# Configuración de ISE 2.1 con MS SQL mediante ODBC

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# Introducción

Este documento describe cómo configurar Identity Services Engine (ISE) con Microsoft Standard Query Language (SQL) Server para la autenticación de ISE mediante Conectividad abierta de bases de datos (ODBC)

**Nota:** La autenticación de Conectividad de base de datos abierta (ODBC) requiere que ISE pueda obtener una contraseña de usuario de texto sin formato. La contraseña puede cifrarse en la base de datos, pero debe descifrarse mediante el **procedimiento almacenado**.

# Prerequisites

# Requirements

Cisco recomienda que tenga conocimiento sobre estos temas:

- Conceptos de base de datos y ODBC
- Microsoft SQL Server

## **Componentes Utilizados**

La información que contiene este documento se basa en las siguientes versiones de software y hardware.

- Identity Services Engine 2.1
- MSSQL Server 2008 R2

# Configurar

## Paso 1. Configuración básica de MS SQL

Los pasos de configuración incluyen la creación de una base de datos y un usuario para ISE con permisos para acceder a esa base de datos.

**Nota:** ISE sólo admite la autenticación SQL, no la cuenta de Windows. Si necesita cambiar el modo de autenticación, consulte <u>Cambiar el modo de autenticación del servidor</u>

1. Abra SQL Server Management Studio (**menú Inicio > Microsoft SQL Server 2008 R2**) y cree una base de datos:



2. Deje las opciones predeterminadas o ajuste la configuración de la base de datos como se muestra en esta imagen:

| 🚪 New Database                        |                  |           |                     |         |                           |   | _ 🗆 ×                                    |
|---------------------------------------|------------------|-----------|---------------------|---------|---------------------------|---|--|
| Select a page                         | 🔄 Script 👻 📑 H   | lelp      |                     |         |                           |   |  |
| General                               |                  |           |                     |         |                           |   |  |
| Filegroups                            | Database name:   |           | ISEDB               |         |                           |   |  |
|                                       | Owner:           |           | <default></default> |         |                           | _ |  |
|                                       | _                |           | ,                   |         |                           |   |  |
|                                       | Use full-text in | ndexing   |                     |         |                           |   |  |
|                                       | Database files:  |           |                     |         |                           |   |  |
|                                       | Logical Name     | File Type | Filegroup           | Initial | Autogrowth                |   | Path                                     |
|                                       | ISEDB            | Rows Data | PRIMARY             | 2       | By 1 MB, unrestricted gro |   | C:\Program Files\Microsoft SQL Server\MS |
|                                       | ISEDB_log        | Log       | Not Appli           | 1       | By 10 percent, unrestrict |   | C:\Program Files\Microsoft SQL Server\MS |
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| Connection                            |                  |           |                     |         |                           |   |  |
| Server:                               |                  |           |                     |         |                           |   |  |
| localhost                             |                  |           |                     |         |                           |   |  |
| Connection:<br>BABALAND\administrator |                  |           |                     |         |                           |   |  |
|                                       |                  |           |                     |         |                           |   |  |
| view connection properties            |                  |           |                     |         |                           |   |  |
| Progress                              |                  |           |                     |         |                           |   |  |
| db. Beek                              |                  |           |                     |         |                           |   | <b>F</b>                                 |
| Ready                                 | <u> </u>         |           |                     |         |                           | _ |  |
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|                                       |                  |           |                     |         |                           |   |  |
|                                       |                  |           |                     |         |                           |   | OK Cancel                                |
|                                       |                  |           |                     |         |                           |   |  |

3. Cree un usuario y establezca permisos como se muestra en las imágenes siguientes:



| 🚪 Login - New                         |                            |                     |        |
|---------------------------------------|----------------------------|---------------------|--------|
| Select a page                         | <u>S</u> Script 👻 📑 Help   |                     |        |
| General                               |                            |                     | Conroh |
| User Mapping                          | Login name.                | ISEDBOSEF           | Search |
| Securables                            | O Windows authentication   |                     |        |
|                                       | SQL Server authentication  |                     |        |
|                                       | Password:                  | ••••                |        |
|                                       | Confirm password:          | •••••               |        |
|                                       | Specify old password       |                     |        |
|                                       | Old password:              |                     |        |
|                                       | Enforce password policy    | /                   |        |
|                                       | Enforce password expira    | ation               |        |
|                                       | 🗖 User must change pass    | word at next login  |        |
|                                       | O Mapped to certificate    |                     |        |
|                                       | O Mapped to asymmetric key | <b></b>             |        |
|                                       | Map to Credential          | <b></b>             | Add    |
| Connection                            | Mapped Credentials         | Credential Provider |        |
| Server:<br>localhost                  |                            |                     |        |
| Connection:<br>BABALAND\administrator |                            |                     |        |
| View connection properties            |                            |                     |        |
| Progress                              |                            |                     | Remove |
| Ready                                 | Default database:          | ISEDB               |        |
| The start of                          | Defeutilizzaria            | <default></default> |        |
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|                                       |                            | ОК                  | Cancel |
|                                       |                            |                     |        |

| Login Properties - ISEDBUse           | r                 |                            |           |                |
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| Server Koles                          | Users map         | ped to this login:         |           |                |
| Securables                            | Мар               | Database                   | User      | Default Schema |
| 🚰 Status                              |                   | ISEDB                      | ISEDBUser |                |
|                                       |                   | master                     |           |                |
|                                       |                   | model                      |           |                |
|                                       |                   | msdb                       |           |                |
|                                       |                   | tempdb                     |           |                |
|                                       |                   |                            |           |                |
|                                       |                   |                            |           |                |
|                                       |                   |                            |           |                |
|                                       |                   |                            |           |                |
|                                       |                   |                            |           |                |
|                                       |                   |                            |           |                |
|                                       | 🔲 Guest a         | account enabled for: ISEDB |           |                |
|                                       | Databases         | ula manhambia (an ICEDD    |           |                |
| -                                     | Database i        | ole membership for: ISEDB  |           |                |
| Connection                            | ✓ db_acc          | cessadmin<br>deupoportor   |           |                |
| Server:                               | db_dat            | areader                    |           |                |
| locarios                              | db_dat            | awriter                    |           |                |
| Connection:                           | db_dd             | admin                      |           |                |
| BABALAND (administrator               | db_der            | nydatareader               |           |                |
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| edd fan                               |                   |                            |           |                |
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|                                       |                   |                            |           | OK Cancel      |
|                                       |                   |                            |           | //.            |

# Paso 2. Configuración básica de ISE

Cree un origen de identidad ODBC en Administration > External Identity Source > ODBC y pruebe la conexión:

#### ODBC List > ISE\_ODBC

| ODBC Identity Source  | e<br>Connection      | Stored Procedures     | Attributes          | Groups        |
|-----------------------|----------------------|-----------------------|---------------------|---------------|
| ODBC DB connection de | etails               |                       |                     |               |
| * Hostname/IP[:port]  | bast-ad-ca.cisco.con | 1                     |                     |               |
| * Database name       | ISEDB                |                       |                     |               |
| Admin username        | ISEDBUser            | <i>i</i>              |                     |               |
| Admin password        | •••••                |                       |                     |               |
| * Timeout             | 5                    | Test connection       |                     | ×             |
| * Retries             | 1                    | Connection succeed    | ded                 | ^             |
| * Database type       | Microsoft SQL Serv   | Stored Procedures     |                     | I             |
|                       | Test Connection      | Plain text password   | authentication - No | t Configured  |
|                       |                      | Plain text password   | fetching - Not Conf | igured        |
|                       |                      | Check username or     | machine exists - N  | ot Configured |
|                       |                      | Fetch groups - Not (  | Configured          |               |
|                       |                      | Fetch attributes - No | ot Configured       |               |
|                       |                      |                       |                     | Close         |
|                       |                      |                       |                     |               |

## Paso 3. Configuración de la autenticación de usuario

La autenticación de ISE a ODBC utiliza procedimientos almacenados.El procedimiento almacenado para la autenticación devuelve **resultset** con esta sintaxis:

| Valor  | Тіро                  |
|--|-----------------------|
| Resultado                                    | Entero                |
| Grupo (sólo para compatibilidad con ACS 4.2) | Entero o varchar(255) |
| Información de la cuenta                     | varchar(255)          |
| Cadena de error                              | varchar(255)          |

Para ver otros procedimientos, consulte la <u>Guía de administración de Cisco Identity Services</u> Engine 2.1

**Consejo:** Es posible devolver los parámetros con nombre en lugar del conjunto de resultados. Es sólo un tipo diferente de salida, la funcionalidad es la misma.

1. Desplácese hasta las opciones y desmarque la casilla de verificación **Evitar guardar cambios que requieran la recreación de la tabla** (opcional):

| Options  | ? ×  |
|--|--|
| <ul> <li>Environment</li> <li>General</li> <li>Fonts and Colors</li> <li>Keyboard</li> <li>Help</li> <li>Text Editor</li> <li>Query Execution</li> <li>Query Results</li> <li>SQL Server Object Explorer</li> <li>Designers</li> <li>Table and Database Designers</li> <li>Maintenance Plans</li> <li>Analysis Services Designers</li> <li>Source Control</li> </ul> | Table Options         Image: Override connection string time-out value for table designer updates:         Transaction time-out after:         30       seconds         Auto generate change scripts         Warn on null primary keys         Warn about difference detection         Warn about tables affected         Prevent saving changes that require table re-creation         Diagram Options         Default table view:         Column Names         Image: Launch add table dialog on new diagram |
|  | OK Cancel  |

2. Cree la tabla. Asegúrese de establecer la configuración de identidad en la **clave primaria**. Para establecer **user\_id** como **clave principal**, haga clic con el botón derecho en el **nombre de columna:** 

|    | SQLQuery2.sqlistrator     | (52))* BAST-AD- | CA.ISdbo.ISE | _Users* |     |          |
|----|---------------------------|-----------------|--------------|---------|-----|----------|
|    | Column Name               | Data Type       | Allow Nulls  |         |     |          |
| ▶8 | user_id                   | int             |              |         |     |          |
|    | username                  | varchar(MAX)    |              |         |     |          |
|    | password                  | varchar(MAX)    |              |         |     |          |
|    |                           |                 |              |         |     |          |
|    |                           |                 |              |         |     |          |
|    |                           |                 |              |         |     |          |
|    |                           |                 |              |         |     |          |
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|    |                           |                 |              |         |     |          |
|    |                           |                 |              |         |     |          |
|    | 1                         |                 |              |         |     |          |
|    | olumn Properties          |                 |              |         |     |          |
|    | <b>.</b>                  |                 |              |         |     |          |
|    | ∃ Full-text Specification |                 |              |         | No  | <b>_</b> |
|    | Has Non-SQL Server Sub    | scriber         |              |         | No  |          |
|    | ∃ Identity Specification  |                 |              |         | Yes |          |
|    | (Is Identity)             |                 |              |         | Yes | -        |
|    | Identity Increment        |                 |              |         | 1   |          |
|    | Identity Seed             |                 |              |         | 1   |          |

### SQL final:

CREATE TABLE [dbo].[ISE\_Users]( [user\_id] [int] IDENTITY(1,1) NOT NULL, [username] [varchar](max) NOT NULL, [password] [varchar](max) NOT NULL, CONSTRAINT [PK\_ISE\_Users] PRIMARY KEY CLUSTERED

```
(
[user_id] ASC
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY = OFF, ALLOW_ROW_LOCKS =
ON, ALLOW_PAGE_LOCKS = ON) ON [PRIMARY]
) ON [PRIMARY]
```

3. Ejecute esta consulta para insertar un usuario:

insert into ISE\_Users(username,password) values('odbcuser1','odbcpass');

 Cree un procedimiento para la autenticación de contraseña de texto sin formato (utilizado para PAP, método interno EAP-GTC, TACACS):

```
CREATE PROCEDURE [dbo].[ISEAuthUserPlainReturnsRecordset]
@username varchar(255), @password varchar(255)
AS
BEGIN
IF EXISTS( SELECT username
FROM ISE_Users
WHERE username = @username
AND password = @password )
SELECT 0,11,'This is a very good user, give him all access','No Error'
FROM ISE_Users
WHERE username = @username
ELSE
SELECT 3,0,'odbc','ODBC Authen Error'
END
```

5. Cree un procedimiento para la búsqueda de contraseñas de texto sin formato (utilizado para CHAP, MSCHAPv1/v2, EAP-MD5, LEAP, EAP-MSCHAPv2, método interno, TACACS):

```
CREATE PROCEDURE [dbo].[ISEFetchPasswordReturnsRecordset]

@username varchar(255)

AS

BEGIN

IF EXISTS( SELECT username

FROM ISE_Users

WHERE username = @username)

SELECT 0,11, 'This is a very good user, give him all access', 'No Error', password

FROM ISE_Users

WHERE username = @username

ELSE

SELECT 3,0, 'odbc', 'ODBC Authen Error'

END
```

 Cree un procedimiento para verificar si existe un nombre de usuario o una máquina (utilizado para MAB, reconexión rápida de PEAP, EAP-FAST y EAP-TTLS): BEGIN IF EXISTS( SELECT username FROM ISE\_Users WHERE username = @username) SELECT 0,11,'This is a very good user, give him all access','No Error' FROM ISE\_Users WHERE username = @username ELSE SELECT 3,0,'odbc','ODBC Authen Error' END

#### 7. Procedimientos creados para la prueba:



| Series a page  Series  Series Ser  | 🐙 Execute Procedure - [dbo].[         | ISEAuthUserPlainR                             | eturnsRecordset          | ]                   |                    |             |
|--|---------------------------------------|---|--------------------------|---------------------|--------------------|-------------|
| Personal Pe  | Select a page                         | 🔄 Script 👻 📑 Hel                              | p                        |                     |                    |             |
| Parameter       Data Type       Output Planmeter       Pass Null Value       adouter1         @usename       varchar(25)       No <ul> <li>odbopase]</li> <li>edbopase]</li> </ul> @password       varchar(25)       No <ul> <li>odbopase]</li> <li>odbopase]</li> </ul> Sever:       coanted <ul> <li>odbopase]</li> <li>odbopase]</li> <li>Provertion:</li> <li>BABLARN/Dudmitstor</li> <li>SQUeeryScall</li></ul>   | 🚰 General                             |   |                          |                     |                    |             |
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| localhost<br>Connection:<br>BABALAND'administrator   | Server:                               |   |                          |                     |                    |             |
| Connection:<br>BABALAND'administrator<br>BABALAND'administrator<br>Progress<br>Progress<br>Progress<br>Progress<br>Progress<br>Progress<br>Progress<br>Progress<br>Progress<br>Progress<br>Progress<br>Progress<br>Progress<br>Progress<br>Progress<br>Progress<br>Progress<br>Progress<br>Progress<br>Progress<br>Progress<br>Progress<br>Progress<br>Progress<br>Progress<br>Progress<br>Progress<br>Progress<br>Progress<br>Progress<br>Progress  | localhost                             |   |                          |                     |                    |             |
| Image: State of the commanded of the comman  | Connection:<br>BABALAND\administrator |   |                          |                     |                    |             |
| Progress Progress Ready OK Cancel OK Cancel OK Cancel OK Cancel OK Cancel DSE [ISEDB] GO DECLARE @return_value int EXEC @return_value int EXEC @return_value = [dbo][ISEAuthUserPlainReturnsRecordset] @username = N'odbouser1', @password = N'odbouser1', @password = N'odbouser1', @gassword = N'odbouser1',   | View connection properties            |   |                          |                     |                    |             |
| Progress   |                                       |   |                          |                     |                    |             |
| OK       Cancel         OK       Cancel         OQQuery5.sqlinistrator (57))       BAST-AD-CA.ISdoo.ISE_Users       SQLQuery2.sqlistrator (52))*       BAST-AD-CA.ISdoo.ISE_Users          DSE [ISEDB]       GO       O       DECLARE       @return_value int           EXEC       @return_value = [dbo][ISEAuthUserPlainReturnsRecordset]       @username = N'odbcuser!',       @password = N'odbcuses!',       @password = N'odbcuses!',          SELECT       'Return Value' = @return_value       GO            IResults   | Progress                              |   |                          |                     |                    |             |
| OK       Cancel         SQLQuery5.sqlinistrator (57))       BAST-AD-CA.ISdoo.ISE_Users       SQLQuery2.sqlistrator (52))*       BAST-AD-CA.ISdoo.ISE_Users         DECLARE       @return_value       int         EXEC       @return_value = [dbo]. [ISEAuthUserPlainReturnsRecordset]         @username = N'odbcusser1',       @password = N'odbcusser1',         @gassword = N'odbcusser1',       @password = @return_value         GO  | Ready                                 |   |                          |                     |                    |             |
| OK       Cancel         SQLQuery5.sqlinistrator (57))       BAST-AD-CA.ISdbo.ISE_Users       SQLQuery2.sqlistrator (52))*       BAST-AD-CA.ISdbo.ISE_Users       Image: SQLQuery2.sqlistrator (52))*       SQLQuery2.sql  | No. of                                |   |                          |                     |                    |             |
| OK       Cancel         GQUQuery5.sqlinistrator (57))       BAST-AD-CA.ISdbo.ISE_Users       \$QUQuery2.sqlistrator (52))*       BAST-AD-CA.ISdbo.ISE_Users         GO       DECLARE @return_value int         EXEC       @return_value = [dbol.,[ISEAuthUserPlainReturnsRecordset]         @username = N'odbcuser1',       @password = N'odbcuser1',         @password = N'odbcuser1',       @password = @return_value         GO   |                                       | 1   |                          |                     |                    |             |
| SQLQuery5.sqlinistrator (57)) BAST-AD-CA.ISdbo.ISE_Users SQLQuery2.sqlistrator (52))* BAST-AD-CA.ISdbo.ISE_Users   USE [ISEDB]   GO   DECLARE @return_value int EXEC @return_value = [dbo][ISEAuthUserPlainReturnsRecordset] @username = N'odbcuser1', @password = N'odbcuser1', @password = N'odbcusers' SELECT 'Return Value' = @return_value GO I Results Messages (No column name)  |                                       |   |                          |                     | OK                 | Cancel      |
| SQLQuery5.sqlinistrator (57)) BAST-AD-CA.ISdbo.ISE_Users SQLQuery2.sqlistrator (52))* BAST-AD-CA.ISdbo.ISE_Users   USE [ISEDB]   GO     DECLARE @return_value   [Messages]     Messages     (No column name)   (No column name)   (No column name)   (No column name)   (No column name) (No column name) (No column name) (No column name) (No column name) No Error  |                                       |   |                          |                     |                    |             |
| USE [ISEDB]<br>GO<br>DECLARE @return_value int<br>EXEC @return_value = [dbo].[ISEAuthUserPlainReturnsRecordset]<br>@username = N'odbcuser1',<br>@password = N'odbcpass'<br>SELECT 'Return Value' = @return_value<br>GO<br>Results D_Messages<br>(No column name) (No column name) (No column name)<br>0 11 This is a very good user, give him all access No Error  | SQLQuery5.sqlinistrator (57)) B/      | AST-AD-CA.ISdbo.ISE_U                         | Isers SQLQuery2.sc       | ılistrator (52))* B | AST-AD-CA.ISdbo.IS | E_Users 🗸 👻 |
| <pre>DECLARE @return_value int EXEC @return_value = [dbo][ISEAuthUserPlainReturnsRecordset] @username = N'odbcuser1', @password = N'odbcpass' SELECT 'Return Value' = @return_value GO Results Messages (No column name) (No column name) (No column name) 0 11 This is a very good user, give him all access No Error</pre>   | USE [ISEDB]<br>GO                     |   |                          |                     |                    |             |
| <pre>DECLARE @return_value int EXEC @return_value = [dbo][ISEAuthUserPlainReturnsRecordset] @username = N'odbcuser1', @password = N'odbcpass' SELECT 'Return Value' = @return_value GO GO Results Messages (No column name) (No column name) (No column name) 0 11 This is a very good user, give him all access No Error</pre>  |                                       |   |                          |                     |                    |             |
| EXEC       @return_value = [dbol. [ISEAuthUserPlainReturnsRecordset]         @username = N'odbcuser1',       @password = N'odbcpass'         SELECT       'Return Value' = @return_value         GO  | DECLARE Greturn_value in              | τ   |                          |                     |                    |             |
| Go     SELECT 'Return Value' = @return_value     GO     Results     Messages     (No column name)     (No column name)     (No column name)     (No column name)     No Error  | EXEC @return_value =                  | [dbo].[ISEAuthUs                              | erPlainReturnsH          | Recordset]          |                    |             |
| SELECT 'Return Value' = @return_value         GO         Results       Messages         (No column name)       (No column name)         (No column name)       (No column name)         0       11         This is a very good user, give him all access       No Error  | - @password = N'od                    | bcpass'                                       |                          |                     |                    |             |
| GO GO GO Results Messages No column name) (No column name) (No column name) 0 11 This is a very good user, give him all access No Error  | SELECT 'Return Value' =               | @return value                                 |                          |                     |                    |             |
| I Results       Messages         (No column name)       (No column name)         0       11         This is a very good user, give him all access       No Error   |                                       | _   |                          |                     |                    |             |
| Results       Image: Messages         (No column name)       (No column name)         (No column name)       (No column name)         0       11         This is a very good user, give him all access       No Error  | 60                                    |   |                          |                     |                    |             |
| Results       Messages         (No column name)       (No column name)         0       11         This is a very good user, give him all access       No Error   |                                       |   |                          |                     |                    |             |
| Results       Messages         (No column name)       (No column name)       (No column name)         0       11       This is a very good user, give him all access       No Error  |                                       |   |                          |                     |                    |             |
| (No column name)       (No column name)       (No column name)         0       11       This is a very good user, give him all access       No Error   | Results Messages                      |   |                          |                     |                    |             |
|  | (No column name) (No column nam       | e) (No column name)<br>This is a very cood ur | ser, give him all access | (No column name)    |                    |             |
|  |                                       | This is a very good us                        | sor, give him all access |                     |                    |             |
|  |                                       |   |                          |                     |                    |             |

Pruebe otros procedimientos de la misma manera.

8. Configure los procedimientos en ISE y guarde:

| OD | BC List > <b>ISE_OD</b> | BC                  |                             |            |          |        |
|----|-------------------------|---------------------|-----------------------------|------------|----------|--------|
| OD | BC Identity S           | ource               |                             |            |          |        |
|    | General                 | Connection          | Stored Procedures           | Attributes | C        | Groups |
|    |                         |                     |                             |            |          |        |
|    | Sto                     | red procedure type  | Returns recordset           | -          |          |        |
|    | Plain text passv        | word authentication | ISEAuthUserPlainReturnsReco | ordset     | $\oplus$ |        |
|    | Plain text              | password fetching   | ISEFetchPasswordReturnsRec  | ordset     | $\oplus$ |        |
|    | Check username          | e or machine exists | ISEUserLookupReturnsRecord  | lset       | $\oplus$ |        |
|    |                         | Fetch groups        |                             | (i)        | $\oplus$ |        |
|    |                         | Fetch attributes    |                             | <i>i</i>   | $\oplus$ |        |
|    | Search for MA           | C Address in format | xx-xx-xx-xx-xx              | • ()       |          |        |
|    |                         |                     |                             |            |          |        |
|    |                         |                     |                             |            |          |        |
|    |                         |                     |                             |            |          |        |

9. Cree una regla de autenticación simple utilizando ODBC y pruebe:

| Ŧ | Auth | nent     | ication Policy        |      |   |  |     |          |
|---|------|----------|-----------------------|------|---|--|-----|----------|
|   |      | ~        | MAB Default           | : If | Wired_MAB <b>OR</b><br>Wireless_MAB<br>use Internal Endpoints       | Allow Protocols : Default Network Access | and | Edit   🕶 |
|   |      | <b>~</b> | Dot1X                 | : If | Wired_802.1X <b>OR</b><br>Wireless_802.1X<br>use All_User_ID_Stores | Allow Protocols : Default Network Access | and | Edit   🔻 |
|   | ø    | ~        | test_aaa<br>✔ Default | : If | Radius:Service-Type EQUALS Login<br>use ISE_ODBC                    | Allow Protocols : Default Network Access | and | Edit   🕶 |

b3560#test aaa group ISE236 odbcuser1 odbcpass legacy Attempting authentication test to server-group ISE236 using radius User was successfully authenticated.

| Event  | 5200 Authentication succeeded  |  |
|--|--|--|
| Jsername   | odbcuser1  |  |
| Endpoint Id  |  |  |
| Endpoint Profile   |  |  |
| Authentication Policy  | Default >> test_aaa >> Default   |  |
| Authorization Policy   | Default >> Default   |  |
|  |  |  |
| Authorization Result   | PermitAccess   |  |
| Authorization Result   | PermitAccess   |  |
| Authorization Result Ithentication Details Source Timestamp  | PermitAccess   |  |
| Authorization Result thentication Details Source Timestamp Received Timestamp                        | PermitAccess<br>2016-06-08 11:04:07.004<br>2016-06-08 11:04:07.005                                 |  |
| Authorization Result Ithentication Details Source Timestamp Received Timestamp Policy Server         | PermitAccess<br>2016-06-08 11:04:07.004<br>2016-06-08 11:04:07.005<br>bise236                      |  |
| Authorization Result  Authorization Details  Source Timestamp Received Timestamp Policy Server Event | PermitAccess 2016-06-08 11:04:07.004 2016-06-08 11:04:07.005 bise236 5200 Authentication succeeded |  |

| 11001 | Received RADIUS Access-Request   |
|-------|--|
| 11017 | RADIUS created a new session   |
| 11117 | Generated a new session ID for a 3rd party NAD   |
| 15049 | Evaluating Policy Group  |
| 15008 | Evaluating Service Selection Policy  |
| 15048 | Queried PIP - Radius.NAS-Port-Type   |
| 15048 | Queried PIP - Normalised Radius.RadiusFlowType (4 times)   |
| 15048 | Queried PIP - Radius.Service-Type  |
| 15004 | Matched rule - test_aaa  |
| 15041 | Evaluating Identity Policy   |
| 15006 | Matched Default Rule   |
| 15013 | Selected Identity Source - ISE_ODBC  |
| 24852 | Perform plain text password authentication in external ODBC database - $\ensuremath{ISE}\xspace_{ODBC}$            |
| 24849 | Connecting to external ODBC database - ISE_ODBC  |
| 24850 | Successfully connected to external ODBC database - ISE_ODBC  |
| 24855 | Expect external ODBC database stored procedure to return results in a recordset - $\ensuremath{ISE}\xspace_{ODBC}$ |
| 22037 | Authentication Passed  |
| 15036 | Evaluating Authorization Policy  |
| 15048 | Queried PIP - Radius.User-Name   |
| 15048 | Queried PIP - Network Access.UseCase   |
| 15048 | Queried PIP - Normalised Radius.RadiusFlowType (5 times)   |
| 15004 | Matched rule - Default   |

Steps

## Paso 4. Configurar recuperación de grupo

1. Cree tablas que contengan grupos de usuarios y otra que se utilice para la asignación de varios a varios:

```
CREATE TABLE [dbo].[Groups](
[Group_ID] [int] IDENTITY(1,1) NOT NULL,
[Group_Name] [varchar] (max) NOT NULL,
[Group_Desc] [text] NOT NULL,
CONSTRAINT [PK_Groups] PRIMARY KEY CLUSTERED
(
[Group_ID] ASC
)WITH (PAD_INDEX = OFF, STATISTICS_NORECOMPUTE = OFF, IGNORE_DUP_KEY = OFF, ALLOW_ROW_LOCKS =
ON, ALLOW_PAGE_LOCKS = ON) ON [PRIMARY]
) ON [PRIMARY] TEXTIMAGE_ON [PRIMAR
CREATE TABLE [dbo].[User_Groups_Mapping](
[user_id] [int] NOT NULL,
[group_id] [int] NOT NULL
) ON [PRIMARY]
ALTER TABLE dbo.User_Groups_Mapping ADD CONSTRAINT
FK_User_Groups_Mapping_Groups FOREIGN KEY
(
group_id
) REFERENCES dbo.Groups
(
Group_ID
) ON UPDATE CASCADE
ON DELETE CASCADE
GO
ALTER TABLE dbo.User_Groups_Mapping ADD CONSTRAINT
FK_User_Groups_Mapping_ISE_Users FOREIGN KEY
(
```

user\_id
) REFERENCES dbo.ISE\_Users
(
user\_id
) ON UPDATE CASCADE
ON DELETE CASCADE

#### 2. Agregue grupos y asignaciones para que ODBCUSER1 pertenezca a ambos grupos:

```
INSERT [dbo].[Groups] ([Group_ID], [Group_Name], [Group_Desc]) VALUES (1, N'ODBCGroup1', N'My
Nice Group1')
INSERT [dbo].[User_Groups_Mapping] ([user_id], [group_id]) VALUES (1, 1)
INSERT [dbo].[Groups] ([Group_ID], [Group_Name], [Group_Desc]) VALUES (2, N'ODBCGroup2', N'My
Nice Group2')
INSERT [dbo].[User_Groups_Mapping] ([user_id], [group_id]) VALUES (1, 2)
```

#### 3. Crear procedimiento de recuperación de grupo:

```
CREATE PROCEDURE [dbo].[ISEGroupsRetrieval]
@username varchar(255), @result int output
AS
BEGIN
if exists (select * from ISE_Users where username = @username)
begin
set @result = 0
select Group_Name from Groups where group_id in (select group_ID from User_Groups_Mapping where
User_Groups_Mapping.USER_ID IN (select USER_ID from ISE_Users where username=@username ) )
end
else
set @result = 1
END
```

#### 4. Mapearlo para Buscar grupos:

#### ODBC List > ISE\_ODBC

#### **ODBC Identity Source**

| Gene     | ral Connection               | Stored Procedures          | Attributes | Groups   |
|----------|------------------------------|----------------------------|------------|----------|
|          |                              |                            |            |          |
|          | Stored procedure type        | Returns recordset          | Ψ          |          |
| Plain te | ext password authentication  | ISEAuthUserPlainReturnsRec | cordset    | $\oplus$ |
| F        | Plain text password fetching | ISEFetchPasswordReturnsRe  | cordset    | $\oplus$ |
| Check u  | sername or machine exists    | ISEUserLookupReturnsRecor  | rdset      | $\oplus$ |
|          | Fetch groups                 | ISEGroupsRetrieval         | (i)        | Ð        |
|          | Fetch attributes             | ISEAttrsRetrieval          | (i)        | $\oplus$ |
| Searc    | n for MAC Address in format  | xx-xx-xx-xx-xx             | • ()       |          |

5. Obtenga los grupos y agréguelos al origen de identidad ODBC:

| ODBC List > <b>ISE_ODBC</b> |                       |                   |                     |        |
|-----------------------------|-----------------------|-------------------|---------------------|--------|
| <b>ODBC Identity Source</b> |                       |                   |                     |        |
| General Connecti            | ion Stored Procedures | Attributes Groups |                     |        |
| / Edit 🕂 Add 👻 🗙 Delete     |                       |                   |                     |        |
| Name                        | Name in ISE           |                   |                     |        |
|                             |                       | No data available |                     |        |
|                             |                       |                   |                     |        |
|                             |                       |                   |                     |        |
|                             |                       |                   |                     |        |
|                             | Select Groups from    | DDBC              |                     | х      |
|                             | Sample User or Machir | odbcuser1         | (i) Retrieve Groups |        |
|                             | Name                  | Name in ISE       |                     |        |
|                             | ✓ ODBCGroup1          | ODBCGroup1        |                     |        |
|                             | ✓ ODBCGroup2          | ODBCGroup2        |                     |        |
|                             |                       |                   |                     |        |
|                             |                       |                   |                     |        |
|                             |                       |                   |                     |        |
|                             |                       |                   |                     |        |
|                             |                       |                   |                     |        |
|                             |                       |                   | OK                  | Cancol |
|                             |                       |                   | UK                  | Cancel |

6. Agregue otro usuario que no pertenezca a ningún grupo:

insert into ISE\_Users(username,password) values('odbcuser2','odbcpass');
7. Crear un conjunto de políticas y una prueba específica:

| Policy Sets Profiling Posture Client Provi          | visioning   |          |
|---|---|----------|
| Policy Sets Search policy names & descriptions.     | Define the Policy Sets by configuring rules based on conditions. Drag and drop sets on the left hand side to change the order.<br>For Policy Export go to Administration > System > Backup & Restore > Policy Export Page |          |
| + - Pa-   ↑ ↓   X   @                               | Status Name Description Conditions  | Edit     |
| Summary of Policies                                 | IestAAA Radius:Service-Type EQUALS Login  | Luit     |
| A list of all your policies                         | Authentication Policy   |          |
| Global Exceptions<br>Rules across entire deployment | Default Rule (If no match) : Allow Protocols : Default Network Access and use : ISE_ODBC  | Edit   🕶 |
| Z TestAAA   |   |          |
| 🛛 🗹 VPN   | Authorization Policy  |          |
| Default   | Exceptions (0)  |          |
| Default Policy Set                                  | Standard  |          |
| Save Order Reset Order                              |   |          |
| Save Order  | Status         Rule Name         Conditions (identity groups and other conditions)         Permissions  |          |
|   | Group1Access if ISE_ODBC:ExternalGroups EQUALS then PermitAccess ODBCGroup1   | Edit   🕶 |
|   | Default if no matches, then DenyAccess  | Edit   🕶 |
|   |   |          |

b3560#test aaa group ISE236 odbcuser2 odbcpass legacy Attempting authentication test to server-group ISE236 using radius User authentication request was rejected by server.

b3560#test aaa group ISE236 odbcuser1 odbcpass legacy Attempting authentication test to server-group ISE236 using radius User was successfully authenticated.

| AuthorizationPolicyMatchedRule | Group1Access  |
|--------------------------------|---|
| CPMSessionID                   | 0a3027eci0HeVTM3/bn5vLXkWMcJ0em5rzUDaOSnbMmAvL7jcfY |
| ISEPolicySetName               | TestAAA   |
| AllowedProtocolMatchedRule     | Default   |
| IdentitySelectionMatchedRule   | Default   |
| Network Device Profile         | Cisco   |
| Location                       | Location#All Locations                              |
| Device Type                    | Device Type#All Device Types                        |
| ExternalGroups                 | ODBCGroup1  |
| ExternalGroups                 | ODBCGroup2  |
| RADIUS Username                | odbcuser1   |

## Paso 5. Configurar recuperación de atributos

1. Para simplificar este ejemplo, se utiliza una tabla plana para los atributos:

```
CREATE TABLE [dbo].[User_Attributes](
[user_id] [int] NOT NULL,
[Attribute_Name] [varchar](max) NOT NULL,
[Attribute_Value] [varchar](max) NOT NULL
) ON [PRIMARY]
GO
ALTER TABLE [dbo].[User_Attributes] WITH CHECK ADD CONSTRAINT [FK_User_Attributes_ISE_Users]
FOREIGN KEY([user_id])
REFERENCES [dbo].[ISE_Users] ([user_id])
ON UPDATE CASCADE
ON DELETE CASCADE
GO
```

#### 2. Cree un atributo para uno de los usuarios:

INSERT [dbo].[User\_Attributes] ([user\_id], [Attribute\_Name], [Attribute\_Value]) VALUES (2, N'AwsomenessLevel', N'100') INSERT [dbo].[User\_Attributes] ([user\_id], [Attribute\_Name], [Attribute\_Value]) VALUES (2, N'UserType', N'admin')

#### 3. Crear procedimiento almacenado:

CREATE PROCEDURE [dbo].[ISEAttrsRetrieval] @username varchar(255), @result int output AS BEGIN if exists (select \* from ISE\_Users where username = @username) begin

```
set @result = 0
select attribute_name , attribute_value from user_attributes where USER_ID in(SELECT USER_ID
from ISE_Users where username = @username)
end
else
set @result = 1
END
```

4. Asignarlo a Obtener atributos:

#### ODBC List > ISE\_ODBC

#### **ODBC Identity Source**

| General       | Connection            | Stored Procedures          | Attributes | Groups   |
|---------------|-----------------------|----------------------------|------------|----------|
|               |                       |                            |            |          |
| S             | Stored procedure type | Returns recordset          | *          |          |
| Plain text pa | ssword authentication | ISEAuthUserPlainReturnsRec | cordset    | $\oplus$ |
| Plain t       | ext password fetching | ISEFetchPasswordReturnsRe  | cordset    | $\oplus$ |
| Check userna  | me or machine exists  | ISEUserLookupReturnsRecor  | dset       | $\oplus$ |
|               |                       |                            |            |          |
|               | Fetch groups          | ISEGroupsRetrieval         | <i>i</i>   | Ð        |
|               | Fetch attributes      | ISEAttrsRetrieval          | i          | $\oplus$ |
| Search for I  | MAC Address in format | xx-xx-xx-xx-xx             | • (j)      |          |

#### 5. Obtenga los atributos:

| Se | Select Attributes from ODBC |     |         |   |               |           |                 |  |  |
|----|-----------------------------|-----|---------|---|---------------|-----------|-----------------|--|--|
| Sa | mple User or Machine        | odb | ocuser2 |   |               | i) Retrie | eve Attributes  |  |  |
|    | Name                        |     | Туре    | • | Default Value |           | Name in ISE     |  |  |
|    | AwsomenessLevel             |     | STRING  |   | 100           |           | AwsomenessLevel |  |  |
|    | UserType                    |     | STRING  |   | admin         |           | UserType        |  |  |



#### 6. Ajuste de las reglas de ISE:

|         | Status<br>🔽 G | Rule Name<br>Group1Access | if            | Conditions (<br>ISE_ODBC:I<br>ODBCGroup | identity grou<br>ExternalGrou<br>1 | ps and other conditions<br>ups EQUALS | )<br>then | Permissions<br>PermitAcces | ŝS             |                |                        | Edit   ▼  |          |
|---------|---------------|---------------------------|---------------|---|------------------------------------|---------------------------------------|-----------|----------------------------|----------------|----------------|------------------------|-----------|----------|
|         | A             | wesomeUser                |               | ISE_ODBC:                               | Awsomenes                          | sLevel EQUALS 100                     |           | PermitAcces                | s              |                |                        | Edit   🔻  |          |
|         | 🛃 D           | Default                   | if no         | o matches, th                           | en Deny                            | Access                                |           |                            |                |                |                        | Edit   🔻  |          |
|         |               |                           |               |   |                                    |                                       |           |                            |                |                |                        |           |          |
| C Refre | esh O         | Reset Repeat Counts       | 💆 Export To 🗸 |   |                                    |                                       |           |                            |                |                |                        | Ŧ         | Filter - |
| Т       | īme           |                           | Status        | Details                                 | Repeat                             | Identity                              | Endpoint  | ID                         | Endpoint Pr    | Authenticat    | Authorization Policy   | Authoriza | atio     |
| ×       |               |                           | \$            |   |                                    | Identity                              | Endpoint  | ID                         | Endpoint Profi | Authentication | Authorization Policy   | Authoriza | ation    |
| J       | un 08, 201    | 16 12:21:45.596 PM        |               | ò                                       |                                    | odbcuser2                             |           |                            |                | TestAAA >>     | TestAAA >> AwesomeUser | PermitAcc | ess      |

# Troubleshoot

Si la conexión no se realiza correctamente, verifique el registro de eventos de windows. En ISE use el comando **show logging application prrt-management.log tail** mientras intenta conectarse.

Ejemplo de modo de autenticación incorrecto:

```
bise236/admin# sh logg app prrt-management.log tail
2016-06-08 09:03:59,822 WARN [admin-http-pool177][]
cisco.cpm.odbcidstore.impl.MSSQLServerDbAccess -: bastien::- Connection to ODBC DB failed.
Exception: com.microsoft.sqlserver.jdbc.S
QLServerException: Login failed for user 'babaland\administrator'. ClientConnectionId:c74ade15-
4f34-415a-9a94-4c54c58c0fc3
com.microsoft.sqlserver.jdbc.SQLServerException: Login failed for user 'babaland\administrator'.
ClientConnectionId:c74ade15-4f34-415a-9a94-4c54c58c0fc3
at
com.microsoft.sqlserver.jdbc.SQLServerException.makeFromDatabaseError(SQLServerException.java:21
6)
at com.microsoft.sqlserver.jdbc.TDSTokenHandler.onEOF(tdsparser.java:254)
at com.microsoft.sqlserver.jdbc.TDSParser.parse(tdsparser.java:84)
at com.microsoft.sqlserver.jdbc.SQLServerConnection.sendLogon(SQLServerConnection.java:2908)
at com.microsoft.sqlserver.jdbc.SQLServerConnection.logon(SQLServerConnection.java:2234)
at com.microsoft.sqlserver.jdbc.SQLServerConnection.access$000(SQLServerConnection.java:41)
at
com.microsoft.sqlserver.jdbc.SQLServerConnection$LogonCommand.doExecute(SQLServerConnection.java
:2220)
at com.microsoft.sqlserver.jdbc.TDSCommand.execute(IOBuffer.java:5696)
at
com.microsoft.sqlserver.jdbc.SQLServerConnection.executeCommand(SQLServerConnection.java:1715)
at com.microsoft.sqlserver.jdbc.SQLServerConnection.connectHelper(SQLServerConnection.java:1326)
```

| 🛃 Event Viewer                       |                        |   |  |                                |                |   |
|--------------------------------------|------------------------|---|--|--------------------------------|----------------|---|
| File Action View Help                |                        |   |  |                                |                |   |
| 🗢 🔿   🖄 🔜 🔽 🗊                        |                        |   |  |                                |                |   |
| Event Viewer (Local)                 | Application Number of  | fevents: 29,048 (!) New events available    |  |                                |                |   |
| 🗄 📑 Custom Views                     | Invel                  | Data and Time                               | Generation                               | Event ID                       | Taal. Catagons |   |
| Windows Logs                         | Level                  | Date and time                               | Source                                   | Event ID                       | Task Category  |   |
| Application                          |                        | 6/8/2016 11:08:07 AM                        | MSSQLSERVER                              | 33090                          | Server         |   |
| E Security                           | Teferretien            | 6/8/2016 11:03:38 AM                        | MSSQLSERVER                              | 10456                          | Logon          | · |
| Setup                                | Information            | 6/8/2016 11:03:39 AM                        | MSSQLSERVER                              | 10400                          | Cogon          |   |
| Enrworded Events                     | Tafamatian             | 6/6/2016 11:02:23 AM                        | MSSQLSERVER                              | 5084                           | Server         |   |
|                                      | Information            | 6/8/2016 11:02:23 AM                        | MSSQLSERVER                              | 5004                           | Server         |   |
| Active Directory Web Services        | Information            | 6/6/2016 11:02:23 AM                        | MSSQLSERVER                              | 5084                           | Server         |   |
| DFS Replication                      | Information            | 6/8/2016 11:02:23 AM                        | MSSQLSERVER                              | 5084                           | Server         |   |
| Directory Service                    | Information            | 6/6/2016 11:02:23 AM                        | MISSQUEERVER                             | 5004                           | Server         |   |
| DNS Server                           | Information            | 6/8/2016 11:02:23 AM                        | MSSQLSERVER                              | 5084                           | Server         |   |
| Hardware Events                      | Information            | 6/0/2016 11:02:23 AM                        | MISSQUEERVER                             | 5004                           | Server         |   |
| 👔 Internet Explorer                  | Information            | 6/8/2016 11:02:23 AM                        | MSSQLSERVER                              | 5084                           | Server         |   |
| 🛃 Key Management Service             | Information            | 6/8/2016 11:02:22 AM                        | MISSQUEERVER                             | 5004                           | Server         |   |
| 🖃 🚞 Microsoft                        | Information            | 6/0/2016 11:02:22 AM                        | MSSQLSERVER                              | 5004                           | Server         |   |
| Windows                              | Information            | 6/8/2016 11:02:23 AM                        | MISSOLISERVER                            | 5084                           | Server         |   |
| API-Tracing                          | Information            | 6/9/2016 11:02:22 AM                        | MSSQLSERVER                              | 5004                           | Server         |   |
| 🕀 🔜 AppID                            | Information            | 6/8/2016 11:02:23 AM                        | MSSQLSERVER                              | 5084                           | Server         |   |
| Application Server-Applications      | Information            | 6/8/2016 11:02:23 AM                        | MSSQLSERVER                              | 5004                           | Server         |   |
| Application-experience               | Information            | 6/8/2016 11:02:23 AM                        | MSSQLSELVER<br>MSSQLSEDVED               | 5084                           | Server         |   |
| Audio                                | Information            | 6/8/2016 11:02:23 AM                        | MSSQLSERVER                              | 5084                           | Server         |   |
| Authentication User Interface        | Information            | 6/8/2016 11:02:23 AM                        | MSSQLSERVER<br>MSSQLSERVER               | 5084                           | Server         |   |
| Bits-Client                          | Information            | 6/8/2016 11:02:23 AM                        | MSSQLSERVER                              | 5084                           | Server         |   |
| E CAPI2                              | Information            | 6/8/2016 11:02:23 AM                        | MSSQLSERVER                              | 5084                           | Server         |   |
| 🗉 🧮 CertificateServicesClient-Creden | Information            | 6/8/2016 11:02:23 AM                        | MSSQLSERVER                              | 5084                           | Server         |   |
| 🕀 🚞 CertPolEng                       | Information            | 6/8/2016 11:02:23 AM                        | MSSQLSELVER                              | 5084                           | Server         | - |
| 🕀 🧮 CodeIntegrity                    | Event 19456 MICOLICE   | N/EP  |  |                                |                | ~ |
| CorruptedFileRecovery-Client         | EVent 10430, MISSQLSER | WER   |  |                                |                |   |
| E CorruptedFileRecovery-Server       | General Details        |   |  |                                |                |   |
| DateTimeControlPanel                 |                        |   |  |                                |                | 1 |
| DeviceSync                           | Login failed for use   | r 'hahaland'administrator' Reason: An attem | nt to login using SQL authentication f   | ailed Server is configured for | Windows        | - |
| 🕀 🛄 Dhcp-Client                      | authentication only    | CLIENT: 10.48.39.2361                       | perto login using side authentication is | anea, server is configured for | Windows        |   |
| Dhcp-Nap-Enforcement-Client          |                        | [celetti 2040150250]                        |  |                                |                |   |
| I+I IIII DHCP-Server                 |                        |   |  |                                |                |   |

#### Ejemplo de permisos de usuario que faltan para abrir la base de datos:

```
2016-06-08 09:13:57,842 WARN [admin-http-pool159][]
cisco.cpm.odbcidstore.impl.MSSQLServerDbAccess -:bastien::- Connection to ODBC DB failed.
Exception: com.microsoft.sqlserver.jdbc.SQLServerException: Cannot open database "ISEDB"
requested by the login. The login failed. ClientConnectionId:299c2956-6946-4282-b3ca-
2aa86642a821
com.microsoft.sqlserver.jdbc.SQLServerException: Cannot open database "ISEDB" requested by the
login. The login failed. ClientConnectionId:299c2956-6946-4282-b3ca-2aa86642a821
at
com.microsoft.sqlserver.jdbc.SQLServerException.makeFromDatabaseError(SQLServerException.java:21
6)
at com.microsoft.sqlserver.jdbc.TDSTokenHandler.onEOF(tdsparser.java:254)
at com.microsoft.sqlserver.jdbc.SQLServerConnection.sendLogon(SQLServerConnection.java:2908)
at com.microsoft.sqlserver.jdbc.SQLServerConnection.logon(SQLServerConnection.java:2234)
```

at com.microsoft.sqlserver.jdbc.SQLServerConnection.access\$000(SQLServerConnection.java:41)

| 🛃 Event Viewer                       |                                 |   |  |                        |     |
|--------------------------------------|---------------------------------|---|--|------------------------|-----|
| File Action View Help                |                                 |   |  |                        |     |
| 🗢 🔿 🙋 🗔 🔽 🖬                          |                                 |   |  |                        |     |
| 🛃 Event Viewer (Local)               | Application Number of           | events: 29,048 (!) New events available     |  |                        | Ac  |
| 🗉 🚔 Custom Views                     |                                 |   |  |                        |     |
| 🖃 🚉 Windows Logs                     | Level                           | Date and Time                               | Source                                 | Event ID Task Category |     |
| Application                          | Information                     | 6/8/2016 11:13:56 AM                        | MSSQLSERVER                            | 18456 Logon            |     |
| E Security                           | 1 Information                   | 6/8/2016 11:13:21 AM                        | MSSQLSERVER                            | 3408 Server            |     |
| Setup                                | Information                     | 6/8/2016 11:13:21 AM                        | MSSQLSERVER                            | 9688 Server            |     |
| System                               | (1) Information                 | 6/8/2016 11:13:21 AM                        | MSSQLSERVER                            | 9666 Server            |     |
| Forwarded Events                     | (1) Information                 | 6/8/2016 11:13:21 AM                        | MSSQLSERVER                            | 9666 Server            |     |
| Applications and Services Logs       | (1) Information                 | 6/8/2016 11:13:21 AM                        | MSSQLSERVER                            | 17137 Server           | _   |
| Active Directory Web Services        | (1) Information                 | 6/8/2016 11:13:21 AM                        | MSSQLSERVER                            | 17126 Server           | T T |
| DFS Replication                      | (i) Information                 | 6/8/2016 11:13:21 AM                        | MSSQLSERVER                            | 26059 Server           |     |
| Directory Service                    | (i) Information                 | 6/8/2016 11:13:21 AM                        | MSSQLSERVER                            | 26059 Server           | - M |
| Division Server                      | (i) Information                 | 6/8/2016 11:13:21 AM                        | MSSQLSERVER                            | 17201 Server           |     |
| Tatornat Evelorar                    | <ol> <li>Information</li> </ol> | 6/8/2016 11:13:21 AM                        | MSSQLSERVER                            | 26022 Server           |     |
| Kov Management Service               | <ol> <li>Information</li> </ol> | 6/8/2016 11:13:21 AM                        | MSSQLSERVER                            | 26022 Server           |     |
|                                      | <ol> <li>Information</li> </ol> | 6/8/2016 11:13:21 AM                        | MSSQLSERVER                            | 26048 Server           |     |
|                                      | <ol> <li>Information</li> </ol> | 6/8/2016 11:13:21 AM                        | MSSQLSERVER                            | 26048 Server           |     |
| T API-Tracing                        | <ol> <li>Information</li> </ol> | 6/8/2016 11:13:21 AM                        | MSSQLSERVER                            | 26022 Server           |     |
|                                      | <ol> <li>Information</li> </ol> | 6/8/2016 11:13:21 AM                        | MSSQLSERVER                            | 26022 Server           |     |
| Application Server-Applications      | <ol> <li>Information</li> </ol> | 6/8/2016 11:13:21 AM                        | MSSQLSERVER                            | 17136 Server           | 2   |
| Application-Experience               | <ol> <li>Information</li> </ol> | 6/8/2016 11:13:21 AM                        | MSSQLSERVER                            | 26013 Server           |     |
| 🕀 🧰 AppLocker                        | <ol> <li>Information</li> </ol> | 6/8/2016 11:13:21 AM                        | MSSQLSERVER                            | 17137 Server           | Ev  |
| 🛨 🧮 Audio                            | <ol> <li>Information</li> </ol> | 6/8/2016 11:13:21 AM                        | MSSQLSERVER                            | 17137 Server           |     |
| 🕀 🧮 Authentication User Interface    | <ol> <li>Information</li> </ol> | 6/8/2016 11:13:21 AM                        | MSSQLSERVER                            | 17663 Server           |     |
| 🕀 🧮 Bits-Client                      | <ol> <li>Information</li> </ol> | 6/8/2016 11:13:21 AM                        | MSSQLSERVER                            | 17137 Server           |     |
| E CAPI2                              | <ol> <li>Information</li> </ol> | 6/8/2016 11:13:20 AM                        | MSSQLSERVER                            | 958 Server             |     |
| 🕀 🧮 CertificateServicesClient-Creden | (i) Information                 | 6/8/2016 11:13:20 AM                        | MSSQLSERVER                            | 17137 Server           |     |
| 🕀 🧮 CertPolEng                       | Information                     | 6/8/2016 11:13:20 AM                        | MSSOLSED//ED                           | 19030 Server           |     |
| CodeIntegrity                        | Event 18456, MSSOLSERV          | /FR   |  |                        | × 0 |
| CorruptedFileRecovery-Client         |                                 |   |  |                        |     |
| CorruptedFileRecovery-Server         | General Details                 |   |  |                        |     |
| DateTimeControlPanel                 |                                 |   |  |                        | 1   |
| DeviceSync                           | Login failed for user           | ISEDBUser' Reason: Failed to open the evolu | citly specified database. [CLIENT-10.4 | 8 39 2361              |     |
| 🖽 🛄 Dhep-Client                      | cogni falled for user           | is to open the explicit open the expli      | any specifica anabase. [CEEVIT. 10.4   | 0.03.2001              |     |
| Uncp-Nap-Enforcement-Client          |                                 |   |  |                        |     |
| 1+1 DHCP-Server                      |                                 |   |  |                        |     |

Para resolver problemas de operaciones de la base de datos, habilite los componentes de registro odbc-id-store en el nivel DEBUG bajo Administración > Sistema > Registro > Configuración de registro de depuración.

Los registros se colocan en el archivo prrt-management.log.

Ejemplo para odbuser2:

```
2016-06-08 12:26:56,009 DEBUG [Thread-4051][] cisco.cpm.odbcidstore.impl.OdbcIdStore -:::- ODBC
ID Store Operation: Authenticate Plain Text Password. Username=odbcuser2,
SessionID=0a3027ecLA_rJLKsS5QAzuRvluGWzdYe67rIgcG3MMQcpE8yKnw
2016-06-08 12:26:56,012 DEBUG [Thread-4051][] cisco.cpm.odbcidstore.impl.CustomerLog -:::- Write
customer log message: 24852
2016-06-08 12:26:56,012 DEBUG [Thread-4051][] cisco.cpm.odbcidstore.impl.OdbcConnectionPool -
:::- OdbcConnectionPool - get connection
2016-06-08 12:26:56,012 DEBUG [Thread-4051][] cisco.cpm.odbcidstore.impl.OdbcConnectionPool -
:::- OdbcConnectionPool - use existing connection
2016-06-08 12:26:56,013 DEBUG [Thread-4051][] cisco.cpm.odbcidstore.impl.OdbcConnectionPool -
:::- OdbcConnectionPool - connections in use: 1
2016-06-08 12:26:56,013 DEBUG [Thread-4051][] cisco.cpm.odbcidstore.impl.OdbcConnection -:::-
Authenticate plain text password
2016-06-08 12:26:56,013 DEBUG [Thread-4051][] cisco.cpm.odbcidstore.impl.OdbcConnection -:::-
Prepare stored procedure call, procname=ISEAuthUserPlainReturnsRecordset
2016-06-08 12:26:56,013 DEBUG [Thread-4051][] cisco.cpm.odbcidstore.impl.OdbcConnection -:::-
Using recordset to obtain stored procedure result values
2016-06-08 12:26:56,013 DEBUG [Thread-4051][] cisco.cpm.odbcidstore.impl.CustomerLog -:::- Write
customer log message: 24855
2016-06-08 12:26:56,013 DEBUG [Thread-4051][] cisco.cpm.odbcidstore.impl.OdbcConnection -:::-
Text: {call ISEAuthUserPlainReturnsRecordset(?, ?)}
2016-06-08 12:26:56,013 DEBUG [Thread-4051][] cisco.cpm.odbcidstore.impl.OdbcConnection -:::-
Setup stored procedure input parameters, username=odbcuser2, password=***
2016-06-08 12:26:56,014 DEBUG [Thread-4051][] cisco.cpm.odbcidstore.impl.OdbcConnection -:::-
Execute stored procedure call
```

2016-06-08 12:26:56,017 DEBUG [Thread-4051][] cisco.cpm.odbcidstore.impl.OdbcConnection -:::-Process stored procedure results 2016-06-08 12:26:56,017 DEBUG [Thread-4051][] cisco.cpm.odbcidstore.impl.OdbcConnection -:::-Obtain stored procedure results from recordset 2016-06-08 12:26:56,017 DEBUG [Thread-4051][] cisco.cpm.odbcidstore.impl.OdbcConnection -:::-Received result recordset, number of columns=4 2016-06-08 12:26:56,017 DEBUG [Thread-4051][] cisco.cpm.odbcidstore.impl.OdbcConnection -:::-Results successfully parsed from recordset 2016-06-08 12:26:56,018 DEBUG [Thread-4051][] cisco.cpm.odbcidstore.impl.OdbcConnectionPool -:::- OdbcConnectionPool - release connection 2016-06-08 12:26:56,018 DEBUG [Thread-4051][] cisco.cpm.odbcidstore.impl.OdbcConnectionPool -:::- OdbcConnectionPool - connections in use: 0 2016-06-08 12:26:56,018 DEBUG [Thread-4051][] cisco.cpm.odbcidstore.impl.OdbcIdStore -:::- Call to ODBC DB succeeded 2016-06-08 12:26:56,018 DEBUG [Thread-4051][] cisco.cpm.odbcidstore.impl.OdbcAuthResult -:::-Authentication result: code=0, Conection succeeded=false, odbcDbErrorString=No Error, odbcStoredProcedureCustomerErrorString=null, accountInfo=This is a very good user, give him all access, group=11 2016-06-08 12:26:56,019 DEBUG [Thread-4051][] cisco.cpm.odbcidstore.impl.CustomerLog -:::- Write customer log message: 24853 2016-06-08 12:26:56,026 DEBUG [Thread-84][] cisco.cpm.odbcidstore.impl.OdbcIdStore -:::- ODBC ID Store Operation: Get all user groups. Username=odbcuser2, SessionID=0a3027ecLA\_rJLKsS5QAzuRvluGWzdYe67rIgcG3MMQcpE8yKnw 2016-06-08 12:26:56,029 DEBUG [Thread-84][] cisco.cpm.odbcidstore.impl.OdbcIdStore -:::- ODBC ID Store Operation: Fetch user groups. Username=odbcuser2, SessionID=0a3027ecLA\_rJLKsS5QAzuRvluGWzdYe67rIgcG3MMQcpE8yKnw 2016-06-08 12:26:56,029 DEBUG [Thread-84][] cisco.cpm.odbcidstore.impl.CustomerLog -:::- Write customer log message: 24869 2016-06-08 12:26:56,029 DEBUG [Thread-84][] cisco.cpm.odbcidstore.impl.OdbcConnectionPool -:::-OdbcConnectionPool - get connection 2016-06-08 12:26:56,029 DEBUG [Thread-84][] cisco.cpm.odbcidstore.impl.OdbcConnectionPool -:::-OdbcConnectionPool - use existing connection 2016-06-08 12:26:56,029 DEBUG [Thread-84][] cisco.cpm.odbcidstore.impl.OdbcConnectionPool -:::-OdbcConnectionPool - connections in use: 1 2016-06-08 12:26:56,029 DEBUG [Thread-84][] cisco.cpm.odbcidstore.impl.OdbcConnection -:::-Fetch user groups 2016-06-08 12:26:56,029 DEBUG [Thread-84][] cisco.cpm.odbcidstore.impl.OdbcConnection -:::-Prepare stored procedure call, procname=ISEGroupsRetrieval 2016-06-08 12:26:56,029 DEBUG [Thread-84][] cisco.cpm.odbcidstore.impl.OdbcConnection -:::-Text: {call ISEGroupsRetrieval(?,?)} 2016-06-08 12:26:56,029 DEBUG [Thread-84][] cisco.cpm.odbcidstore.impl.OdbcConnection -:::-Setup stored procedure input parameters, username=odbcuser2 2016-06-08 12:26:56,029 DEBUG [Thread-84][] cisco.cpm.odbcidstore.impl.OdbcConnection -:::-Execute stored procedure call 2016-06-08 12:26:56,031 DEBUG [Thread-84][] cisco.cpm.odbcidstore.impl.OdbcConnection -:::-Process stored procedure results 2016-06-08 12:26:56,032 DEBUG [Thread-84][] cisco.cpm.odbcidstore.impl.OdbcConnection -:::-Received epmty result set, no groups/attributes data can be obtained 2016-06-08 12:26:56,032 DEBUG [Thread-84][] cisco.cpm.odbcidstore.impl.OdbcConnection -:::-Result code indicates success 2016-06-08 12:26:56,033 DEBUG [Thread-84][] cisco.cpm.odbcidstore.impl.OdbcConnectionPool -:::-OdbcConnectionPool - release connection 2016-06-08 12:26:56,033 DEBUG [Thread-84][] cisco.cpm.odbcidstore.impl.OdbcConnectionPool -:::-OdbcConnectionPool - connections in use: 0 2016-06-08 12:26:56,033 DEBUG [Thread-84][] cisco.cpm.odbcidstore.impl.OdbcIdStore -:::- Call to ODBC DB succeeded 2016-06-08 12:26:56,033 DEBUG [Thread-84][] cisco.cpm.odbcidstore.impl.CustomerLog -:::- Write customer log message: 24870 2016-06-08 12:26:56,033 DEBUG [Thread-84][] cisco.cpm.odbcidstore.impl.OdbcIdStore -:::- ODBC ID Store Operation: Get all user groups. Got groups... 2016-06-08 12:26:56,033 DEBUG [Thread-84][] cisco.cpm.odbcidstore.impl.OdbcIdStore -:::- ODBC ID Store Operation: Get all user groups. Username=odbcuser2, ExternalGroups=[] 2016-06-08 12:26:56,033 DEBUG [Thread-84][] cisco.cpm.odbcidstore.impl.OdbcIdStore -:::- ODBC ID Store Operation: Fetch user attributes. Username=odbcuser2,

SessionID=0a3027ecLA\_rJLKsS5QAzuRvluGWzdYe67rIqcG3MMQcpE8yKnw 2016-06-08 12:26:56,033 DEBUG [Thread-84][] cisco.cpm.odbcidstore.impl.CustomerLog -:::- Write customer log message: 24872 2016-06-08 12:26:56,033 DEBUG [Thread-84][] cisco.cpm.odbcidstore.impl.OdbcConnectionPool -:::-OdbcConnectionPool - get connection 2016-06-08 12:26:56,033 DEBUG [Thread-84][] cisco.cpm.odbcidstore.impl.OdbcConnectionPool -:::-OdbcConnectionPool - use existing connection 2016-06-08 12:26:56,033 DEBUG [Thread-84][] cisco.cpm.odbcidstore.impl.OdbcConnectionPool -:::-OdbcConnectionPool - connections in use: 1 2016-06-08 12:26:56,033 DEBUG [Thread-84][] cisco.cpm.odbcidstore.impl.OdbcConnection -:::-Fetch user attributes 2016-06-08 12:26:56,033 DEBUG [Thread-84][] cisco.cpm.odbcidstore.impl.OdbcConnection -:::-Prepare stored procedure call, procname=ISEAttrsRetrieval 2016-06-08 12:26:56,033 DEBUG [Thread-84][] cisco.cpm.odbcidstore.impl.OdbcConnection -:::-Text: {call ISEAttrsRetrieval(?,?)} 2016-06-08 12:26:56,033 DEBUG [Thread-84][] cisco.cpm.odbcidstore.impl.OdbcConnection -:::-Setup stored procedure input parameters, username=odbcuser2 2016-06-08 12:26:56,033 DEBUG [Thread-84][] cisco.cpm.odbcidstore.impl.OdbcConnection -:::-Execute stored procedure call 2016-06-08 12:26:56,035 DEBUG [Thread-84][] cisco.cpm.odbcidstore.impl.OdbcConnection -:::-Process stored procedure results 2016-06-08 12:26:56,035 DEBUG [Thread-84][] cisco.cpm.odbcidstore.impl.OdbcConnection -:::-Received result recordset, total number of columns=2 2016-06-08 12:26:56,035 DEBUG [Thread-84][] cisco.cpm.odbcidstore.impl.OdbcConnection -:::-According to column number expect multiple rows (vertical attributes/groups retured result) 2016-06-08 12:26:56,035 DEBUG [Thread-84][] cisco.cpm.odbcidstore.impl.OdbcConnection -:::-Fetched data: AwsomenessLevel=100 2016-06-08 12:26:56,035 DEBUG [Thread-84][] cisco.cpm.odbcidstore.impl.OdbcConnection -:::-Fetched data: UserType=admin 2016-06-08 12:26:56,035 DEBUG [Thread-84][] cisco.cpm.odbcidstore.impl.OdbcConnection -:::-Results successfully parsed from recordset 2016-06-08 12:26:56,035 DEBUG [Thread-84][] cisco.cpm.odbcidstore.impl.OdbcConnection -:::-Result code indicates success 2016-06-08 12:26:56,036 DEBUG [Thread-84][] cisco.cpm.odbcidstore.impl.OdbcConnectionPool -:::-OdbcConnectionPool - release connection 2016-06-08 12:26:56,036 DEBUG [Thread-84][] cisco.cpm.odbcidstore.impl.OdbcConnectionPool -:::-OdbcConnectionPool - connections in use: 0 2016-06-08 12:26:56,036 DEBUG [Thread-84][] cisco.cpm.odbcidstore.impl.OdbcIdStore -:::- Call to ODBC DB succeeded 2016-06-08 12:26:56,036 DEBUG [Thread-84][] cisco.cpm.odbcidstore.impl.CustomerLog -:::- Write customer log message: 24873 2016-06-08 12:26:56,036 DEBUG [Thread-84][] cisco.cpm.odbcidstore.impl.OdbcIdStore -:::- ODBC ID Store Operation: Get all user attrs. Username=odbcuser2, Setting ISE\_ODBC.AwsomenessLevel to 100 2016-06-08 12:26:56,036 DEBUG [Thread-84][] cisco.cpm.odbcidstore.impl.OdbcIdStore -:::- ODBC ID Store Operation: Get all user attrs. Username=odbcuser2, Setting ISE\_ODBC.UserType to admin