



OBIEE 11.1.1.7集群环境安装介绍

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Seng的自我介绍



- **2000**年开始从事**BIDW**工作
- **2007**年开始**8**年**OBIEE**经验
- 擅长**BIDW**架构建设
- 擅长**OBEE**大量用户大数据量**ad-hoc**查询优化
- 目前工作重点数据分析和大数据特别是日志分析工作

- 新浪**Blog**
 - <http://blog.sina.com.cn/sengat126>

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目标



- 在CentOS5.5环境下安装多个节点的OBIEE环境
- 从10g环境迁移已有rpd文件和catalog
- 权限使用10g使用的AD认证和外部表配置权限

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准备工作



- Host name的统一，包括repository所在host
- 系统的一些参数如/etc/security/limits.conf中的nofile nproc参数
- RCU创建repository
- 机器间共享目录的建立：使用同一路径
 - 建议使用nas, 没有nas使用nfs服务也可

系统安装



- 安装第一个节点，使用企业安装扩展
- 安装其余节点，使用企业安装扩展，其中主节点选择第一个节点。
- 启动服务顺序
 - 主节点：
 - 启动node manager
 - 启动weblogic
 - 启动manager server
 - 启动opmn
 - 从节点：
 - 启动node manager
 - 启动manager server
 - 启动opmn

访问验证



- em默认访问URL为http://主节点:7001/em
- 注意事项:
 - 从节点默认是没有biee进程启动的，需要在em/Business Intelligence/coreapplication/Capacity Management/Scalability增加，由于10g内容没有迁移，完成迁移后增加

10g内容迁移



- 使用ua升级10g环境，注意ua不支持集群环境，需要单独安装一个11g临时环境
- 迁移后发布内容
 - rpd文件：em中发布
 - catalog：em中发布
 - 用户：
可以使用Weblogic Console\myrealm\Migration整体迁移；

访问验证



- 访问主节点
 - <http://主节点:9704/analytics/saw.dll?bieehome>
- 增加从节点服务：
 - BI server
 - BI presentation server

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同10g一样的权限控制



- 主要参考文档
 - <http://www.rittmanmead.com/2012/03/obiee-11g-security-week-connecting-to-active-directory-and-obtaining-group-membership-from-database-tables/>
 - Oracle Support, [Doc. ID. 1428008.1](#).

同10g一样的权限控制



- 增加AD认证（part1）
 - Administration Console /**Security Realms/myrealm**

Settings for myrealm

Configuration Users and Groups Roles and Policies Credential Mappings **Providers** Migration

Authentication Password Validation Authorization Adjudication Role Mapping Auditing

Credential Mapping Certification Path Keystores

An Authentication provider allows WebLogic Server to establish trust by validating a user. You must have one Authentication provider in a security realm, and you can configure multiple Authentication providers in a security realm. Different types of Authentication providers are designed to access different data stores, such as LDAP servers or DBMS. You can also configure a Realm Adapter Authentication provider that allows you to work with users and groups from previous releases of WebLogic Server.

► **Customize this table**

Authentication Providers

New Delete Reorder Showing 1 to 2 of 2 Previous | Next

<input type="checkbox"/>	Name	Description	Version
<input type="checkbox"/>	DefaultAuthenticator	WebLogic Authentication Provider	1.0
<input type="checkbox"/>	DefaultIdentityAsserter	WebLogic Identity Assertion provider	1.0

New Delete Reorder Showing 1 to 2 of 2 Previous | Next

同10g一样的权限控制



- 增加AD认证（part2）
 - 选择**ActiveDirectoryAuthenticator** 类型并配置

Settings for ADProvider





Configuration Performance

Common Provider Specific

Save

Use this page to define the provider specific configuration for this Active Directory Authentication provider.

— Connection —

 Host:	<input type="text" value="pdc.gcbbc.com"/>	The host name or IP address of the LDAP server. More Info...
 Port:	<input type="text" value="389"/>	The port number on which the LDAP server is listening. More Info...
 Principal:	<input type="text" value="CN=ADBISystemUser, ("/>	The Distinguished Name (DN) of the LDAP user that WebLogic Server should use to connect to the LDAP server. More Info...
Credential:	<input type="password" value="....."/>	The credential (usually a password) used to connect to the LDAP server. More Info...
Confirm Credential:	<input type="password" value="....."/>	
<input type="checkbox"/>  SSLEnabled		Specifies whether the SSL protocol should be used when connecting to the LDAP

同10g一样的权限控制



- 增加外部表认证（part1）
 - Administration Console / **Services** / **Data Sources**新建一个**Generic Data Source**

The screenshot shows the 'Create a New JDBC Data Source' wizard. At the top, there are navigation buttons: 'Back', 'Next', 'Finish', and 'Cancel'. Below this is the section 'JDBC Data Source Properties'. A text block states: 'The following properties will be used to identify your new JDBC data source. * Indicates required fields'. The first question is 'What would you like to name your new JDBC data source?'. The '* Name:' label is followed by a text box containing 'BIDatabaseGroupsDS'. The second question is 'What JNDI name would you like to assign to your new JDBC Data Source?'. The 'JNDI Name:' label is followed by a text box containing 'jdbc/BIDatabaseGroupsDS'. The third question is 'What database type would you like to select?'. The 'Database Type:' label is followed by a dropdown menu with 'Oracle' selected. At the bottom, there are navigation buttons: 'Back', 'Next', 'Finish', and 'Cancel'.

也可参考My Oracle Support,
[Doc. ID. 1428008.1](https://support.oracle.com/Doc/1428008.1).

同10g一样的权限控制



- 增加外部表认证（part2）
 - Administration Console / **Security Realm > myrealm > Providers**新建一个**BISQLGroupProvider**

Create a New Authentication Provider

OK Cancel

Create a new Authentication Provider

The following properties will be used to identify your new Authentication Provider.

* Indicates required fields

The name of the authentication provider.

* **Name:** MySQLGroupProvider

This is the type of authentication provider you wish to create.

Type: BISQLGroupProvider

OK Cancel

Settings for MySQLGroupProvider

Configuration Performance

Common **Provider Specific**

Save

This page allows you to configure additional attributes for this security provider.

Data Source Name: jdbc/BIDatabaseGroupI

Group Membership Searching: unlimited

Max Group Membership Search Level: 0

SQLList Groups: SELECT G_NAME FRO

SQLGroup Exists: SELECT G_NAME FRO

SQLIs Member: SELECT G_MEMBER F

SQLList Member Groups: SELECT G_NAME FRO

☒ Descriptions Supported

同10g一样的权限控制



- 增加外部表认证（part3）
 - 重排认证顺序

Authentication Providers

Click the **Lock & Edit** button in the Change Center to activate all the buttons on this page.

New Delete Reorder Showing 1 to 4 of 4 Previous | Next

<input type="checkbox"/>	Name	Description	Version
<input type="checkbox"/>	MySQLGroupProvider	BI SQL Group Provider	1.0
<input type="checkbox"/>	ADProvider	Provider that performs LDAP authentication	1.0
<input type="checkbox"/>	DefaultAuthenticator	WebLogic Authentication Provider	1.0
<input type="checkbox"/>	DefaultIdentityAsserter	WebLogic Identity Assertion provider	1.0

New Delete Reorder Showing 1 to 4 of 4 Previous | Next

- 设置role和group

em中增加，需要和table的组名一致，同时在console增加同名group，并将group加到role下面

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中文支持



- 中文支持

- 修改NQSConfig.INI

- ```
Localization/Internationalization parameters.
```

- ```
#LOCALE = "english-usa";
```

- ```
#SORT_ORDER_LOCALE = "english-usa";
```

- ```
LOCALE = "Chinese-simplified";
```

- ```
SORT_ORDER_LOCALE = "Chinese-simplified";
```

# 访问行数的限制



- 访问行数的限制，修改instanceconfig.xml

〈Pivot〉部分增加

〈MaxCells〉 xxxx 〈/MaxCells〉

〈MaxVisibleColumns〉 xxxx 〈/MaxVisibleColumns〉

〈MaxVisiblePages〉 xxxx 〈/MaxVisiblePages〉

〈MaxVisibleRows〉 xxxx 〈/MaxVisibleRows〉

〈MaxVisibleSections〉 xxxx 〈/MaxVisibleSections〉

〈Table〉部分增加

〈Cube〉

〈CubeMaxRecords〉 xxxx 〈/CubeMaxRecords〉

〈CubeMaxPopulatedCells〉 xxxx 〈/CubeMaxPopulatedCells〉

〈/Cube〉

〈Charts〉

〈MaxVisibleColumns〉 xxxx 〈/MaxVisibleColumns〉

〈MaxVisiblePages〉 xxxx 〈/MaxVisiblePages〉

〈MaxVisibleRows〉 xxxx 〈/MaxVisibleRows〉

〈MaxVisibleSections〉 xxxx 〈/MaxVisibleSections〉

〈JavaHostReadLimitInKB〉 xxxx 〈/JavaHostReadLimitInKB〉

〈/Charts〉

# BIEE 11g访问日志的配置



- 参考
  - <http://www.oracle.com/webfolder/technetwork/tutorial/sobe/fmw/bi/bi1116/ut/ut.html>
- 修改位置
  - WebLogic Domain>bifoundation\_domain>System MBean Browser>Application Defined MBeans>oracle.biee.admin>bifoundation\_domain>BIDomain.BIInstance.ServerConfiguration下和Usage Tracking
- 注意事项
  - BIEE 11g的日志表结构已修改，增加了clob字段记录query text

# 虚拟路由的配置



- 由于Weblogic没有使用企业级安装，使用负载均衡设备平衡访问
  - 设置虚拟路由转向所有节点的9704端口，

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# 一些推荐网站



- **Mark Rittman的Blog**
  - <http://www.rittmanmead.com/blog/>
- **Oracle support网站**





# 谢谢!