Configurez ODBC sur ISE 2.1 avec PostgreSQL

Contenu

Introduction

Ce document décrit comment configurer le Cisco Identity Services Engine (ISE) avec le serveur de PostgreSQL pour l'authentification ISE utilisant la Connectivité de base de données ouverte (ODBC).

Remarque: L'authentification de la Connectivité de base de données ouverte (ODBC) exige d'ISE de pouvoir chercher un mot de passe utilisateur de texte brut. 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 :

- Logiciel Cisco Identity Services Engine 2.1
- Base de données et concepts ODBC
- PostgreSQL

Composants utilisés

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

- Cisco Identity Services Engine 2.1
- Centos 7
- PostgreSQL 9.2

Configurez

> Remarque: Code du festin SQL dans ce document comme exemple. Habituellement il y a plus d'une manière de coder a désiré la fonctionnalité et tous ont leurs avantages et inconvénients.

Étape 1. Configuration de base de PostgreSQL

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

1. De l'utilisateur de postgres créez l'utilisateur d'isedb :

```
$ createuser --interactive
Enter name of role to add: isedb
Shall the new role be a superuser? (y/n) n
Shall the new role be allowed to create databases? (y/n) y
Shall the new role be allowed to create more new roles? (y/n) n
Password:
```

2. Créez une base de données

```
$ createdb isedb
```

ou avec le SQL :

```
CREATE DATABASE isedb WITH TEMPLATE = template0 OWNER = isedb;
REVOKE ALL ON DATABASE isedb FROM PUBLIC;
REVOKE ALL ON DATABASE isedb FROM postgres;
GRANT CONNECT,TEMPORARY ON DATABASE isedb TO PUBLIC;
GRANT ALL ON DATABASE isedb TO isedb;
```

3. Permettez l'accès à PostgreSQL

```
sudo vi /var/lib/pgsql/data/pg_hba.conf
```

Trouvez les lignes qui ressemble à ceci, près du bas du fichier :

```
host all all 127.0.0.1/32 ident
host all all ::1/128 ident
```

Remplacez alors l'**ident** par le **MD5**, ainsi ils ressemblent à ceci :

```
host all all 127.0.0.1/32 md5
host all all 10.0.0.0/8 md5
```

4. Permettez les connexions distantes à PgSQL

Vous devez ouvrir le fichier de configuration **/var/lib/pgsql/data/postgresql.conf de** PostgreSQL. Ligne de configuration de découverte qui lit :

```
listen_addresses='localhost'
```

et modification à

```
listen_addresses='*'
```

Permettez les connexions de toutes les adresses. Ligne de configuration des ports d'Uncomment (si commenté) :

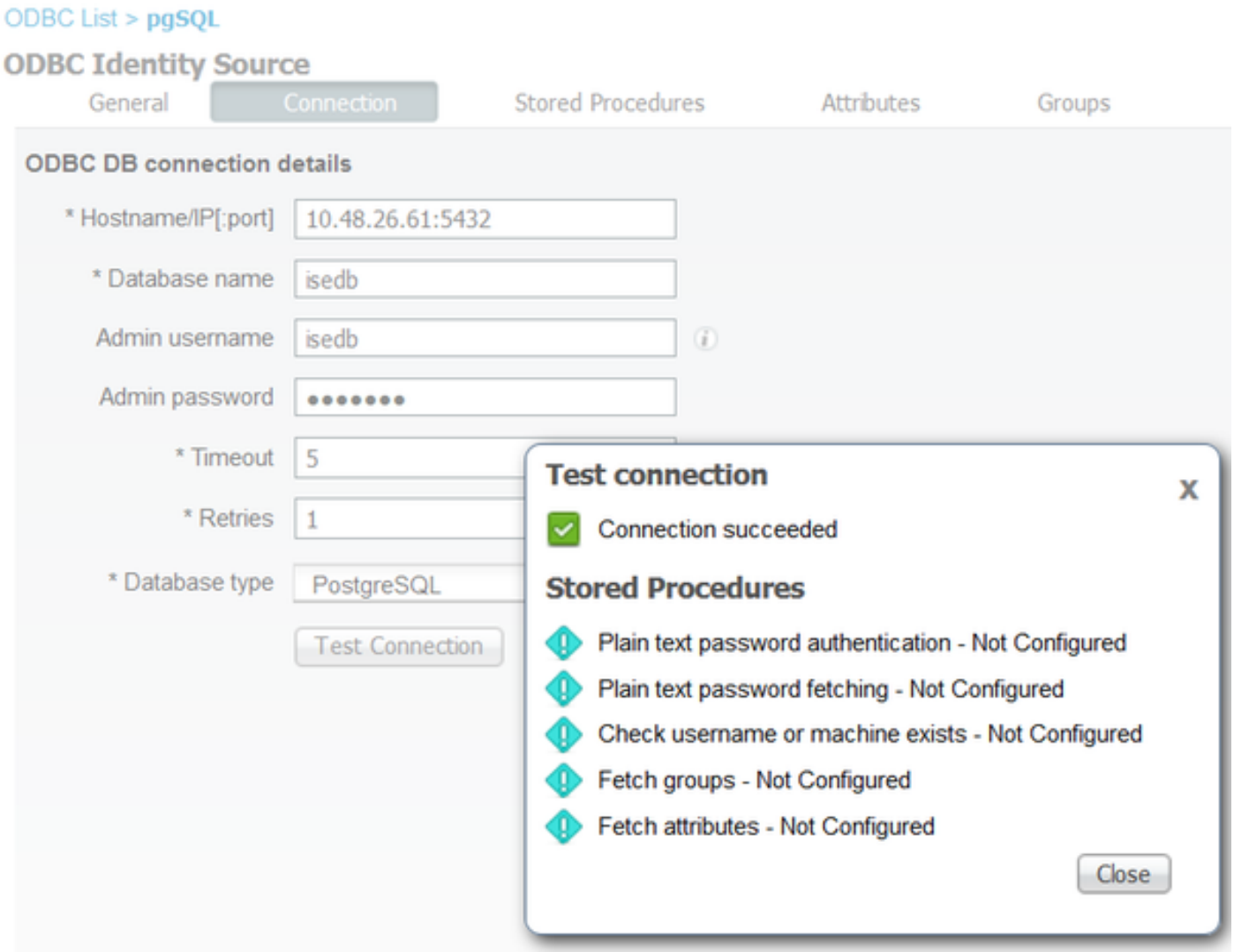
```
port = 5432
```

5. Reprise PgSQL :

```
$ sudo systemctl start postgresql
$ sudo systemctl enable postgresql
```

Étape 2. Configuration ISE

Créez une source d'identité ODBC à la **gestion > source extérieure d'identité > ODBC** et connexion de test :



Étape 3. Configurez l'authentification de l'utilisateur

L'authentification ISE à ODBC utilise le stored procedures. Il est possible au type de sélection de procédures. Dans cet exemple nous utilisons des paramètres en tant que retour. Pour d'autres procédures, référez-vous au [guide d'administration du Logiciel Cisco Identity Services Engine 2.1]

Conseil : Il est possible de renvoyer des paramètres Désignés au lieu du resultset. C'est juste un type différent de sortie, fonctionnalité est identique.

1. Créez la table. Assurez-vous que vous avez placé les configurations d'identité sur la **clé primaire**

```
CREATE TABLE "ISE_Users" (
user_id uuid NOT NULL,
username character varying NOT NULL,
password character varying NOT NULL
);


ALTER TABLE public."ISE_Users" OWNER TO isedb;
ALTER TABLE ONLY "ISE_Users"
ADD CONSTRAINT "ISE_Users_pkey" PRIMARY KEY (user_id);
```

2. Exécutez cette requête pour insérer un utilisateur

```
INSERT INTO "ISE_Users" VALUES ('8cc4b9b9-117a-46c4-879e-d764c9685e80', 'user1', 'password1');
```

Ou

```
INSERT INTO "ISE_Users" VALUES (uuid_generate_v1(), 'user1', 'password1');
```

Et apprenez et enregistrez UUID généré d'un nouvel utilisateur avec cette requête

```
SELECT user_id FROM "ISE_Users" WHERE username = 'user1';
```

3. Créez une procédure pour l'authentification de mot de passe de texte brut (utilisée pour la méthode intérieure PAP, EAP-GTC, TACACS)

```
CREATE FUNCTION iseauthuserplainreturnsparameters(ise_username text, ise_password text, OUT
result integer, OUT ise_group text, OUT acctinfo text, OUT errorstring text) RETURNS record
LANGUAGE plpgsql IMMUTABLE SECURITY DEFINER
AS $$
DECLARE
c int;
BEGIN
select count(*) into c from "ISE_Users" where username = ise_username and password =
ise_password;
IF c > 0 THEN
result := 0;
ise_group := cast ('11' as text);
acctinfo := cast ('This is a very good user, give him all access' as text);
errorstring := cast ('No error' as text);
else
result := 3;
ise_group := cast ('11' as text);
acctinfo := cast ('User is unknown or invalid password' as text);
errorstring := cast ('User is unknown or invalid password' as text);
END IF;
END;
$$;

ALTER FUNCTION public.iseauthuserplainreturnsparameters(ise_username text, ise_password text,
OUT result integer, OUT ise_group text, OUT acctinfo text, OUT errorstring text) OWNER TO isedb;
```

4. Créez une procédure pour chercher de mot de passe de texte brut (utilisé pour le CHAP, MSCHAPv1/v2, EAP-MD5, LEAP, méthode EAP-MSCHAPv2 intérieure, TACACS)

```
CREATE FUNCTION isefetchpasswordreturnsparameters(ise_username text, OUT result integer, OUT
ise_group text, OUT acctinfo text, OUT errorstring text, OUT ise_password text) RETURNS record
LANGUAGE plpgsql IMMUTABLE SECURITY DEFINER
AS $$
DECLARE
c int;
```

```
BEGIN
select count(*) into c from "ISE_Users" where username = ise_username;
IF c > 0 THEN
result := 0;
ise_group := cast ('11' as text);
acctinfo := cast ('This is a very good user, give him all access' as text);
errorstring := cast ('no error' as text);
select password into ise_password from "ISE_Users" where username = ise_username;
else
result := 3;
ise_group := cast ('11' as text);
acctinfo := cast ('User is unknown' as text);
errorstring := cast ('User is unknown' as text);
END IF;
END;
$$;

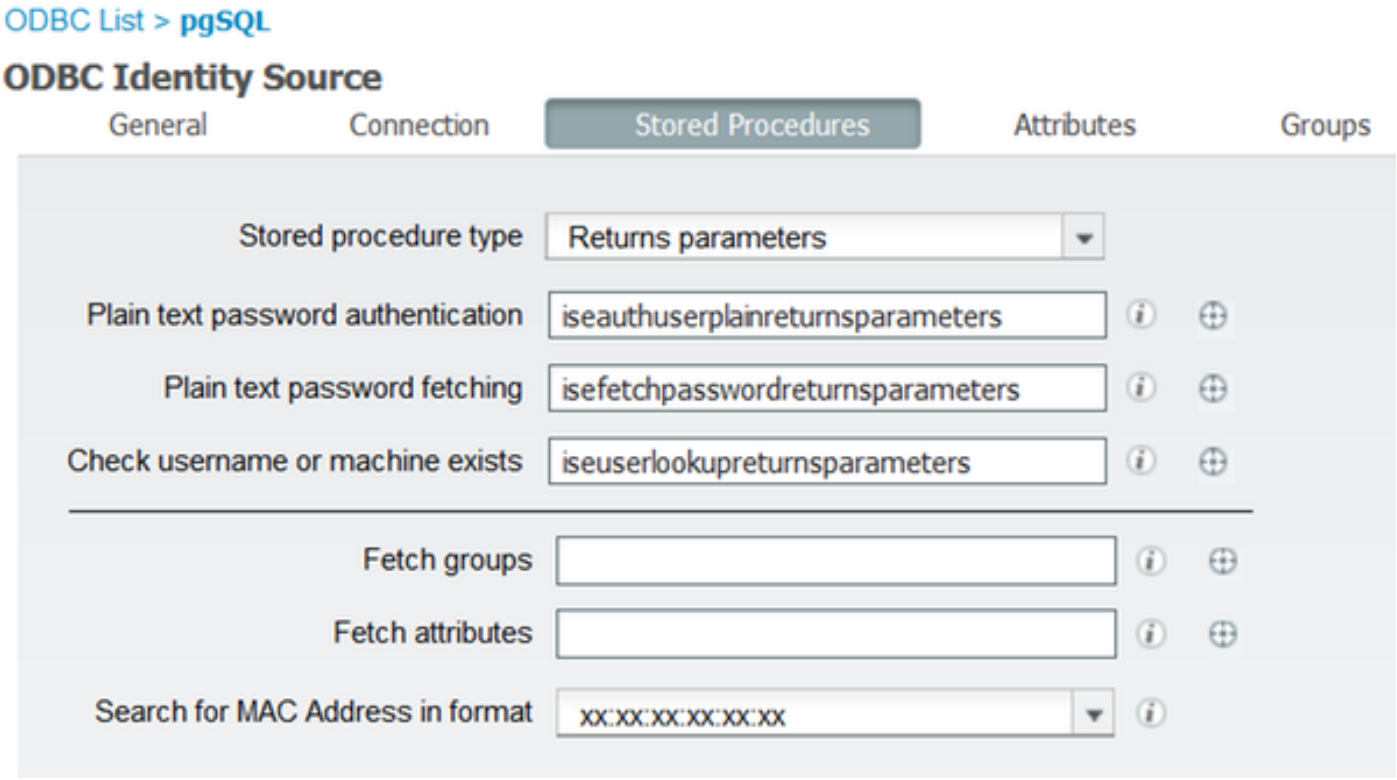

ALTER FUNCTION public.isefetchpasswordreturnsparameters(ise_username text, OUT result integer,
OUT ise_group text, OUT acctinfo text, OUT errorstring text, OUT ise_password text) OWNER TO
isedb;
```

5. Créez une procédure pour le nom d'utilisateur de contrôle ou l'ordinateur existe (utilisé pour le MAB, rapide rebranchez du PEAP, de l'EAP-FAST et de l'EAP-TTLS)

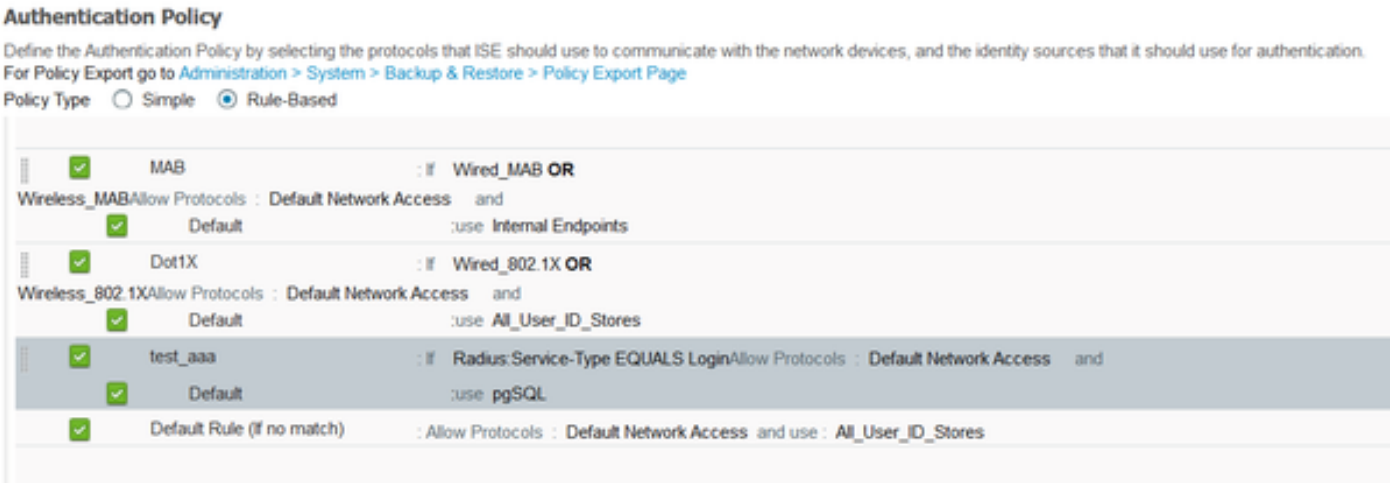
```
CREATE FUNCTION iseuserlookupreturnsparameters(ise_username text, OUT result integer, OUT
ise_group text, OUT acctinfo text, OUT errorstring text) RETURNS record
LANGUAGE plpgsql IMMUTABLE SECURITY DEFINER
AS $$
DECLARE
c int;
BEGIN
select count(*) into c from "ISE_Users" where username = ise_username;
IF c > 0 THEN
result := 0;
ise_group := cast ('11' as text);
acctinfo := cast ('good user' as text);
errorstring := cast ('no error' as text);
else
result := 3;
ise_group := cast ('11' as text);
acctinfo := cast ('bad user' as text);
errorstring := cast ('bad password' as text);
END IF;
END;
$$;


ALTER FUNCTION public.iseuserlookupreturnsparameters(ise_username text, OUT result integer, OUT
ise_group text, OUT acctinfo text, OUT errorstring text) OWNER TO isedb;
```

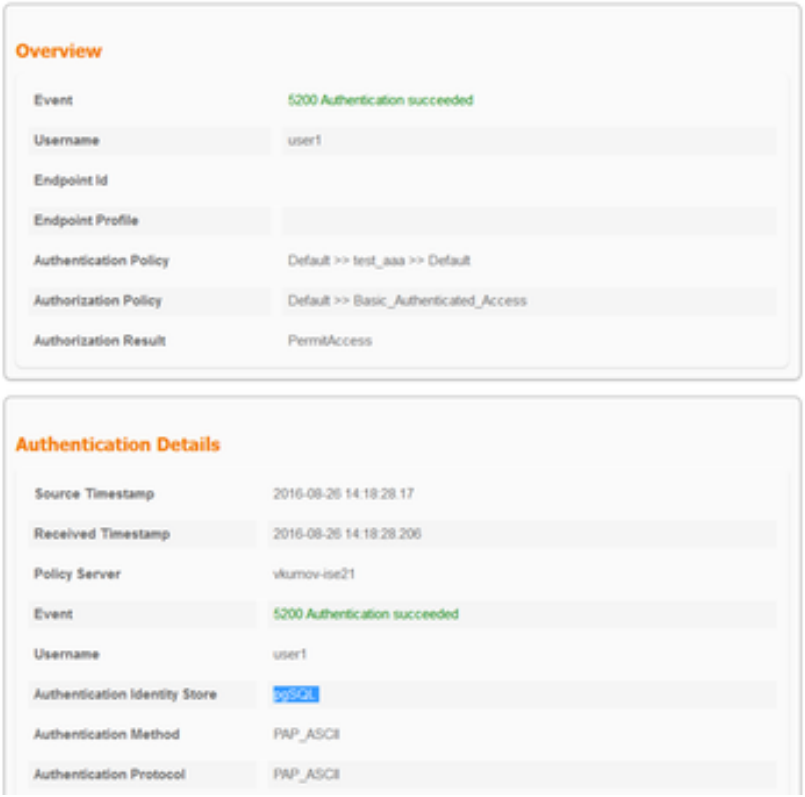
6. Configurez les procédures sur ISE et les sauvegardez



7. Créez une règle simple d'authentification utilisant ODBC et testez-la




```
BAHAMUT#test aaa group ISE user1 password1 legacy
Attempting authentication test to server-group ISE using radius
User was successfully authenticated.
```



Étape 4. Configurez la récupération de groupe

1. Créez les tables contenant des groupes d'utilisateurs et des autres utilisées pour le mappage multiple

```
CREATE TABLE "Groups" (
group_id uuid NOT NULL,
group_name character varying(255) NOT NULL,
group_description text
);

ALTER TABLE public."Groups" OWNER TO isedb;

ALTER TABLE ONLY "Groups"
ADD CONSTRAINT "Groups_pkey" PRIMARY KEY (group_id);

CREATE TABLE "User_Groups_Mapping" (
user_id uuid,
group_id uuid
);

ALTER TABLE public."User_Groups_Mapping" OWNER TO isedb;

ALTER TABLE ONLY "User_Groups_Mapping"
ADD CONSTRAINT "User_Groups_Mapping_group_id_fkey" FOREIGN KEY (group_id) REFERENCES
"Groups"(group_id) ON UPDATE CASCADE ON DELETE CASCADE;

ALTER TABLE ONLY "User_Groups_Mapping"
ADD CONSTRAINT "User_Groups_Mapping_user_id_fkey" FOREIGN KEY (user_id) REFERENCES
"ISE_Users"(user_id) ON UPDATE CASCADE ON DELETE CASCADE;
```

2. Ajoutez les groupes et les mappages, de sorte qu'user1 appartienne à deux groupes

```
INSERT INTO "Groups" VALUES ('f7dfee5c-bd06-4703-9de0-4d334ea5ec02', 'Admins', 'Group for
administrators');
INSERT INTO "Groups" VALUES ('51fc0ccd-caf8-4585-ba20-6596948c879d', 'Users', 'Group for
users');
```

```
INSERT INTO "Groups" VALUES ('7b7e72bc-ea22-470c-8578-1dd86b1a1843', 'Laptops', 'Group for users
with laptops');

INSERT INTO "User_Groups_Mapping" VALUES ('8cc4b9b9-117a-46c4-879e-d764c9685e80', 'f7dfee5c-
bd06-4703-9de0-4d334ea5ec02');
INSERT INTO "User_Groups_Mapping" VALUES ('8cc4b9b9-117a-46c4-879e-d764c9685e80', '7b7e72bc-
ea22-470c-8578-1dd86b1a1843');
```

Ou générez nouvel UUIDs, toutefois vous devrez les apprendre avec des requêtes CHOISIES.

3. Créez le type de retour et une procédure de récupération de groupe

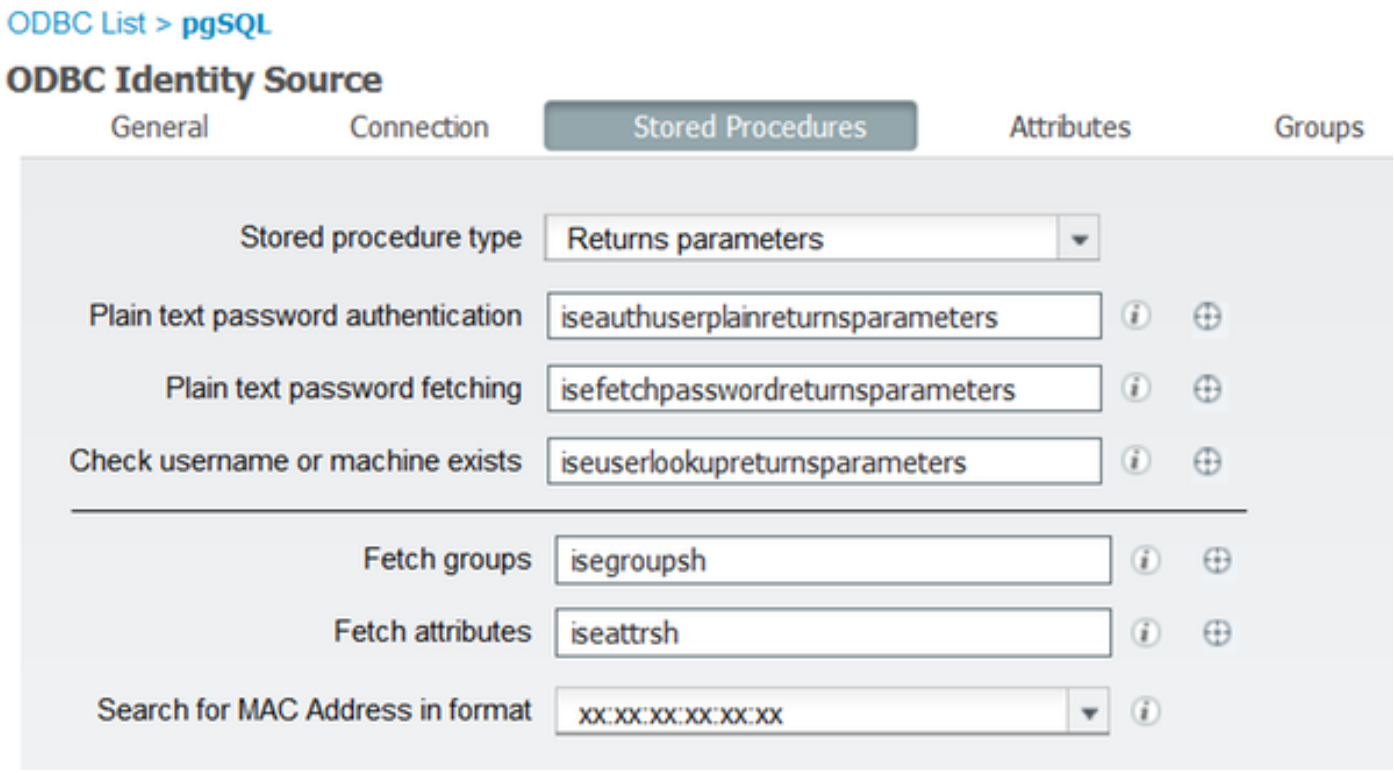
```
CREATE TYPE g4type AS (
result integer,
group_n text
);

ALTER TYPE public.g4type OWNER TO isedb;

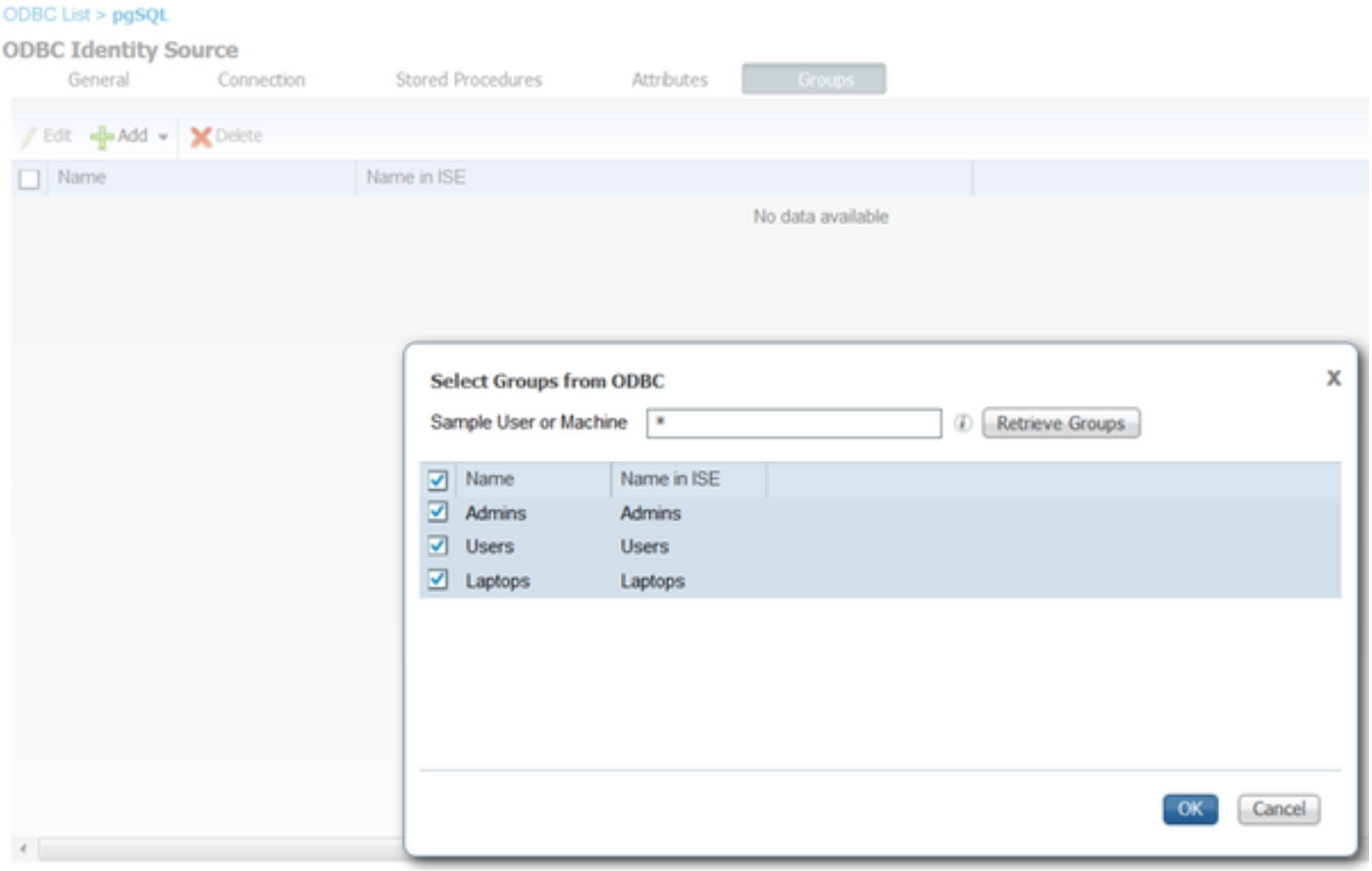
CREATE FUNCTION isegroupsh(ise_username text) RETURNS SETOF g4type
LANGUAGE plpgsql IMMUTABLE SECURITY DEFINER
AS $$
DECLARE
c int;
i int;
r g4type%rowtype;
BEGIN
if ise_username = '*' then
for r in select 0, cast(group_name as text) from "Groups"
loop
return next r;
end loop;
else
select count(*) into c from "ISE_Users" where username = ise_username;
IF c > 0 THEN
for r in select 0, cast(group_name as text) from "Groups" where group_id in (
select group_ID from "User_Groups_Mapping" where "User_Groups_Mapping".user_id IN (
select user_id from "ISE_Users" where username = ise_username
) )
loop
return next r;
end loop;
else
return query select 1,cast ('' as text);
END IF;
end if;
END;
$$;

ALTER FUNCTION public.isegroupsh(ise_username text) OWNER TO isedb;
```

4. Tracez-le pour chercher des groupes



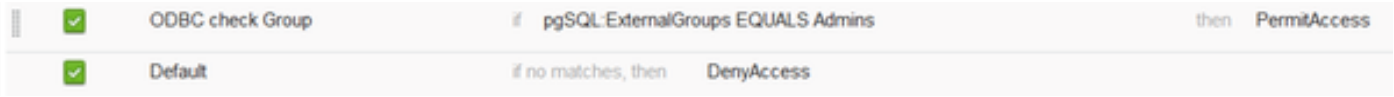
5. Cherchez les groupes et ajoutez-les dans la **source d'identité ODBC**



6. Ajoutez un autre utilisateur qui n'appartient pas à tout groupe

```
INSERT INTO "ISE_Users" VALUES ('592136bb-9c47-49ff-8eca-9adfb2016b1c', 'user2', 'password2');
```

7. Créez une **stratégie d'autorisation de** test et testez-la




```
BAHAMUT#test aaa group ISE user1 password1 legacy
Attempting authentication test to server-group ISE using radius
User was successfully authenticated.

BAHAMUT#test aaa group ISE user2 password2 legacy
Attempting authentication test to server-group ISE using radius
User authentication request was rejected by server.
```

SelectedAuthenticationIdentityStores	pgSQL
AuthorizationPolicyMatchedRule	ODBC check Group
CPMSessionID	0a301a321uM9iabemtwC3JmOxM0PEPNRCy44aEudtrNg2ajmJGg
ISEPolicySetName	Default
AllowedProtocolMatchedRule	test_aaa
IdentitySelectionMatchedRule	Default
Network Device Profile	Cisco
Location	Location#All Locations
Device Type	Device Type#All Device Types
ExternalGroups	Admins
ExternalGroups	Laptops
RADIUS Username	user1

Étape 5. Configurez la récupération d'attributs

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

```
CREATE TABLE "User_Attributes" (
user_id uuid,
attribute_name character varying(255),
attribute_value character varying(255)
);

ALTER TABLE public."User_Attributes" OWNER TO isedb;

ALTER TABLE ONLY "User_Attributes"
ADD CONSTRAINT "User_Attributes_user_id_fkey" FOREIGN KEY (user_id) REFERENCES
"ISE_Users"(user_id) ON UPDATE CASCADE ON DELETE CASCADE;
```

2. Créez un attribut pour chacun des deux utilisateurs

```
INSERT INTO "User_Attributes" VALUES ('8cc4b9b9-117a-46c4-879e-d764c9685e80', 'SecurityLevel',
'10');
```

```
INSERT INTO "User_Attributes" VALUES ('592136bb-9c47-49ff-8eca-9adfb2016b1c', 'SecurityLevel',
'5');
INSERT INTO "User_Attributes" VALUES ('592136bb-9c47-49ff-8eca-9adfb2016b1c', 'IdleTimeout',
'5');
```

3. Créez un **type de retour** et une **procédure stockée**

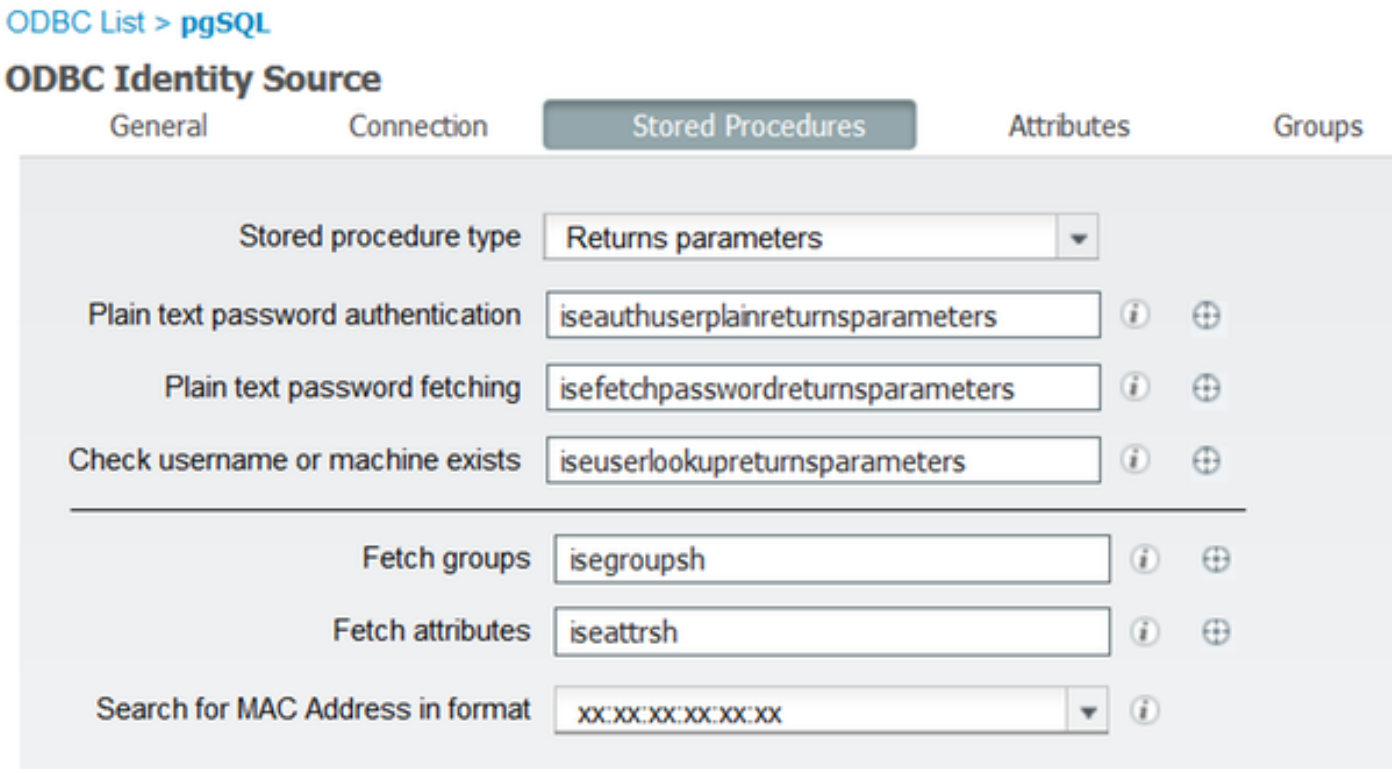
```
CREATE TYPE a4type AS (
result integer,
attr_name text,
attr_value text
);

ALTER TYPE public.a4type OWNER TO isedb;

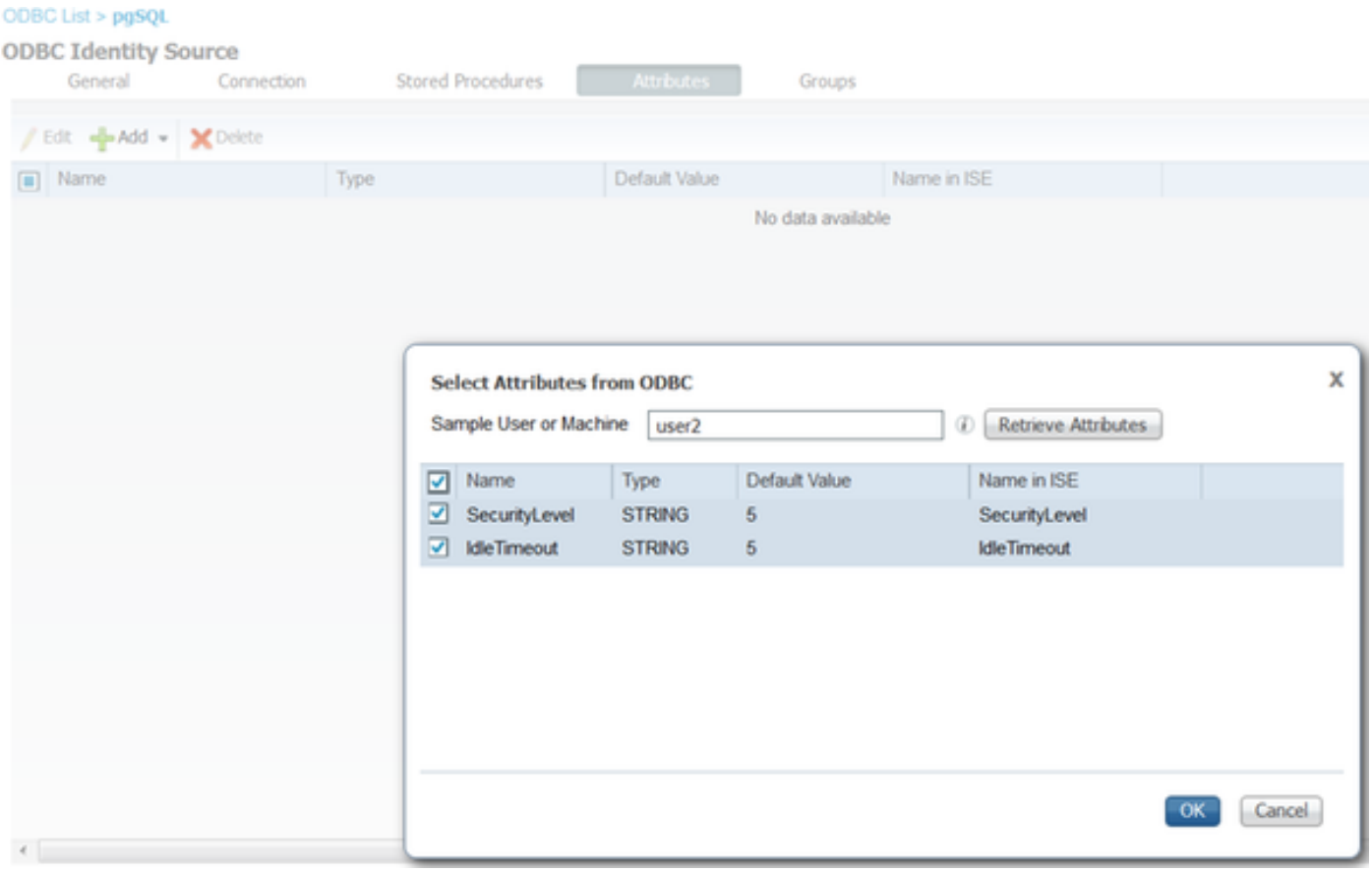
CREATE FUNCTION iseattrsh(ise_username text) RETURNS SETOF a4type
LANGUAGE plpgsql IMMUTABLE SECURITY DEFINER
AS $$
DECLARE
c int;
r a4type%rowtype;
BEGIN
select count(*) into c from "ISE_Users" where username = ise_username;
IF c > 0 THEN
for r in select 0, cast(s.attribute_name as text), cast(s.attribute_value as text) from
"User_Attributes" as s where user_id in(SELECT user_id from "ISE_Users" where username =
ise_username)
loop
return next r;
end loop;
else
return query select 1, cast ('' as text);
END IF;
END;
$$;

ALTER FUNCTION public.iseattrsh(ise_username text) OWNER TO isedb;
```

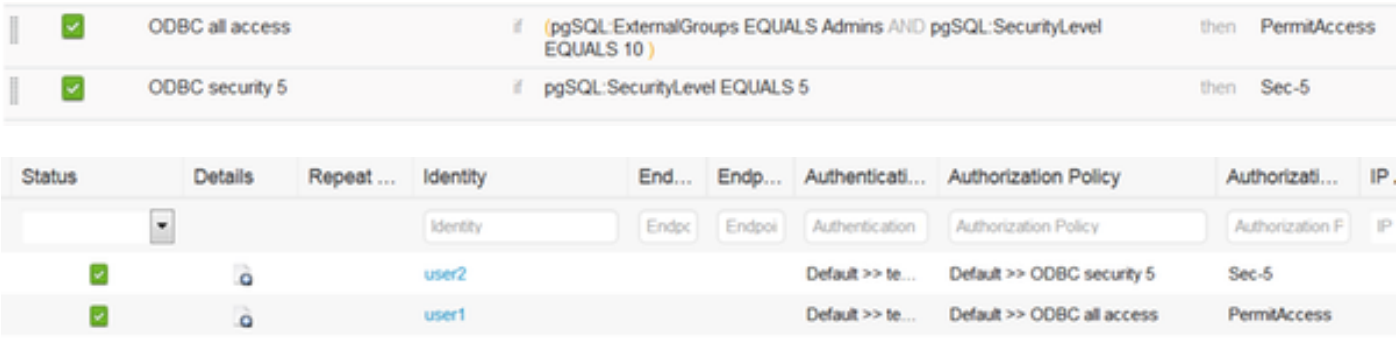
4. Tracez-le **pour chercher des attributs**



5. Cherchez les attributs



6. Ajustez les stratégies ISE et testez-les



Vérifiez

Vous devriez maintenant pouvoir authentifier des utilisateurs contre ODBC et récupérer leurs groupes et attributs.

Exemple :

Dépannez

Si la connexion n'est pas réussie sur la **queue de prrt-management.log d'application de show logging de** commande d'utilisation ISE tout en tentant de se connecter.

Exemple des qualifications fausses :

```
2016-08-28 13:55:47,017 WARN [admin-http-pool1372][] cisco.cpm.odbcidstore.impl.PostgresDbAccess
-:admin::- Connection to ODBC DB failed. Exception: org.postgresql.util.PSQLException: FATAL:
password authentication failed for u
```

```
ser "isedb_wrong"
org.postgresql.util.PSQLException: FATAL: password authentication failed for user "isedb_wrong"
at org.postgresql.Driver$ConnectThread.getResult(Driver.java:365)
at org.postgresql.Driver.connect(Driver.java:288)
at java.sql.DriverManager.getConnection(DriverManager.java:664)
at java.sql.DriverManager.getConnection(DriverManager.java:208)
at com.cisco.cpm.odbcidstore.impl.PostgresDbAccess.connect(PostgresDbAccess.java:46)
at com.cisco.cpm.odbcidstore.impl.OdbcConnection.connect(OdbcConnection.java:72)
at com.cisco.cpm.odbcidstore.impl.OdbcIdStore.performTest(OdbcIdStore.java:377)
at
com.cisco.cpm.odbcidstore.impl.OdbcIdStore.testConnectionAndConfiguration(OdbcIdStore.java:469)
at
com.cisco.cpm.odbcidstore.impl.OdbcIdStoreManager.testConnectionAndConfiguration(OdbcIdStoreMana
ger.java:84)
at com.cisco.cpm.admin.ac.actions.ODBCLPInputAction.testConnection(ODBCLPInputAction.java:749)
```

Exemple du nom faux de DB :

```
2016-08-28 13:53:43,174 WARN [admin-http-pool1372][] cisco.cpm.odbcidstore.impl.PostgresDbAccess
-:admin::- Connection to ODBC DB failed. Exception: org.postgresql.util.PSQLException: FATAL:
database "isedb_wrong" does not exis
t
org.postgresql.util.PSQLException: FATAL: database "isedb_wrong" does not exist
at org.postgresql.Driver$ConnectThread.getResult(Driver.java:365)
at org.postgresql.Driver.connect(Driver.java:288)
at java.sql.DriverManager.getConnection(DriverManager.java:664)
at java.sql.DriverManager.getConnection(DriverManager.java:208)
at com.cisco.cpm.odbcidstore.impl.PostgresDbAccess.connect(PostgresDbAccess.java:46)
at com.cisco.cpm.odbcidstore.impl.OdbcConnection.connect(OdbcConnection.java:72)
at com.cisco.cpm.odbcidstore.impl.OdbcIdStore.performTest(OdbcIdStore.java:377)
at
com.cisco.cpm.odbcidstore.impl.OdbcIdStore.testConnectionAndConfiguration(OdbcIdStore.java:469)
at
com.cisco.cpm.odbcidstore.impl.OdbcIdStoreManager.testConnectionAndConfiguration(OdbcIdStoreMana
ger.java:84)
at com.cisco.cpm.admin.ac.actions.ODBCLPInputAction.testConnection(ODBCLPInputAction.java:749)
```

Afin de dépanner des exécutions de DB, enable se connectant l'odbc-id-**mémoire de** composants POUR DÉBUGGER de niveau sous la **gestion > le système > se connectant > configuration de log de debug**.

Des logs sont placés dans le fichier de **prrt-management.log**.

Exemple pour **user1** :

```
2016-08-28 14:01:01,116 DEBUG [Thread-26349][] cisco.cpm.odbcidstore.impl.OdbcIdStore -:::- ODBC
ID Store Operation: Authenticate Plain Text Password. Username=user1,
SessionID=0a301a32OuqzqoKTrY02KoCjdWN6PlZtBX1/vhDXxN9nQTBFM8g
2016-08-28 14:01:01,118 DEBUG [Thread-26349][] cisco.cpm.odbcidstore.impl.CustomerLog -:::-
Write customer log message: 24852
2016-08-28 14:01:01,119 DEBUG [Thread-26349][] cisco.cpm.odbcidstore.impl.OdbcConnectionPool -
:::- OdbcConnectionPool - get connection
2016-08-28 14:01:01,119 DEBUG [Thread-26349][] cisco.cpm.odbcidstore.impl.OdbcConnectionPool -
:::- OdbcConnectionPool - use existing connection
2016-08-28 14:01:01,119 DEBUG [Thread-26349][] cisco.cpm.odbcidstore.impl.OdbcConnectionPool -
:::- OdbcConnectionPool - connections in use: 1
2016-08-28 14:01:01,119 DEBUG [Thread-26349][] cisco.cpm.odbcidstore.impl.OdbcConnection -:::-
Authenticate plain text password
2016-08-28 14:01:01,119 DEBUG [Thread-26349][] cisco.cpm.odbcidstore.impl.OdbcConnection -:::-
Prepare stored procedure call, procname=iseauthuserplainreturnsparameters
2016-08-28 14:01:01,119 DEBUG [Thread-26349][] cisco.cpm.odbcidstore.impl.OdbcConnection -:::-
```

Using output parameters to obtain stored procedure result values
2016-08-28 14:01:01,119 DEBUG [Thread-26349][] cisco.cpm.odbcidstore.impl.CustomerLog -:::-
Write customer log message: 24856
2016-08-28 14:01:01,119 DEBUG [Thread-26349][] cisco.cpm.odbcidstore.impl.OdbcConnection -:::-
Text: {call iseauthuserplainreturnsparameters(?, ?, ?, ?, ?, ?)}
2016-08-28 14:01:01,119 DEBUG [Thread-26349][] cisco.cpm.odbcidstore.impl.OdbcConnection -:::-
Setup stored procedure input parameters, username=user1, password=***
2016-08-28 14:01:01,119 DEBUG [Thread-26349][] cisco.cpm.odbcidstore.impl.OdbcConnection -:::-
Setup stored procedure output parameters
2016-08-28 14:01:01,119 DEBUG [Thread-26349][] cisco.cpm.odbcidstore.impl.OdbcConnection -:::-
Execute stored procedure call
2016-08-28 14:01:01,121 DEBUG [Thread-26349][] cisco.cpm.odbcidstore.impl.OdbcConnection -:::-
Process stored procedure results
2016-08-28 14:01:01,121 DEBUG [Thread-26349][] cisco.cpm.odbcidstore.impl.OdbcConnection -:::-
Obtain stored procedure results from output parameters
2016-08-28 14:01:01,121 DEBUG [Thread-26349][] cisco.cpm.odbcidstore.impl.OdbcConnection -:::-
Results successfully parsed from output parameters
2016-08-28 14:01:01,121 DEBUG [Thread-26349][] cisco.cpm.odbcidstore.impl.OdbcConnectionPool -
:::- OdbcConnectionPool - release connection
2016-08-28 14:01:01,121 DEBUG [Thread-26349][] cisco.cpm.odbcidstore.impl.OdbcConnectionPool -
:::- OdbcConnectionPool - connections in use: 0
2016-08-28 14:01:01,121 DEBUG [Thread-26349][] cisco.cpm.odbcidstore.impl.OdbcIdStore -:::- Call
to ODBC DB succeeded
2016-08-28 14:01:01,121 DEBUG [Thread-26349][] cisco.cpm.odbcidstore.impl.OdbcAuthResult -:::-
Authentication result: code=0, Conection succeeded=false, odbcDbErrorString=No error,
odbcStoredProcedureCustomerErrorString=null, ac
countInfo=This is a very good user, give him all access, group=11
2016-08-28 14:01:01,121 DEBUG [Thread-26349][] cisco.cpm.odbcidstore.impl.CustomerLog -:::-
Write customer log message: 24853
2016-08-28 14:01:01,129 DEBUG [Thread-3076][] cisco.cpm.odbcidstore.impl.OdbcIdStore -:::- ODBC
ID Store Operation: **Get all user groups**. Username=**user1**,
SessionID=0a301a32OuqzqoKTrY02KoCjdWN6PlZtBX1/vhDXxN9nQTBFM8g
2016-08-28 14:01:01,131 DEBUG [Thread-3076][] cisco.cpm.odbcidstore.impl.OdbcIdStore -:::- ODBC
ID Store Operation: **Fetch user groups**. Username=**user1**,
SessionID=0a301a32OuqzqoKTrY02KoCjdWN6PlZtBX1/vhDXxN9nQTBFM8g
2016-08-28 14:01:01,131 DEBUG [Thread-3076][] cisco.cpm.odbcidstore.impl.CustomerLog -:::- Write
customer log message: 24869
2016-08-28 14:01:01,132 DEBUG [Thread-3076][] cisco.cpm.odbcidstore.impl.OdbcConnectionPool -
:::- OdbcConnectionPool - get connection
2016-08-28 14:01:01,132 DEBUG [Thread-3076][] cisco.cpm.odbcidstore.impl.OdbcConnectionPool -
:::- OdbcConnectionPool - use existing connection
2016-08-28 14:01:01,132 DEBUG [Thread-3076][] cisco.cpm.odbcidstore.impl.OdbcConnectionPool -
:::- OdbcConnectionPool - connections in use: 1
2016-08-28 14:01:01,132 DEBUG [Thread-3076][] cisco.cpm.odbcidstore.impl.OdbcConnection -:::-
Fetch user groups
2016-08-28 14:01:01,132 DEBUG [Thread-3076][] cisco.cpm.odbcidstore.impl.OdbcConnection -:::-
Prepare stored procedure call, procname=**isegroupsh**
2016-08-28 14:01:01,132 DEBUG [Thread-3076][] cisco.cpm.odbcidstore.impl.OdbcConnection -:::-
Text: {call isegroupsh(?)}
2016-08-28 14:01:01,132 DEBUG [Thread-3076][] cisco.cpm.odbcidstore.impl.OdbcConnection -:::-
Setup stored procedure input parameters, username=user1
2016-08-28 14:01:01,132 DEBUG [Thread-3076][] cisco.cpm.odbcidstore.impl.OdbcConnection -:::-
Execute stored procedure call
2016-08-28 14:01:01,134 DEBUG [Thread-3076][] cisco.cpm.odbcidstore.impl.OdbcConnection -:::-
Process stored procedure results
2016-08-28 14:01:01,135 DEBUG [Thread-3076][] cisco.cpm.odbcidstore.impl.OdbcConnection -:::-
Received result recordset, total number of columns=2
2016-08-28 14:01:01,135 DEBUG [Thread-3076][] cisco.cpm.odbcidstore.impl.OdbcConnection -:::-
POSTGRES case, first column holds the result param value
2016-08-28 14:01:01,135 DEBUG [Thread-3076][] cisco.cpm.odbcidstore.impl.OdbcConnection -:::-
According to column number expect multiple rows (vertical attributes/groups retured result)
2016-08-28 14:01:01,135 DEBUG [Thread-3076][] cisco.cpm.odbcidstore.impl.OdbcConnection -:::-
Fetched data: **ExternalGroup=Admins**
2016-08-28 14:01:01,135 DEBUG [Thread-3076][] cisco.cpm.odbcidstore.impl.OdbcConnection -:::-

Fetched data: **ExternalGroup=Laptops**
2016-08-28 14:01:01,135 DEBUG [Thread-3076][] cisco.cpm.odbcidstore.impl.OdbcConnection -:::-
Results successfully parsed from recordset
2016-08-28 14:01:01,135 DEBUG [Thread-3076][] cisco.cpm.odbcidstore.impl.OdbcConnection -:::-
Result code indicates success
2016-08-28 14:01:01,135 DEBUG [Thread-3076][] cisco.cpm.odbcidstore.impl.OdbcConnectionPool -
:::- OdbcConnectionPool - release connection
2016-08-28 14:01:01,135 DEBUG [Thread-3076][] cisco.cpm.odbcidstore.impl.OdbcConnectionPool -
:::- OdbcConnectionPool - connections in use: 0
2016-08-28 14:01:01,135 DEBUG [Thread-3076][] cisco.cpm.odbcidstore.impl.OdbcIdStore -:::- Call
to ODBC DB succeeded
2016-08-28 14:01:01,135 DEBUG [Thread-3076][] cisco.cpm.odbcidstore.impl.CustomerLog -:::- Write
customer log message: 24870
2016-08-28 14:01:01,135 DEBUG [Thread-3076][] cisco.cpm.odbcidstore.impl.OdbcIdStore -:::- ODBC
ID Store Operation: Get all user groups. Got groups...
2016-08-28 14:01:01,135 DEBUG [Thread-3076][] cisco.cpm.odbcidstore.impl.OdbcIdStore -:::- ODBC
ID Store Operation: Get all user groups. Got groups(0) = Admins
2016-08-28 14:01:01,135 DEBUG [Thread-3076][] cisco.cpm.odbcidstore.impl.OdbcIdStore -:::- ODBC
ID Store Operation: Get all user groups. Setting Internal groups(0) = Admins
2016-08-28 14:01:01,135 DEBUG [Thread-3076][] cisco.cpm.odbcidstore.impl.OdbcIdStore -:::- ODBC
ID Store Operation: Get all user groups. Got groups(1) = Laptops
2016-08-28 14:01:01,135 DEBUG [Thread-3076][] cisco.cpm.odbcidstore.impl.OdbcIdStore -:::- ODBC
ID Store Operation: Get all user groups. Setting Internal groups(1) = Laptops
2016-08-28 14:01:01,135 DEBUG [Thread-3076][] cisco.cpm.odbcidstore.impl.OdbcIdStore -:::- ODBC
ID Store Operation: Get all user groups. Username=user1, ExternalGroups=[Admins, Laptops]
2016-08-28 14:01:01,135 DEBUG [Thread-3076][] cisco.cpm.odbcidstore.impl.OdbcIdStore -:::- ODBC
ID Store Operation: **Fetch user attributes**. Username=**user1**,
SessionID=0a301a32OuqzqoKTrY02KoCjdWN6PlZtBX1/vhDXxN9nQTBFM8g
2016-08-28 14:01:01,135 DEBUG [Thread-3076][] cisco.cpm.odbcidstore.impl.CustomerLog -:::- Write
customer log message: 24872
2016-08-28 14:01:01,135 DEBUG [Thread-3076][] cisco.cpm.odbcidstore.impl.OdbcConnectionPool -
:::- OdbcConnectionPool - get connection
2016-08-28 14:01:01,135 DEBUG [Thread-3076][] cisco.cpm.odbcidstore.impl.OdbcConnectionPool -
:::- OdbcConnectionPool - use existing connection
2016-08-28 14:01:01,135 DEBUG [Thread-3076][] cisco.cpm.odbcidstore.impl.OdbcConnectionPool -
:::- OdbcConnectionPool - connections in use: 1
2016-08-28 14:01:01,135 DEBUG [Thread-3076][] cisco.cpm.odbcidstore.impl.OdbcConnection -:::-
Fetch user attributes
2016-08-28 14:01:01,135 DEBUG [Thread-3076][] cisco.cpm.odbcidstore.impl.OdbcConnection -:::-
Prepare stored procedure call, procname=**iseattrsh**
2016-08-28 14:01:01,135 DEBUG [Thread-3076][] cisco.cpm.odbcidstore.impl.OdbcConnection -:::-
Text: {call iseattrsh(?)}
2016-08-28 14:01:01,135 DEBUG [Thread-3076][] cisco.cpm.odbcidstore.impl.OdbcConnection -:::-
Setup stored procedure input parameters, username=user1
2016-08-28 14:01:01,135 DEBUG [Thread-3076][] cisco.cpm.odbcidstore.impl.OdbcConnection -:::-
Execute stored procedure call
2016-08-28 14:01:01,140 DEBUG [Thread-3076][] cisco.cpm.odbcidstore.impl.OdbcConnection -:::-
Process stored procedure results
2016-08-28 14:01:01,140 DEBUG [Thread-3076][] cisco.cpm.odbcidstore.impl.OdbcConnection -:::-
Received result recordset, total number of columns=3
2016-08-28 14:01:01,140 DEBUG [Thread-3076][] cisco.cpm.odbcidstore.impl.OdbcConnection -:::-
POSTGRES case, first column holds the result param value
2016-08-28 14:01:01,140 DEBUG [Thread-3076][] cisco.cpm.odbcidstore.impl.OdbcConnection -:::-
According to column number expect multiple rows (vertical attributes/groups retured result)
2016-08-28 14:01:01,140 DEBUG [Thread-3076][] cisco.cpm.odbcidstore.impl.OdbcConnection -:::-
Fetched data: SecurityLevel=10
2016-08-28 14:01:01,140 DEBUG [Thread-3076][] cisco.cpm.odbcidstore.impl.OdbcConnection -:::-
Results successfully parsed from recordset
2016-08-28 14:01:01,140 DEBUG [Thread-3076][] cisco.cpm.odbcidstore.impl.OdbcConnection -:::-
Result code indicates success
2016-08-28 14:01:01,140 DEBUG [Thread-3076][] cisco.cpm.odbcidstore.impl.OdbcConnectionPool -
:::- OdbcConnectionPool - release connection
2016-08-28 14:01:01,140 DEBUG [Thread-3076][] cisco.cpm.odbcidstore.impl.OdbcConnectionPool -
:::- OdbcConnectionPool - connections in use: 0

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2016-08-28 14:01:01,140 DEBUG [Thread-3076][] cisco.cpm.odbcidstore.impl.OdbcIdStore -:::- Call
to ODBC DB succeeded
2016-08-28 14:01:01,140 DEBUG [Thread-3076][] cisco.cpm.odbcidstore.impl.CustomerLog -:::- Write
customer log message: 24873
2016-08-28 14:01:01,141 DEBUG [Thread-3076][] cisco.cpm.odbcidstore.impl.OdbcIdStore -:::- ODBC
ID Store Operation: Get all user attrs. Username=user1, Setting pgSQL.SecurityLevel to 10
2016-08-28 14:01:01,141 DEBUG [Thread-3076][] cisco.cpm.odbcidstore.impl.OdbcIdStore -:::- ODBC
ID Store Operation: Get all user attrs. Username=user1, Setting IdleTimeout to default value : 5
2016-08-28 14:01:01,141 DEBUG [Thread-3076][] cisco.cpm.odbcidstore.impl.OdbcIdStore -:::- ODBC
ID Store Operation: Get all user attrs. Username=user1, Setting pgSQL.IdleTimeout to 5
```

Références

- Guide d'administration du Logiciel Cisco Identity Services Engine 2.1 - Configuration ODBC
- Configurez ISE 2.1 avec le MS SQL utilisant ODBC
- PostgreSQL : Documentation