Information Server 11

Importing metadata using Greenplum Connector through Information Metadata Asset Manager



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This presentation discusses how to import metadata from the Greenplum database into Information Server version 11.3.

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Objectives	
Creating DSN on alignt tion	
 Importing metadata using GP connector 	
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Starting with InfoSphere[®] Information Server version 11.3, InfoSphere Metadata Asset Manager, also referred to as IMAM, supports importing of metadata from the Greenplum database. A new "Greenplum Connector" is made available for it. The Greenplum connector imports implemented data resources, such as database tables and columns, from Greenplum database versions 4.2.7 and version 4.3. The objectives of this presentation are to show how to create the necessary ODBC data source and how to import metadata using the new Greenplum connector.



The first step is to create an ODBC data source, also referred to as DSN, on your client machine for the connection to your Greenplum database. This must be done on each computer that the imports are done on. On a 32-bit Windows system, open the control panel, click Administrative tools, and click Data Sources. If you are using 64-bit Windows, click the Start menu, click Run, and run the odbcad32.exe program to start the 32-bit ODBC Data Source administrator. Click the System DSN tab and click Add.

		IBM
Create data source	- Windows (2 of 4)	
 Select IBM Greenplum 	Wire Protocol driver	
 Click Finish 	Create New Data Source	
	Select a driver for which you want to set up a data source. Name IBM Btrieve (".dta) IBM DB2 ODBC DRIVER IBM DB2 ODBC DRIVER - DB2COPY IBM DB2 Wire Protocol IBM dBASEFile (".dbf) IBM MBASEFile (".dbf) IBM NFQRMIX	
	< Back Finish Cancel	
Importing metadata	a using Greenplum Connector through Information Metadata Asset Manager © 2014 IB	M Corporation

Next, select the IBM Greenplum Wire Protocol driver from list of available drivers and click Finish.

Enter DNS information – Host name – Port number – Database name Click Test Connect	CDBC Greenplum Wire Protocol Driver Setup General Advanced Failover Pooling About Data Source Name: Greenplum_source Help Description: This is DSN for Greenplum Host Name: <hostname> Port Number: 5432 Database Name: <cdatabasename></cdatabasename></hostname>	2 ×
	Test Connect OK Cancel	Apply

Next, enter the connection information into the driver setup screen. Create a Data source name, enter the Greenplum host name, port number, and the name of the Greenplum database you want to connect to. Click the Test Connect button.

			IBM
 Create data source – Windows (4 of 4) Enter user name Enter password Click OK Successful Connection Click 'Ok' Click 'Finish' Unsuccessful Connection Verify database connection information 	Logon to Green; Host Name: Port Number: Database Name: User Name: Password:	olum Wire Protocol <hostname> 5432 <databasename> <username> •••••••</username></databasename></hostname>	OK Cancel Help
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Next, enter the credentials for connecting to the Greenplum database and click OK. The connection should come back successful. If so, click OK and Finish. If the connection fails, go back and check the connection information.

Configure roles and permissions

- Information Server roles require either
 - Common Metadata Importer
 - Common Metadata Administrator
- Greenplum

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- Grant SELECT privileges for system schemas
 - pg_catalog
 - information_schema

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Before importing metadata, ensure that you have the role of either Common Metadata Importer or Common Metadata Administrator. On the Greenplum database that you are importing from, ensure that the database user has select privileges on the system schemas pg_catalog and information_schema.

Importing metadata by way of IMAM (1 of 10)

Click Import TabClick New Import Area	IBM InfoSphere Metadata Asset Manager Wekome Import Repository Management Administration Import Areas New Report Areas: Down Provi Actors 1:	
		No import areas exist. Click New Import Area.
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Once the ODBC connection is successfully created and the proper roles and permissions are configured, you are ready to import from the InfoSphere Metadata Asset Manager. Open IMAM and click the Import Tab. Next, click New Import Area.

	Create New Import Area	
	Name the import area, select a metadata interchange server, and select a bridge or connector.	
 Enter import area name 	* Import area name: GP_Metadata	▼ Import Help
 Add description 	Import area description: Importing metadata data using Greenplum Connector	About this connector The Greenplum connector imports implemented data resources such as
Select metadata interchange server	Metadata interchange server:	database tables and columns from Greenplum database versions 4.2.7 and 4.3. For detailed information about this connector, see [text to come].
Select metadata interchange server Select Greenplum connector under Select Bridge or Connector	Select a Bidge or Connector Enter last to filter Select a Bidge or Connector Generative Technologies Generative Technolog	<section-header><section-header><text><list-item><list-item><list-item><section-header><section-header><section-header><text></text></section-header></section-header></section-header></list-item></list-item></list-item></text></section-header></section-header>

Enter the name of the Import Area, a description, and select the Metadata Interchange Server. Next, select Greenplum connector under Select Bridge or Connector.

	Create New Import Area	
Solact Data connection	Enter parameter values for the bridge or connector.	
or create new data	▼ Import Parameters	Details: Greenplum connector
connection	* Data connection:	▼ Parameter Help: Data connection
 Can add filters Enter schema name Enter table name Enter assets to import 	Include system objects Include views Schema name filter: Table name filter: Assets to import: Include access errors	use. After the import is shared, the data connection cannot be changed on reimport, though the password can be changed if the test connection fails.
	?	Badk Hest Ca

A parameter screen is displayed where you can enter Greenplum connector-related parameters. Choose the data connection that you want to import from. If you are not sure of the data connection name or the data connection does not exist, click the search glass to search or to add a new connection. You can also filter your metadata by specific database, schema, and assets or select assets that you want to import.

Importing metadata by way of IMAM (4 of 10)

		Select a Data Connection	×
Click New D	Data Connection	Data Connections New Data Connection	
		No data connections exist for the current host. Click New Data	Connection.
		?	OK Cancel
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You can click an existing data connection or click New Data Connection to create a new data connection to import from.

Configure_greenplum.ppt

	New Data Connection ×
	* Name:
Inter new connection name	my_gp_dataconnection
Enter DSN name	Description:
Enter Greenplum username and password	
Enter database name and database	Data source:
Click Test Connection	GP_DSN
	Enter credentials if they are required for the connection: • User name:
	gpadmin
	Password:
	•••••
	Save 'Password'
	Database:
	dbqa
	Test Connection I The connection test was successful.
	? OK Cancel

When creating a new data connection, enter the new connection name, the DSN to use for the import, the database user credentials, the database name and click Test Connection. Be sure that the test comes back successful. Click OK.

Importing metadata by way of IMAM (6 of 10)

nter parameter values for the bridge or connector.		
Test Connection		
 Import Parameters 		Details: Greenplum connector
Data connection:		▼ Parameter Help: Data connection
my_gp_dataconnection	· D	Browse to select from existing data connections, or create a data connection to
Include system objects		use. After the import is shared, the data connection cannot be changed on reimport, though the password can be changed if the test connection fails.
Include views		
Schema name filter:		
Table name filter:		
Assets to import:		
Ignore table access errors		
?		Back Hent Cancel

Next, you can click the browse icon next to Assets to choose which assets you want to import from Greenplum.

Configure_greenplum.ppt

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Importing metadata b	y way of I	MAM (7 of 10)	
	Select 'Assets to in	nport'	×
	Assets to import		
Select assets to import	🖃 🔳 🍞 dbqa <da< td=""><td>tabase ></td><td></td></da<>	tabase >	
	😥 🗔 🕅 bmdi_	tabledefs_schema <dataschema></dataschema>	
Click OK	🖃 💌 🔣 bmdis	chema <dataschema></dataschema>	#
Olick Ol	🗹 🥅 qa	a_bmdi_all <datacollection></datacollection>	
	🗹 🥅 qa	_bmdi_basic <datacollection></datacollection>	
	🗹 🛄 ds	_bmdi_geom <datacollection></datacollection>	
		a_bmdi_gptypes <datacollection></datacollection>	
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	F-C K bmdis	chema_special <dataschema></dataschema>	
	€-□ 🕅 bmdis	chema_tables <dataschema></dataschema>	
	⊕-□ 🕅 bmdis	chema_views <dataschema></dataschema>	
	💽 🗔 🔝 gp_to	olkit <dataschema></dataschema>	
	🕒 🖂 🔣 inform	ation_schema <dataschema></dataschema>	
	💽 🖂 🔣 pg_ao	iseg <dataschema></dataschema>	
	💽 🖸 🚺 🕞	tmapindex <dataschema></dataschema>	-
		teles Peterdenes	
	Name:	bmdischema	
	Description:	bridischema Date Schema	
	Id:	schema[dbqa]bmdischema]	
	and the second s		
			OK Cancel
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The screen that is displayed on this slide, allows you to select a list of assets you want to import. You can select multiple schemas or databases. Click OK when finished.

Importing metadata by way of IMAM (8 of 10)

▼ Import Parameters		Details: Greenplum connector
" Data connection:		▼ Parameter Help: Data connection
my_gp_dataconnection	* 🔊	Browse to select from existing data connections, or create a data connection t
Include system objects Include views		use. After the import is shared, the data connection cannot be changed on reimport, though the password can be changed if the test connection fails.
Schema name titler : Table name fitter : Assets to import:		
Ignore table access errors	121	

Click Next from the Create New import Area screen.

Configure_greenplum.ppt

	Create New Import Area	
	Cruer values for identity parameters.	Taramatar Helo: Database name
Select Host system nameEnter Database nameClick Next	Host system name: IP-GreenPlum Database name: IP-GP-Oatabase IP	Type the name of the database or browse to select the database that will conta the imported tables. This value is important for creating and reconcling the identity of the database in the repository. You can specify a different name than the name of the source database. For example, you might specify the database that will contain the tables during development or production.
	?	Back Next Can

Next, you see the identity parameter screen where you can enter the name of the host system under which metadata should be imported and enter the database or browse to select the database that contains the import tables. You can specify a different name other than the name of the source database.

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nporting metadata by way of IMAM (10 of 10)	
Select either Express Import or Managed Import	
Create New Import Area	_
Add a description for this import event and choose the type of import you would like to perform. Import Description:	
Express Import Import to the staging area and automatically perform analysis, preview, and share of the import.	
Managed Import Import to the staging area, where you can manually analyze, preview, and work with the metadata before you import it to the metadata repository.	
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The last step is to either choose to do the Express Import or the Managed Import. Express Import imports your metadata directly into the active repository. Managed Import is an advanced import where you can view and analyze the metadata before importing into the active repository. Click the Import button.

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