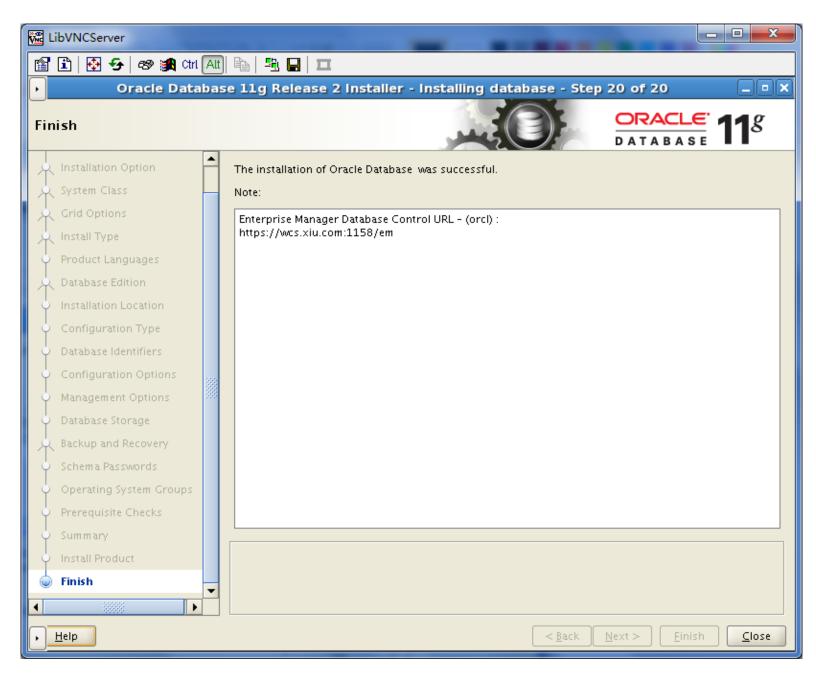












#### 切换到root用户运行下面脚本

```
/opt/oracle/oraInventory/orainstRoot.sh
/opt/oracle/product/11.2.0.1/client/root.sh

[root@oracle ~]# /opt/oracle/oraInventory/orainstRoot.sh
Changing permissions of /opt/oracle/oraInventory.
Adding read,write permissions for group.
Removing read,write,execute permissions for world.

Changing groupname of /opt/oracle/oraInventory to oinstall.
The execution of the script is complete.

[root@oracle ~]# /opt/oracle/product/11.2.0/dbhome_1/root.sh
Running Oracle 11g root.sh script...

The following environment variables are set as:
    ORACLE_OWNER= oracle
    ORACLE_HOME= /opt/oracle/product/11.2.0/dbhome_1

Enter the full pathname of the local bin directory: [/usr/local/bin]:
    Copying dbhome to /usr/local/bin ...
    Copying oraenv to /usr/local/bin ...
Copying coraenv to /usr/local/bin ...

Copying coraenv to /usr/local/bin ...

Creating /etc/oratab file...
Entries will be added to the /etc/oratab file as needed by
Database Configuration Assistant when a database is created
Finished running generic part of root.sh script.
Now product-specific root actions will be performed.
Finished product-specific root actions.
```

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## 3. Installing Oracle Client

```
orains.sh
```

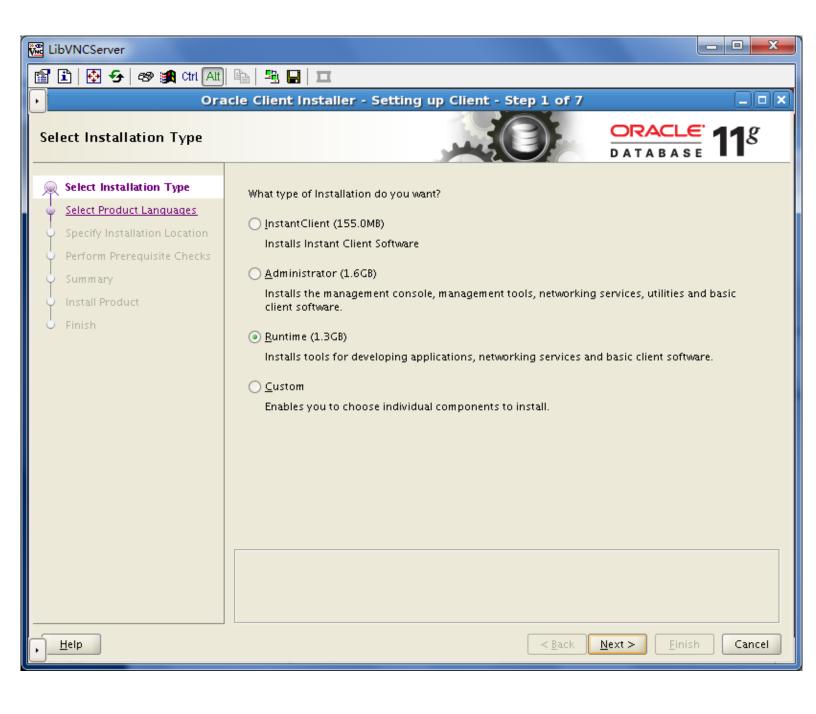
```
#!/bin/bash
groupadd oinstall
groupadd dba
useradd -m -g oinstall -G dba oracle
echo "oracle:oracle" | chpasswd
id oracle
mkdir -p /opt/oracle
chown oracle.oinstall /opt/oracle

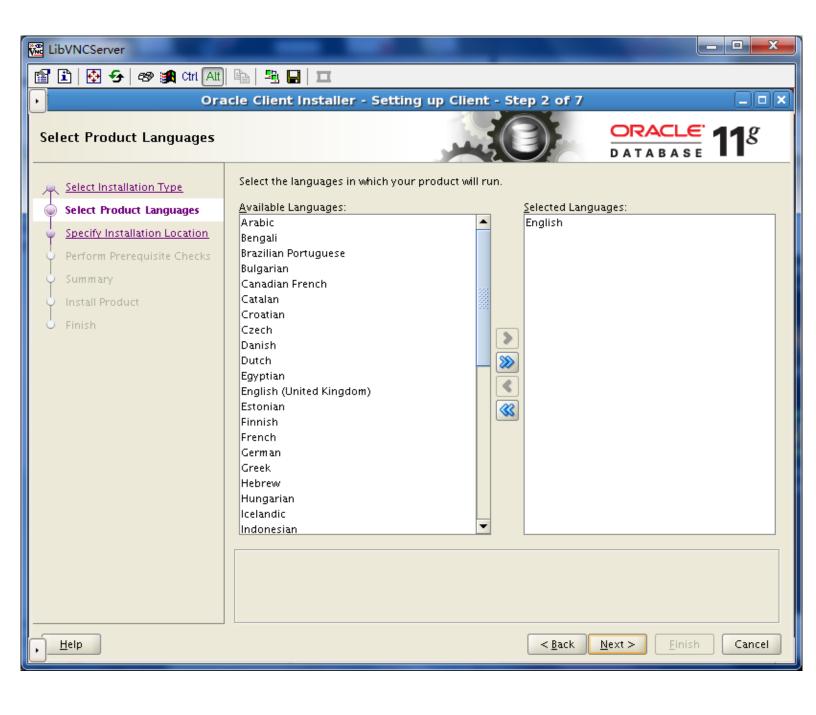
cat >> /etc/sysctl.conf <<EOF
kernel.shmall = 2097152
kernel.shmmax = 536870912
kernel.shmmni = 4096
kernel.sem = 250 32000 100 128
fs.file-max = 65536
net.ipv4.ip_local_port_range = 32768 61000
net.core.rmem_default=262144
net.core.wmem_default=262144
net.core.wmem_max=4194304
net.core.wmem_max=262144
EOF
/sbin/sysctl -p</pre>
```

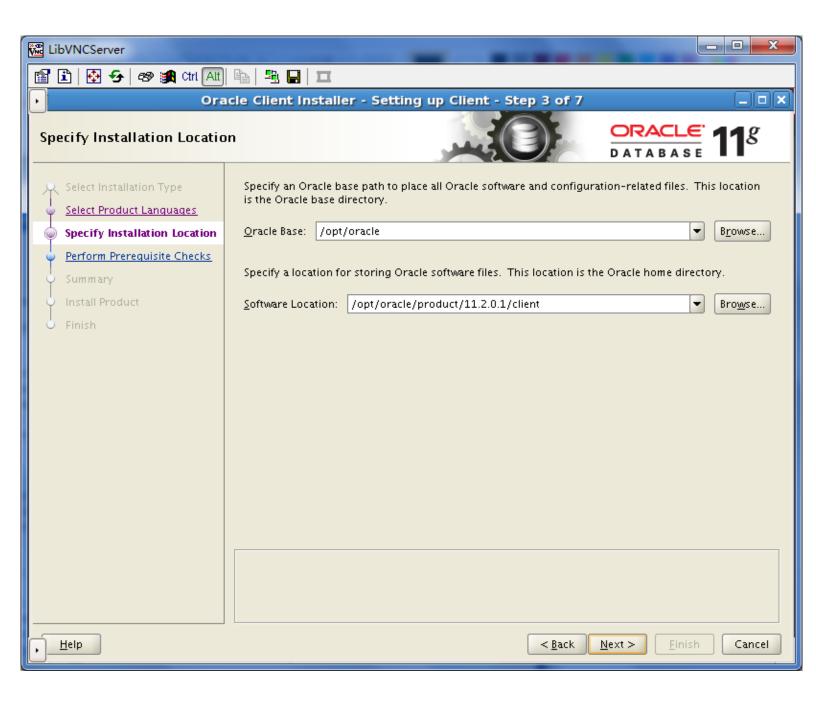
Run the following commands as root to verify your settings:

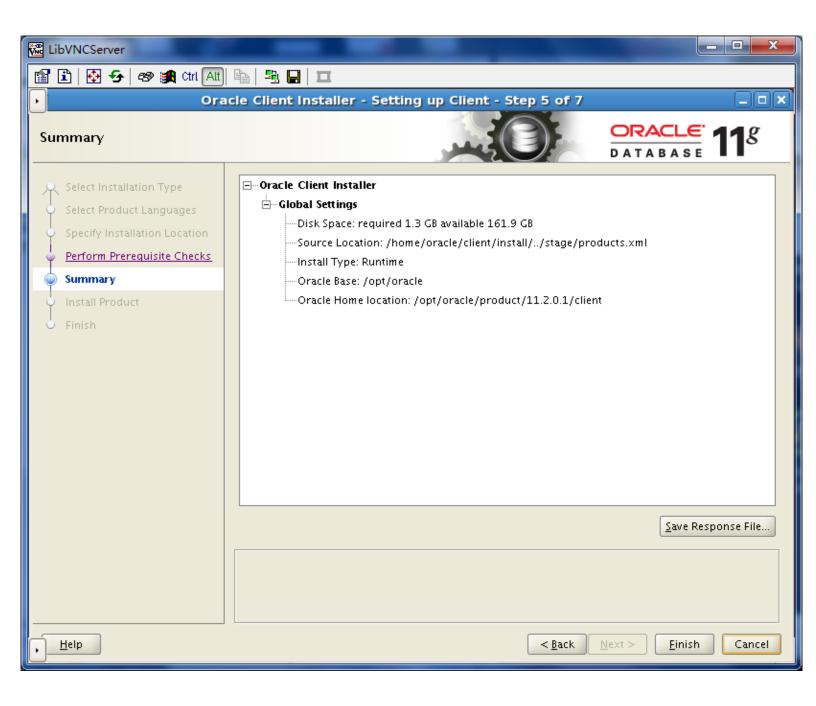
```
/sbin/sysctl -a | grep shm
/sbin/sysctl -a | grep sem
/sbin/sysctl -a | grep file-max
/sbin/sysctl -a | grep ip_local_port_range
/sbin/sysctl -a | grep rmem_default
/sbin/sysctl -a | grep rmem_max
/sbin/sysctl -a | grep rmem_max
/sbin/sysctl -a | grep wmem_default
/sbin/sysctl -a | grep wmem_default
/sbin/sysctl -a | grep wmem_max
export TMP=/tmp
export TMP=/tmp
export ORACLE_BASE=/opt/oracle
export ORACLE_HOME=$ORACLE_BASE/product/11.2.0.1/client
export PATH=$ORACLE_HOME/bin:$PATH

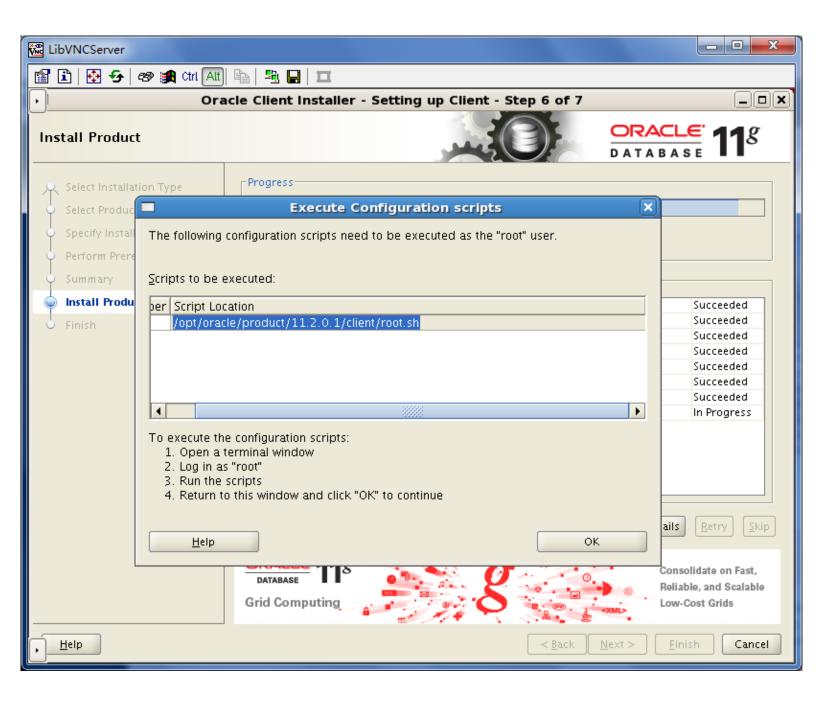
yum install sysstat libaio-devel glibc-devel elfutils-libelf-devel unixODBC unixODBC-devel
unzip linux.x64_11gR2_client.zip
[oracle@wcs ~]$ cd client/
[oracle@wcs client]$ ./runInstaller
```

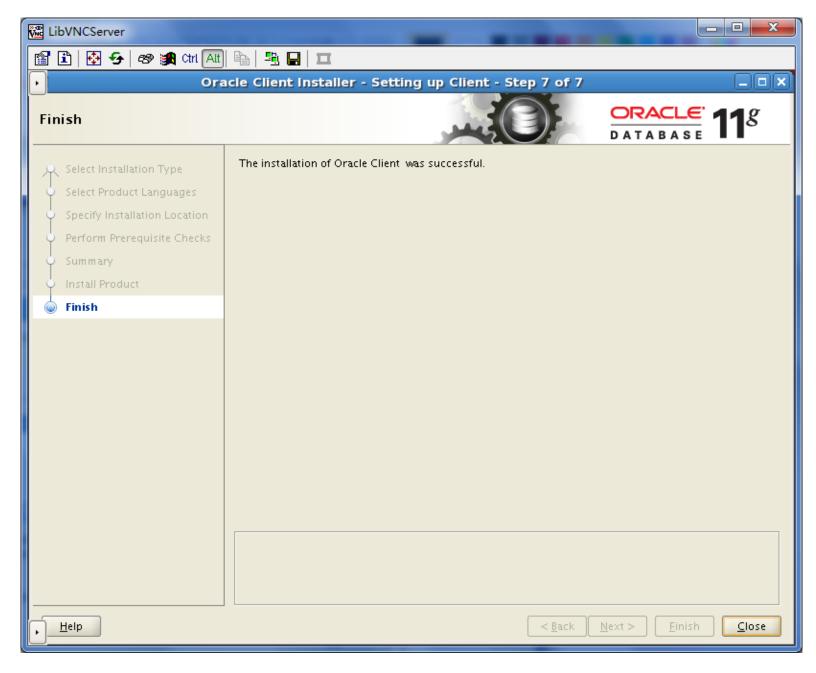












#### 登录到root用户运行下面脚本

```
/opt/oracle/oraInventory/orainstRoot.sh
/opt/oracle/product/11.2.0.1/client/root.sh

[root@wcs oracle]# /opt/oracle/oraInventory/orainstRoot.sh
Changing permissions of /opt/oracle/oraInventory.
Adding read,write permissions for group.
Removing read,write,execute permissions for world.

Changing groupname of /opt/oracle/oraInventory to oinstall.
The execution of the script is complete.
[root@wcs oracle]# /opt/oracle/product/11.2.0.1/client/root.sh
Running Oracle llg root.sh script...

The following environment variables are set as:
    ORACLE_OWNER= oracle
    ORACLE_HOME= /opt/oracle/product/11.2.0.1/client

Enter the full pathname of the local bin directory: [/usr/local/bin]:
    Copying dbhome to /usr/local/bin ...
    Copying oraenv to /usr/local/bin ...
Copying coraenv to /usr/local/bin ...
```

至此, Oracle客户端安装完毕

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### 4. Silence Install - Database

### 4.1. Response File

创建response文件 /home/oracle/db.rsp

```
[oracle@oracle ~]$ cat db.rsp
 Do not change the following system generated value.
oracle.install.responseFileVersion=/oracle/install/rspfmt_dbinstall_response_schema_v11_2_0
 The installation option can be one of the following
 1. INSTALL_DB_SWONLY
     INSTALL_DB_AND_CONFIG
  3. UPGRADE DB
oracle.install.option=INSTALL_DB_AND_CONFIG
 This variable holds the hostname of the system as set by the user. It can be used to force the installation to use an alternative hostname rather than using the first hostname found on the system
 (e.g., for systems with multiple hostnames and network interfaces).
ORACLE_HOSTNAME=oracle.example.com
# Unix group to be set for the inventory directory.
UNIX GROUP NAME=oinstall
 Inventory location.
INVENTORY_LOCATION=/opt/oracle/oraInventory
 Specify the languages in which the components will be installed.
        : English
                                         jа
                                              : Japanese
        : French
       : Arabic
: Bengali
                                        es
lv
                                              : Latin American Spanish
  ar
  bn
                                              : Latvian
  pt_BR: Brazilian Portuguese
                                        lt
                                              : Lithuanian
                                        ms : Malay
es_MX: Mexican Spanish
 bg : Bulgarian
fr_CA: Canadian French
       : Catalan
       : Croatian
: Czech
                                              : Polish
: Portuguese
  hr
                                        pl
  CS
                                        pt
        : Danish
                                              : Romanian
  nl : Dutch
ar_EG: Egyptian
en_GB: English (Great Britain)
                                        ru
                                               : Russian
                                        zh_CN: Simplified Chinese
                                            : Slovak
                                       sk
 et
fi
      : Estonian
: Finnish
                                               : Slovenian
                                        sl
                                         es_ES: Spanish
        : German
                                              : Swedish
       : Greek
: Hebrew
                                         th
  el
                                               : Thai
                                         zh_TW: Traditional Chinese
  iw
  hu
        : Hungarian
                                               : Turkish
        : Icelandic
: Indonesian
                                        uk
                                               : Ukrainian
 in
                                               : Vietnamese
        : Italian
 it
# Example : SELECTED_LANGUAGES=en,fr,ja
SELECTED_LANGUAGES=en
# Complete path of the Oracle Home
ORACLE_HOME=/opt/oracle/product/11.2.0/dbhome_1
# Complete path of the Oracle Base.
ORACLE BASE=/opt/oracle
```

```
Installation Edition of the component.
  The value should contain only one of these choices.
              : Enterprise Edition
: Standard Edition
: Standard Edition One
  SE
  SEONE
             : Personal Edition (WINDOWS ONLY)
oracle.install.db.InstallEdition=EE
  This property is considered only if InstallEdition is EE.
  oracle.install.db.isCustomInstall=false
# This property is considered only if 'IsCustomInstall' is set to true
  Description: List of Enterprise Edition Options you would like to install.
                       The following choices are available. You may specify any combination of these choices. The components you choose should be specified in the form "internal-component-name:version" Below is a list of components you may specify to install.
                       oracle.oraolap:11.2.0.0.2 - Oracle OLAP oracle.rdbms.dm:11.2.0.0.2 - Oracle Data Mining RDBMS Files oracle.rdbms.dv:11.2.0.0.2 - Oracle Database Vault option oracle.rdbms.lbac:11.2.0.0.2 - Oracle Label Security oracle.rdbms.partitioning:11.2.0.0.2 - Oracle Partitioning
                       oracle.rdbms.rat:11.2.0.0.2 - Oracle Real Application Testing oracle.clrintg.ode_net:11.2.0.0.2 - Oracle Database Extensions for .NET 1.x
(Windows)
                      oracle.clrintq.ode net 2:11.2.0.0.2 - Oracle Database Extensions for .NET 2.0
(Windows)
oracle.install.db.customComponents=
oracle.install.db.DBA_GROUP=dba
oracle.install.db.OPER_GROUP=dba
  This variable represents the cluster node names selected by the .
  user for installation
oracle.install.db.CLUSTER_NODES=
# One of the following
  - GENERAL_PURPOSE
- TRANSACTION_PROCESSING
  - DATAWAREHOUSE
oracle.install.db.config.starterdb.type=GENERAL PURPOSE
# Global Database Name
oracle.install.db.config.starterdb.globalDBName=orcl.example.com
# The Starter Database SID
oracle.install.db.config.starterdb.SID=orcl
# Database character set
    One of the following
AL32UTF8, WE8ISO8859P15, WE8MSWIN1252, EE8ISO8859P2,
EE8MSWIN1250, NE8ISO8859P10, NEE8ISO8859P4, BLT8MSWIN1257,
BLT8ISO8859P13, CL8ISO8859P5, CL8MSWIN1251, AR8ISO8859P6,
AR8MSWIN1256, EL8ISO8859P7, EL8MSWIN1253, IW8ISO8859P8,
IW8MSWIN1255, JA16EUC, JA16EUCTILDE, JA16SJIS, JA16SJISTILDE,
KO16MSWIN949, ZHS16GBK, TH8TISASCII, ZHT32EUC, ZHT16MSWIN950,
          of the following
    ZHT16HKSCS, WE8ISO8859P9, TR8MSWIN1254, VN8MSWIN1258
oracle.install.db.config.starterdb.characterSet=AL32UTF8
# Specify the total memory allocation for the database. (in MB) # Value should be at least 256 MB, and should not exceed the # total physical memory available on the system. # Example: oracle.install.db.config.starterdb.memoryLimit=40
oracle.install.db.config.starterdb.memoryLimit=6218
oracle.install.db.config.starterdb.memoryOption=true
# This variable controls whether to load Example Schemas onto
  the starter database or not.
oracle.install.db.config.starterdb.installExampleSchemas=true
# This include enabling audit settings, configuring password
# profiles and revoking some grants to public. These settings
```

```
# are provided by default. You may choose to disable all.
oracle.install.db.config.starterdb.enableSecuritySettings=true
oracle.install.db.config.starterdb.password.ALL=
oracle.install.db.config.starterdb.password.SYS=
oracle.install.db.config.starterdb.password.SYSTEM=
oracle.install.db.config.starterdb.password.SYSMAN=
oracle.install.db.config.starterdb.password.DBSNMP=
 Can be one of the following
 1. GRID_CONTROL
2. DB_CONTROL
oracle.install.db.config.starterdb.control=DB CONTROL
 Determines the Management Service to use if Grid Control
 is selected to manage the database.
oracle.install.db.config.starterdb.gridcontrol.gridControlServiceURL=
 Determines whether to receive email notification for
# critical alerts when using DB control.
oracle.install.db.config.starterdb.dbcontrol.enableEmailNotification=false
oracle.install.db.config.starterdb.dbcontrol.emailAddress=
oracle.install.db.config.starterdb.dbcontrol.SMTPServer=
oracle.install.db.config.starterdb.automatedBackup.enable=false
oracle.install.db.config.starterdb.automatedBackup.osuid=
oracle.install.db.config.starterdb.automatedBackup.ospwd=
# Can be one of the following
        SYSTEM_STORAGE
 - FILE
 - ASM_STORAGE
oracle.install.db.config.starterdb.storageType=FILE_SYSTEM_STORAGE
 Database file location: directory for datafiles, control files, redo logs.
 Applicable only when oracle.install.db.config.starterdb.storage=FILE_SYSTEM_STORAGE
oracle.install.db.config.starterdb.fileSystemStorage.dataLocation=/opt/oracle/oradata
# Backup and recovery location
# Applicable only when oracle.install.db.config.starterdb.storage=FILE_SYSTEM_STORAGE
oracle.install.db.config.starterdb.fileSystemStorage.recoveryLocation=
# Name of ASM disk group to be used for storage.
 Applicable only when oracle.install.db.config.starterdb.storageType=ASM_STORAGE
oracle.install.db.config.asm.diskGroup=
 Password for ASMSNMP user of the ASM instance.
 Applicable only when oracle.install.db.config.starterdb.storage=ASM_STORAGE
oracle.install.db.config.asm.ASMSNMPPassword=
# Specify the My Oracle Support Account Username.
  Example : MYORACLESUPPORT_USERNAME=metalink
MYORACLESUPPORT_USERNAME=neo.chen@msn.com
 Specify the My Oracle Support Account Username password.
           : MYORACLESUPPORT_PASSWORD=password
# Example
MYORACLESUPPORT_PASSWORD=
 Specify whether to enable the user to set the password for
```

```
# My Oracle Support credentials. The value can be either true or false. # If left blank it will be assumed to be false.
              : SECURITY_UPDATES_VIA_MYORACLESUPPORT=true
 Example
SECURITY_UPDATES_VIA_MYORACLESUPPORT=false
# Specify whether user wants to give any proxy details for connection. # The value can be either true or false. If left blank it will be assumed
 to be false.
              : DECLINE_SECURITY_UPDATES=false
# Example
DECLINE_SECURITY_UPDATES=false
\sharp Specify the Proxy server name. Length should be greater than zero.
 Example
              : PROXY_HOST=proxy.domain.com
PROXY_HOST=
# Specify the proxy port number. Should be Numeric and atleast 2 chars.
# Example
              : PROXY_PORT=25
PROXY PORT=
```

### 4.2. OS 配置脚本

/home/oracle/orains.sh

```
#!/bin/bash
ORACLE_BASE=/opt/oracle
ORACLE_PASSWORD="oracle"
groupadd oinstall
groupadd dba
useradd -m -g oinstall -G dba oracle
echo "oracle:$ORACLE_PASSWORD" | chpasswd
cat >> /etc/sysctl.conf <<EOF
fs.aio-max-nr = 3145728
fs.file-max = 6815744
kernel.shmall = 1073741824
kernel.shmmax = 4398046511104
kernel.shmmni = 4096
kernel.sem = 250 32000 100 142

net.ipv4.ip_local_port_range = 9000 65500

net.core.rmem_default = 262144

net.core.rmem_max = 4194304
net.core.wmem_default = 262144
net.core.wmem_max = 1048576
cat >> /etc/security/limits.conf <<EOF oracle soft nproc 2048 oracle hard nproc 16384 oracle soft nofile 1024 oracle hard nofile 65536
FOF
cat >> /home/oracle/.bash_profile
export TMP=/tmp
export TMPDIR=$TMP
export ORACLE_HOSTNAME=$(hostname)
               /home/oracle/.bash_profile <<\EOF
export ORACLE_BASE=/opt/oracle
export ORACLE_BASE=/opt/oracle
export ORACLE_HOME=$ORACLE_BASE/product/11.2.0/dbhome_1
export ORACLE_SID=orcl
export ORACLE_TERM=xterm
export PATH=$ORACLE_HOME/bin:$PATH
export LD_LIBRARY_PATH=$ORACLE_HOME/lib:/lib64:/usr/lib64:/usr/local/lib64
export CLASSPATH=$ORACLE_HOME/JRE:$ORACLE_HOME/jlib:$ORACLE_HOME/rdbms/jlib
export LD_ASSUME_KERNEL=2.6.18
export NLS_LANG="american_america.UTF8"
export NLS_LANG="AMERICAN_AMERICA.US7ASCII"
#export NLS_LANG="AMERICAN_AMERICA.ZHS16GBK"
#export NLS_LANG="SIMPLIFIED CHINESE_CHINA.ZHS16GBK"
#export NLS_LANG="TRADITIONAL CHINESE_TAIWAN.ZHT16MSWIN950"
#export NLS_LANG="JAPANESE_JAPAN.WE8MSWIN1252
EOF
cat >> /home/oracle/.bashrc <<\EOF
alias sysdba='sqlplus "/ as sysdba"'</pre>
cat >> /etc/oraInst.loc <<EOF
inventory_loc=$ORACLE_BASE/oraInventory
inst_group=oinstall
FOF
```

chmod 664 /etc/oraInst.loc

cat >> /etc/yum.repos.d/rhel-source-local.repo <<\EOF
[rhel-source-local]
name=Red Hat Enterprise Linux \$releasever - Source
baseurl=file://media/cdrom0/Server
enabled=1
gpgcheck=1
gpgcheck=1
gpgcheck=1
gpgcheck=1
gpgcheck=1</pre>

gpgkey=file:///etc/pki/rpm-gpg/RPM-GPG-KEY-redhat-release EOF

\_

yum install gcc gcc-c++ glibc-devel libstdc++ libstdc++-devel libaio-devel sysstat libaio-devel elfutils-libelf-devel unixODBC unixODBC-devel

su - root
/home/oracle/orains.sh

# 4.3. 运行 runInstaller

unzip linux.x64\_11gR2\_database\_1of2.zip
unzip linux.x64\_11gR2\_database\_2of2.zip
cd database
./runInstaller -silent -noconfig -responseFile /home/oracle/db.rsp

检查安装日志

ls /opt/oracle/oraInventory/logs/

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3. Installing Oracle Client

起始页

5. Silence Install - Client

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### 5. Silence Install - Client

```
## Copyright(c) Oracle Corporation 1998,2008. All rights reserved.
  Specify values for the variables listed below to customize
   your installation.
                                                                                      ##
  Each variable is associated with a comment. The comment
##
   can help to populate the variables with the appropriate
                                                                                      ##
                                                                                      ##
  values.
# Do not change the following system generated value.
oracle.install.responseFileVersion=http://www.oracle.com/2007/install/rspfmt_clientinstall_response_
 This variable holds the hostname of the system as set by the user. It can be used to force the installation to use an alternative hostname rather than using the first hostname found on the system
         for systems with multiple hostnames and network interfaces).
ORACLE_HOSTNAME=wcs.example.com
# Unix group to be set f
UNIX_GROUP_NAME=oinstall
                         for the inventory directory.
# Inventory location.
INVENTORY_LOCATION=/opt/oracle/oraInventory
 Specify the languages in which the components will be installed.
#
       : English
                                           : Japanese
 en
                                      iа
       : French
                                      kο
                                           : Korean
       : Arabic
: Bengali
                                      es
lv
                                           : Latin American Spanish
: Latvian
 ar
 bn
 pt_BR: Brazilian Portuguese
                                     lt
                                           : Lithuanian
 bg
       : Bulgarian
                                      ms
                                           : Malay
 fr_CA: Canadian French
                                      es MX: Mexican Spanish
          Catalan
                                           : Norwegian
                                      no
  са
 hr
       : Croatian
                                      pl
                                           : Polish
       : Czech
                                           : Portuguese
 CS
                                      pt
       : Danish
                                      ro
                                           : Romanian
 nl
       : Dutch
                                      ru
                                            : Russian
 ar_EG: Egyptian
en_GB: English (Great Britain)
                                      zh_CN: Simplified Chinese
                                     sk
                                           : Slovak
 et
fi
                                           : Slovenian
      : Estonian
                                      sl
       : Finnish
#
                                      es_ES: Spanish
 de
        : German
                                             Swedish
                                      sv
       : Greek
: Hebrew
                                      th
 el
                                             Thai
                                      zh_TW: Traditional Chinese
 iw
 hu
       : Hungarian
                                             Turkish
                                      tr
       : Icelandic
: Indonesia
                                      uk
  is
                                           : Ukrainian
 in
          Indonesian
                                           : Vietnamese
 īt
       : Italian
 Example : SELECTED_LANGUAGES=en,fr,ja
SELECTED_LANGUAGES=en
 Complete path of the Oracle Home
ORACLE_HOME=/opt/oracle/product/11.2.0.1/client
 Complete path of the Oracle Base.
ORACLE BASE=/opt/oracle
             : INSTALL_TYPE
               String
#Datatype
#Description: Installation type of the component.
               The following choices are available. The value should contain
               only one of these choices.
               InstantClient : InstantClient
               Administrator : Administrator
               Runtime
                               : Runtime
               Custom
                               : Custom
            : INSTALL_TYPE = "Administrator"
#Example
oracle.install.client.installType=Administrator
# Name
              : oracle.install.client.customComponents
```

```
# Datatype : StringList
   This property is considered only if INSTALL_TYPE is set to "Custom"
   Description: List of Client Components you would like to install
       The following choices are available. You may specify any combination of these choices. The components you choose should be specified in the form "internal-component-name:version"
       Below is a list of components you may specify to install.
  oracle.sqlj:11.2.0.1.0 -- "Oracle SQLJ"
oracle.rdbms.util:11.2.0.1.0 -- "Oracle Database Utilities"
oracle.javavm.client:11.2.0.1.0 -- "Oracle Java Client"
oracle.sqlplus:11.2.0.1.0 -- "SQL*Plus"
oracle.dbjava.jdbc:11.2.0.1.0 -- "Oracle JDBC/THIN Interfaces"
oracle.ldap.client:11.2.0.1.0 -- "Oracle Internet Directory Client"
oracle.rdbms.oci:11.2.0.1.0 -- "Oracle Call Interface (OCI)"
oracle.precomp:11.2.0.1.0 -- "Oracle Programmer"
oracle.xdk:11.2.0.1.0 -- "Oracle XML Development Kit"
oracle.network.aso:11.2.0.1.0 -- "Oracle Advanced Security"
oracle.assistants.oemlt:11.2.0.1.0 -- "Enterprise Manager Minimal Integration"
oracle.oraolap.mgmt:11.2.0.1.0 -- "OLAP Analytic Workspace Manager and Worksheet"
oracle.network.client:11.2.0.1.0 -- "Oracle Net"
oracle.ordim.client:11.2.0.1.0 -- "Oracle Multimedia Client Option"
oracle.ors:11.2.0.0.0 -- "Oracle Notification Service"
oracle.odbc:11.2.0.1.0 -- "Oracle ODBC Driver"
oracle.has.client:11.2.0.1.0 -- "Oracle SQL Developer"
oracle.rdbms.scheduler:11.2.0.1.0 -- "Oracle SCheduler Agent"
    oracle.sqlj:11.2.0.1.0 -- "Oracle SQLJ"
   Example
oracle.install.client.customComponents="oracle.precomp:11.2.0.1.0", "oracle.ons:11.2.0.0.0", "oracle.ons
                                                                         ______
oracle.install.client.customComponents=
                    : MTS_PORT : int
#Name
#Datatype
#Description: Port number to be used for by the Oracle MTS Recovery Service to listen
for requests. This needs to be entered in case oracle.ntoramts is
selected in the list of custom components in custom install
                      : MTS PORT = 2030
#Example
oracle.install.client.oramtsPortNumber=
# Host name to be used for by the Oracle Scheduler Agent.
# This needs to be entered in case oracle.rdbms.scheduler is selected in the
# list of custom components during custom install
# Example
                        : oracle.install.client.schedulerAgentHostName = acme.domain.com
oracle.install.client.schedulerAgentHostName=
# Port number to be used for by the Oracle Scheduler Agent
   This needs to be entered in case oracle.rdbms.scheduler is selected in the list of custom components during custom install
# Example: oracle.install.client.schedulerAgentPortNumber = 1500
oracle.install.client.schedulerAgentPortNumber=
#!/bin/bash
groupadd oinstall
groupadd dba
useradd -m -g oinstall -G dba oracle echo "oracle:oracle" | chpasswd
id oracle
mkdir -p /opt/oracle
chown oracle.oinstall /opt/oracle
cat >> /etc/sysctl.conf <<EOF
kernel.shmall = 2097152
kernel.shmmax = 536870912
kernel.shmmni = 4096
kernel.sem = 250 32000 100 1
fs.file-max = 65536
net.ipv4.ip_local_port_range
net.core.rmem_default=262144
                                 32000 100 128
                                            range = 32768 61000
net.core.wmem_default=262144
net.core.rmem_max=4194304
net.core.wmem_max=262144
EOF
/sbin/sysctl -p
cat >> /home/oracle/.bash_profile <<\EOF
export TMP=/tmp
export TMPDIR=/tmp</pre>
export ORACLE_BASE=/opt/oracle
export ORACLE_HOME=$ORACLE_BASE/product/11.2.0.1/client
export PATH=$ORACLE_HOME/bin:$PATH
cat >> /home/oracle/.bashrc <<\EOF</pre>
alias sysdba='sqlplus "/ as sysdba"'
EOF
```

yum install sysstat libaio-devel glibc-devel elfutils-libelf-devel unixODBC unixODBC-devel unzip linux.x64\_11gR2\_client.zip

cd client/
./runInstaller -silent -noconfig -responseFile /home/oracle/client.rsp

# /opt/oracle/oraInventory/orainstRoot.sh
# /opt/oracle/product/11.2.0.1/client/root.sh

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### 1. listener.ora

### 1.1. TNS 配置

SERVICE\_NAME通過show parameter service\_name;查詢

5. Silence Install - Client 起始页 2. Account

2. Account

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#### 2. Account

select username,account\_status from dba\_users;

#### 2.1. show user

```
SQL> show user;
USER is "SYS"
SQL> select user from dual;
USER
SYS
```

## 2.2. DEFAULT\_TABLESPACE

用户默认表空间

```
SQL> SELECT DEFAULT_TABLESPACE FROM DBA_USERS WHERE USERNAME='WCUSER';
DEFAULT_TABLESPACE
WCSDB
SQL> SELECT DEFAULT_TABLESPACE FROM DBA_USERS WHERE USERNAME=(select user from dual);
DEFAULT_TABLESPACE
SYSTEM
```

### 2.3. unlock/lock

帐号加锁与解锁

```
alter user scott account unlock /lock;
```

```
SQL> alter user scott account unlock;
User altered. SQL> select username,account_status from dba_users where username='SCOTT';
USERNAME
                             ACCOUNT_STATUS
SCOTT
                             EXPIRED
SQL> alter user scott account lock;
User altered.
SQL> select username,account_status from dba_users where username='SCOTT';
      ACCOUNT_STATUS
USERNAME
```

EXPIRED & LOCKED

SQL>

SCOTT

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# 3. 显示表

select \* from tab where tabtype='SYNONYM';
select name,type,referenced\_name from user\_dependencies;

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# 4. oracle 817 script

Oracle 817 数据库启动脚本

```
#!/bin/bash
#./home/oracle/.bash_profile
ORACLE_HOME=/u01/app/oracle/product/8.1.7 # Determine and execute action based on command line parameter
case "$1" in
start)
echo "Starting Oracle database(s) listed in /etc/oratab ..."
sleep 2
su - oracle -c "$ORACLE_HOME/bin/dbstart" echo "Starting TNS listener ..."
sleep 2
      oracle -c "$ORACLE_HOME/bin/lsnrctl start"
su -
touch /var/lock/subsys/orcl
stop)
echo "Shutting down TNS listener ..."
sleep 2
sleep Z

su - oracle -c "$ORACLE_HOME/bin/lsnrctl stop"

echo "Shutting down Oracle database(s) listed in /etc/oratab ..."

su - oracle -c "$ORACLE_HOME/bin/dbshut"

rm -f /var/lock/subsys/orcl
status)
ps -ax | grep -e ora_ -e tnslsnr
echo "Usage: $1 {start|stop|status}"
;;
esac
exit 0
```

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# 5. Script for automatic startup on boot

```
#!/bin/bash
# Run-level Startup script for the Oracle Instance and Listener
# chkconfig: 345 91 19
# description: Startup/Shutdown Oracle listener and instance
ORA_HOME="/u01/app/oracle/product/9.2.0.1.0"
ORA_OWNR="oracle"
# if the executables do not exist -- display error
if [ ! -f $ORA_HOME/bin/dbstart -o ! -d $ORA_HOME ]
then
            echo "Oracle startup: cannot start"
            exit 1
fi
  depending on parameter -- startup, shutdown, restart
# of the instance and listener or usage display
case "$1" in
            # Oracle listener and instance startup
echo -n "Starting Oracle: "
su - $ORA_OWNR -c "$ORA_HOME/bin/lsnrctl start"
su - $ORA_OWNR -c $ORA_HOME/bin/dbstart
touch /var/lock/subsys/oracle
echo "OK"
::
      start)
             ;;
      stop)
            # Oracle listener and instance shutdown
echo -n "Shutdown Oracle: "
su - $ORA_OWNR -c "$ORA_HOME/bin/lsnrctl stop"
su - $ORA_OWNR -c $ORA_HOME/bin/dbshut
rm -f /var/lock/subsys/oracle
echo "OK"
      reload | restart)
             $0 stop
             $0 start
      * )
            echo "Usage: $0 start|stop|restart|reload"
esac
exit 0
```

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4. oracle 817 script

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6. Run level shell script to start Oracle 10g

services on RedHat Enterprise Linux (RHAS 4)

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#!/bin/bash

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6. Run level shell script to start Oracle 10g services on RedHat Enterprise Linux (RHAS 4)

```
# Script to startup and shutdown Oracle and listener
# Author: neo - http://netkiller.8800.org
USER=oracle
export
# Determine and execute action based on command line parameter
# check Oracle db status
function chkdb_status()
         # set username
        SUSER="scott'
        # set password
SPASS="123456"
        sqlplus -s /nolog > /dev/null 2>&1 <<EOF
whenever sqlerror exit failure connect $SUSER/$SPASS
exit success
        else
                 echo "Connection succeeded : DB is up"
fi
}
function isql
              \"$1" in
        case
                 start)
                         echo "*** Starting Oracle iSQL Plus *** "
su - $USER -c "$ORACLE_HOME/bin/isqlplusctl start"
echo "*** Note: You can access service at url:
http://$(hostname):5560/isqlplus"
                 stop)
                         echo "*** Stopping Oracle iSQL Plus *** "
su - $USER -c "$ORACLE_HOME/bin/isqlplusctl stop"
                 * )
                          echo "Usage: $1 isql {start|stop}"
        esac
function sqlplus {
    case "$1" in
                 start)
     "$oracle_user"<<E00
    lsnrctl start
    apachectl start
    sqlplus /nolog<<EOS
connect / as sysdba
      startup
EOS
EOO
                          ;;
                 stop)
```

```
su - "$oracle_user"<<E00
       lsnrctl stop
       apachectl stop
       sqlplus /nolog<<EOS
connect / as sysdba
shutdown immediate
EOS
EOO
                             * )
                                           echo "Usage: $1 emctl {start|stop}"
              esac
function emctl {
     case "$1" in
                                          echo "*** Starting Oracle Enterprise Manager 10g Database Control ***" su - $USER -c "$ORACLE_HOME/bin/emctl start dbconsole" echo "*** Note: You can access service at url:
http://$(hostname):1158/em"
                            stop)
                                          echo "*** Stopping Oracle Enterprise Manager 10g Database Control ***" su - $USER -c "$ORACLE_HOME/bin/emctl stop dbconsole"
                             * )
                                           echo "Usage: $1 emctl {start|stop}"
              esac
case "$1" in
              start)
                            echo "Starting Oracle database(s) listed in /etc/oratab ..."
sleep 2
su - $USER -c "$ORACLE_HOME/bin/dbstart"
echo "Starting TNS listener ..."
sleep 2
su - $USER -c "$ORACLE_HOME/bin/lsnrctl start"
touch /var/lock/subsys/orcl
::
              stop)
                            echo "Shutting down TNS listener ..."

sleep 2

su - $USER -c "$ORACLE_HOME/bin/lsnrctl stop"

echo "Shutting down Oracle database(s) listed in /etc/oratab ..."

su - $USER -c "$ORACLE_HOME/bin/dbshut"
                            su - $USER -c "$ORACLE_HOME
rm -f /var/lock/subsys/orcl
              status)
                             chkdb_status
                            ps -ax | grep -e ora_ -e tnslsnr
              isql)
                             isql $2
                             ;;
              sqlplus)
                             sqlplus $2
              emctl)
                             emctl $2
              * )
                             echo "Usage: $1 {start|stop|status}"
                             echo
                             echo "Usage: $1 [isql | sqlplus | emctl] {start|stop}"
esac
exit 0
```

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5. Script for automatic startup on boot

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- 4. Other GUI phpOraAdmin

## 1. Create instance

[oracle@wcs ~]\$ dbca

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6. Run level shell script to start Oracle 10g services on RedHat Enterprise Linux (RHAS 4)

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2. Oracle Net Configuration Assistant

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# 2. Oracle Net Configuration Assistant

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# 3. Oracle Enterprise Manager

启动em

emctl start dbconsole

[oracle@oracle ~]\$ emctl start dbconsole Oracle Enterprise Manager 11g Database Control Release 11.2.0.1.0 Copyright (c) 1996, 2009 Oracle Corporation. All rights reserved. https://oracle.example.com:1158/em/console/aboutApplication Starting Oracle Enterprise Manager 11g Database Control .... started.

Logs are generated in directory /opt/oracle/product/11.2.0/dbhome\_1/oracle.example.com\_wcsdb/sysman/log

https://oracle.example.com:1158/em

使用system用户登录

停止em

emctl stop dbconsole

[oracle@oracle ~]\$ emctl stop dbconsole Oracle Enterprise Manager 11g Database Control Release 11.2.0.1.0 Copyright (c) 1996, 2009 Oracle Corporation. All rights reserved. https://oracle.example.com:1158/em/console/aboutApplication Stopping Oracle Enterprise Manager 11g Database Control ... Stopped.

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2. Oracle Net Configuration Assistant

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4. Other GUI - phpOraAdmin

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# 4. Other GUI - phpOraAdmin

http://phporaadmin.sourceforge.net

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```
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1.3.7. sga

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### 2. lsnrctl

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3.3. 增量备份

3.4. 恢复数据库

3.5. 是用tar打包rman文件

# 1. SQL\*Plus

```
SQL*Plus: Release 11.2.0.1.0 Production on Sat May 28 18:19:53 2011
```

Copyright (c) 1982, 2009, Oracle. All rights reserved.

SQL> conn / as sysdba; Connected to an idle instance. SQL> exit

[oracle@wcs ~]\$ sqlplus / as sysdba

SQL\*Plus: Release 11.2.0.1.0 Production on Sat May 28 18:31:25 2011

Copyright (c) 1982, 2009, Oracle. All rights reserved.

Oracle Database 11g Enterprise Edition Release 11.2.0.1.0 - 64bit Production With the Partitioning, OLAP, Data Mining and Real Application Testing options

SQL>

### 1.1. startup/shutdown

[oracle@localhost ~]\$ sqlplus

SQL\*Plus: Release 10.2.0.1.0 - Production on Tue Jan 5 09:44:13 2010

Copyright (c) 1982, 2005, Oracle. All rights reserved.

Enter user-name: sys as sysdba Enter password:

SYS@orcl> startup

SYS@orcl> shutdown immediate

#### 1.2. conn

SQL> conn / as sysdba;

#### 1.3. parameter

#### 1.3.1. db

SQL> show parameter db;

NAME	TYPE	VALUE
db_16k_cache_size db_2k_cache_size db_32k_cache_size db_4k_cache_size db_8k_cache_size db_block_buffers db_block_checking db_block_checksum db_block_size db_cache_advice db_cache_size	big integer big integer big integer big integer big integer integer string string integer string integer string	0 0 0 0 0 FALSE TYPICAL 8192 ON
NAME	TYPE	VALUE
db_create_file_dest db_create_online_log_dest_1 db_create_online_log_dest_2 db_create_online_log_dest_3 db_create_online_log_dest_4 db_create_online_log_dest_5 db_domain db_file_multiblock_read_count db_file_name_convert db_files db_flash_cache_file	string string string string string string integer string integer string	example.com 128 200
NAME	TYPE	VALUE
db_flash_cache_size db_flashback_retention_target	big integer integer	0 1440

lb_keep_cache_size lb_lost_write_protect	big integer string	NONE
db_name db_recovery_file_dest	string string	
db_recovery_file_dest_size	big integer	a 3882M
db_recycle_cache_size db_securefile	big integer string	PERMITTED
db_ultra_safe NAME	string TYPE	
lb_unique_name lb_writer_processes	integer	1
dbwr_io_slaves rdbms_server_dn	string	
standby_archive_dest standby_file_management	string	?/dbs/arch MANUAL
kml_db_events	string	enable
1.3.2. instance_name		
SQL> show parameter instance_name;		
NAME	TYPE 	VALUE
instance_name SQL>	string	orcl
SQL> select instance from v\$thread;		
INSTANCE		
orcl		
122		
1.3.3. service_name		
SQL> show parameter service_name;		
VAME 		VALUE
service_names SQL>	string	orcl.example.com
1.3.4. global_name		
SQL> select * from global_name;		
GLOBAL_NAME		
DRCL.EXAMPLE.COM		
1.3.5. db_name		
SQL> show parameter db_name;		
SQL> show parameter db_name;	TYPE	VALUE
	TYPE  string	
NAME		
NAME db_name		

1.3.6. db\_domain

NAME	TYPE 	VALUE
db_domain SQL>	string	example.com
52.		
1 3 7 cm		
1.3.7. sga		
SQL> show parameter sga;		
NAME	TYPE	VALUE
lock sqa	 boolean	FALSE
pre_page_sga	boolean big integer	FALSE
sga_max_size sga_target	big integer	
1.3.8. size		
SQL> show parameter size		
NAME	TYPE	VALUE
bitmap_merge_area_size	integer	
<pre>client_result_cache_size create_bitmap_area_size</pre>	big integer integer	0 8388608
db_16k_cache_size db_2k_cache_size	big integer big integer	
db_32k_cache_size	big integer	0
db_4k_cache_size db_8k_cache_size	big integer big integer	0
db_block_size db cache size	integer big integer	8192 0
db_flash_cache_size	big integer	0
NAME	TYPE	VALUE
db_keep_cache_size	big integer	
<pre>db_recovery_file_dest_size db_recycle_cache_size</pre>	big integer big integer	
<pre>global_context_pool_size hash_area_size</pre>	string integer	131072
java_max_sessionspace_size	integer	0
java_pool_size large_pool_size	big integer big integer	0
<pre>max_dump_file_size object_cache_max_size_percent</pre>	string integer	unlimited 10
object_cache_optimal_size	integer	102400
NAME	TYPE	VALUE
olap_page_pool_size	big integer	
<pre>parallel_execution_message_size result_cache_max_size</pre>	integer big integer	16384 16064K
sga_max_size shared_pool_reserved_size	big integer big integer	6272M
shared_pool_size	big integer	0
sort_area_retained_size sort_area_size	integer integer	
streams_pool_size workarea_size_policy	big integer string	0 AUTO
	J	
1.3.9. spfile		
SQL> show parameter spfile ;		
NAME	TYPE 	VALUE
spfile	string	/opt/oracle/product/11.2.0/dbh
		ome_1/dbs/spfilewcsdb.ora
1210		
1.3.10. cache		
SQL> show parameter cache		
	TYPE	VALUE
NAME		VALUE
<pre>client_result_cache_lag client_result_cache_size</pre>	big integer big integer	0
db 16k cache size	big integer	

```
db_2k_cache_size db_32k_cache_size
                                                                             big integer 0
big integer 0
db_4k_cache_size
db_8k_cache_size
                                                                             big integer 0 big integer 0
db_cache_advice
                                                                              string
                                                                             big integer 0 string
db_cache_size
db_flash_cache_file
db_flash_cache_size
                                                                             big integer 0
                                                                              TYPE
NAME
                                                                                                       VALUE
db_keep_cache_size
db_recycle_cache_size
object_cache_max_size_percent
object_cache_optimal_size
                                                                             big integer 0 big integer 0
                                                                             integer
                                                                                                      10
                                                                             integer
                                                                                                      102400
result_cache_max_result
result_cache_max_size
result_cache_mode
result_cache_remote_expiration
session_cached_cursors
                                                                             integer
                                                                            big integer 16064K
string MANUAL
integer 0
                                                                                                      50
                                                                             integer
```

## 1.4. \$ORACLE\_HOME/sqlplus/admin/glogin.sql

```
set line 2000
set linesize 2000
set pagesize 100
col ename format a30
col sal format 999,999.999
```

## 1.5. @运行SQL

```
SQL> @ /home/oracle/your.sql
```

```
set pagesize 0
set linesize 80
set term off
set feed off
set echo off
set show off
set veri off
set head off

spool outputfile
select * from dba_users;
/
spool off
```

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2. lsnrctl

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4. Other GUI - phpOraAdmin

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2. lsnrctl

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### 3. RMAN

## 3.1. 数据库模式

数据库必须是归档模式,使用下面SQL查询当前数据库模式

如果已经是归档模式可跳过此步,下面是切换服务器到归档模式的方法:

```
[oracle@oracle ~]$ sqlplus /nolog (启动sqlplus)
SQL> conn / as sysdba (以DBA身份连接数据库)
SQL> shutdown immediate; (立即关闭数据库)
SQL> startup mount (启动实例并加载数据库,但不打开)
SQL> alter database archivelog; (更改数据库为归档模式)
SQL> alter database open; (打开数据库)
SQL> alter system archive log start; (启用自动归档)
SQL> exit (退出)

rman 采用块备份,查看块信息使用下面SQL语句
select * from dba_extents
```

### 3.2. 完全备份

```
run {
allocate channel d1 type disk;
backup format='/opt/oracle/backup/%d_%N_%s.bk' tablespace users;
release channel d1;
}
```

#### 下面让我来演示给你看

```
[oracle@oracle ~]$ mkdir /opt/oracle/backup
[oracle@oracle ~]$ rman target sys/passw0rd nocatalog

Recovery Manager: Release 11.2.0.1.0 - Production on Mon Jun 13 12:03:20 2011

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connected to target database: WCSDB (DBID=2970836713)

using target database control file instead of recovery catalog

RMAN> run {

allocate channel d1 type disk;

backup format='/opt/oracle/backup/%d_%N_%s.bk' tablespace users;

release channel d1;

} 2> 3> 4> 5>
```

```
allocated channel: d1
channel d1: SID=36 device type=DISK
Starting backup at 13-JUN-11
channel d1: starting full datafile backup set channel d1: specifying datafile(s) in backup
channel d1: specifying datafile(s) in backup set input datafile file number=00004 name=/opt/oracle/oradata/wcsdb/users01.dbf
channel d1: starting piece 1 at 13-JUN-11 channel d1: finished piece 1 at 13-JUN-11 piece handle=/opt/oracle/backup/WCSDB_USERS_1.bk tag=TAG20110613T120325 comment=NONE channel d1: backup set complete, elapsed time: 00:00:01 Finished backup at 13-JUN-11
released channel: d1
RMAN>
查看备份结果
RMAN> list backup of tablespace users;
List of Backup Sets
  Full 1.30M DISK 00:00:01 13-JUN-11
BP Key: 1 Status: AVAILABLE Compressed: NO Tag: TAG20110613T120325
Piece Name: /opt/oracle/backup/WCSDB_USERS_1.bk
List of Datafiles in backup set 1
File LV Type Ckp SCN Ckp Time Name
BS Key Type LV Size
                                        13-JUN-11 /opt/oracle/oradata/wcsdb/users01.dbf
               Full 1561686
备份目录下面是刚刚生成的备份文件
$ ls /opt/oracle/backup
WCSDB_USERS_1.bk
例 20.1. full backup
# crontab -u oracle -l
0 1 * * * /opt/oracle/rman/backup.sh
export PATH=$PATH:$HOME/bin:$ORACLE_HOME/bin
export LD_LIBRARY_PATH=$ORACLE_HOME/lib:/usr/lib
# cat /opt/oracle/rman/orcl.rman
run {
    allocate channel c1 type disk;
    allocate channel c2 type disk;
    configure retention policy to recovery window of 6 days;
    configure controlfile autobackup on;
    backup optimization on;
     configure backup optimization on; configure device type disk parallelism 4 backup type to compressed backupset; configure controlfile autobackup format for device type disk to
 '/opt/oracle/backup/rman/%F.ctl';
    sql 'alter system switch logfile';
backup full database format '/opt/oracle/backup/rman/df_%t_%s_%p.bak' tag='full' include
current controlfile;
sql 'alter system archive log current';
backup archivelog all format '/opt/oracle/backup/rman/arc_%U_%s.bak' delete all input;
release channel cl;
    release channel c2;
crosscheck backup;
delete noprompt expired backup;
delete noprompt obsolete;
exit
```

## 3.3. 增量备份

```
RMAN> BACKUP INCREMENTAL LEVEL 0 DATABASE;
RMAN> BACKUP INCREMENTAL LEVEL 1 TABLESPACE SYSTEM DATAFILE 'ora_home/oradata/ tools01.dbf'; RMAN> BACKUP INCREMENTAL LEVEL = 1 CUMULATIVE TABLESPACE users;
网上发现的脚步,署名不详
run{
allocate channel c1 type disk; allocate channel c2 type disk; allocate channel c3 type disk; allocate channel c3 type disk; backup full tag 'dbfull' format '/u01/oradata/backup/full%u_%s_%p' database include current
controlfile;
sql 'alter system archive log current';
backup filesperset 3 format '/u01/oradata/backup/arch%u_%s_%p' archivelog all delete input;
release channel c1;
release channel c2; release channel c3;
零级备份脚本
run{
allocate channel c1 type disk; allocate channel c2 type disk; allocate channel c3 type disk;
backup incremental level 0 tag 'db0' format '/u01/oradata/backup/db0%u_%s_%p' database skip
readonly;
sql 'alter system archive log current';
backup filesperset 3 format '/u01/oradata/backup/arch%u_%s_%p' archivelog all delete input;
backup filesperset 3 format release channel c1; release channel c2;
release channel c3;
一级备份脚本
run{
allocate channel c1 type disk; allocate channel c2 type disk; allocate channel c3 type disk; allocate channel c3 type disk; backup incremental level 1 tag 'db1' format '/u01/oradata/backup/db1%u_%s_%p' database skip readonly;
sql 'alter system archive log current'; backup filesperset 3 format '/u01/oradata/backup/arch%u_%s_%p' archivelog all delete input;
backup filesperset 3 format release channel c1;
release channel c2;
release channel c3;
网上发现的脚步,没有署名,我也没有测试过,仅供参考
do_rman.sh
#!/bin/bash
#set env
export NLS_LANG=AMERICAN_AMERICA.ZHS16GBK export PATH=$ORACLE_HOME/bin:$PATH
TARGET_SID=$TARGET_SID
RMAN_SID=$RMAN_SID
export PATH=$ORACLE_HOME/bin:$PATH
DATE=`date +%w`
DATE_2=`date +%Y%m%d`
BACKUP_PATH=$ORACLE_BASE/admin/$ORACLE_SID/rman/backup
LEVEL=$@
BIN=SORACLE_HOME/bin
# Delete the data backuped last time
rm -rf $BACKUP_PATH/data/$DATE/*
fi
resync catalog;
          run{
                     allocate channel c1 type disk ;
```

```
crosscheck backupset of archivelog all ;
backup filesperset 3 format
'$BACKUP_PATH/data/$DATE/arch.%d.live.$LEVEL.%t'(archivelog from time 'sysdate-7' all delete
input);
                         delete noprompt expired backupset of archivelog all ; release channel c1 ;
            }
            run{
allocate channel c2 type disk;
crosscheck backupset of database;
backup incremental level $LEVEL filesperset 3 format
'$BACKUP_PATH/data/$DATE/data.%d.live.$LEVEL.%t'(database include current controlfile);
                         delete noprompt expired backupset of database; delete noprompt obsolete; release channel c2;
             éxit;
EOF
else
             $BIN/rman log $BACKUP_PATH/log/level.$TARGET_SID.$LEVEL.$DATE_2.log < connect target
sys/sys202;
            connect catalog rman/rman@$RMAN_SID;
            resync catalog;
            run{
                         allocate channel c1 type disk ;
crosscheck backupset of archivelog all;
backup filesperset 3 format '$BACKUP_PATH/data/$DATE/arch.%d.live.$LEVEL.%t'
(archivelog from time 'sysdate-1' all);
                         delete noprompt expired backupset of archivelog all ; release channel c1 ;
             }
            run{
                         allocate channel c2 type disk ;
crosscheck backupset of database ;
    backup incremental level $LEVEL filesperset 3 format
'$BACKUP_PATH/data/$DATE/data.%d.live.$LEVEL.%t' (database include current controlfile);
                         delete noprompt expired backupset of database ;
delete noprompt obsolete ;
release channel c2 ;
             }
            exit;
FOF
fi
echo "[do_rman] rman is success."
3.4. 恢复数据库
%rman target=rman/rman@mvdb
RMAN> startup nomount
RMAN> restore database;
RMAN> recover database;
RMAN> alter database open;
网上找到的文档,署名不详,我没有测试过是否可以运行
设定参数:
CONFIGURE CONTROLFILE AUTOBACKUP FORMAT FOR DEVICE TYPE DISK TO '/arch/rman/controlfile%F.ctnl'; CONFIGURE CHANNEL 1 DEVICE TYPE DISK FORMAT '/arch/rman/full%t.bak';
数据库rman 全备
rman>backup database plus archivelog delete input;
备份产生的三个文件
-rw-r---- 1 oracle oinstall 7143424 Jan 28 18:0
-rw-r---- 1 oracle oinstall 7143424 Jan 28 18:05 controlfilec-2719028776-20100128-01.ctnl

-rw-r---- 1 oracle oinstall 41074688 Jan 28 18:03 full709495428.bak

-rw-r---- 1 oracle oinstall 763379712 Jan 28 18:05 full709495432.bak

-rw-r---- 1 oracle oinstall 7920 Jan 28 18:05 full709495518.bak
rman恢复
1、启动数据库到 nomount 状态
$sqlplus / as sysdba
SQL>
      startup nomount
2、spfile 恢复
$rman nocatalog
rman> connect target /
allocate channel c1 DEVICE TYPE DISK format '/arch/rman/controlfile%F.ctnl'; restore spfile to pfile '/arch/pfile.ora' from '/arch/rman/controlfilec-2719028776-20100128-01.ctnl';
release channel c1;
```

```
3. 控制文件恢复
run {
allocate channel cl DEVICE TYPE DISK format '/arch/rman/controlfile%F.ctnl';
restore controlfile from '/arch/rman/controlfilec-2719028776-20100128-01.ctnl';
release channel cl;
}
4. 全库恢复
在恢复控制文件的情况下,可以修改数据到 mount状态,进行全库的恢复
rman> alter database mount;
run {
allocate channel cl device type disk format '/arch/rman/full%t.bak';
restore database;
release channel cl;
}
5. 恢复archivelog
run {
allocate channel cl device type disk format '/arch/rman/full%t.bak';
restore archivelog all;
}
run {
allocate channel cl device type disk format '/arch/rman/full%t.bak';
restore archivelog from logseq=72 until logseq=73;
}
6. redolog 恢复
SQL>recover database using backup controlfile until cancel;
SQL>alter database open resetlogs; //现在有redolog 产生了,还有temp表空间文件也生成了或者分开两步执行
SOL>select * from dual;
全库成功恢复
```

## 3.5. 是用tar打包rman文件

```
# find /opt/oracle/rman/ -type f -mtime 1 -printf "%CY-%Cm-%Cd %Cr %s %f\n"
tar --newer="2011-07-04" -zcvf backup.tar.gz /opt/oracle/rman/
find /opt/oracle/rman/ -type f -mtime 1 | xargs tar zcvf oracle_2011-07-04.tgz
rsync -azP `find /opt/oracle/rman/ -type f -mtime 1` test@172.16.0.5:/home/test
```

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## 1. Getting Started

### 1.1. Downloading and Installation

```
$ cd /srv/
$ cd /usr/local/src/
$ sudo wget -c http://apache.freelamp.com/cassandra/0.5.1/apache-cassandra-0.5.1-bin.tar.gz
$ sudo tar zxvf apache-cassandra-0.5.1-bin.tar.gz
$ cp -r /usr/local/src/apache-cassandra-0.5.1 /srv/
$ cd /srv/
$ sudo ln -s apache-cassandra-0.5.1 apache-cassandra
$ cd apache-cassandra
1.2. Running Cassandra
Running Cassandra
$ bin/cassandra
Listening for transport dt_socket at address: 8888
INFO - Saved Token not found. Using 70882909557229809272696372631016976044
INFO - Starting up server gossip
1.3. cli tool
cli
$ bin/cassandra-cli
neo@db:/srv/apache-cassandra$ bin/cassandra-cli
Welcome to cassandra CLI.
Type 'help' or '?' for help. Type 'quit' or 'exit' to quit.
cassandra>
cassandra> connect localhost/9160 Connected to localhost/9160
1.4. Testing Cassandra
test
cassandra> show keyspaces
Keyspace1
system
insert value
cassandra> set Keyspace1.Standard1['member']['name']='neo'
Value inserted.
cassandra> set Keyspace1.Standard1['member']['age']='27'
Value inserted. cassandra> set Keyspace1.Standard1['member']['email']='openunix@163.com'
Value inserted.
cassandra>
cassandra> get Keyspace1.Standard1['member']
=> (column=name, value=neo, timestamp=1271070497471)
=> (column=email, value=openunix@163.com, timestamp=1271070498334)
```

=> (column=age, value=27, timestamp=1271070497519)
Returned 3 results.
cassandra>

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## 2. Configure Cassandra

#### 2.1. Envionment variables

CASSANDRA\_HOME=/srv/apache-cassandra

### 2.2. log4j.properties

```
[root@db apache-cassandra]# vim conf/log4j.properties
log4j.appender.R=org.apache.log4j.RollingFileAppender
log4j.appender.file.maxFileSize=20MB
log4j.appender.file.maxBackupIndex=50
log4j.appender.R.layout=org.apache.log4j.PatternLayout
log4j.appender.R.layout.ConversionPattern=%5p [%t] %d{ISO8601} %F (line %L) %m%n
# Edit the next line to point to your logs directory
log4j.appender.R.File=/var/log/cassandra/system.log

# Application logging options
#log4j.logger.com.facebook=DEBUG
#log4j.logger.com.facebook.infrastructure.gms=DEBUG
#log4j.logger.com.facebook.infrastructure.db=DEBUG
#log4j.logger.com.facebook.infrastructure.db=DEBUG
```

## 2.3. storage-conf.xml

[root@db apache-cassandra]# vim conf/storage-conf.xml

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## 3. Keyspace

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- 3.1.1. Keyspace
- 3.1.2. Column family
- 3.1.2.1. Name
- 3.1.2.2. Column
- 3.1.2.3. Super column
- 3.1.2.4. Sorting

## 3.2. Keyspace example

例 21.1. Twitter

#### 例 21.2. Twissandra

<ReplicaPlacementStrategy>org.apache.cassandra.locator.RackUnawareStrategy/ReplicaPlacementStrategy

#### Schema Layout

In Cassandra, the way that your data is structured is very closely tied to how how it will be retrieved. Let's start with the user

ColumnFamily. The key is a user id, and the columns are the properties on the user:

```
User = {
    'a4a70900-24e1-11df-8924-001ff3591711': {
        'id': 'a4a70900-24e1-11df-8924-001ff3591711',
        'username': 'ericflo',
        'password': '****',
    },
}
```

Since some of the URLs on the site actually have the username, we need to be able to map from the username to the user id:

```
Username = {
    'ericflo': {
        'id': 'a4a70900-24e1-11df-8924-001ff3591711',
     },
}
```

Friends and followers are keyed by the user id, and then the columns are the friend user id and follower user ids, and we store a timestamp as the value because it's interesting information to have:

```
Friends = {
    'a4a70900-24e1-11df-8924-001ff3591711': {
        # friend id: timestamp of when the friendship was added
        '10cf667c-24e2-11df-8924-001ff3591711': '1267413962580791',
        '343d5db2-24e2-11df-8924-001ff3591711': '1267413990076949',
        '3f22b5f6-24e2-11df-8924-001ff3591711': '1267414008133277',
    },
}

Followers = {
    'a4a70900-24e1-11df-8924-001ff3591711': {
        # friend id: timestamp of when the followership was added
        '10cf667c-24e2-11df-8924-001ff3591711': '1267413962580791',
        '343d5db2-24e2-11df-8924-001ff3591711': '1267413990076949',
        '3f22b5f6-24e2-11df-8924-001ff3591711': '1267413990076949',
        '3f22b5f6-24e2-11df-8924-001ff3591711': '1267414008133277',
    },
}
```

Tweets are stored in a way similar to users:

```
Tweet = {
    '7561a442-24e2-11df-8924-001ff3591711': {
        'id': '89da3178-24e2-11df-8924-001ff3591711',
        'user_id': 'a4a70900-24e1-11df-8924-001ff3591711',
        'body': 'Trying out Twissandra. This is awesome!',
        '_ts': '1267414173047880',
    },
}
```

The Timeline and Userline column families keep track of which tweets should appear, and in what order. To that effect, the key is the user id, the column name is a timestamp, and the column value is the tweet id:

```
Timeline = {
    'a4a70900-24e1-11df-8924-001ff3591711': {
        # timestamp of tweet: tweet id
        1267414247561777: '7561a442-24e2-11df-8924-001ff3591711',
        1267414277402340: 'f0c8d718-24e2-11df-8924-001ff3591711',
        1267414305866969: 'f9e6d804-24e2-11df-8924-001ff3591711',
        1267414319522925: '02ccb5ec-24e3-11df-8924-001ff3591711',
    },
}

Userline = {
    'a4a70900-24e1-11df-8924-001ff3591711': {
        # timestamp of tweet: tweet id
        1267414247561777: '7561a442-24e2-11df-8924-001ff3591711',
        1267414277402340: 'f0c8d718-24e2-11df-8924-001ff3591711',
        1267414305866969: 'f9e6d804-24e2-11df-8924-001ff3591711',
        1267414305866969: 'f9e6d804-24e2-11df-8924-001ff3591711',
        1267414319522925: '02ccb5ec-24e3-11df-8924-001ff3591711',
        },
}
```

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```
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```

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```
4. Cluster
```

4.1. Running a cluster

```
<Seed>127.0.0.1</Seed>
```

改为

<Seed>172.16.0.1</Seed>

```
<ListenAddress>localhost</ListenAddress>
改为:
  <ListenAddress>172.16.0.1</ListenAddress>
```

\$ bin/cassandra

4.2. Running a single node

```
<Seed>127.0.0.1</Seed>
```

改为

<Seed>172.16.0.2</Seed>

 改为: <ThriftAddress>0.0.0</ThriftAddress>

\$ bin/cassandra

4.3. nodetool

nodeprobe -host 172.16.0.1 ring

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1.2. Ubuntu MongoDB

2. Security and Authentication

3. Drivers

3.1. Using MongoDB in PHP

http://www.mongodb.org/

## 1. Quickstart

Install MongoDB

```
wget http://fastdl.mongodb.org/linux/mongodb-linux-x86_64-1.5.5.tgz
debian:/srv# tar zxf mongodb-linux-x86_64-1.5.5.tgz
debian:/srv# ln -s mongodb-linux-x86_64-1.5.5 mongodb
```

Create a data directory

By default MongoDB will store data in /data/db, but it won't automatically create that directory. To create it, do:

```
$ sudo mkdir -p /data/db/
$ sudo chown `id -u` /data/db
```

You can also tell MongoDB to use a different data directory, with the --dbpath option.

Run and connect to the server

First, start the MongoDB server in one terminal:

\$ ./mongodb/bin/mongod

In a separate terminal, start the shell, which will connect to localhost by default:

```
$ ./mongodb/bin/mongo
> db.foo.save( { a : 1 } )
> db.foo.find()
```

#### 例 22.1. MongoDB Test

## 1.1. Starting Mongo

Running as a Daemon

```
$ ./mongod --fork --logpath /var/log/mongodb.log --logappend
```

## 1.2. Ubuntu MongoDB

```
$ sudo apt-get install mongodb-server mongodb-clients
```

```
\ /etc/init.d/mongodb  
 Usage: /etc/init.d/mongodb  
 {start|stop|force-stop|restart|force-reload|status}
```

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## 2. Security and Authentication

Add Users

```
> use neo
switched to db neo
> db.addUser('neo','chen')
{
        "user" : "neo",
        "readOnly" : false,
        "pwd" : "68ace374737253d87e0ec91d4fcb673d"
}
[conn5] Thu Jul 22 17:48:52 building new index on { _id: 1 } for neo.system.users
[conn5] Thu Jul 22 17:48:52 Buildindex neo.system.users idxNo:0 { name: "_id_", ns:
"neo.system.users", key: { _id: 1 } }
[conn5] Thu Jul 22 17:48:52 done for 0 records 0secs
> db.system.users.find()
{ "_id" : 0bjectId("4c481404b9db6474d2fcb76f"), "user" : "neo", "readOnly" : false, "pwd" :
"68ace374737253d87e0ec91d4fcb673d" }
> db.auth('neo','chen')
```

Deleting Users

To delete a user:

db.system.users.remove( { user: username } )

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3. Drivers

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### 3. Drivers

### 3.1. Using MongoDB in PHP

Installing the PHP Driver

```
sudo pecl install mongo
Open your php.ini file and add to it:
extension=mongo.so
例 22.2.
[root@subversion html]# cat mongo.php
<?php
 // connect
$m = new Mongo('192.168.3.9');
// select a database
$db = $m->comedy;
$collection = $db->cartoons;
       add an element
$obj = array( "title" => "Calvin and Hobbes", "author" => "Bill Watterson" );
$collection->insert($obj);
// add another element, with a different "shape"
$obj = array( "title" => "XKCD", "online" => true );
$collection->insert($obj);
// find everything in the collection
$cursor = $collection->find();
 // iterate through the results
foreach ($cursor as $obj) {
    echo $obj["title"] . "\n";
  // disconnect
$m->close();
[root@subversion html]# php mongo.php
Calvin and Hobbes
XKCD
[root@subversion html]# php mongo.php
Calvin and Hobbes
XKCD
Calvin and Hobbes
XKCD
> use comedy
switched to db comedy
> db.foo.find()
> db.cartoons.find()
{ "_id" : ObjectId("4c481d2b9503c17611000000"), "title" : "Calvin and Hobbes", "author" : "Bill
Watterson" }
{ " id" : ObjectId("4c481d2b9503c176110100000"), "title" : "VYCD", "objectId("4c481d2b9503c176110100000"), "title" : "VYCD", "objectId("4c481d2b9503c1761100000"), "title" : "vycd", "objectId("4c481d2b9503c1761100000")
{ "_id" : ObjectId("4c481d2b9503c17611010000"), "title" : "XKCD", "online" : true } { "_id" : ObjectId("4c481d2f9503c17711000000"), "title" : "Calvin and Hobbes", "author" : "Bill Watterson" }
                        : ObjectId("4c481d2f9503c17711010000"), "title" : "XKCD", "online" : true }
```

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## 第 24 章 key-value cache

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## 1. TokyoCabinet/Tyrant

http://www.162cm.com/p/tokyotyrant.html

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2. Redis

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## 2. Redis

```
http://redis.io/
$ sudo apt-get install redis-server
$ dpkg -s redis-server
Package: redis-server
Status: install ok installed
Priority: optional
Section: database
Installed-Size: 208
Maintainer: Chris Lamb <lamby@debian.org>
Architecture: amd64
Source: redis
Version: 2:1.2.6-1
Depends: libc6 (>= 2.7), adduser
Conffiles:
  /etc/redis/redis.conf al9bad63017ec19def2c3a8a07bdc362
/etc/redis/redis.conf a19bad63017ec19def2c3a8a07bdc362
/etc/logrotate.d/redis-server 06755b99ef70d62a56cff94cbfc36de7
/etc/init.d/redis-server 3742555c10ab16fdd67fcbaf92faf694
/etc/bash_completion.d/redis-cli 848565df7f222dc03c8d5cb34b9e0188
Description: Persistent key-value database with network interface
Redis is a key-value database in a similar vein to memcache but the dataset is non-volatile. Redis additionally provides native support for atomically manipulating and querying data structures such as lists and sets.
The dataset is stored entirely in memory and periodically flushed to disk. Homepage: http://code.google.com/p/redis/
$ cat /etc/redis/redis.conf
# Redis configuration file example
# By default Redis does not run as a daemon. Use 'yes' if you need it.
# Note that Redis will write a pid file in /var/run/redis.pid when daemonized.
daemonize yes
# When run as a daemon, Redis write a pid file in /var/run/redis.pid by default. # You can specify a custom pid file location here. pidfile /var/run/redis.pid
\# Accept connections on the specified port, default is 6379 port 6379
# If you want you can bind a single interface, if the bind option is not # specified all the interfaces will listen for connections.
bind 127.0.0.1
   Close the connection after a client is idle for N seconds (0 to disable)
timeout 300
   Set server verbosity to 'debug'
# it can be one of:
# debug (a lot of information, useful for development/testing)
# notice (moderately verbose, what you want in production probably)
# warning (only very important / critical messages are logged)
loglevel notice
# Specify the log file name. Also 'stdout' can be used to force # the demon to log on the standard output. Note that if you use standard # output for logging but daemonize, logs will be sent to /dev/null logfile /var/log/redis/redis-server.log
# Set the number of databases. The default database is DB 0, you can # a different one on a per-connection basis using SELECT <dbid> where # dbid is a number between 0 and 'databases'-1 databases 16
                                                                                                                     you can select
################################ SNAPSHOTTING ##################################
   Save the DB on disk:
        save <seconds> <changes>
        Will save the DB if both the given number of seconds and the given
       number of write operations against the DB occurred.
```

```
In the
                         example below the behaviour will be to save:
         after 900 sec (15 min) if at least 1 key changed after 300 sec (5 min) if at least 10 keys changed after 60 sec if at least 10000 keys changed
#
save 900 1
save 300 10
save 60 10000
# Compress string objects using LZF when dump .rdb databases?
# For default that's set to 'yes' as it's almost always a win.
# If you want to save some CPU in the saving child set it to 'no' but
# the dataset will likely be bigger if you have compressible values or keys.
rdbcompression yes
# The filename where to dump the DB
dbfilename dump.rdb
# For default save/load DB in/from the working directory
# Note that you must specify a directory not a file name.
dir /var/lib/redis
# Master-Slave replication. Use slaveof to make a Redis instance a copy of # another Redis server. Note that the configuration is local to the slave # so for example it is possible to configure the slave to save the DB with a # different interval, or to listen to another port, and so on.
# slaveof <masterip> <masterport>
   If the master is password protected (using the "requirepass" configuration directive below) it is possible to tell the slave to authenticate before starting the replication synchronization process, otherwise the master will refuse the glave request
   refuse the slave request.
# Require clients to issue AUTH <PASSWORD> before processing any other # commands. This might be useful in environments in which you do not trust # others with access to the host running redis-server.
   This should stay commented out for backward compatibility and because most people do not need auth (e.g. they run their own servers).
# requirepass foobared
Set the max number of connected clients at the same time. By default there is no limit, and it's up to the number of file descriptors the Redis process is able to open. The special value '0' means no limts. Once the limit is reached Redis will close all the new connections sending an error 'max number of clients reached'.
# maxclients 128
# Don't use more memory than the specified amount of bytes.
# When the memory limit is reached Redis will try to remove keys with an
# EXPIRE set. It will try to start freeing keys that are going to expire
# in little time and preserve keys with a longer time to live.
# Redis will also try to remove objects from free lists if possible.
   If all this fails, Redis will start to reply with errors to commands that will use more memory, like SET, LPUSH, and so on, and will continue to reply to most read-only commands like GET.
  WARNING: maxmemory can be a good idea mainly if you want to use Redis as a 'state' server or cache, not as a real DB. When Redis is used as a real database the memory usage will grow over the weeks, it will be obvious if it is going to use too much memory in the long run, and you'll have the time to upgrade. With maxmemory after the limit is reached you'll start to get errors for write operations, and this may even lead to DB inconsistency.
# maxmemory <bytes>
# By default Redis asynchronously dumps the dataset on disk. If you can live # with the idea that the latest records will be lost if something like a crash # happens this is the preferred way to run Redis. If instead you care a lot # about your data and don't want to that a single record can get lost you should # enable the append only mode: when this mode is enabled Redis will append # every write operation received in the file appendonly.log. This file will # be read on startup in order to rebuild the full dataset in memory.
# Note that you can have both the async dumps and the append only file if you # like (you have to comment the "save" statements above to disable the dumps). # Still if append only mode is enabled Redis will load the data from the # log file at startup ignoring the dump.rdb file.
# The name of the append only file is "appendonly.log"
   IMPORTANT: Check the BGREWRITEAOF to check how to rewrite the append
# log file in background when it gets too big.
appendonly no
# The fsync() call tells the Operating System to actually write data on disk # instead to wait for more data in the output buffer. Some OS will really flush # data on disk, some other OS will just try to do it ASAP.
# Redis supports three different modes:
```

2.1. Test Redis

## http://redis.io/commands

```
$ redis-cli info
redis_version:1.2.6
 arch_bits:64
multiplexing_api:epoll
uptime_in_seconds:859
uptime_in_days:0
connected_clients:1
connected_slaves:0
 used_memory:619490
used_memory:619490
used_memory_human:604.97K
changes_since_last_save:0
bgsave_in_progress:0
last_save_time:1311100746
bgrewriteaof_in_progress:0
total_connections_received:4
total_commands_processed:0
role:master
    redis-cli set name neo
OK
$ redis-cli get name
$ telnet localhost 6379
Trying ::1...
telnet: connect to address ::1: Connection refused
Trying 127.0.0.1...
Connected to localhost (127.0.0.1).
Escape character is '^]'.
get name
get name
 $3
neo
 auit
Connection closed by foreign host.
```

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3. Flare <u>起始页</u> 5. LevelDB

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## 5. LevelDB

LevelDB is a fast key-value storage library written at Google that provides an ordered mapping from string keys to string values.

http://code.google.com/p/leveldb/

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## 第 26 章 SuperSmack

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## 第 28 章 ETL (Extract-Transform-Load)

ETL或ELT (extract)、转置 (transform)、加载 (load)

http://zh.wikipedia.org/wiki/ETL

Kettle http://www.ketl.org

http://www.cloveretl.org/

http://www.xaware.org/

Apatar http://www.apatar.org/

http://www.enhydra.org/

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## 1. opensource database design tools

DBDesigner 4 - http://www.fabforce.net/dbdesigner4/

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# 2. OpenSystemArchitect

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## 2. OpenSystemArchitect

http://www.codebydesign.com

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## 3. SQL Power Architect

http://www.sqlpower.ca/

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## 2. Snapshot Backup

# mysql -uroot -pmysql
mysql> flush tables with read lock;
mysql>flush logs;
mysql>system lvcreate -L1024M -s -n snap0 /dev/vg00/lvol00
mysql>show master status;
mysql>unlock tables;
mysql>quit

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