# Setup IBM i Connection to Salesforce





Configuring RDBConnect: A Step-by-Step Guide to Establishing a Successful Connection

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# 1. Introduction

# sales*f*orce

RDBConnect streamlines data transfers between databases on your IBM i system and external databases through JDBC connectivity. This powerful software empowers businesses to seamlessly integrate data from various sources, unlocking new possibilities for analysis and collaboration. Excitingly, RDBConnect now features a native connection to Salesforce, opening up a world of opportunities for streamlined data sharing and enhanced business

intelligence between these two platforms. This integration will undoubtedly revolutionize how businesses leverage their data in the future, driving greater efficiency and informed decision-making.

### 2. Requirements

RDBConnect software must be running on a compatible IBM i system with a minimum version of V6R1M0 or above. A valid Java JDK path must be configured using the RDBJVMPATH DTAARA, and the system must have the necessary permissions and security settings in place. Additionally, a JDBC driver compatible with Salesforce must be installed and updated using the RDBDRIVERS command. The RDBCFG command can then be used to configure the remote database connection, including specifying the necessary connection details such as the User ID, Password, IP Address, and Port. Furthermore, the Port Test feature can be used to ensure the selected port is not blocked.

- 3. Setup a Salesforce connected Application to connect from RDBConnect
  - 3a. Setup a Connected App
- 1. Go to your quick settings gear icon next to your profile > Select "Open Advance Setup"



#### Customization



Create a custom input field.

- 2. On the left hand pane go to Apps under PLATFORM TOOLS
- 3. Click on App Manager
- 4. On the upper left hand corner click on the "New Connected App"
- 5. Click on the "Create a Connected App" > Continue
- 6. Name your Connected App "RDBConnect5"
- 7. Add your Contact Email address
- 8. Enable OAuth Settings by checking the box
- 9. Enable for Device flow
- 10. Add the following callback URL
- 11. http://localhost:55555/Callback copy this and replace the port number through 55559
- 12. Select the following OAuth scopes to define permissions for the connected app
- 13. Manage user data via APIs, Manage Data Cloud profile data, perform ANSI SQL queries on Data Cloud, Perform request at any time
- 14. Click SAVE at the bottom of the form

#### 3b. Change the connected app settings

- 1. On the left pane click on Manage Connected Apps and select Edit "RDBConnect5"
- 2. Change the IP Relaxation to "Relax IP Restrictions" > click on SAVE

#### 3c. Allow network Access

- 1. On the left pane select Security > Network Access
- 2. Click the "New" Button
- 3. Add you IBM I IP Address range > click SAVE

# 4. Configure RDBConnect Connection on IBM i

On the IBM I, run command RDBMNU option 1 or use Command RDBCFG to go directly to your connection configuration screen.

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	Manage Remote Systems
Remote Server Id.:	SFPRODATA
Description:	Salesforce Test using RelierSoft Driver
Database Type:	SALESFORC2 (F4=Prompt)
I/P - Host Name:	https://login.salesforce.com
	(F4=Prompt)
Catalog/Service	
catalog/service	(Ed=Prompt)
Schema	SalesForce
	(F4=Prompt)
User Name	help-vwal@force.com
Password:	*****
F1=Help F3=Exit F	4=Prompt F6=Save F12=Return
IA A	

Specify the following.

- 1. Remote Server ID
- 2. Description for your connection
- 3. Database Type (SALESFORC2). Use F4 to prompt the list of database types
- 4. Schema name (Salesforce)
- 5. User Name (User ID)
- 6. Password
- 7. Press F6 SAVE to complete your connection

## 5. Use RDBDrivers command to include the new drivers

In order to connect from IBM I you must include the JDBC driver included in the '/prodata/rdb5' directory in IFS called sforce-jdbc.zip.

Use option 19 to add the driver and then restart RDBConnect.

Once you've re-started RDBConnect, use option 9 to connect to Salesforce.

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Man	age Remote Systems
Job Status: Active	Java Version: Press F22 to display
Turn Tracing On: Y	Trace Type A A=All E=Errors Only
Server port number.: 9082	
Log File Size. : 103 KB	
Log Size Max: 128 MB	
Type Option, Press Enter	
1=Update 2=Stored-Proc 3=Copy	4=Delete 5=Display 6=Table-Views 7=Edit-Auth
8=Tables 9=Test-Connection	
Opt RDB Name DB Type Remo	te Connection Description
SERVCDESK1 MSSQL Serv	ice Desk Plus Test
	sforce Test using RelierSoft Driver
/	
F1=Hlp F3=Ext F6=Add F7=Logs F	8=IFS F20=EndJob F21=Clear F22=JVM F23 <u>=ActJobs</u>
Connection established.	
MALA	<u></u>
	00/024

# 6. Tracelogs and Java error logs

Record :	34	of	5	7 by	14		Col	umn :	5	76 by	79
Control :											
+1	+2	. +		. +	. 4	+5	+ .	6	+	7+.	8
Oct 15 10:	14:08:756	CDT	2024	Clas	s:						
Oct 15 10:	14:08:756	CDT	2024	Conn	ection	String					
Oct 15 10:	14:08:757	CDT	2024	Load	ing:SA	LESFORC	2				
Oct 15 10:	14:08:757	CDT	2024	Sale	sForce	2 Drive	er Ma	nager			
Oct 15 10:	14:08:757	CDT	2024	Load	ing Dr	iver.		-			
Oct 15 10:	14:08:759	CDT	2024	Load	Sales	force Dr	river	2			
Oct 15 10:	14:08:764	CDT	2024	Sale	sForce	2 Drive	er Lo	aded			
Oct 15 10:	14:08:764	CDT	2024	Conn	ecting	to:http	ps://	login.	salesfo	orce.com	
Oct 15 10:	14:08:764	CDT	2024	Driv	er Con	nect.					
Oct 15 10:	14:08:765	CDT	2024	com.	relier	soft.sf	orce.	jdbc.D	river		
Oct 15 10:	14:08:765	CDT	2024	Clas	s com.	reliers	oft.s	force.	jdbc.Dr	river	
Oct 15 10:	14:11:177	CDT	2024	Conn	ected.						
Oct 15 10:	14:11:187	CDT	2024	Send	ing Da	ta					
Oct 15 10:	14:11:188	CDT	2024	RDB0	000						
Oct 15 10:	14:11:188	CDT	2024	rc:	16						
F3=Exit	F10=Disp	lay I	lex	F12=E	xit F	15=Servi	ices	F16=R	epeat 1	find	
F19=Left	F20=Rig	ht									

Check you tracelogs file to debug your initial connection.

You can also view additional java errors written to RDBJavaLogs.log in IFS /prodata/rdb5.

# 7. Salesforce Tables view from IBM i



Screenshot of RDB Connect showing the list of tables from the remote database: (SalesForce), RDBTABLES Displays Existing Tables on Remote Database.

# 8. Salesforce - RDBFields view from IBM i

		Remote field	descripti	ons			
D							
eou	Statement · · ·	FPRUDHIH FLECT V EDOM SAL	orforco A	ccoup t			
οų∟	Statement	ELECI * FRUM Sal	estorce.A	ccount			
1=S	elect						
Ret	Remote Field Name	Field Type	Usage	Null	Type	Length	Dec
	Id	ID	В	N	A	18	
	IsDeleted	СНЕСКВОХ	I	Ν	S	1	0 *OMI
	MasterRecordId	REFERENCE	В		A	18	
	Name	TEXT	В	Ν	A	255	
	Туре	PICKLIST	I		A	1	*OMI
	ParentId	REFERENCE	В		A	18	
	BillingStreet	TEXTAREA	В	Y	A	255	
	BillingCity	TEXT	В		A	40	
	BillingState	TEXT	В		A	80	
	BillingPostalCode	TEXT	В		A	20	
	BillingCountry	TEXT	В		A	80	
	BillingLatitude	NUMBER	В		S	18	15

Screenshot of RDB Connect showing field definitions from the remote Salesforce database using the RDBFIELDS command with the following SQL statement: STM('select \* from Salesforce.Account')