

ISE 2.1 configureren met MS SQL met ODBC

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Inleiding

Dit document beschrijft hoe u Identity Services Engine (ISE) kunt configureren met de Microsoft Standard Query Language (SQL) Server voor ISE-verificatie met Open Database Connectivity (ODBC)

Opmerking: Voor Open Database Connectivity (ODBC)-verificatie moet ISE een eenvoudig wachtwoord voor tekstgebruikers kunnen genereren. Het wachtwoord kan in de database worden versleuteld, maar moet worden gedecrypteerd door de **opgeslagen procedure**.

Voorwaarden

Vereisten

Cisco raadt kennis van de volgende onderwerpen aan:

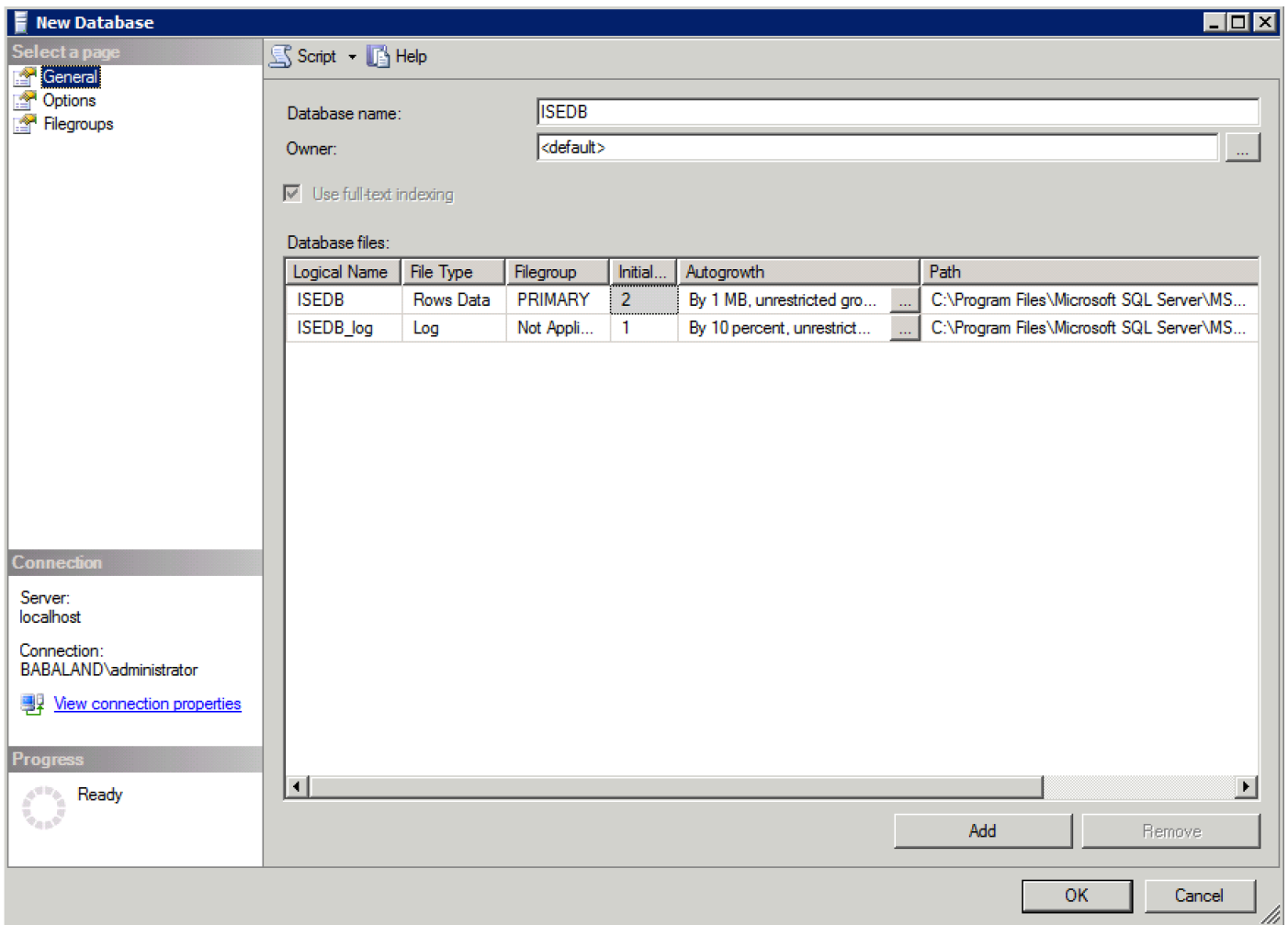
- Database- en ODBC-concepten
- Microsoft SQL-server

Gebruikte componenten

De informatie in dit document is gebaseerd op de volgende software- en hardware-versies:

- Identity Services Engine 2.1
- MSSQL Server 2008 R2

Configureren



3. Maak een gebruiker en stel rechten in zoals in de onderstaande afbeeldingen wordt getoond:

Microsoft SQL Server Management Studio

File Edit View Debug Tools Window Community

New Query [Icons]

Object Explorer

Connect [Icons]

- [-] localhost (SQL Server 10.50.1600 - BABALAND\ad
 - [+] Databases
 - [-] Security
 - [-] Logins
 - [+] New Login...
 - [+] Filter
 - [+] Start PowerShell
 - [+] Reports
 - [+] Refresh
 - [+] Servers
 - [+] Credentials

Login - New [Minimize] [Maximize] [Close]

Select a page

- General
- Server Roles
- User Mapping
- Securables
- Status

Script Help

Login name: Search...

Windows authentication

SQL Server authentication

Password:

Confirm password:

Specify old password

Old password:

Enforce password policy

Enforce password expiration

User must change password at next login

Mapped to certificate

Mapped to asymmetric key

Map to Credential Add

Mapped Credentials

| Credential | Provider |
|------------|----------|
| | |

Remove

Default database:

Default language:

OK Cancel

Connection

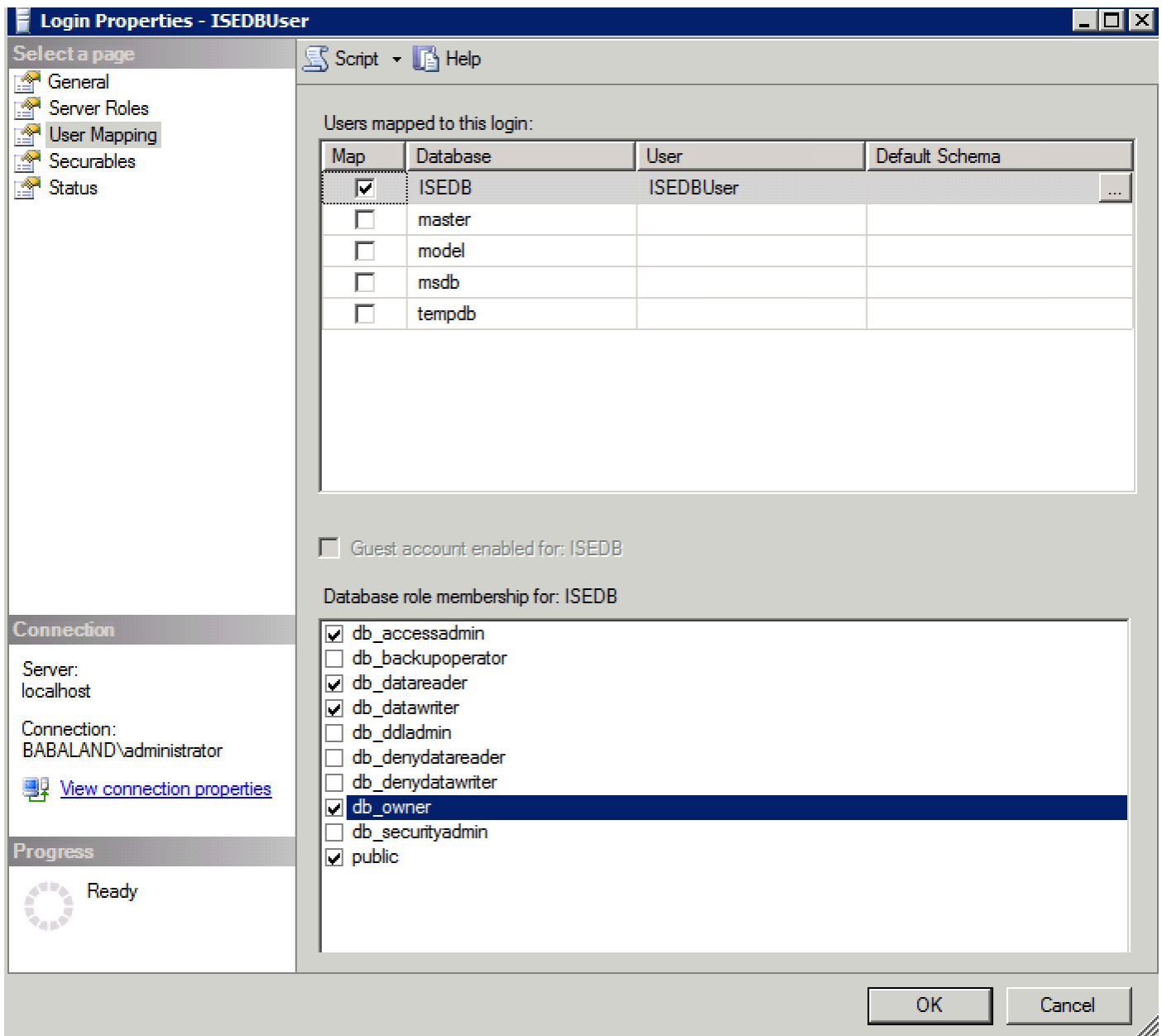
Server: localhost

Connection: BABALAND\administrator

[View connection properties](#)

Progress

Ready



Stap 2. ISE-basisconfiguratie

Maak een ODBC Identity Source bij Administration > Externe Identity Source > ODBC en testverbinding:

ODBC Identity Source

General

Connection

Stored Procedures

Attributes

Groups

ODBC DB connection details

* Hostname/IP[:port]

* Database name

Admin username ⓘ

Admin password

* Timeout

* Retries

* Database type

Test Connection

Test connection

Connection succeeded

Stored Procedures

⚠ Plain text password authentication - Not Configured

⚠ Plain text password fetching - Not Configured

⚠ Check username or machine exists - Not Configured

⚠ Fetch groups - Not Configured

⚠ Fetch attributes - Not Configured

Close

Stap 3. Gebruikersverificatie configureren

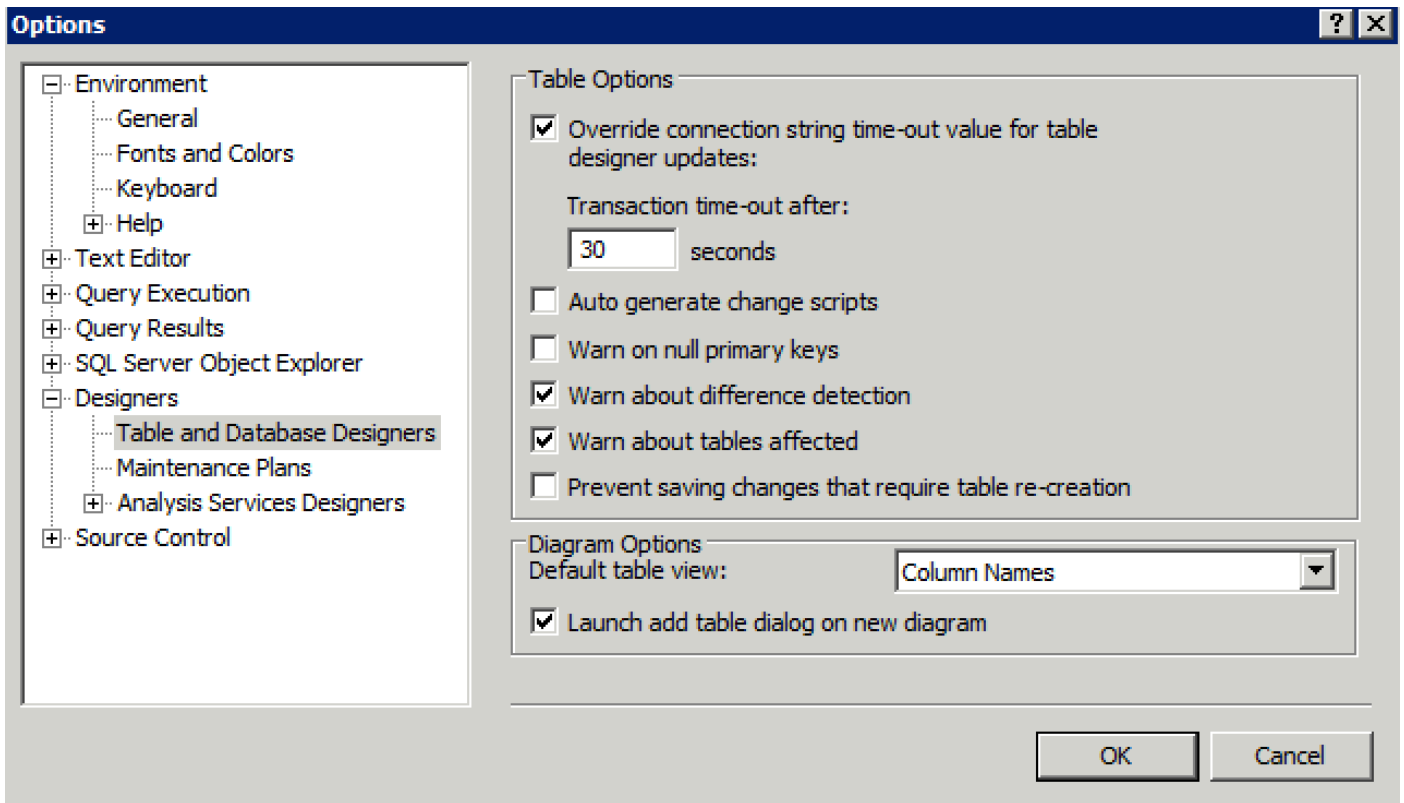
ISE-verificatie naar ODBC gebruikt opgeslagen procedures. De opgeslagen procedure voor de authenticatie **resultaten** met deze syntax:

| Waarde | Type |
|---|-------------------------|
| Resultaat | integrator |
| Groep (alleen voor compatibiliteit met ACS 4.2) | Integer of varchar(255) |
| Accountinformatie | varchar(255) |
| Fout-string | varchar(255) |

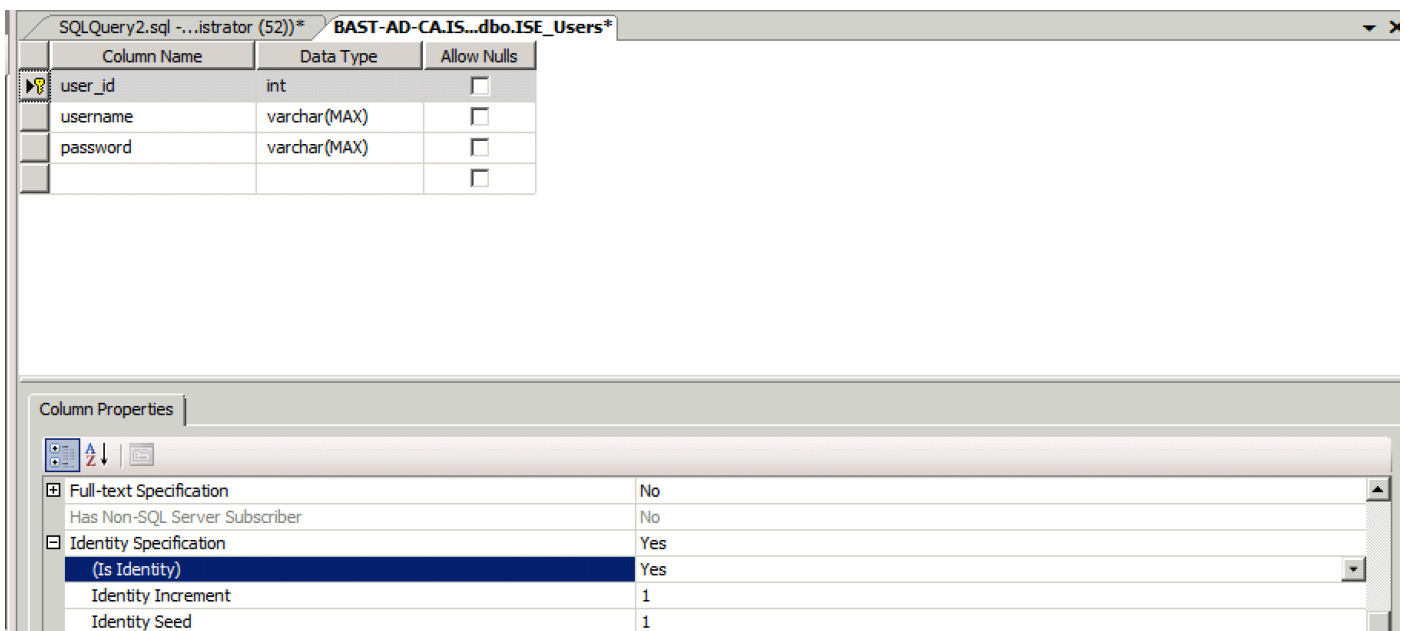
Raadpleeg voor andere procedures de [beheerdershandleiding voor Cisco Identity Services Engine 2.1](#)

Tip: Het is mogelijk om genoemde parameters terug te geven in plaats van de resultaatset. Het is gewoon een ander type output, functionaliteit is hetzelfde.

1. Navigeren in naar opties en uit de **machine** halen om wijziging in opslagruimte voor tabellen opnieuw genereren (optioneel):



2. Maak de tabel. Stel de instellingen voor de identiteit in op de **primaire toets**. Als u **user_id** als **primaire sleutel** wilt instellen, klikt u met de rechtermuisknop op de **kolom naam**:



Laatste SQL:

```
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. Start deze query om één gebruiker in te voegen:

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

4. Maak een procedure voor eenvoudige tekstwachtwoordverificatie (gebruikt voor PAP, EAP-GTC binnenmethode, 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. Maak een procedure voor het opvragen van een gewoon tekstwachtwoord (gebruikt voor CHAP, MSCHAPv1/v2, EAP-MD5, LEAP, EAP-MSCHAPv2 binnenmethode, TACACS):

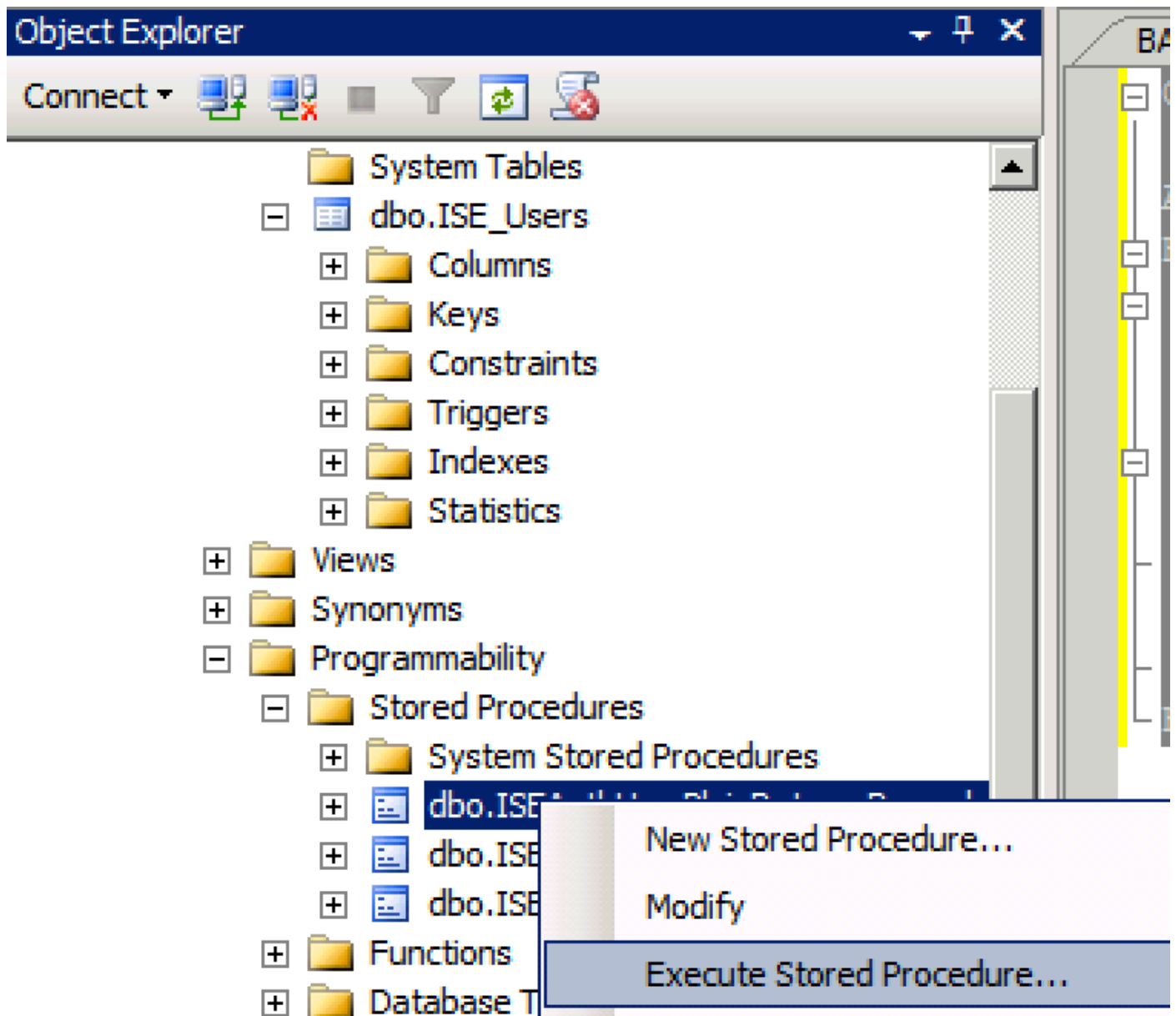
```
CREATE PROCEDURE [dbo].[ISEFetchPasswordReturnsRecordset]
@username varchar(255)
AS
BEGIN
IF EXISTS( SELECT username
FROM ISE_Users
WHERE username = @username)
SELECT 0,11,'This is a very good user, give him all access','No Error',password
FROM ISE_Users
WHERE username = @username
ELSE
SELECT 3,0,'odbc','ODBC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

6. Er bestaat een procedure voor controle van de gebruikersnaam of -machine (gebruikt voor MAB, snelle heraansluiting van PEAP, EAP-FAST en EAP-TTLS):

```
CREATE PROCEDURE [dbo].[ISEUserLookupReturnsRecordset]
@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'
FROM ISE_Users
WHERE username = @username
ELSE
SELECT 3,0,'odbc','ODBC Authen Error'
END
```

7. Testprocedures:



Execute Procedure - [dbo].[ISEAuthUserPlainReturnsRecordset]

Select a page: General

Script Help

| Parameter | Data Type | Output Parameter | Pass Null Value | Value |
|-----------|--------------|------------------|--------------------------|-----------|
| @username | varchar(255) | No | <input type="checkbox"/> | odbcuser1 |
| @password | varchar(255) | No | <input type="checkbox"/> | odbcpass |

Connection

Server: localhost

Connection: BABALAND\administrator

[View connection properties](#)

Progress

Ready

OK Cancel

SQLQuery5.sql -...inistrator (57)) BAST-AD-CA.IS...dbo.ISE_Users SQLQuery2.sql -...istrator (52))* BAST-AD-CA.IS...dbo.ISE_Users

```

USE [ISEDB]
GO

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) | (No column name) |
|---|------------------|------------------|---|------------------|
| 1 | 0 | 11 | This is a very good user, give him all access | No Error |

Andere procedures op dezelfde manier testen.

8. Procedures op ISE configureren en opslaan:

[ODBC List](#) > **ISE_ODBC**

ODBC Identity Source

| General | Connection | Stored Procedures | Attributes | Groups |
|------------------------------------|----------------------------------|-------------------|------------|--------|
| Stored procedure type | | Returns recordset | | |
| Plain text password authentication | ISEAuthUserPlainReturnsRecordset | | | |
| Plain text password fetching | ISEFetchPasswordReturnsRecordset | | | |
| Check username or machine exists | ISEUserLookupReturnsRecordset | | | |
| Fetch groups | | | | |
| Fetch attributes | | | | |
| Search for MAC Address in format | xx-xx-xx-xx-xx-xx | | | |

9. Maak een eenvoudige authenticatieregel met ODBC en test deze:

| Authentication Policy | | | | |
|-------------------------------------|----------|---------------------------------------|--|--------------------------|
| <input checked="" type="checkbox"/> | MAB | : If Wired_MAB OR Wireless_MAB | Allow Protocols : Default Network Access | and Edit |
| <input checked="" type="checkbox"/> | Default | :use Internal Endpoints | | |
| <input checked="" type="checkbox"/> | Dot1X | : If Wired_802.1X OR Wireless_802.1X | Allow Protocols : Default Network Access | and Edit |
| <input checked="" type="checkbox"/> | Default | :use All_User_ID_Stores | | |
| <input checked="" type="checkbox"/> | test_aaa | : If Radius:Service-Type EQUALS Login | Allow Protocols : Default Network Access | and Edit |
| <input checked="" type="checkbox"/> | 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.
```

Overview

| | |
|-----------------------|--------------------------------|
| Event | 5200 Authentication succeeded |
| Username | odbcuser1 |
| Endpoint Id | |
| Endpoint Profile | |
| Authentication Policy | Default >> test_aaa >> Default |
| Authorization Policy | Default >> Default |
| Authorization Result | PermitAccess |

Authentication Details

| | |
|-------------------------------|-------------------------------|
| Source Timestamp | 2016-06-08 11:04:07.004 |
| Received Timestamp | 2016-06-08 11:04:07.005 |
| Policy Server | bise236 |
| Event | 5200 Authentication succeeded |
| Username | odbcuser1 |
| Authentication Identity Store | ISE_ODBC |

Steps

```
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
```

Step 4. groepsvernieuwing instellen

1. Maak tabellen met gebruikersgroepen en een andere die voor veel-naar-veel-mapping wordt gebruikt:

```
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 [PRIMARY]
```

```
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. Voeg groepen en afbeeldingen toe, zodat ODBCUSER1 tot beide groepen behoort:

```

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. Procedure voor groepsherkenning maken:

```

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. Geef de kaart op aan technische groepen:

[ODBC List > ISE_ODBC](#)

ODBC Identity Source

| General | Connection | Stored Procedures | Attributes | Groups |
|------------------------------------|----------------------------------|--------------------|------------|--------|
| Stored procedure type | | Returns recordset | | |
| Plain text password authentication | ISEAuthUserPlainReturnsRecordset | | | |
| Plain text password fetching | ISEFetchPasswordReturnsRecordset | | | |
| Check username or machine exists | ISEUserLookupReturnsRecordset | | | |
| Fetch groups | | ISEGroupsRetrieval | | |
| Fetch attributes | | ISEAttrsRetrieval | | |
| Search for MAC Address in format | | xx-xx-xx-xx-xx-xx | | |

5. Selecteer de groepen en voeg ze toe aan de ODBC-identiteitsbron:

ODBC Identity Source

- General
- Connection
- Stored Procedures
- Attributes
- Groups**

Edit + Add - Delete

| Name | Name in ISE |
|-------------------|-------------|
| No data available | |

Select Groups from ODBC X

Sample User or Machine Retrieve Groups

| Name | Name in ISE |
|--|-------------|
| <input checked="" type="checkbox"/> ODBCGroup1 | ODBCGroup1 |
| <input checked="" type="checkbox"/> ODBCGroup2 | ODBCGroup2 |

OK Cancel

6. Voeg een andere gebruiker toe die niet tot een groep behoort:

```
insert into ISE_Users(username,password) values ('odbcuser2', 'odbcpass');
```

7. Maak een specifieke beleidsset en test:

Policy Sets Profiling Posture Client Provisioning Policy Elements

Policy Sets

Search policy names & descriptions.

Summary of Policies

Global Exceptions

TestAAA

VPN

Default

Save Order Reset Order

Define the Policy Sets by configuring rules based on conditions. Drag and drop sets on the left hand side to change the order.

For Policy Export go to Administration > System > Backup & Restore > Policy Export Page

| Status | Name | Description | Conditions | Edit |
|-------------------------------------|---------|-------------|----------------------------------|------|
| <input checked="" type="checkbox"/> | TestAAA | | Radius:Service-Type EQUALS Login | Edit |

Authentication Policy

| | | | | |
|-------------------------------------|----------------------------|--|--------------------|------|
| <input checked="" type="checkbox"/> | Default Rule (if no match) | Allow Protocols : Default Network Access | and use : ISE_ODBC | Edit |
|-------------------------------------|----------------------------|--|--------------------|------|

Authorization Policy

Exceptions (0)

Standard

| Status | Rule Name | Conditions (identity groups and other conditions) | Permissions | Edit |
|-------------------------------------|--------------|---|-------------------|------|
| <input checked="" type="checkbox"/> | Group1Access | if ISE_ODBC:ExternalGroups EQUALS ODBCGroup1 | then PermitAccess | Edit |
| <input checked="" type="checkbox"/> | 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 |

Stap 5. Eigenschappen opnieuw instellen

1. Om dit voorbeeld te vereenvoudigen, wordt een vlakke tabel gebruikt voor eigenschappen:

```
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. Maak een eigenschap voor een van de gebruikers:

```
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. Bewaarde procedure maken:

```
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. Stel de eigenschap in op de **wikkel**:

[ODBC List](#) > **ISE_ODBC**

ODBC Identity Source

General Connection **Stored Procedures** Attributes Groups

Stored procedure type: Returns recordset

Plain text password authentication: ISEAuthUserPlainReturnsRecordset

Plain text password fetching: ISEFetchPasswordReturnsRecordset

Check username or machine exists: ISEUserLookupReturnsRecordset

Fetch groups: ISEGroupsRetrieval

Fetch attributes: ISEAttrsRetrieval

Search for MAC Address in format: xx-xx-xx-xx-xx-xx

5. Tekenen van de eigenschappen:

Select Attributes from ODBC

X

Sample User or Machine:

| <input type="checkbox"/> | Name | Type | Default Value | Name in ISE |
|--------------------------|-----------------|--------|---------------|-----------------|
| <input type="checkbox"/> | AwsomenessLevel | STRING | 100 | AwsomenessLevel |
| <input type="checkbox"/> | UserType | STRING | admin | UserType |

6. Pas ISE-regels aan:

| Status | Rule Name | Conditions (identify groups and other conditions) | Permissions | |
|--------|--------------|---|-------------------|--------------------------|
| ✓ | Group1Access | if ISE_ODBC:ExternalGroups EQUALS ODBCGroup1 | then PermitAccess | Edit ▾ |
| ✓ | AwesomeUser | if ISE_ODBC:AwsomenessLevel EQUALS 100 | then PermitAccess | Edit ▾ |
| ✓ | Default | if no matches, then | DenyAccess | Edit ▾ |

Refresh Reset Repeat Counts Export To Filter

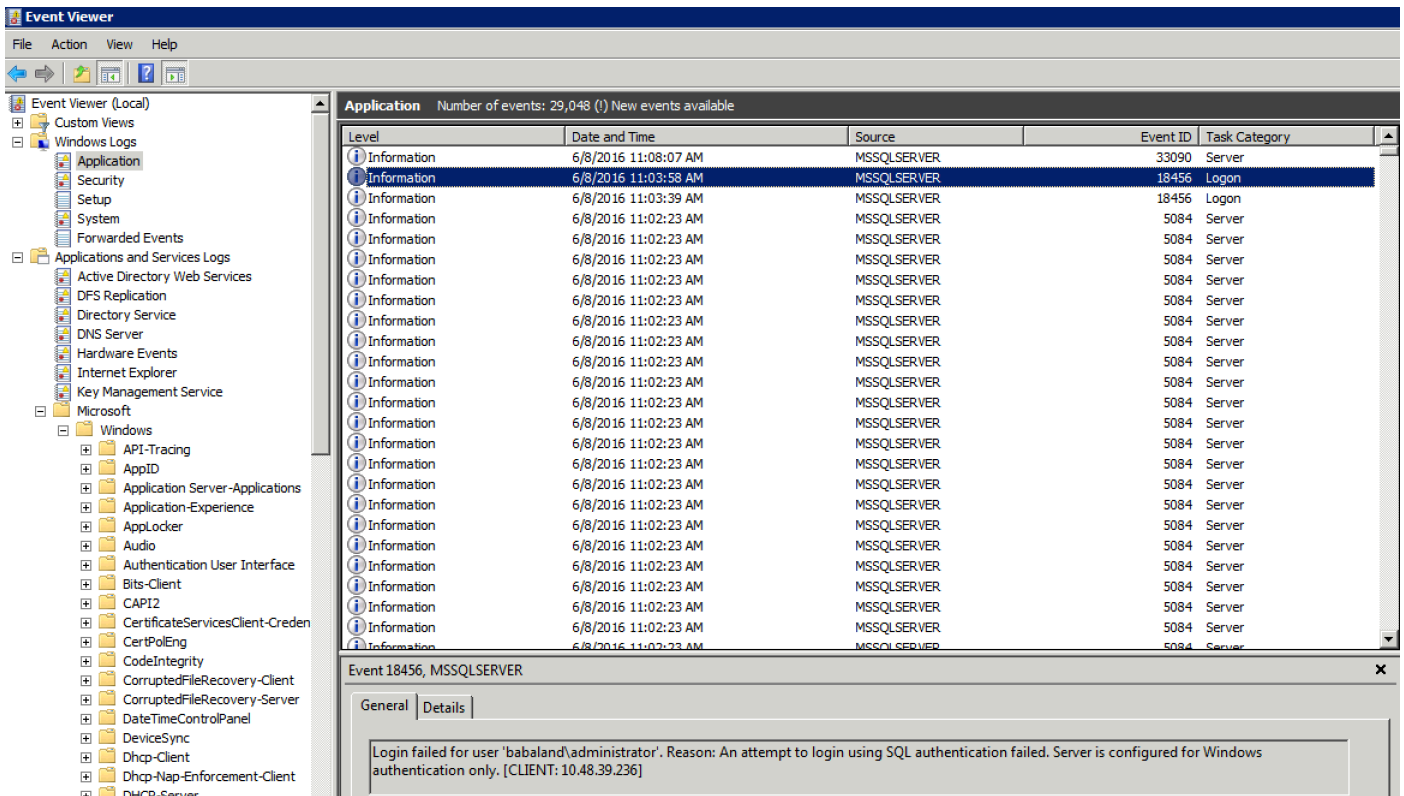
| Time | Status | Details | Repeat ... | Identity | Endpoint ID | Endpoint Pr... | Authenticat... | Authorization Policy | Authorizatio... |
|------------------------------|--------|---------|------------|-----------|-------------|----------------|----------------|----------------------|-----------------|
| Jun 08, 2016 12:21:45.596 PM | ✓ | | | odbcuser2 | | Endpoint Prof | Authenticator | Authorization Policy | Authorization |

Problemen oplossen

Als de verbinding niet succesvol is, controleer het logbestand van de evenement Windows. Op ISE gebruik **tonen** de opdracht **de loggingapplicatie pre-management.log tail** tijdens pogingen om verbinding te maken.

Voorbeeld van slechte authenticatiemodus:

```
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)
```

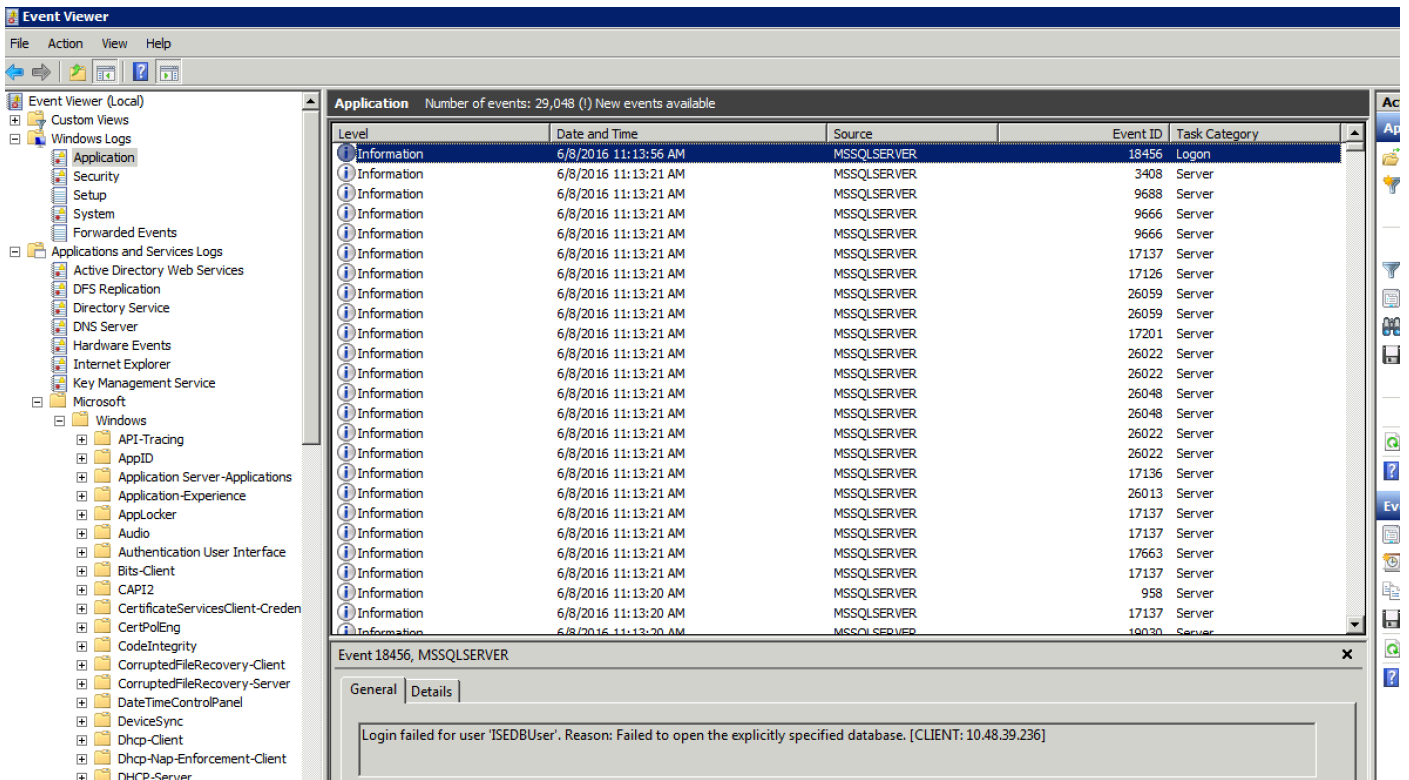


Voorbeeld van door gebruikers ontbrekende rechten om database te openen:

```

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.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)

```



Om de DB-bewerkingen te kunnen oplossen, stelt u logcomponenten **odbc-id-Store** in op **DEBUG**-niveau onder **Beheer > System > Vastlegging > Loggen > Configuratie debug Log**.

Logs worden geplaatst in het bestand **Port-Management.log**.

Voorbeeld voor **buser2**:

```

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 -:::-

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Process stored procedure results

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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, Connection 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 empty 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_rJLKsS5QAzurVluGWzdYe67rIgcG3MMQcpE8yKnw
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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 returned 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
```