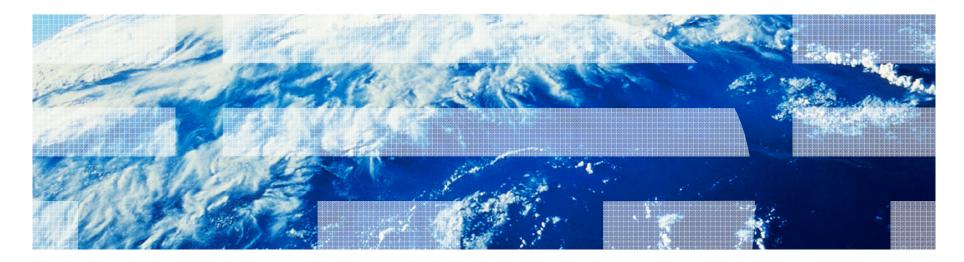


InfoSphere Information Server DataStage V8 and later releases

Setting up basic DataStage users





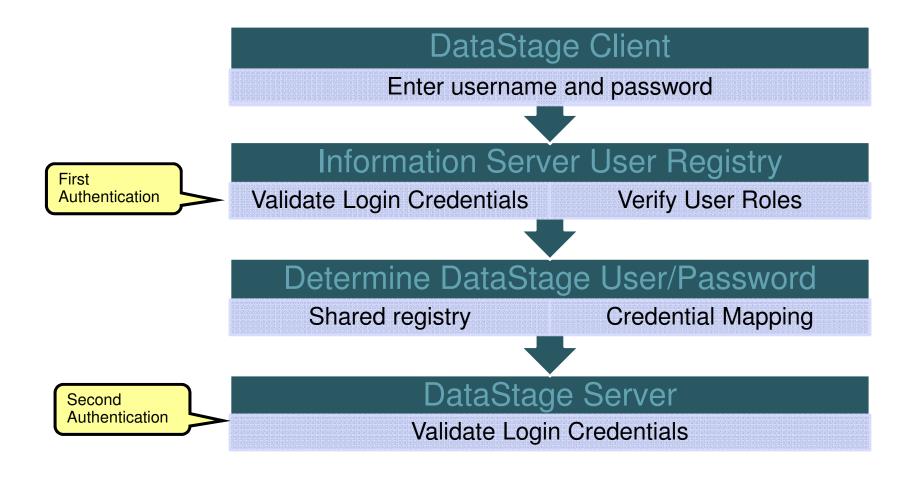
Objectives

- DataStage client connection and how it works
 - High level overview
 - Step by step connection process
- How to set up basic DataStage users
 - Overview
 - Setting up DataStage Administrator account (dsadm)
 - Setting up DataStage user account
- Common issues with user setup
 - Possible scenarios for DataStage client login failures
 - 80011 errors
 - How to troubleshoot problem
 - How to resolve error

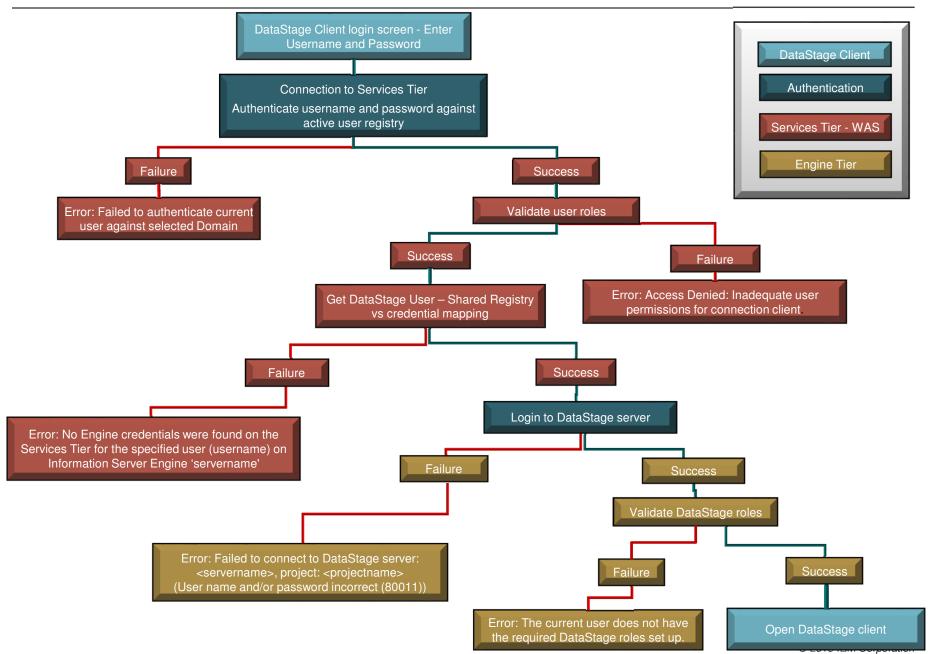
The screenshots within this presentation are from InfoSphere Information Server v11.3 and v8.



High level overview



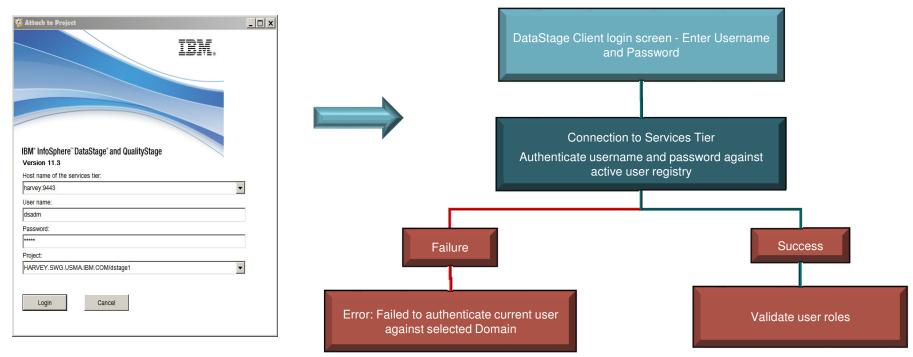
IBM





Steps in a DataStage connection (1 of 7)

- User enters login credential
- · Connects to services tier
- · Authenticates user against active user registry
 - Successful Validate user roles
 - Failure Error: Failed to authenticate current user against selected domain





Steps in a DataStage connection (2 of 7)

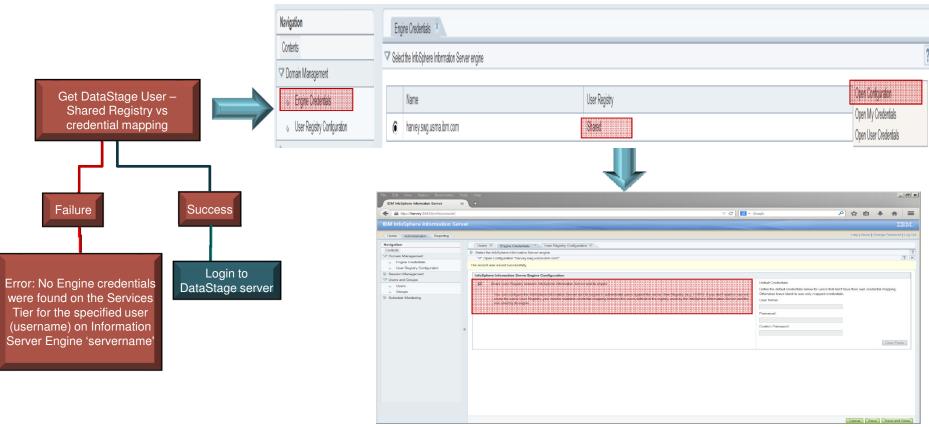
- · Check user record in xmeta to validate user roles
 - Roles are configured in Information Server Web Console
- Validation failure
 - Error: Access Denied: Inadequate user permissions for connection client
- Validation successful
 - Obtain DataStage login credentials

		✓ Open User		
		Role and group changes will not affect the current use	ers until their next login.	
		User Name: *	Roles	
		dsadm	∽ Suite	?
		Password: *	🔽 Role Int	nherited
		Confirm Password: *	Common Metadata Administrator	
Validate user re	oles		Common Metadata Importer	
		Courtesy Title:	Common Metadata User	
	,	First Name (Given Name): *	Suite Administrator	
		First Name (Given Name);	Suite User	
		Last Name (Family Name): *	Suite Component	?
	Failure	Administrator	Role Int	herited
Success	railure	Instant Messaging ID:	Business Glossary Administrator	
		Job Title:	Business Glossary Asset Assigner	
_			Business Glossary Author	
		Home Phone Number:	Business Glossary Basic User	
Get DataStage User – Shared Registry vs	Error: Access Denied: Inadequate user	Office Phone Number:	Image: Business Glossary User	
credential mapping	permissions for connection client.		Data Quality Console Administrator	
		Mobile Phone Number:	Data Quality Console Business Steward	
		Pager Number:	Data Quality Console Review Manager	
			Data Quality Console Reviewer	
		Fax Number:	DataStage and QualityStage Administrator	
		Email Address:	DataStage and QualityStage User	



Steps in a DataStage connection (3 of 7)

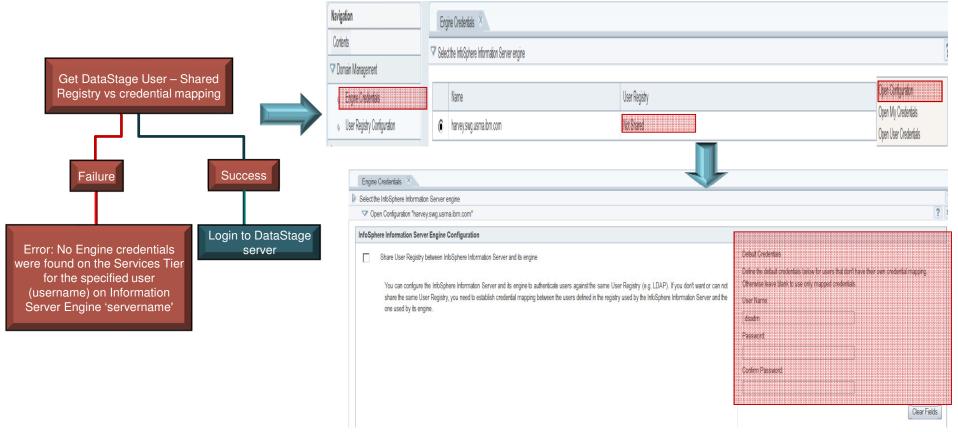
- Shared registry
- Use same username and password used on DataStage login screen





Steps in a DataStage connection (4 of 7)

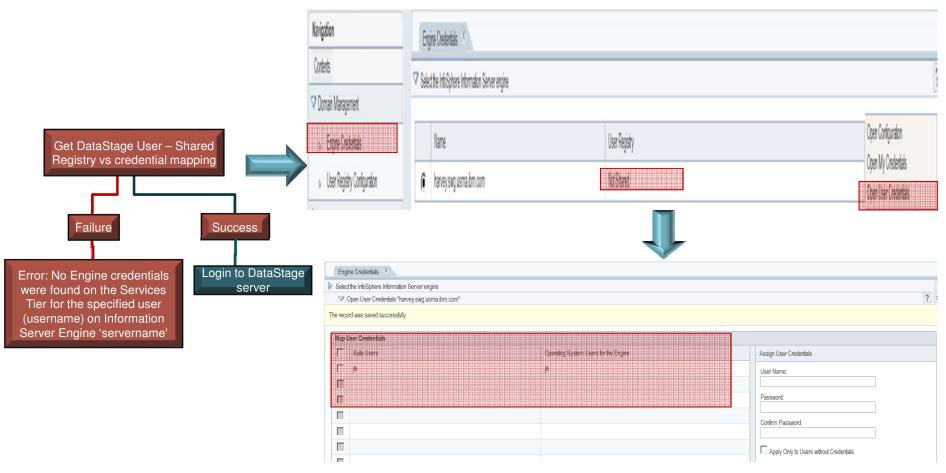
- Not Shared registry
- · Must set up user credentials
 - Username and password for DataStage server connection
- Default credentials for users without an individual credential mapping





Steps in a DataStage connection (5 of 7)

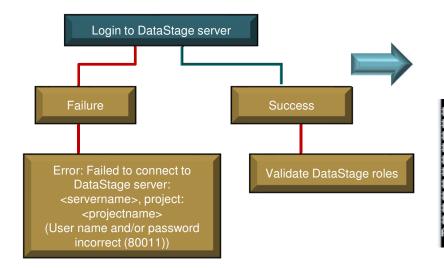
- · Individual user credentials can be set
- Takes precedence over default map





Steps in a DataStage connection (6 of 7)

- · Second authentication takes place to DataStage server machine
- Authentication method set in uvconfig file
 - Local OS or PAM



InformationServer/Server/DSEngine/uvconfig

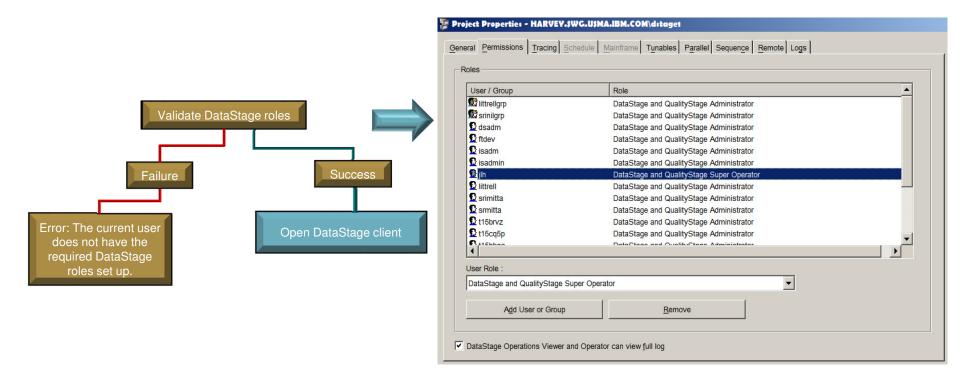
AUTHENTICATION - Specifies the method by which UNIX user authentication is done. Currently, the following methods are supported:
Ø) Standard O/S Authentication (default)
1) Pluggable Authentication Module (PAM)
This value should only be changed with a full understanding of the implicational action are supported.

This value should only be changed with a full understanding
 of the implications, as improper setting of this value can
 lead to the environment being unusable.



Steps in a DataStage connection (7 of 7)

- Validate DataStage roles
- Set by user or group
- Successful => DataStage client opens
- Unsuccessful => Error: The current user does not have the required DataStage roles set up





Set up DataStage users

- Login to Information Server Web Console, the default URL for v11.3 is: https://<hostname>:<port>/ibm/iis/console
 Ex: https://myserver.mydomain.com:9443/ibm/iis/console
- Versions prior to 11.3

http://myserver.mydomain.com:9080/ibm/iis/console

https://myserver. mydomain.com :9443/ibm/iis/console/	
	Login
	Please enter your information
	User name:
	Password:
	Automatically log in
	Please note that after some time of inactivity, the system will log you out automatically and ask you to sign in again.
	Login
	Licensed Materials - Property of IBM. © Copyright IBM Corporation 2005, 2014. All Rights Reserved. IBM, the IBM Logo, WebSphere, and IntScphere are registered trademarks of IBM Corporation in the United States, other countries, or both. Java and all Java-based marks are trademarks of Sun Microsystems, Inc. I the United States, other countries, or both.



Create DataStage user

- Add new DataStage
 - Click "Users" under "Users and Groups"
 - Click "New User"

Home Administration Info	rmation Services Catalog Reporting Repository Management Help About Change Password			
Navigation	Users ×			
Contents	Select Users to Work With			
 Domain Management Session Management 	First Name (Given Name) Last Name (Family Name) Filter Clear Filter Additional Filter Criteria			
Users and Groups	Additional Filter Criteria			
• Users	Item 1-2 out of 2 Items per Page: 25 50 100 New User			
Users Groups	Item 1-2 out of 2 Items per Page: 25 50 100 New User Image: Last Name Liser Name Courtesy Title Business Phone Location			
Sers	Items per Page: 25 50 100 New User			



Assign user roles

- Enter all mandatory fields (marked with *)
- Check DataStage and QualityStage Administrator role

IBM InfoSphere Information Serv	er		IBM.
Home Administration Information	Services Catalog Reporting Repository Management	t Help About	Change Password Log Out
Navigation	Users ×		
Contents Domain Management	Select Users to Work With Create New User		? ? ×
 Session Management Users and Groups 	User Name: * dsadm	Roles Groups	?
 Users Groups 	Password: *	Role Inherited	
 Log Management Schedule Monitoring 	Confirm Password: *	Common Metadata Administrator Common Metadata Importer	
	First Name (Given Name): *	Common Metadata User	=
		Suite Just	
	Last Name (Family Name): * Administrator	✓ Suite Component ? Role Inherited	
	Instant Messaging ID:	Business Glossary Administrator	
	Job Title:	Business Glossary Asset Assigner	
	Home Phone Number:	Business Glossary Author Business Glossary Basic User	
	Office Phone Number:	Business Glossary User	-
	Mobile Phone Number:		Remove Browse
	Pager Number:	DataStage and QualityStage User	
	Fax Number:	FastTrack Project Administrator	-



Set credential mapping (1 of 4)

- Map Information Server account to an OS account
- Without credential mapping
 - User unable to access DataStage client tools
 - User unable to run DataStage jobs

IBM InfoSphere Information Se	rver			IBM.
Home Administration Reporting				Help About Change Password Log Out
Navigation Contents Domain Management	-	eers X Engine Credentials X		?
Engine Credentials User Registry Configuration	6	Name harvey.swg.usma.ibm.com	User Registry Not Shared	Open Configuration Open My Credentials Open User Credentials
 Session Management Users and Groups Schedule Monitoring 	Î			



Set credential mapping (2 of 4)

• Map dsadm to DataStage Administrative UNIX[®] account (typically "dsadm")

IBM InfoSphere Information Ser	rver								~					
Home Administration Reporting														
Navigation		rs 🛪 Engine Credentials ×												
Contents		Select the InfoSphere Information Server engine												
I ⊂ Domain Management		# Open User Credentials "harvey.swg.usma.ibm.com"												
 Engine Credentials 														
 User Registry Configuration 		Map User Credentials												
Session Management		Suite Users	Operating Sys											
Users and Groups				Sea	irch for	Users	2.02							×
Schedule Monitoring					D. A JJ	ional Filter Criteria –			Filter	Clear Filter				
				1 -										
						out of 39 ast Name		1 2 🕨	Courtesy Title	Items per Page: 1		Selected Users	^	7
						ast Name)ataStage	Administrator	dsadm	Courtesy I tie	Business Phone	Locat	usuum		1
							dw	dsdev	TEST					
				1000	- e		cdw	dwetlid	cdw etl id					
				1	t t	est	t	ftdev						
				ſ	🗆 i	adm	isadm	isadm						
	•						Administrator	isadmin						
							Julia	jh					-	1
						trell_Dec18_2014	littrell_tirst	littrell			•		Remove	
												C	ancel OK	
									\mathbf{h}					
								Remove	Browse					



Set credential mapping (3 of 4)

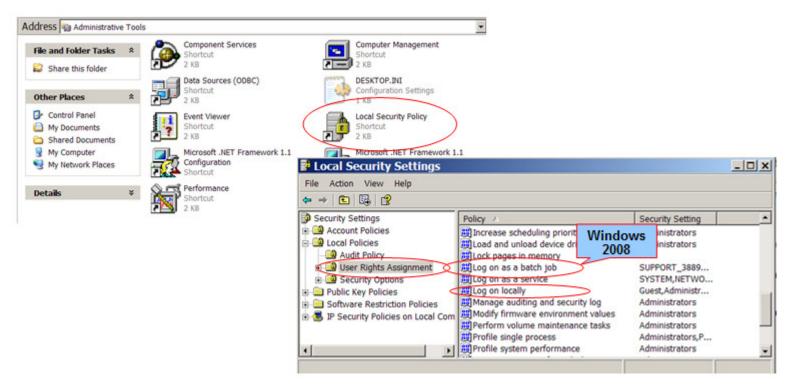
• Enter DataStage Administrative account details

IBM InfoSphere Information Ser	rver			 		IBM.
Home Administration Reporting					Help About Chang	e Password Log Ou
Navigation Contents Omain Management 		Users Engine Credential Select the InfoSphere Information Open User Credentials Map User Credentials Suite Users Suite Users	Assign User Credentials	? ×		
Users and Groups Schedule Monitoring	*	Image: Control deadem Image: Control Image: Control Image: Control Image: Control <td></td> <td>Remove Browse</td> <td>User Name: dsadm Password: ••••• Confirm Password: ••••• Apply Only to Users without Credentials</td> <td>Apply</td>		Remove Browse	User Name: dsadm Password: ••••• Confirm Password: ••••• Apply Only to Users without Credentials	Apply
					~	Close



Set credential mapping (4 of 4)

- Mapped operating system user UNIX/Linux
 - Must be member of DataStage Administrator's primary group
- Mapped operating system user Window
 - Must have "Log on locally"
 - Windows® 2008 or higher must also have "Log on as a batch job"





Assign DataStage roles (1 of 3)

- Login to DataStage Administrator
- Assign DataStage role for user



eneral Projects ANALYZERPROJECT DataClick Dayo TODDM TODDM1 dstage1 elaine igaona julia lhi mphan	▲ <u>A</u> dd <u>D</u> elete P <u>r</u> operties NLS Command	<u>C</u> lose <u>H</u> elp
Project pathname: /u1/is113/IBM/InformationServer/Server/Projects/dstage1		Suite Admin



Assign DataStage roles (2 of 3)

1

• Add user from internal registry to list of DataStage users

loles			ок	
User / Group	Role		Cancel	
💭 littrellgrp	DataStage and QualityStage Adn	ninistrator		
💭 srinilgrp	DataStage and QualityStage Adn	ninistrator	Help	
ይ dsadm	DataStage and QualityStage Adn	ninistrator		
👲 ftdev	DataStage and QualityStage Adn	ninistrator		
D isadm	DataStage and QualityStage Adn	ninistrator		
ይ isadmin	DataStage and QualityStage Adn	ninistrator		
1 littrell	DataStage and QualityStage Adn			
Srimitta	DataStage and QualityStage Adn DataStage and QualityStage Adn			
😰 srmitta	DataStage and QualityStage Adr	Add Users / Groups		
t15brvz	DataStage and QualityStage Adn			
ይ t15cq5p	DataStage and QualityStage Adn	Users / Groups		
t15hbqc	DataStage and QualityStage Adn			
P. tochurn	DataCtage and QualityCtage Ada			tly selected Users / Groups
		🖸 😰 dwetlid	Add all 👲 jih	
User Role :		🗳 🔁 t92j135	······	
		192j2w2	Add	
,		2 sctetlid		
Add User or Group	Remove	2 dsdev		
		15jsqt		
DataStage Operations Viewer	and Operator can view full log	😰 t92jt84		
balablage operations viewer	and operator can view junited	ይ t26jsb2	Remove	
		192jxb6	Temove	
		Lest_dsuser		
		→ £ jlh	Remove all	
		1		



Assign DataStage roles (3 of 3)

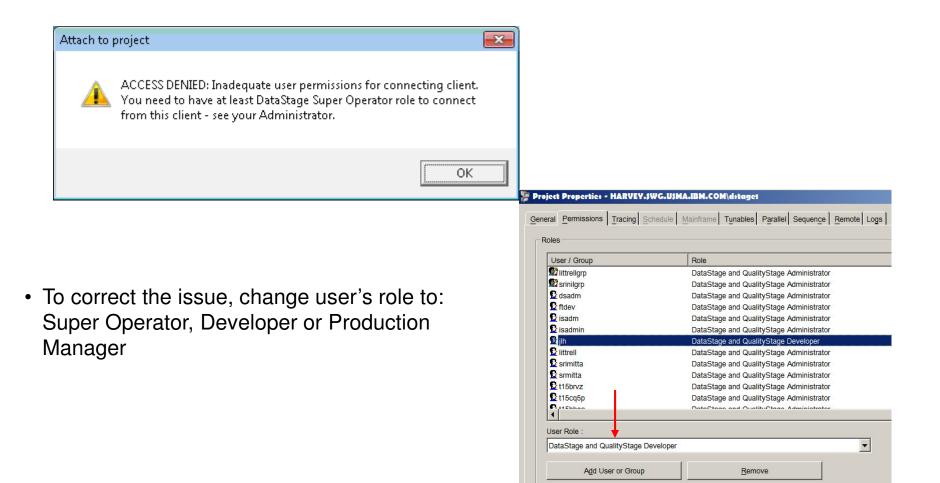
Choose DataStage role from drop down list

Roles		
User / Group	Role	▲ <u> </u>
1 littrellgrp	DataStage and QualityStage Administrator	
💭 srinilgrp	DataStage and QualityStage Administrator	
🔁 dsadm	DataStage and QualityStage Administrator	
ftdev	DataStage and QualityStage Administrator	
👲 isadm	DataStage and QualityStage Administrator	
Disadmin	DataStage and QualityStage Administrator	
<mark>▶</mark> ∰ilh	DataStage and QualityStage Operator	
Littrell	DataStage and QualityStage Administrator	
🔁 srimitta	DataStage and QualityStage Administrator	
🔓 srmitta	DataStage and QualityStage Administrator	
t15brvz	DataStage and QualityStage Administrator	
15cq5p	DataStage and QualityStage Administrator	
B+15hbao	DataCtage and QualityCtage Administrator	<u> </u>
User Role :		
DataStage and QualityStage	Operator 🗸	



Common Issues (1 of 6)

User does not have high enough role to login to DataStage Designer





Common issues (2 of 6)

• User does not have suite role defined

🌠 DataStage	.				
Failed to authenticate the current user against the sele	ected Services Tier	es Catalog Reporting Repository N	lanagement	<u>`</u>	
User [dsuser1] does not have the Suite Us	er role.	Users ×			
If you wish to generate an error report for this problem, click <u>here</u>		elect Users to Work With C Open User record was saved successfully.			
	More Close	er Name: * suser1		Roles マ Suite	?
		ssword: *	_	Role	Inherited
	Groups Log Management	Confirm Password: *		Common Metadata Administrator	
	Schedule Monitoring	Courtesy Title:		Common Metadata Importer	
		Courcesy hale:		Common Metadata User	
To correct the issue, add 'Suite User'		First Name (Given Name): *		Suite Administrator	
		Datastage Last Name (Family Name): *		Suite User	
role for user		User		✓ Suite Component	?
		Instant Messaging ID:		Role	Inherited
		Job Title:		Business Glossary Administrator	
		Home Phone Number:		Business Glossary Asset Assigner	
		Office Phone Number:		Business Glossary Author	
		Mahila Phase Masshare		Business Glossary Basic User	
		Mobile Phone Number:		Business Glossary User	
		Pager Number:		DataStage and QualityStage Administrator	
	I	Fax Number:		DataStage and QualityStage User	



Common issues (3 of 6)

•

User does not have DataStage Engine credentials mapped



- To correct the issue
 - Map Internal Registry user to DataStage Engine's OS account (slides 15-17)

IBM InfoSphere Information Ser							
Home Administration Reporting					Help About Change P		
Navigation Contents Domain Management Engine Credentials		Engine Oredentials × Select the InbSphere Information Server engine © Open User Credentials "harvey.swg.usma.ibm.com" he record was saved successfully					
 User Registry Configuration Session Management Users and Groups Schedule Monitoring 			ser Credentials Sule Users	Operating System Users for the Engine	Assign User Credentials		
			dsadm	dsadm	User Name:		
					Confirm Password:		
	4				Apply Only to Users without Credentials		



Common issues (4 of 6)

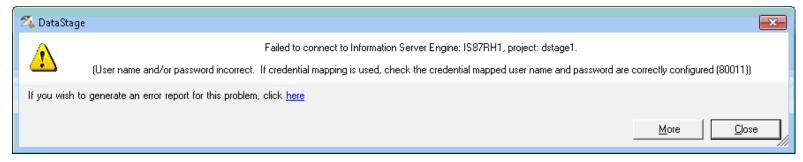
User does not have any DataStage role defined

		獶 Add Users / Groups	X
🌠 DataStage	—	Users / Groups	
	the required DataStage roles set up.	All available Users / Groups Add all Q dwetlid 192j135 192j2w2 Sctetlid Add	I
	Project Properties - HARVEY.,WC.UJMA.IBM.COM\diteget General Permissions Tracing Schedule Mainframe Tunables Parallel 3 Roles Viser / Group Role Distringrp DataStage and QualityStage Ac Similigrp DataStage and QualityStage Ac C disadm DataStage and QualityStage Ac C disadm DataStage and QualityStage Ac DataStage DataStage DataStage DataStage Ac	s 2 dsdev 2 t15jsqt 2 t92jt64 2 t26jsb2 2 t92jx06 2 test_dsuser dr dr dr dr dr dr dr	
role for user	Q littrell DataStage and QualityStage Q srimitta DataStage and QualityStage Q srimitta DataStage and QualityStage Q straine DataStage	General Permissions Tracing Schedule Mainframe Tunables Parallel Sequence Remote Roles User / Group Role DataStage and QualityStage Administrator DataStage and	e Logs
	✓ DataStage Operations Viewer and Operator can view full log	t15bnz DataStage and QualityStage Administrator DataStage and QualityStage Administrator DataStage and QualityStage Administrator	
		User Role : DataStage and QualityStage Developer Add User or Group Remove	•



Common issues (5 of 6)

• Provided DataStage Engine OS password is not valid or expired – Error 80011



- To correct the issue
 - Specify correct password

Home Administration Informa	ation Services C	atalog Reporting Repository f	Management	Help About Change Password Log
Navigation Contents	Use	r Registry Configuration 😣 Engir	ne Credentials ×	
Domain Management Engine Credentials User Registry Configuration	~	ct the InfoSphere Information Serve Open User Credentials "IS87RH1" cord was saved successfully.	er engine	(execution of the second se
Session Management	Map User Credentials			
 Users and Groups Log Management Schedule Monitoring 		Suite Users	InfoSphere Information Server Engine Operating System Users	Assign User Credentials
		dsadm	dsadm	User Name: dsuser1
-		dsuser1	dsuser1	Password:
				Confirm Password:
				Apply Only to Users without Credentials



Common issues (6 of 6)

🍕 DataStag	e	×
⚠	Failed to connect to Information Server Engine: IS87RH1, project: dstage1. This error can occur if your mapped Engine Credential User ID does not have sufficient access to the underlying OS on the Engine system. (Internal Error (39202))	•
lf you wish t	o generate an error report for this problem, click <u>here</u>	se

- DataStage user does not belong to DataStage Administrator's primary group
- Fix: Add DataStage user to DataStage Administrator's primary group \$ id dsadm uid=206(dsadm) gid=205(dstage) groups=1(staff),14(mqm) \$ ls -ld DSEngine drwxrwxr-x 44 dsadm dstage 16384 Apr 19 18:02 DSEngine
 Incorrect: \$ id bhnk

```
uid=258(bhnk) gid=1(staff)
```

- Correct:
 - \$ id bhnk

uid=258(bhnk) gid=1(staff) groups=205(dstage)



Tracing client logins – UNIX/Linux

- truss or strace against the dsrpcd process:
 - Get process ID (pid) of the dsrpcd process: ps –ef |grep dsrpcd
 - Attach the truss or strace to the running process You must be root or the owner of dsrpcd AIX: truss -fae –o /tmp/trace.out -p (processId) 2>&1 Linux: strace -fae -o /tmp/trace.out -p (processId) 2>&1
- Trace dsrpcd, refer to the IBM Education Assistant module: PDF:

http://www.ibm.com/support/knowledgecenter/im_iea/com.ibm.iea.datastage/datastage/8.1/ProblemDetermination/IEA_IPS_dsrpcd.pdf?dmuid=20110808162150967585

Demo:

http://www.ibm.com/support/knowledgecenter/im_iea/com.ibm.iea.datastage/datasta ge/8.1/ProblemDetermination/IEA_IPS_dsrpcd/player.html?dmuid=20110808162148 546009



Causes for 'could not connect to the server' (1 of 2)

- Invalid server name or port
 - Verify server name in datastage login screen ping <DataStage Server>
 - Verify port number is correct (for v11.3)
 - View the registered-servers.xml file under /InformationServer/ASBNode/eclipse/plugins/com.ibm.iis.client/ registered-servers.xml
 - Find "<asb-server"
 <asb-server name="myServer.newco.com"
 host-name="myServer.newco.com"
 port="9443"
 is-primary-server="true" />
 - For versions prior to 11.3, view registered-servers.xml file InformationServer/ASBNode/eclipse/plugins/com.ibm.isf.client_configuration_<is_version>/ registered-servers.xml
 - Find "<asb-server"

```
<asb-server name="myServer.newco.com"
```

host-name=" myServer.newco.com"

```
port="9080"
```

```
is-primary-server="true" />
```

- Client has invalid entry in hosts file for DataStage server
 - Check Windows\System32\drivers\etc\hosts

ds_ip_address host_short_name host_long_name



Causes for 'could not connect to the server' (2 of 2)

- Server listening port may be blocked by firewall
 - telnet <DataStage server> <port number>
 - Linux[®]

nc –v –z <host> <port>

- Check with network administrator to see if port 9443 is blocked
- WebSphere not running
 - Windows
 - Check IBM WebSphere[®] Application Server status => Started
 - UNIX[®] or Linux
 - ps -ef | grep java

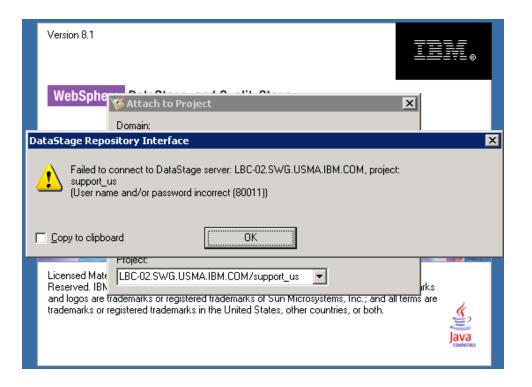
root 25468 1 0 May 02 ? 33:33 /u1/IBM/WebSphere/AppServer/java/bin/java ...

🍇 Services (Local)	_				
IBM WebSphere Application Server	Name 🛆	Description	Status	Startup Type	Log On As
V6 - rmanikon-2Node01	🍓 HID Input Service	Enables ge	Started	Automatic	Local System
	🍓 HTTP SSL	This servic		Manual	Local System
Stop the service Restart the service	🍓 IBM Content Delivery Service	Enables wi		Manual	Local System
	🦓 IBM InfoSphere Business Info	IBM InfoSp		Automatic	Local System
	🍓 IBM Standard Asset Manager		Started	Automatic	Local System
Description: Controls the running of an IBM	IBM WebSphere Application S	Controls th	Started	Automatic	Local System
WebSphere Application Server V6 server	🍓 IMAPI CD-Burning COM Service	Manages C		Manual	Local System
named: server1	🍓 Indexing Service	Indexes co		Manual	Local System
	🆏 InstallDriver Table Manager	Provides s		Manual	Local System
	PSEC Services	Manages I	Started	Automatic	Local System



What is error 80011?

- Failed to connect to DataStage server: <servername>, project: <projectname> (User name and/or password incorrect (80011)).
- This error indicates that the login to the DataStage server failed
- Many things can cause this error to occur
- Does not necessarily mean the password is incorrect





What can cause an 80011 error?

- On all operating systems:
 - Username or password, or both are incorrect
 - User ID has expired or is locked
 - User mapping has the incorrect user name or password
- On Windows®
 - The user may not have the correct user rights assigned
- On UNIX[®]/Linux[®]:
 - dsrpcd daemon is not running as the root user
 - PAM not configured properly on the DataStage server
 - DataStage is not configured properly to use PAM
 - Required libraries missing or incorrect



Problem with the user's login

- DataStage is setup to use Local OS Authentication
- Check if the Information Server Registry is shared or not shared
- Check if username and password is incorrect
- Check if user needs to change their password on first login
- Check if user ID has expired or is locked on the DataStage server
- Check that user can login to the DataStage server machine with same username and password

On UNIX and Linux:

- DataStage set to use PAM authentication also requires user to be able to login

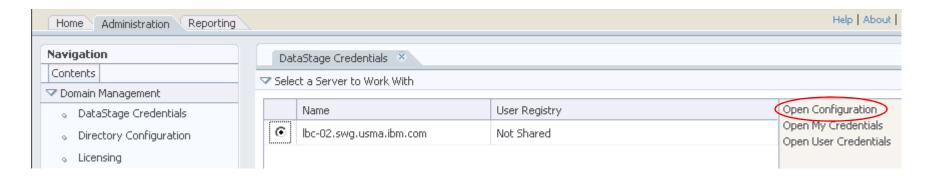
User mapping has incorrect username or password (1 of 2)

- Information Server User Registry set to "Not Shared"
- Check if user has an individual user credentials assigned

N	
lavigation	DataStage Credentials ×
Contents	Select a Server to Work With
Domain Management	Name User Registry Open Configuration
■ DataStage Credentials	Construction Construction
 Directory Configuration 	Ibc-02.swg.usma.ibm.com Not Shared Open User Credential
 Licensing 	
	Map User Credentials
	DataStage Assign User Credentials
	Suite Users QualityStage User Name:
	Operating
_	System Users Password:
	id=ldbrokaw,ou=people,dc=ipssupport,dc=ibm,dc=com dsadm Confirm Password:
	Image: State of the state o
	Apply Only to Users without Credentiale
	© 2015 IBM C

User mapping has incorrect username or password (2 of 2)

· Check default user credentials



♥ Open Configuration "lbc-02.swg.usma.ibm.com"	?
Server Configuration	
 Share User Registry between IBM Information Server and DataStage Server You can configure the IBM Information Server and a DataStage Server to authenticate users against the same User Registry (e.g. LDAP). If you don't want or can not share the same User Registry, you need to astablish credential mapping between the users defined in the registry used by the IBM Information Server and the one used by the DataStage Server. 	Default DataStage and QualityStage Credentials Define the default credentials below for users that don't have their own credential mapping. Otherwise leave blank to use only mapped credentials. User Name: dsadm Password: Confirm Password: Confirm Password:



Incorrect user rights assignment - Windows

- All users must have the "Allow Log on locally"
 - Windows 2008 and later must also have "Log on as a batch job"
 - Make sure user/group is not in Deny Logon locally and Deny Logon as batch

Address 🦏 Administrative Too	ls	•	
File and Folder Tasks * Share this folder	Component Services Shortcut 2 KB	Computer Management Shortcut 2 KB	
Other Places *	Data Sources (ODBC) Shortcut 2 KB	DESKTOP.INI Configuration Settings 1 KB	
Control Panel	Event Viewer Shortcut 2 KB	Local Security Policy Shortcut 2 KB	
9 My Computer 9 My Network Places	Microsoft .NET Framework 1.1 Configuration Shortcut		_ 🗆 🗙
Details ¥	Shortcut 2 KB	File Action View Help ← → □ □ □	
		Security Settings Policy Security Setting ▲ Account Policies ▲ Increase scheduling priorit ▲ Local Policies ▲ Increase scheduling priorit ▲ Local Policies ▲ Increase scheduling priorit ▲ Local Policies ▲ Increase scheduling priorit ▲ User Rights Assignment ▲ Log on as a batch job ▲ Security Options ▲ Log on as a service ▲ Software Restriction Policies ▲ Software Restriction Policies ▲ IP Security Policies on Local Com ▲ Modify firmware environment values ▲ Administrators ▲ Adm	•

dsrpcd daemon not running as root user – UNIX/Linux (1 of 3)

- · Client connections are done through the dsrpcd daemon process
- If Impersonation Mode is turned on, the daemon must be running as root
- Run "ps –ef|grep dsrpcd" to check who owns the dsrpcd process

```
$ ps -ef |grep dsrpcddsadm250561000:00:00 /opt/IS810/IBM/InformationServer/Server/DSEngine/bin/dsrpcd
```

- If it is running as any other user, check Impersonation Mode \$ cd \$DSHOME
- \$. ./dsenv

```
$ bin/smat -t | grep -i impersonation
```

- = 1
- If IMPERSONATION = 1 and the dsrpd is not running as root, check permission in \$DSHOME/bin

dsrpcd daemon not running as root user – UNIX/Linux (2 of 3)

- Change directories to the \$DSHOME/bin directory
- Check the permissions

```
$ Is -I |grep rws
-rws-x--x 1 root dsadm 54912 Sep 4 2008 DBsetup
-rwsr-x--x 1 root dsadm 1318396 Sep 4 2008 dsdlockd
-rwsr-x--x 1 root dsadm 1287944 Sep 4 2008 dslictool
-rws--x--x 1 root dsadm 6952 Sep 4 2008 dstskup
-rwsr-x--x 1 root dsadm 1299916 Sep 4 2008 list_readu
-rwsr-x--x 1 root 1290580 Sep 9 15:02 load_NLS_shm
-rwsr-x--x 1 root dsadm 44452 Sep 4 2008 uv
```

• Fix permissions and stop and restart DataStage

dsrpcd daemon not running as root user – UNIX/Linux (3 of 3)

- Impersonation Mode off
- Permissions need to be set correctly
 - Platform specific
- Review IEA module on running Information Server DataStage engine as non-root
 <u>http://www.ibm.com/support/docview.wss?uid=swg27024947</u>



Impersonation mode off – AIX only

- Cannot use PAM authentication for the DataStage engine
 - AIX requires the pam_aix library to be accessed by a process running as root
- See tech note:

https://www.ibm.com/support/docview.wss?uid=swg21516230

PAM not configured properly on DataStage Server – UNIX/Linux

- DataStage authenticates against the local operating system by default
- DataStage can be configured to authenticate using PAM
- DataStage Server must be configured to use PAM
- Be sure LDAP users can login to the DataStage server
- Check if there is a username in /etc/passwd with the same username
- Test with a user that is not in /etc/passwd



DataStage not configured properly for PAM – UNIX/Linux

- DataStage needs to be configured to use PAM authentication
- Check uvconfig AUTHENTICATION setting \$ cd \$DSHOME
 \$../dsenv
 \$ bin/smat -t | grep -i authentication AUTHENTICATION = 1
- · Check that the dsepam file/entries created
- Review DataStage and PAM configuration at:
 - <u>http://www.ibm.com/support/knowledgecenter/SSZJPZ_11.3.0/com.ibm.swg.im.iis.found.admin.common.doc/topics/ws_isinst_config_pam.html?lang=en</u>
- If you are on AIX[®], also see tech note 1398309
 - http://www.ibm.com/support/docview.wss?uid=swg21398309



Required PAM libraries missing or incorrect – UNIX/Linux

- Check that the path for PAM libraries for the dsepam entries are correct
- Be sure that PAM and DataStage libraries have the same bitness (32bit versus 64 bit) Example:

\$ file \$DSHOME/bin/uvsh

/u2/IS810/IBM/InformationServer/Server/DSEngine/bin/uvsh: 64-bit XCOFF executable or object module not stripped

\$ file /usr/lib/security/64/pam_aix

/usr/lib/security/64/pam_aix: 64-bit XCOFF executable or object module not stripped



Thank you for joining.

Are there any questions?