Configurer ISE 2.1 avec MS SQL à l'aide d'ODBC

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Introduction

Ce document décrit comment configurer Identity Services Engine (ISE) avec Microsoft Standard Query Language (SQL) Server pour l'authentification ISE à l'aide d'Open Database Connectivity (ODBC)

Note: L'authentification ODBC (Open Database Connectivity) nécessite ISE pour pouvoir récupérer un mot de passe utilisateur en texte clair. Le mot de passe peut être chiffré dans la base de données, mais doit être déchiffré par la **procédure stockée**.

Conditions préalables

Conditions requises

Cisco vous recommande de prendre connaissance des rubriques suivantes :

- Concepts de base de données et ODBC
- Microsoft SQL Server

Components Used

Les informations contenues dans ce document sont basées sur les versions de matériel et de logiciel suivantes :

- Identity Services Engine 2.1
- MSSQL Server 2008 R2

Configuration

Étape 1. Configuration de base de MS SQL

Les étapes de configuration incluent la création d'une base de données et d'un utilisateur pour ISE avec des autorisations d'accès à cette base de données.

Note: ISE prend uniquement en charge l'authentification SQL, et non le compte Windows. Si vous devez modifier le mode d'authentification, reportez-vous à <u>Modifier le mode</u> <u>d'authentification du serveur.</u>

1. Ouvrez SQL Server Management Studio (**menu Démarrer > Microsoft SQL Server 2008 R2**) et créez une base de données :



2. Laissez les options par défaut ou ajustez les paramètres de base de données comme indiqué dans cette image :

| 📱 New Database | | | | | | | |
|---------------------------------------|------------------|-----------|---------------------|---------|--------------------------|--------------------|-------------------------|
| Select a page | 🔄 Script 👻 📑 H | lelp | | | | | |
| General | | | | | | | |
| Pilegroups | Database name: | | ISEDB | | | | |
| | Owner: | | <default></default> | | | | |
| | | | , | | | | |
| | Use full-text in | ndexing | | | | | |
| | Database files: | | | | | | |
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| Ready | • | | | | | | F |
| Weap of | | | | | | Add | Remove |
| | | | | | | | |
| | | | | | | | OK Cancel |

3. Créez un utilisateur et définissez les autorisations comme indiqué dans les images ci-dessous :



| 🚪 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 | | |
| | Map to Credential | | Add |
| Connection | Mapped Credentials | Credential Provider | |
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| Connection: BABALAND\administrator | | | |
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| Login Properties - ISEDBUser | | | | |
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| 🚰 General | | | | |
| Server Roles | Users map | ped to this login: | | |
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| Status | | ISEDB | ISEDBUser | · |
| _ | | master | | _ |
| | | model | | |
| | | msdb | | |
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| | | | | |
| | Guest | account enabled for: ISEDB | | |
| | Database | role membership for: ISEDB | | |
| Connection | L dh ac | cessadmin | | |
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| | | | | |
| | | | | OK Cancel |

Étape 2. Configuration de base d'ISE

Créez une **source d'identité ODBC** à **Administration > Source d'identité externe > ODBC** et testez la connexion :

ODBC List > ISE_ODBC

| ODBC Identity Source | e Connection | Stored Procedures | Attributes | Groups |
|-----------------------|----------------------|--------------------|-----------------------|----------------|
| ODBC DB connection de | etails | | | |
| * Hostname/IP[:port] | bast-ad-ca.cisco.com | ı | | |
| * Database name | ISEDB | | | |
| Admin username | ISEDBUser | (1) | | |
| Admin password | ••••• | | | |
| * Timeout | 5 | Test connection | | × |
| * Retries | 1 | Connection succe | eded | |
| * Database type | Microsoft SQL Serv | Stored Procedure | S | |
| | Test Connection | Plain text passwo | rd authentication - N | ot Configured |
| | | Plain text passwo | rd fetching - Not Cor | nfigured |
| | | Check username | or machine exists - I | Not Configured |
| | | Fetch groups - No | ot Configured | |
| | | Fetch attributes - | Not Configured | |
| | | | | Close |
| | | | | |

Étape 3. Configurer l'authentification utilisateur

L'authentification ISE vers ODBC utilise des procédures stockées.La procédure stockée pour l'authentification renvoie le **jeu de résultats** avec cette syntaxe :

| Valeur | Туре |
|--------------------------------------------------------|------------------------|
| Résultat | Entier |
| Groupe (pour la compatibilité avec ACS 4.2 uniquement) | Entier ou varchar(255) |
| Informations sur le compte | varchar(255) |
| Chaîne d'erreur | varchar(255) |

Pour d'autres procédures, reportez-vous au <u>Guide d'administration de Cisco Identity Services</u> Engine 2.1

Astuce : Il est possible de retourner des paramètres nommés au lieu du jeu de résultats. C'est juste un type de sortie différent, la fonctionnalité est la même.

1. Naviguez jusqu'aux options et décochez la case **Empêcher l'enregistrement des modifications nécessitant une recréation de la table** (facultatif) :

| Options | ? × |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Environment General Fonts and Colors Keyboard Help Text Editor Query Execution Query Results SQL Server Object Explorer Designers Table and Database Designers Maintenance Plans Analysis Services Designers Source Control | 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 |
| | OK Cancel |

2. Créez la table. Assurez-vous de définir les paramètres d'identité sur la **clé primaire**. Pour définir **user_id** comme **clé primaire**, cliquez avec le bouton droit sur le **nom de colonne :**

| | SQLQuery2.sqlistrator | (52))* BAST-AD | CA.ISdbo.IS | _Users* | | |
|----|---------------------------|----------------|-------------|---------|-----|----------|
| | Column Name | Data Type | Allow Nulls | | | |
| ▶8 | user_id | int | | | | |
| | username | varchar(MAX) | | | | |
| | password | varchar(MAX) | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
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| | | | | | | |
| | | | | | | |
| | | | | | | |
| С | olumn Properties | | | | | |
| | 2↓ ⊂ | | | | | |
| E | E Full-text Specification | | | | No | <u> </u> |
| | Has Non-SQL Server Sub | scriber | | | No | |
| E | 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. Exécutez cette requête pour insérer un utilisateur :

```
insert into ISE_Users(username,password) values('odbcuser1','odbcpass');
```

```
4. Créez une procédure pour l'authentification par mot de passe en texte brut (utilisée pour PAP, méthode interne 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. Créez une procédure pour l'extraction du mot de passe en texte brut (utilisée pour CHAP, MSCHAPv1/v2, EAP-MD5, LEAP, méthode interne EAP-MSCHAPv2, 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
```

6. Créer une procédure pour vérifier l'existence d'un nom d'utilisateur ou d'une machine (utilisée pour MAB, reconnexion rapide de PEAP, EAP-FAST et 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. Tester les procédures créées :



| Series a page Series Series Series Series Series Series Series Series Series Series Series Series Series Series Series Series Series Series Series Series Series Series Ser | 🐙 Execute Procedure - [dbo].[| ISEAuthUserPlainR | eturnsRecordset |] | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-----------------------------------------------|--------------------------|---------------------|--------------------|-------------|
| Personal Pe | Select a page | 🔄 Script 👻 📑 Hel | p | | | |
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| | | This is a very good us | ser, give him all access | | | |
| | | | | | | |

Tester d'autres procédures de la même manière.

8. Configurez les procédures sur ISE et enregistrez :

| OD | BC List > ISE_OD | BC | | | | |
|----|-----------------------|---------------------|-----------------------------|------------|----------|--------|
| 00 | DBC Identity S | ource | | | | |
| | General | Connection | Stored Procedures | Attributes | | Groups |
| | | | | | | |
| | Sto | ored procedure type | Returns recordset | - | | |
| | Plain text passv | word authentication | ISEAuthUserPlainReturnsReco | rdset | \oplus | |
| | Plain text | t password fetching | ISEFetchPasswordReturnsReco | ordset | \oplus | |
| | Check username | e or machine exists | ISEUserLookupReturnsRecord | set i | \oplus | |
| | | Fetch groups | | (i) | \oplus | |
| | | Fetch attributes | | <i>i</i>) | \oplus | |
| | Search for MA | C Address in format | XX-XX-XX-XX-XX | • (i) | | |
| | | | | | | |
| | | | | | | |

9. Créez une règle d'authentification simple à l'aide d'ODBC et testez-la :

| • | Authentication Policy | | | | | | | | |
|---|-----------------------|---|----------|-----------------|-----------------------------------------|------------------------------------------|-----|----------|--|
| | | ~ | MAB | : If Wir Wir | ired_MAB OR ireless_MAB | Allow Protocols : Default Network Access | and | Edit 🕶 | |
| | | | Default | :use | Internal Endpoints | | | | |
| | | ~ | Dot1X | : If Wir Wir | ired_802.1X OR ireless_802.1X | Allow Protocols : Default Network Access | and | Edit 🕶 | |
| | | | Default | use | All_User_ID_Stores | | | | |
| | | | test_aaa | : If Ra | adius:Service-Type EQUALS Login | Allow Protocols : Default Network Access | and | Edit 🕶 | |
| | | | Default | use | ISE_ODBC | | | | |

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 | |
| | | |
| uthorization Result | PermitAccess | |
| Authorization Result | PermitAccess | |
| Authorization Result thentication Details Source Timestamp | PermitAccess 2016-06-08 11:04:07.004 | |
| Authorization Result thentication Details Source Timestamp Received Timestamp | PermitAccess 2016-06-08 11:04:07.004 2016-06-08 11:04:07.005 | |
| Authorization Result thentication Details Source Timestamp Received Timestamp Policy Server | PermitAccess 2016-06-08 11:04:07.004 2016-06-08 11:04:07.005 bise236 | |
| Authorization Result thentication 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 - ISE_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 - ISE_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

Étape 4. Configurer la récupération de groupe

1. Créez des tables contenant des groupes d'utilisateurs et une autre table utilisée pour le mappage de plusieurs à plusieurs :

```
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. Ajoutez des groupes et des mappages de sorte que ODBCUSER1 appartient aux deux groupes

:
```

```
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. Créer une procédure de récupération de groupe :
```

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. Mapper à Récupérer les groupes :

ODBC List > ISE_ODBC

ODBC Identity Source

| General | Connection | Stored Procedures | Attributes | Groups |
|----------------|-----------------------|----------------------------|------------|----------|
| | | | | |
| S | tored procedure type | Returns recordset | Ψ | |
| Plain text pas | sword authentication | ISEAuthUserPlainReturnsRec | ordset | \oplus |
| Plain te | xt password fetching | ISEFetchPasswordReturnsRe | cordset | \oplus |
| Check usernar | ne or machine exists | ISEUserLookupReturnsRecor | dset | \oplus |
| | | | | |
| | Fetch groups | ISEGroupsRetrieval | <i>i</i> | \oplus |
| | Fetch attributes | ISEAttrsRetrieval | i | \oplus |
| Search for M | IAC Address in format | xx-xx-xx-xx-xx | • (i) | |

5. Récupérez les groupes et ajoutez-les à la source d'identité ODBC :

| ODBC List > ISE_ODB | C | | | | |
|----------------------------|------------|-----------------------------|----------------|--------------------|--------|
| ODBC Identity So | ource | | | | |
| General | Connection | Stored Procedures Attribute | 5 Groups | | |
| / Edit 🕂 Add 👻 | 🗙 Delete | | | | |
| Name | | Name in ISE | | | |
| | | No | data available | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | Select Groups from ODBC | | | х |
| | | Sample User or Machine odbo | cor1 | Retrieve Groups | |
| | | | | () [Redieve Gloups | |
| | | Name Name in IS | E | | |
| | | ODBCGroup1 ODBCGrou | .p1 | | |
| | | ODBCGroup2 ODBCGrou | p2 | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | ОК | Cancel |
| | | | | | |

6. Ajoutez un autre utilisateur qui n'appartient à aucun groupe :

insert into ISE_Users(username,password) values('odbcuser2','odbcpass');
7. Créer un ensemble de stratégies spécifique et tester :

| Policy Sets Profiling Posture Client Provision | ing Policy Elements | | | |
|--------------------------------------------------|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------|----------|
| Policy Sets Search policy names & descriptions. | Define the Policy Sets by configuring rule For Policy Export go to Administration > S | es based on conditions. Drag and drop sets o System > Backup & Restore > Policy Export | n the left hand side to change the order. Page | |
| ++ · ·b· ↑ · · · × œ | | Description | Radius:Service-Type EQUALS Login | Edit |
| Summary of Policies A list of all your policies | Authentication Policy | | | |
| Global Exceptions Rules across entire deployment | Default Rule (If no match | n) : Allow Protocols : Default Network | Access and use : ISE_ODBC | Edit 🕶 |
| Z TestAAA | | | | |
| VPN | Authorization Policy | | | |
| Default Default Policy Set | Exceptions (0) Standard | | | |
| Save Urder Keset Urder | Status Rule Name | Conditions (identity groups and o if ISE_ODBC:ExternalGroups EQU ODBCGroup1 | ther conditions) Permissions ALS then PermitAccess | 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 |

Étape 5. Configurer la récupération des attributs

1. Afin de simplifier cet exemple, une table plate est utilisée pour les attributs :

```
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. Créez un attribut pour l'un des utilisateurs :

```
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. Créer une procédure stockée :

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. Mapper les attributs de récupération :

ODBC List > ISE_ODBC

ODBC Identity Source

| General | Connection | Stored Procedures | Attributes | Groups |
|---------------|-----------------------|----------------------------|------------|----------|
| | | | | |
| : | Stored procedure type | Returns recordset | - | |
| Plain text pa | ssword authentication | ISEAuthUserPlainReturnsRec | cordset | \oplus |
| Plain t | ext password fetching | ISEFetchPasswordReturnsRe | cordset | \oplus |
| Check userna | ame or machine exists | ISEUserLookupReturnsRecor | rdset | \oplus |
| | | | | |
| | Fetch groups | ISEGroupsRetrieval | (i) | \oplus |
| | Fetch attributes | ISEAttrsRetrieval | i | \oplus |
| Search for | MAC Address in format | xx-xx-xx-xx-xx | • (i) | |

5. Récupère les attributs :

| Select Attributes from ODBC | | | | | | | |
|-----------------------------|-----------|---------------|-------------------------|--|--|--|--|
| Sample User or Machine | odbcuser2 | | (i) Retrieve Attributes | | | | |
| Name | Туре 🔺 | Default Value | Name in ISE | | | | |
| AwsomenessLevel | STRING | 100 | AwsomenessLevel | | | | |
| UserType | STRING | admin | UserType | | | | |



6. Ajuster les règles ISE :

| | Status | Rule Name Group1Access | if | Conditions (ISE_ODBC: ODBCGroup | identity grou ExternalGrou o1 | ps and other conditions ups EQUALS |) then | Permissions PermitAcces | ŝS | | | Edit 🕶 |
|--------|-------------|---------------------------|---------------|----------------------------------------|-------------------------------------|---------------------------------------|-----------|----------------------------|----------------|----------------|------------------------|-----------------|
| | - A | wesomeUser | | ISE_ODBC: | Awsomenes | sLevel EQUALS 100 | | PermitAcces | s | | | Edit 🕶 |
| | – C | Default | if no | o matches, th | nen Deny | Access | | | | | | Edit 🕶 |
| | | | | | | | | | | | | |
| C Refr | esh C | Reset Repeat Counts | 🚨 Export To 👻 | | | | | | | | | T Filter |
| ٦ | Time | | Status | Details | Repeat | Identity | Endpoin | ID | Endpoint Pr | Authenticat | Authorization Policy | Authorizatio |
| × | | | \$ | | | Identity | Endpoint | ID | Endpoint Profi | Authentication | Authorization Policy | Authorization |
| J | lun 08, 201 | 16 12:21:45.596 PM | ~ | Q | | odbcuser2 | | | | TestAAA >> | TestAAA >> AwesomeUser | PermitAccess |

Dépannage

Si la connexion échoue, vérifiez le journal des événements de windows. Sur ISE, utilisez la commande **show logging application prrt-management.log tail** lors de la tentative de connexion.

Exemple de mode d'authentification incorrect :

```
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)
\texttt{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 o | fevents: 29,048 (!) New events available | | | | |
| 🗄 📑 Custom Views | Lauri | Data and True | Gauna | Event ID | Teal. Catagony | |
| E Windows Logs | Level | Date and Time | Source | Event ID | Task Category | |
| Application | Tofermation | 6/8/2016 11:08:07 AM | MSSQLSERVER | 19456 | Server | |
| Security | Teferretier | 6/8/2016 11:03:38 AM | MSSQLSERVER | 10450 | Logon | |
| Setup | Information | 6/8/2016 11:03:39 AM | MSSQLSERVER | 10400 | Cogon | |
| Enrwarded Events | Information | 6/8/2016 11:02:23 AM | MSSQLSERVER | 5084 | Server | |
| | Information | 6/8/2016 11:02:22 AM | MSSQLSERVER | 5004 | Server | |
| Active Directory Web Services | Information | 6/8/2016 11:02:23 AM | MSSQLSERVER | 5084 | Server | |
| DFS Replication | Information | 6/8/2016 11:02:23 AM | MSSQLSERVER | 5084 | Server | |
| Directory Service | Information | 6/8/2016 11:02:23 AM | MSSQLSERVER | 5084 | Server | |
| DNS Server | Information | 6/8/2016 11:02:22 AM | MSSQLSERVER | 5004 | Server | |
| Hardware Events | Information | 6/8/2016 11:02:23 AM | MSSQLSERVER | 5084 | Server | |
| 🛃 Internet Explorer | Information | 6/8/2016 11:02:22 AM | MSSQLSERVER | 5004 | Server | |
| 🛃 Key Management Service | Information | 6/8/2016 11:02:23 AM | MSSQLSERVER | 5084 | Server | |
| 🖃 🚞 Microsoft | Information | 6/8/2016 11:02:23 AM | MSSQLSERVER MSSQLSERVER | 5084 | Server | |
| E Windows | Information | 6/8/2016 11:02:23 AM | MSSQLSERVER | 5084 | Server | |
| API-Tracing | Information | 6/8/2016 11:02:23 AM | MSSQLSERVER MSSQLSERVER | 5084 | Server | |
| | Information | 6/8/2016 11:02:23 AM | MSSQLSERVER | 5084 | Server | |
| Application Server-Applications | Information | 6/8/2016 11:02:23 AM | MSSQLSERVER MSSQLSERVER | 5084 | Server | |
| Application-experience | Information | 6/8/2016 11:02:23 AM | MSSQLSERVER | 5084 | Server | |
| | Information | 6/8/2016 11:02:23 AM | MSSQLSERVER | 5084 | Server | |
| Authentication User Interface | (1) Information | 6/8/2016 11:02:23 AM | MSSOL SERVER | 5084 | Server | |
| 🕀 🧮 Bits-Client | Information | 6/8/2016 11:02:23 AM | MSSQLSERVER | 5084 | Server | |
| 🗉 🧮 CAPI2 | (i) Information | 6/8/2016 11:02:23 AM | MSSOL SERVER | 5084 | Server | |
| 🗉 🧮 CertificateServicesClient-Creden | Information | 6/8/2016 11:02:23 AM | MSSQLSERVER | 5084 | Server | |
| 🕀 🧮 CertPolEng | Information | 6/8/2016 11:02:23 AM | MSSQLSEIVER | 5084 | Server | - |
| 🕀 🧮 CodeIntegrity | Event 18456 MSSOLSE | 2VEP | | | | ¥ |
| E CorruptedFileRecovery-Client | | | | | | |
| | General Details | | | | | |
| DateTimeControlPanel | | | | | | 1 |
| DeviceSync | Login failed for use | r 'hahaland\administrator' Reason: An attem | int to login using SQL authentication f | ailed. Server is configured for | Windows | - |
| Dhcp-Client | authentication only | CLIENT: 10.48.39.2361 | pero login using oge authentication i | anea, server is configured for | Windows | |
| Dhcp-Nap-Enforcement-Client | | | | | | |
| I+I IIII LIPIC P-SPIVAR | | | | | | |

Exemple d'autorisations manquantes de l'utilisateur pour ouvrir la base de données :

```
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 | |
| Security | Information | 6/8/2016 11:13:21 AM | MSSQLSERVER | 3408 Server | |
| Setup | Information | 6/8/2016 11:13:21 AM | MSSQLSERVER | 9688 Server | |
| System | 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 | 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 | |
| DI-S 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 | 000 |
| Uns Server | (i) Information | 6/8/2016 11:13:21 AM | MSSQLSERVER | 17201 Server | |
| Tatement Surglasse | Information | 6/8/2016 11:13:21 AM | MSSQLSERVER. | 26022 Server | |
| Key Management Service | Information | 6/8/2016 11:13:21 AM | MSSQLSERVER | 26022 Server | |
| Microsoft | Information | 6/8/2016 11:13:21 AM | MSSQLSERVER | 26048 Server | |
| U Windows | Information | 6/8/2016 11:13:21 AM | MSSQLSERVER | 26048 Server | |
| API-Tracing | Information | 6/8/2016 11:13:21 AM | MSSQLSERVER | 26022 Server | |
| | Information | 6/8/2016 11:13:21 AM | MSSQLSERVER | 26022 Server | |
| Application Server-Applications | Information | 6/8/2016 11:13:21 AM | MSSQLSERVER | 17136 Server | ? |
| Application-Experience | Information | 6/8/2016 11:13:21 AM | MSSQLSERVER | 26013 Server | |
| 🕀 🧰 AppLocker | (i) Information | 6/8/2016 11:13:21 AM | MSSQLSERVER | 17137 Server | Ev |
| 🕀 🧮 Audio | (i) Information | 6/8/2016 11:13:21 AM | MSSQLSERVER | 17137 Server | |
| 🗉 🧮 Authentication User Interface | (i) Information | 6/8/2016 11:13:21 AM | MSSQLSERVER | 17663 Server | |
| 🕀 🚞 Bits-Client | (i) Information | 6/8/2016 11:13:21 AM | MSSQLSERVER | 17137 Server | |
| 🕀 📫 CAPI2 | (i) Information | 6/8/2016 11:13:20 AM | MSSOLSERVER | 958 Server | |
| 표 🚞 CertificateServicesClient-Creden | (i) Information | 6/8/2016 11:13:20 AM | MSSOLSERVER | 17137 Server | |
| 🕀 🚞 CertPolEng | Information | 6/8/2016 11:13:20 AM | MSSOLSERVER | 19030 Server | _ 0 |
| 🕀 🧮 CodeIntegrity | Event 18456 MSSOLSER | VER | | | x |
| E CorruptedFileRecovery-Client | | | | | |
| | General Details | | | | |
| DateTimeControlPanel | 1 1 1 1 1 1 | | | | |
| DeviceSync | Login failed for upor | 'ISEDBUser' Reason: Failed to open the evolu- | citly specified database. [CLIENT: 10.49 | 30 2261 | |
| Dhcp-Client | Login failed for user | iscouser a reason, railed to open the expli | city specified database. [CLI2141: 10.46 | [003.80.0] | |
| Dhcp-Nap-Enforcement-Client | | | | | |
| DHCP-Server | | | | | |

Afin de dépanner les opérations de base de données, activez les composants de journalisation odbc-id-store au niveau DEBUG sous Administration > System > Logging > Debug Log Configuation.

Les journaux sont placés dans le fichier prrt-management.log.

Exemple pour 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