



QGrip-UI

Application Menu

GRIP ON SOL

2025-01-12

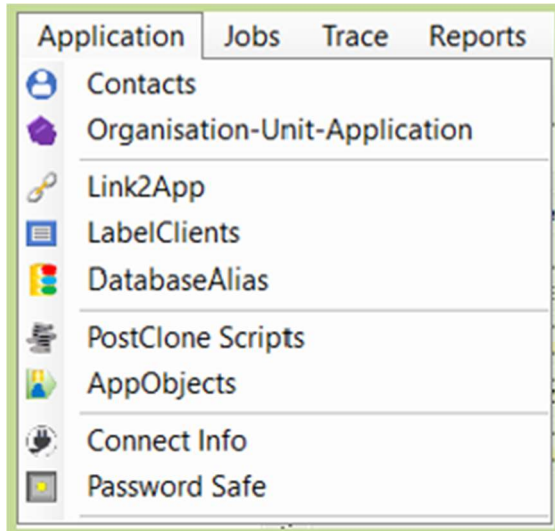
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1 Introduction

This document describes all items in the Application Menu of the QGrip-UI.



2 Contacts

Required Authorisation	Menu
Edit Organisation/Unit/Application	Application -> Contacts

Recommended documentation

Doc-Tab	Title	Section
QGrip-UI	Admin Menu	Import & Export

2.1 Contacts & Mailing Lists

You can add up to 6 Contacts to each application.

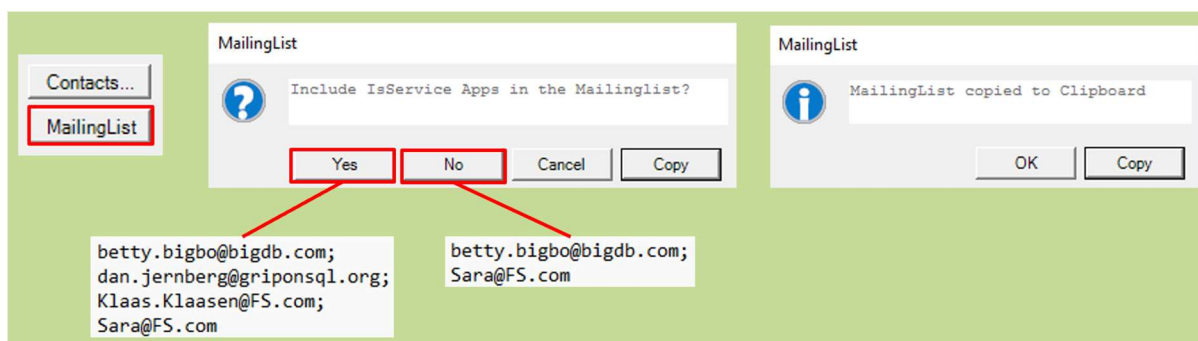
A Contact can either work for a Supplier or be Internal (No Supplier).

A Contact can be added as Contact to multiple Applications.

Unit	Application	IsService	CNr	Contact	Email	Phone	Role	Supplier
Sales	PSH-Pushy	<input type="checkbox"/>	1	Sara Johnsson	Sara@FS.com	+31 6 987 654 32	Developer	FS
Sales	TDE-TestApp	<input type="checkbox"/>	1	Betty Bigboooo	betty.bigbo@bigdb.com	+31 06123 456 78	ServiceManager	BIGDB
IT-Service	NT-SERVICE	<input checked="" type="checkbox"/>	1	Klaas Klaasen	Klaas.Klaasen@FS.com	+13 6 123 456 78	ServiceManager	
IT-Service	QGrip	<input checked="" type="checkbox"/>	1	Dan Jemberg	dan.jemberg@gripnsql.org	+31 (0) 638 176 624	QGrip Admin/Support	Grip on SQL BV
IT-Service	QGrip	<input checked="" type="checkbox"/>	2	Klaas Klaasen	Klaas.Klaasen@FS.com	+13 6 123 456 78	ServiceManager	
IT-Service	SQL-Stuff	<input checked="" type="checkbox"/>	1	Klaas Klaasen	Klaas.Klaasen@FS.com	+13 6 123 456 78	ServiceManager	
IT-Service	tempdb	<input checked="" type="checkbox"/>	1	Klaas Klaasen	Klaas.Klaasen@FS.com	+13 6 123 456 78	ServiceManager	

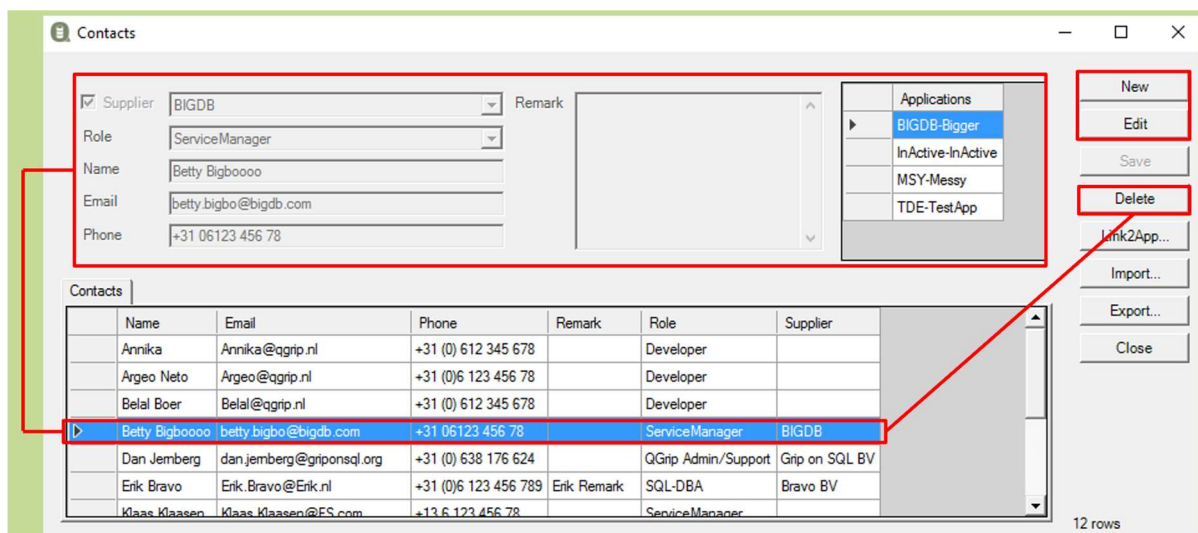
When you click on the [Contacts...] button in the QGrip-UI, you will see the list of the Contacts that has a relation to the Current object. The [Contacts...] button can be found on:

- Organisation
- Unit
- Application
- Instance
- Server
- Cluster
- ClusterNode
- AvailabilityGroup
- Listener



When you click on the [MailingList] button in the QGrip-UI, you will be asked if you want to Include 'IsService Apps' or not. QGrip will select the distinct Email addresses of the Contacts and copy the list to Clipboard.

2.2 Contacts Window



Mandatory & Unique: Name

New: Press New to enter edit mode to add a new Contact.

Edit: Press Edit to enter edit mode to modify the current Contact.

Save: Press Save to save changes to current Contact. The edit mode will be exited.

Cancel: Press Cancel to exit edit mode without saving changes.

Delete: Select rows in the Contacts tab and press Delete to delete Contacts.

Link2App: Press Link2App to open 'Link Contacts to Application' window, see below.

Import: Press Import to open 'Import : Contacts' window, see QGrip-UI->Admin Menu->Import.

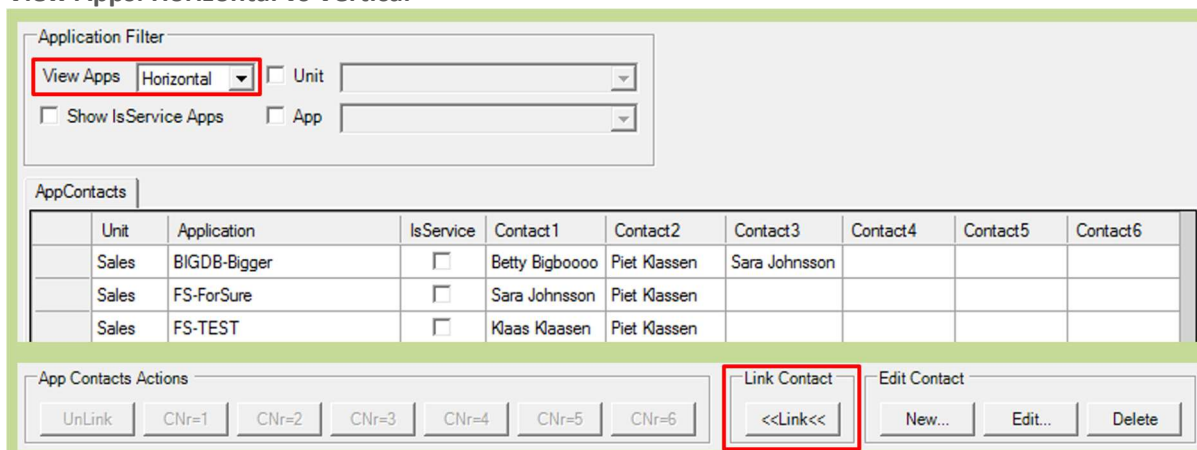
Export: Press Export to open 'Export : Contacts' window, see QGrip-UI->Admin Menu->Export.



Right Click on Supplier/Role Drop-Down to Add, Rename or Delete occurrence. When deleted, the occurrence will be deleted everywhere where it is being used.

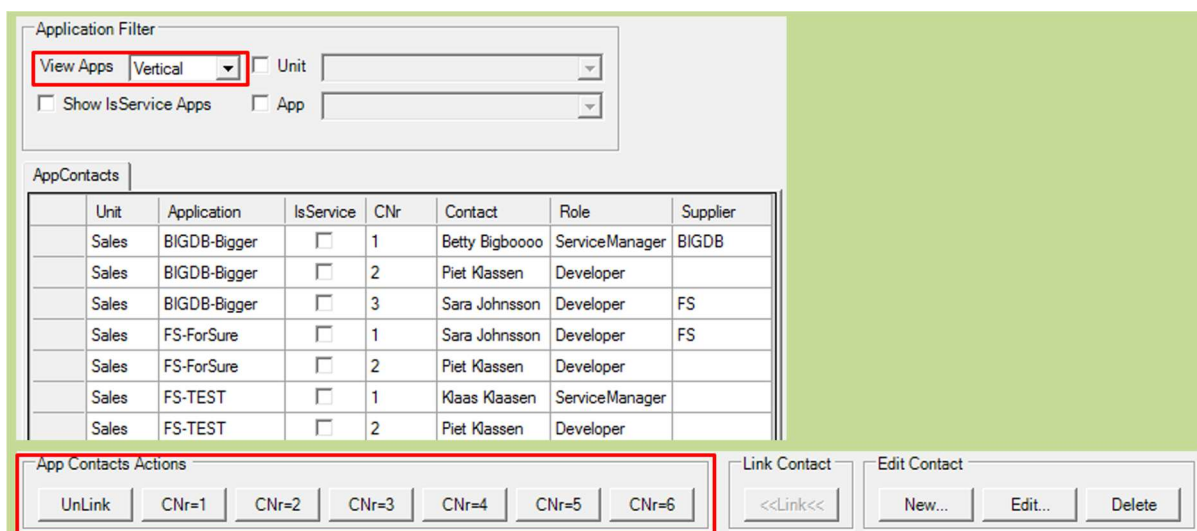
2.3 Link Contacts to Applications Window

View Apps: Horizontal vs Vertical



Unit	Application	IsService	Contact1	Contact2	Contact3	Contact4	Contact5	Contact6
Sales	BIGDB-Bigger	<input type="checkbox"/>	Betty Bigboooo	Piet Klassen	Sara Johnsson			
Sales	FS-ForSure	<input type="checkbox"/>	Sara Johnsson	Piet Klassen				
Sales	FS-TEST	<input type="checkbox"/>	Klaas Klaasen	Piet Klassen				

Horizontal: One row per Application, the Contacts are listed in columns Contact1 – Contact6. The button to Link Contact to Applications is Enabled, App Contacts Actions are Disabled.



Unit	Application	IsService	CNr	Contact	Role	Supplier
Sales	BIGDB-Bigger	<input type="checkbox"/>	1	Betty Bigboooo	ServiceManager	BIGDB
Sales	BIGDB-Bigger	<input type="checkbox"/>	2	Piet Klassen	Developer	
Sales	BIGDB-Bigger	<input type="checkbox"/>	3	Sara Johnsson	Developer	FS
Sales	FS-ForSure	<input type="checkbox"/>	1	Sara Johnsson	Developer	FS
Sales	FS-ForSure	<input type="checkbox"/>	2	Piet Klassen	Developer	
Sales	FS-TEST	<input type="checkbox"/>	1	Klaas Klaasen	ServiceManager	
Sales	FS-TEST	<input type="checkbox"/>	2	Piet Klassen	Developer	

Vertical: One row per Application/Contact combination. The CNr (ContactNr) indicates the Contacts order for the Application.

The button to Link Contact to Applications is Disabled, App Contacts Actions are Enabled.

1. View Apps: Horizontal

2. Select the Contact

3. Select the Applications

4. Push [<<Link<<] button

Unit	Application	IsService	Contact1	Contact2	Contact3	Contact4
Sales	BIGDB-Bigger	<input type="checkbox"/>	Betty Bigboooo	Piet Klassen	Sara Johnsson	
Sales	FS-ForSure	<input checked="" type="checkbox"/>	Sara Johnsson	Piet Klassen		
Sales	FS-TEST	<input type="checkbox"/>	Klaas Klaasen	Piet Klassen		
Sales	InActive-InActive	<input checked="" type="checkbox"/>	Piet Klassen	Betty Bigboooo		
Sales	MSY-Messy	<input type="checkbox"/>	Betty Bigboooo	Sara Johnsson		
Sales	NEWAPP-The new Application	<input type="checkbox"/>				
Sales	PSH-Pushy	<input checked="" type="checkbox"/>	Sara Johnsson			

Contact	Role	Supplier
Annika	Developer	
Argeo Neto	Developer	
Belal Boer	Developer	
Betty Bigboooo	ServiceManager	BIGDB
Dan Jernberg	QGrip Admin/Support	Grip on SQL BV
Erik Bravo	SQL-DBA	Bravo BV
Klaas Klaasen	ServiceManager	
Piet Klassen	Developer	
Pietje		
Sara Johnsson	Developer	FS
Victor Bennett	SQL-DBA	Bennett BV
Zwarte Piet	Developer	

Link Contact:

1. View Apps: Horizontal
2. Select the Contact
3. Select the Applications
4. Push [<<Link<<] button
5. Confirm the action in the Popup.

1. View Apps: Vertical

2. Select the Contacts

3. Push [UnLink] button

Unit	Application	IsService	CNr	Contact	Role	Supplier
Sales	FS-ForSure	<input checked="" type="checkbox"/>	3	Belal Boer	Developer	
Sales	InActive-InActive	<input checked="" type="checkbox"/>	3	Belal Boer	Developer	
Sales	PSH-Pushy	<input checked="" type="checkbox"/>	2	Belal Boer	Developer	
Sales	BIGDB-Bigger	<input checked="" type="checkbox"/>	1	Betty Bigboooo	ServiceManager	BIGDB
Sales	InActive-InActive	<input checked="" type="checkbox"/>	2	Betty Bigboooo	ServiceManager	BIGDB
Sales	MSY-Messy	<input checked="" type="checkbox"/>	1	Betty Bigboooo	ServiceManager	BIGDB
Sales	TDE-TestApp	<input checked="" type="checkbox"/>	1	Betty Bigboooo	ServiceManager	BIGDB
Sales	FS-TEST	<input type="checkbox"/>	1	Klaas Klaasen	ServiceManager	

UnLink Contact:

1. View Apps: Vertical
2. Select the Contacts
3. Push [UnLink] button
4. Confirm the action in the Popup.

1. **2.** **3.**

Link Contacts to Applications

Application Filter

☒ View Apps ☐ Vertical ☐ Unit ☐ Show IsService Apps ☐ App

AppContacts

	Unit	Application	IsService	CNr	Contact	Role	Supplier
	Sales	BIGDB-Bigger	<input type="checkbox"/>	1	Piet Klassen	Developer	
	Sales	BIGDB-Bigger	<input type="checkbox"/>	2	Sara Johnsson	Developer	FS
	Sales	BIGDB-Bigger	<input type="checkbox"/>	3	Betty Bigboooo	ServiceManager	BIGDB
	Sales	BIGDB-Bigger	<input type="checkbox"/>	4	Erik Bravo	SQL-DBA	Bravo BV
	Sales	BIGDB-Bigger	<input type="checkbox"/>	5	Victor Bennett	SQL-DBA	Bennett BV
	Sales	FS-ForSure	<input type="checkbox"/>	1	Sara Johnsson	Developer	FS
	Sales	FS-ForSure	<input type="checkbox"/>	2	Piet Klassen	Developer	
	Sales	FS-ForSure	<input type="checkbox"/>	3	Argeo Neto	Developer	
	Sales	FS-ForSure	<input type="checkbox"/>	4	Betty Bigboooo	ServiceManager	BIGDB
	Sales	FS-ForSure	<input type="checkbox"/>	5	Victor Bennett	SQL-DBA	Bennett BV

App Contacts Actions

Change Contact Number:

1. View Apps: Vertical
2. Select the Contacts
3. Push [Cnr=X] button
4. Confirm the action in the Popup.

Contacts

	Contact	Role	Supplier
	Annika	Developer	
	Argeo Neto	Developer	
	Belal Boer	Developer	
	Betty Bigboooo	ServiceManager	BIGDB
	Dan Jemberg	QGrip Admin/Support	Grip on SQL BV
	Erik Bravo	ServiceManager	Bravo BV
	Klaas Klaasen	ServiceManager	
	Piet Klassen	Developer	
	Pietje		
	Sara Johnsson	Developer	FS
	Victor Bennett	SQL-DBA	Bennett BV
	Zwarte Piet	Developer	

Link Contact

Edit Contact

Edit Contact:

To quickly edit, delete or add new contact, use the Contact Edit buttons.
Edit and Delete acts on the selected Contacts row.

3 Organisation-Unit-Application

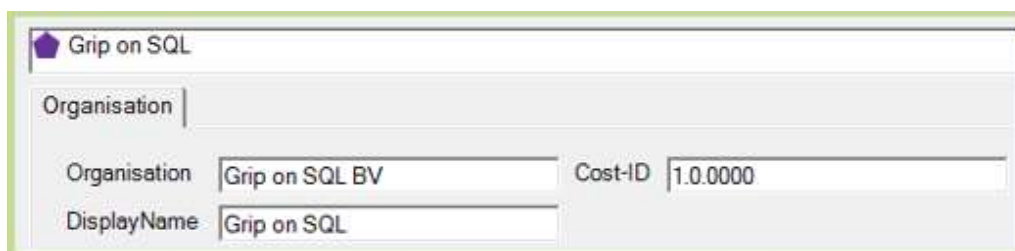
Required Authorisation	Menu
Edit Organisation/Unit/Application	Application -> Organisation-Unit-Application

Recommended documentation

Doc-Tab	Title	Section
Basics	Substitution & Naming conventions	
Application	Organisation-Unit-Application	
Application	Default DB Host & Environments	

In the Organisations window, you can add new Organisations, Units and Applications to QGrip or edit/delete existing ones.

3.1 Organisation



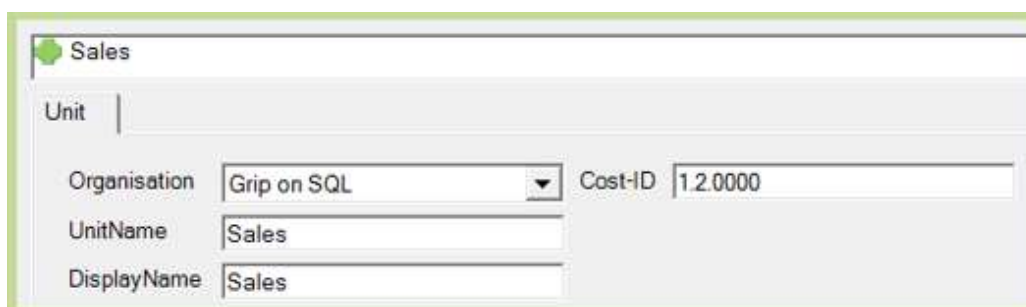
When adding or editing an Organisation you need to enter:

Field	Description
Organisation (*)	The name of the Organisation.
DisplayName (*)	The name shown in QGrip, preferably same as Organisation.
Cost-ID	Identification to be used in Charges, Split Costs.

(*) Unique

Deleting an Organisation with underlying Units is not possible.

3.2 Unit



When adding or editing a Unit you need to enter:

Field	Description
Organisation	Owning Organisation.
Unit Name (*)	The name of the Unit.

DisplayName (*)	The name shown in QGrip, preferably same as Unit Name.
Cost-ID	Identification to be used in Charges, Split Costs.

(*) Unique

Deleting a Unit owning Applications is not possible.

3.3 Application

Right-Click on the Supplier drop-down to Add New, Rename or Delete supplier.

When adding or editing an application you need to enter:

Field	Description
Unit	Owning Unit.
App Name (*) (***)	The technical name of the Application.
App Key (*) (***)	The Key Identifier used for the Application.
DisplayName (*)	The name shown in QGrip, preferably a combination of AppName and AppKey.
IsService	Check IsService if the application is a service.
IsClusterAware	Check IsClusterAware if application is Failover proof in a SQL AlwaysOn environment.
Cost-ID (**)	Identification to be used in Charges, Split Costs.
CMDB-ID (**)	The identifier used for application in organisation CMDB.
Supplier	If applicable select, right-click to Add/Rename/Delete.

(*) Unique

(**) By default, filled with AppKey.

(***) AppName + AppKey should be without spaces and special characters.

This will be checked and cause error message.

Deleting an Application linked to (Infra) objects is not possible.

3.4 Default DB Host and Environments

Default DB Hosts are necessary when you want to create new Databases and/or Logins (App Objects) for an application. Initially you do not need to enter them. During the Link2App process the default DB Hosts and environments will be automatically added whenever possible.

Default DB Host

1. Instance (Stand Alone)
2. Listener (Always on Cluster)

When defining Default DB Hosts, you can do it on all levels:

1. Organisation
2. Unit
3. Application

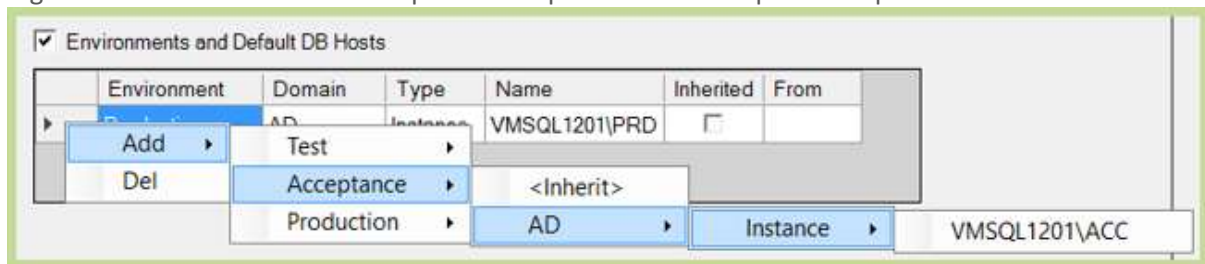
The Default DB Hosts can be inherited from the owning entity.

Save first

On all levels you need Save a new entity before you can check the 'Default DB Host' check box and you need to save afterwards as well.

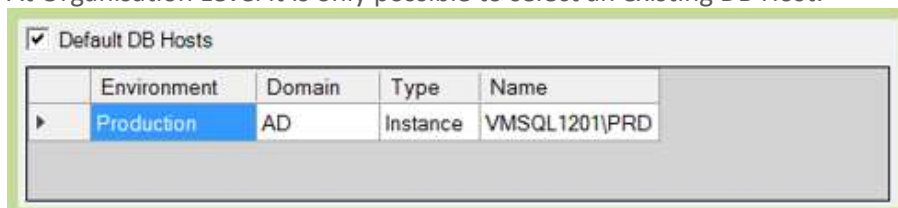
Set by Right-Click

Right-Click in the Default DB Host panel will open a menu with possible options:



Organisation Level

At Organisation Level it is only possible to select an existing DB Host.



Unit Level

At Unit Level you can either select an existing DB Host or Inherit. If you choose Inherit, the DB Host will be inherited from the owning Organisation. If you add an Inherited DB Host but it is not yet defined or has been removed at the parent level, the DB Host will remain empty until added at parent level.



Acceptance is Inherited and not yet defined at Organisation level.

Application Level

At Application Level you can either select an existing DB Host or Inherit. If you choose Inherit, the DB Host will be inherited from the owning Unit. If not set at Unit level the owning Organisation will apply. If you add an Inherited DB Host, but it is not yet defined or has been removed at the parent level, the DB Host will remain empty until added.

✓ Environments and Default DB Hosts						
	Environment	Domain	Type	Name	Inherited	From
▶	Test				✓	
	Acceptance	AD	Instance	VMSQL1201\ACC	✓	Unit
	Production	AD	Listener	AG_LIST_01	□	

At application level the Default Instances is in combination with environments. When you add a new application to QGrip, this is where you will specify which Environments (DTAP) the application will have.

Note

Using Inherited Default Instances is a possibility but completely optional and should only be used if your organisation/architecture is suited for it.

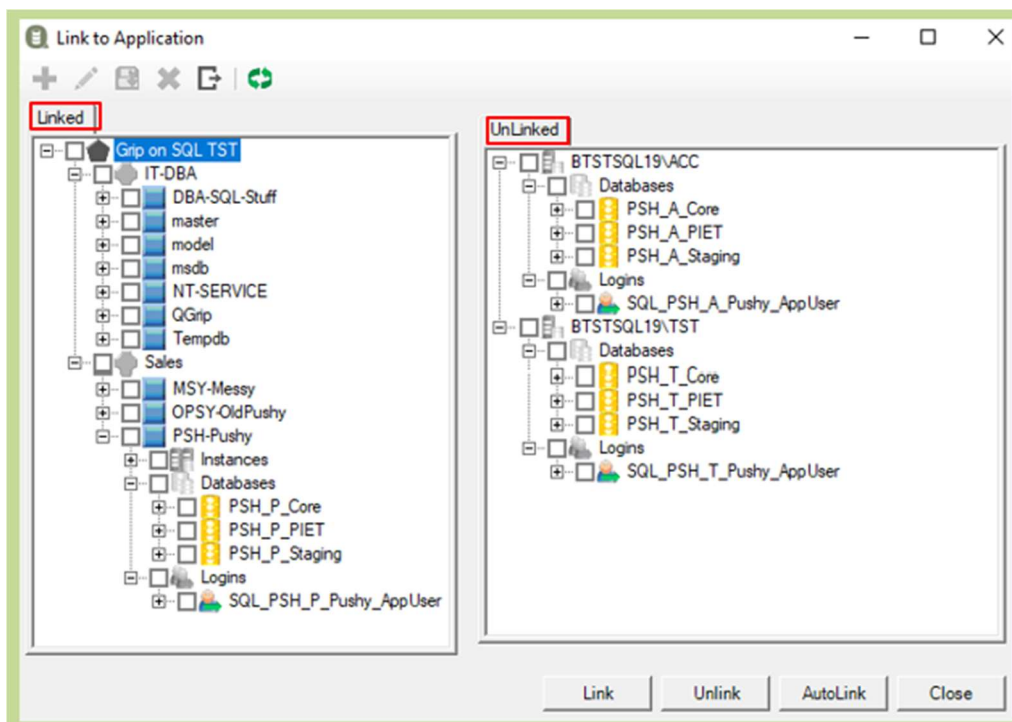
4 Link2App


Required Authorisation	Menu
Link Objects to Application	Application -> Link2App

After the Discover of an Instance, all newly found objects need to be linked to an application, that is considered to be the owner of the object. An object can only have one owner.

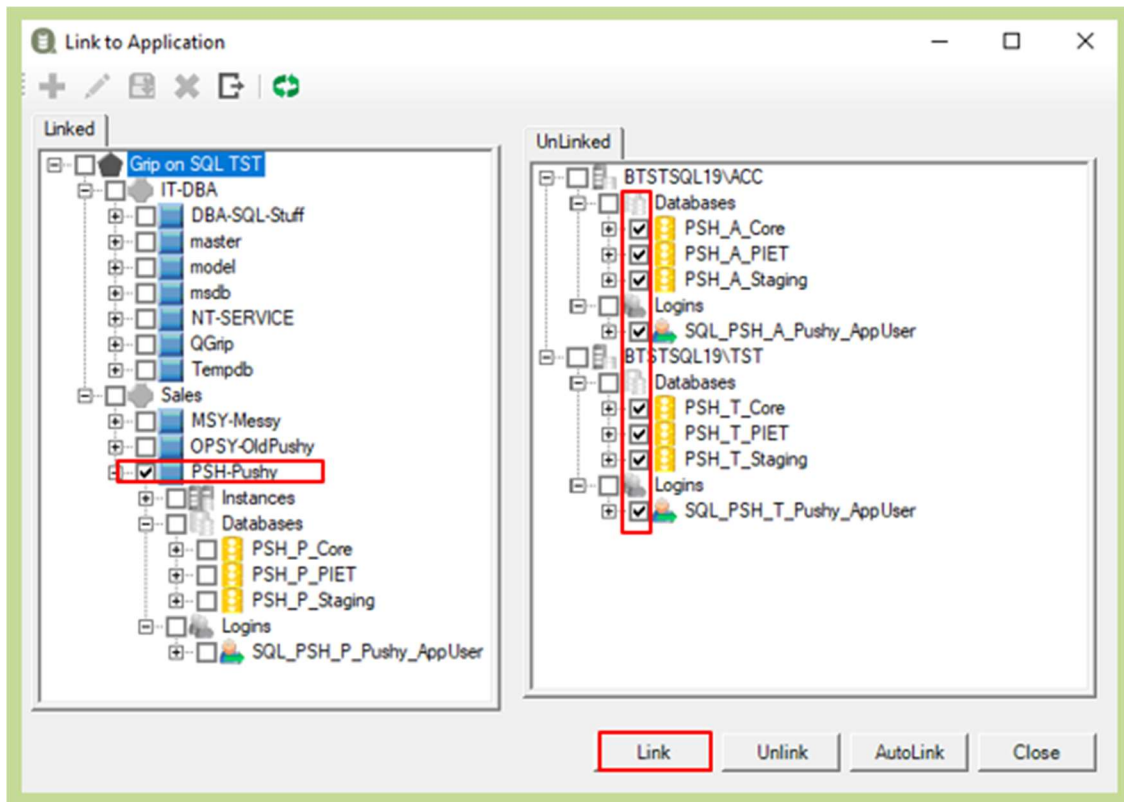
Be careful when linking the objects. When an object is linked to the wrong Application, it might be accessed and changed and in the worst case dropped by the wrong team. This also influences the Charges (Split Costs).

When you first start using QGrip, you will probably be confronted with objects of which the owner and status is unknown. A possible temporary solution is creating a fake Application and link the unclear objects to that Application and sort them out later. Make sure to define the Application as 'Is Service' to avoid confusion as the objects will probably be spread out over several Instances.

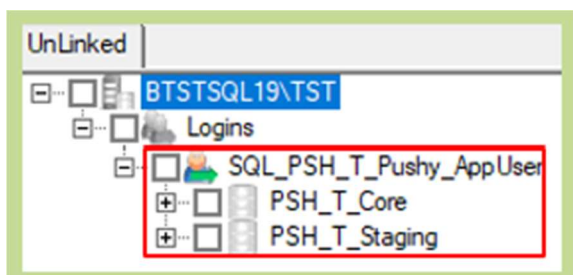


The left Explorer contains the objects that have already been linked to applications and in the right Explorer all objects that need to be linked. Use the  button in the toolbar to refresh the Explorers whenever needed. The aim is to keep the right Explorer empty. A warning will be issued when there are Unlinked objects.

4.1 Link Objects

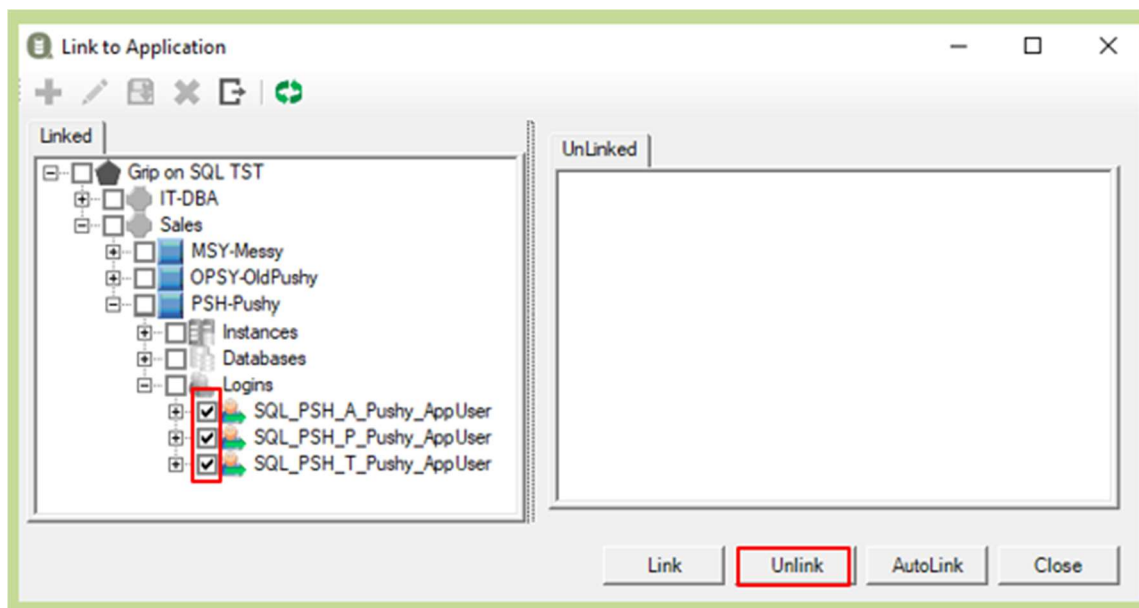


Check the objects you want to link to an application in the right Explorer and check the application in the left Explorer and press Link. The objects will be moved to the application in the left Explorer and disappear in the right. Object with grey 'disabled' icons cannot be checked.



If an unlinked Login is DatabaseUser in one or more databases, the databases will be shown under the Login. This might help you to determine the correct Application to link to.

4.2 Unlink Objects



Check the objects you want to unlink in the left Explorer and press Unlink. The objects will be moved to the right Explorer and disappear in the left. Object with grey 'disabled' icons cannot be checked.

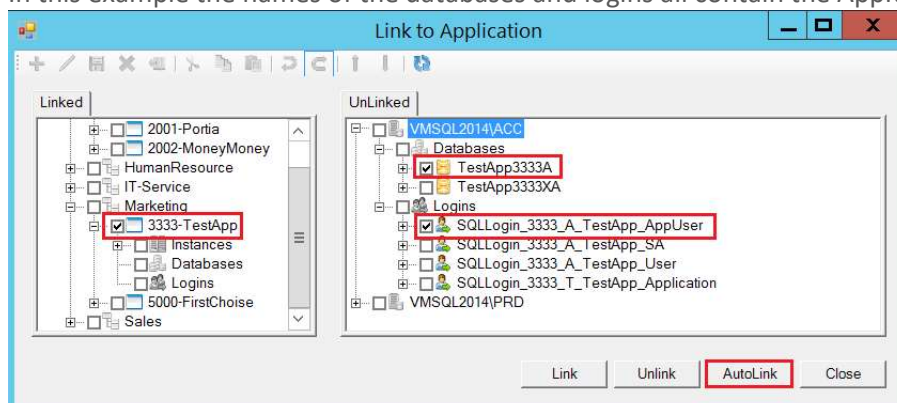
4.3 AutoLink Objects

Defining AutoLink rules is great way of minimizing the effort and time spent on Linking objects to an application. How often you can apply it, depends on how standard the names of the objects are in your Organisation. Changes to AutoLink Rules only apply to future AutoLink actions and will never affect already linked object.

Before Save and Delete, confirmation is needed.

4.3.1 Adding AutoLinkRule(s)

In this example the names of the databases and logins all contain the AppKey 3333.



Check the application (3333-TestApp) and one of the databases and one of the logins and press AutoLink. The AutoLink window will open:

Auto Link Objects

Application: 0000-QGrip
 ObjectType: AgentJob
 ObjectName:

New
 Save
 Delete
 Close

SelectedByYou | AutolinkRules

ObjectType	ObjectName	Application
Database	TestApp3333A	3333-TestApp
Login	SQLLogin_3333_A_TestApp_AppUser	3333-TestApp

In the Tab SelectedByYou the database and logins selected are visible for the selected Application 3333-TestApp. The Application, ObjectType and ObjectName in the input section does not yet contain what we want. By selecting one of the rows in SelectedByYou, the input section will be filled with the values of that row.

Auto Link Objects

Application: 3333-TestApp
 ObjectType: Database
 ObjectName: TestApp3333A

New
 Save
 Delete
 Close

SelectedByYou | AutolinkRules

ObjectType	ObjectName	Application
Database	TestApp3333A	3333-TestApp
Login	SQLLogin_3333_A_TestApp_AppUser	3333-TestApp

Insert Wildcard
 All-Chars
 None-Digit
 One-Char
 One-Digit

Auto Link Objects

Application: 3333-TestApp
 ObjectType: Database
 ObjectName: %3333%

New
 Save
 Delete
 Close

SelectedByYou | AutolinkRules

ObjectType	ObjectName	Application
Database	TestApp3333A	3333-TestApp
Login	SQLLogin_3333_A_TestApp_AppUser	3333-TestApp

Adjust the ObjectName either by using Right-Click and select a wild card or enter '%' manually and click save. The Database row has now disappeared in the Tab SelectedByYou. Do the same for the row with the Login in the Tab SelectedByYou.

Auto Link Objects

Application: 3333-TestApp
 ObjectType: Database
 ObjectName: %3333%

New
 Save
 Delete
 Close

SelectedByYou | AutolinkRules

ObjectType	ObjectName	Application
Database	%3333%	3333-TestApp
Login	%3333%	3333-TestApp

The new AutoLink rules have been added in the Tab AutolinkRules. All databases and logins with %3333% in their name will automatically be linked to Application 3333-TestApp.

4.3.2 Changing existing AutoLinkRule

Auto Link Objects

Application: 0005-NT-SERVICE
 ObjectType: Login
 ObjectName: NT SERVICE\%

New
 Save
 Delete
 Close

SelectedByYou	AutolinkRules	ObjectType	ObjectName	Application
		Login	NT SERVICE\%	0005-NT-SERVICE
		AgentJob	QGrip-LoginLastActive	0000-QGrip

Select the row you want to change to fill the input fields. Adjust the input fields and press Save.

4.3.3 Delete AutolinkRule(s)

Auto Link Objects

Application: 3333-TestApp
 ObjectType: Login
 ObjectName: %3333%

New
 Save
 Delete
 Close

SelectedByYou	AutolinkRules	ObjectType	ObjectName	Application
		Database	%3333%	3333-TestApp
		Login	%3333%	3333-TestApp

Select the rows you want to delete and press Delete.

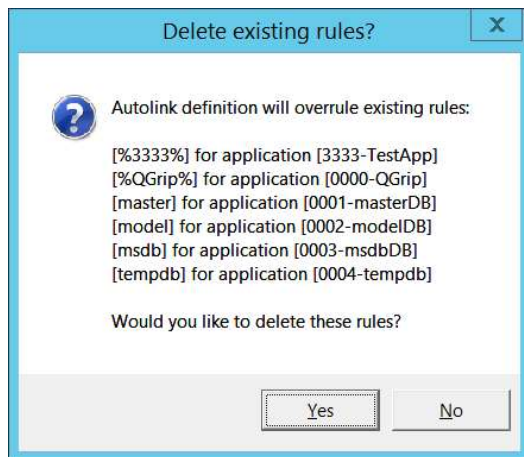
4.3.4 Overlapping AutolinkRule(s)

Auto Link Objects

Application: 0006-SQL-Stuff
 ObjectType: Database
 ObjectName: %

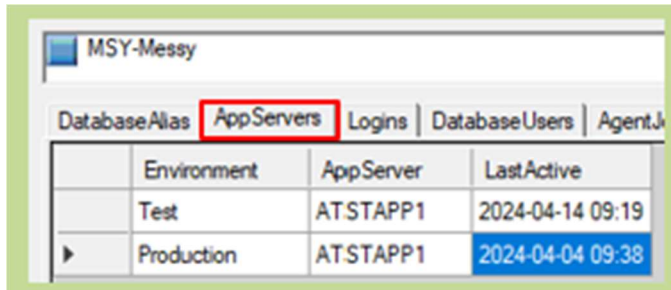
New
 Save
 Delete
 Close

Consider the AutolinkRule above that would apply to every database. If you try to add a rule that will overrule existing rules you will get a warning/question:



5 Label Clients

Required Authorisation	Menu
Label Client	Application -> Label Client



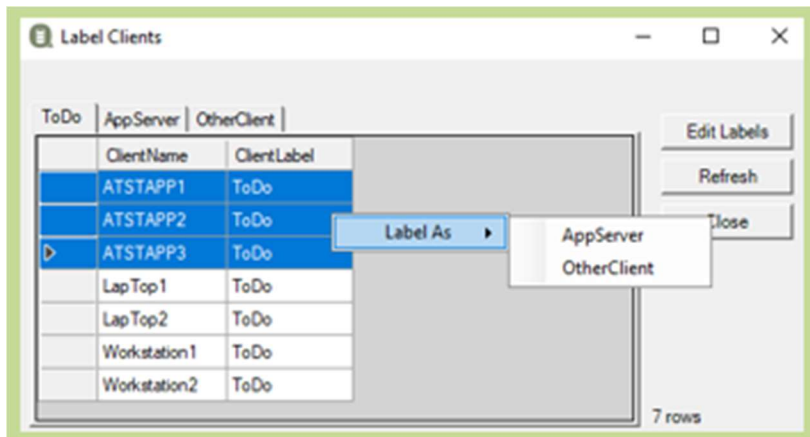
MSY-Messy		
DatabaseAlias	AppServers	Logins DatabaseUsers AgentJ
Environment	AppServer	LastActive
Test	ATSTAPP1	2024-04-14 09:19
Production	ATSTAPP1	2024-04-04 09:38

The Discover process collects connecting Clients on the Instances.

By labelling these clients as 'AppServer' (Application Server) or 'OtherClient', a list of AppServer is produced. In the QGrip CMDB, this list can be presented per Application.

Label Clients:

Labelling Clients is straight forward.



ToDo	AppServer	OtherClient
ClientName	ClientLabel	
ATSTAPP1	ToDo	
ATSTAPP2	ToDo	
ATSTAPP3	ToDo	
LapTop1	ToDo	
LapTop2	ToDo	
Workstation1	ToDo	
Workstation2	ToDo	

7 rows

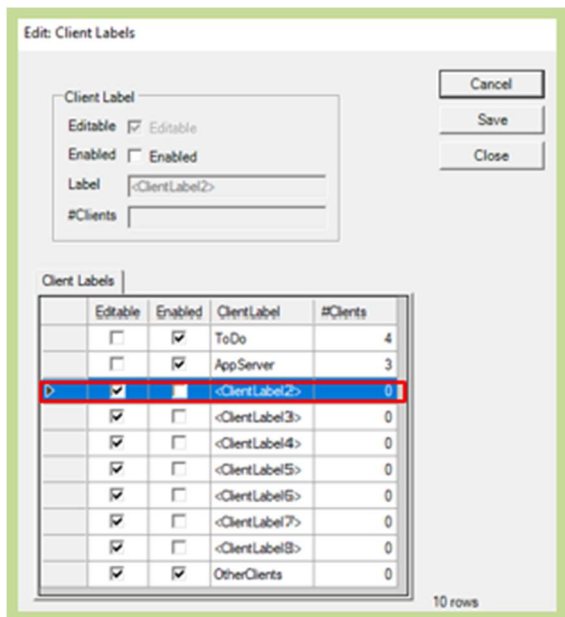
In the ToDo tab, select rows, right click, select the Label.

You can do the same in all tabs to correct mistakes.

Add your own labels

Next to the 'ToDo' and 'AppServer' labels that cannot be changed, you can add up to 8 labels.

Click on the Edit Labels button.



Edit: Client Labels

Client Label

Editable ☒ Editable

Enabled ☐ Enabled

Label

#Clients

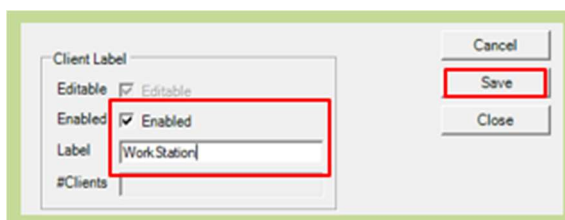
Cancel Save Close

Client Labels

Editable	Enabled	ClientLabel	#Clients
<input type="checkbox"/>	<input checked="" type="checkbox"/>	ToDo	4
<input type="checkbox"/>	<input checked="" type="checkbox"/>	AppServer	3
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<ClientLabel2>	0
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<ClientLabel3>	0
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<ClientLabel4>	0
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<ClientLabel5>	0
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<ClientLabel6>	0
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<ClientLabel7>	0
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<ClientLabel8>	0
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	OtherClients	0

10 rows

Select the first row that is not Enabled and press Edit to enter Edit mode.



Edit: Client Labels

Client Label

Editable ☒ Editable

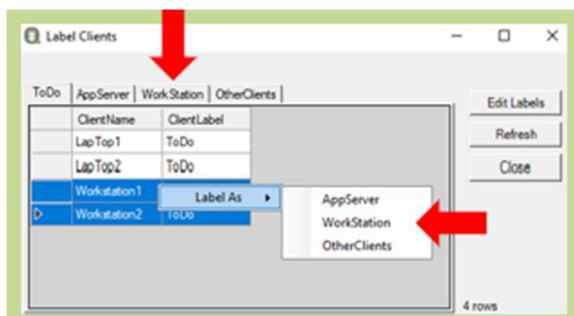
Enabled ☒ Enabled

Label

#Clients

Cancel Save Close

Check the Enabled Checkbox and enter the Label, Workstation in the example. Press save.



Label Clients

ToDo AppServer Work.Station OtherClients

ClientName	ClientLabel
LapTop1	ToDo
LapTop2	ToDo
Workstation1	Label As
Workstation2	ToDo

4 rows

Edit Labels Refresh Close

When returning to the Label Client Window, a tab Workstation has been added and you can label Clients as Workstation.

6 Database Alias

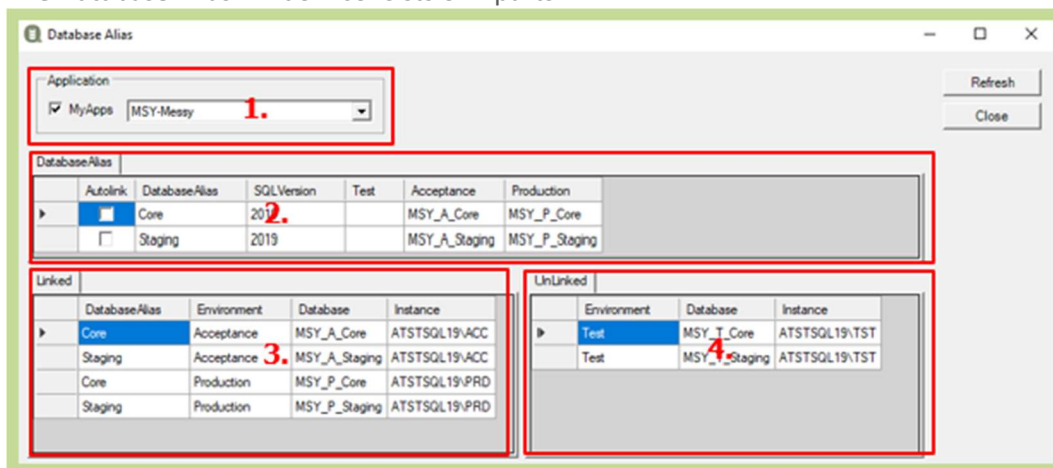
Required Authorisation	Menu
Edit Database Alias (*)	Application -> DatabaseAlias

(*) For the Application

Recommended documentation

Doc-Tab	Title	Section
Basics	Database Alias	

The Database Alias window consists of 4 parts:



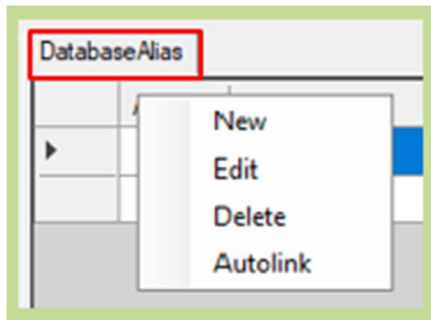
1. Application Selection.
2. Existing Database Aliases including overview databases.
3. Databases linked to a Database Alias.
4. Databases that need to be linked to a Database Alias. This panel should always be empty.

To add, delete, edit, link or unlink, right-click in the panels (2-4) to open the popup Menu.

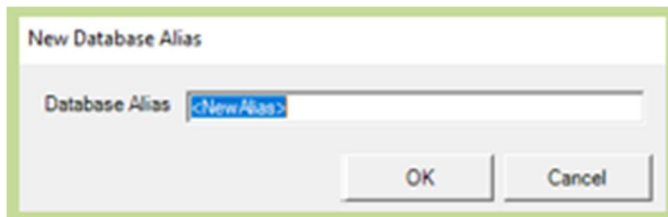
All changes have immediate effect and are automatically saved.

In panel 3 and 4 you need to select the rows (not cells) in order to Link/Unlink.

6.1 Database Alias: New, Edit, Delete

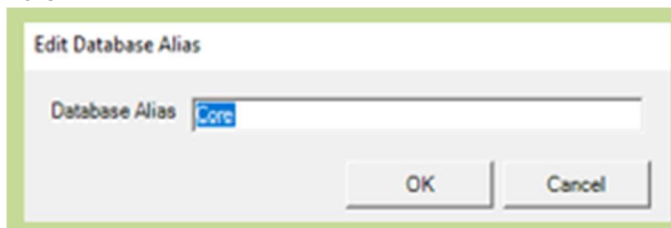


New



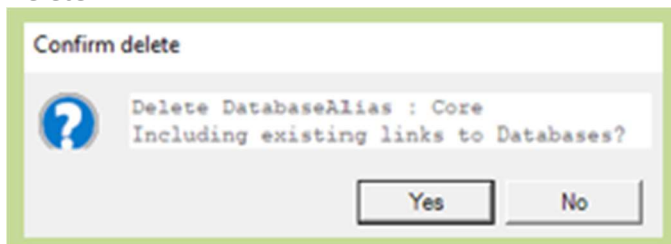
Specify Database Alias (name)

Edit



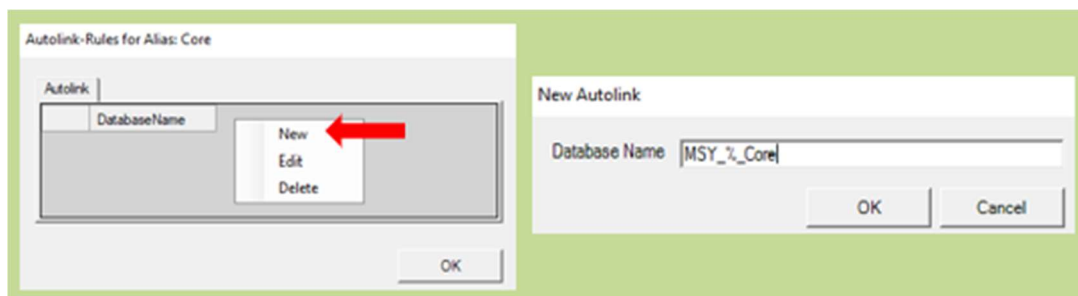
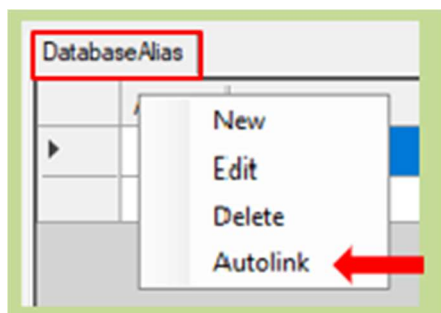
Change the Database Alias (name)

Delete



Deletes the Database Alias and all databases linked to it will become Unlinked.

6.2 Database Alias: Autolink



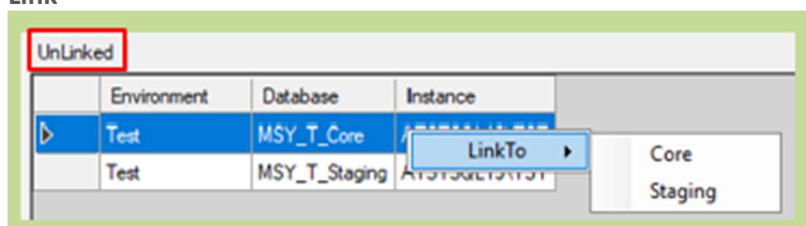
It is possible to define Autolink rules to the database alias, based on the Database name and using the normal SQL Server wildcards to match. The Autolink rule will only be applied to databases that have not yet been linked to a database alias.

DatabaseAlias						
	Autolink	DatabaseAlias	SQLVersion	Test	Acceptance	Production
▶	<input type="checkbox"/>	Core	2019	MSY_T_Core	MSY_A_Core	MSY_P_Core
	<input checked="" type="checkbox"/>	Staging	2019	MSY_T_Staging	MSY_A_Staging	MSY_P_Staging

When a there are Autolink rules present for a database alias, this will be indicated with a checked box in the Autolink column.

6.3 Database Alias: Link

Link



Select rows, right-click and choose the appropriate Database Alias.

6.4 Database Alias: Unlink

Unlink

Linked				
	DatabaseAlias	Environment	Database	Instance
	Core	Test	MSY_T_Core	ATSTSQL19\TST
▶	Staging	Test	MSY_T_Staging	ATSTSQL19\TST
	Core	Acceptance	MSY_A_Core	ATSTSQL19\ACC
	Staging	Acceptance	MSY_A_Staging	ATSTSQL19\ACC
	Core	Production	MSY_P_Core	ATSTSQL19\PRD
	Staging	Production	MSY_P_Staging	ATSTSQL19\PRD

Select rows, right-click and choose Unlink.

7 Post Clone Scripts

Required Authorisation	Menu
Edit PostClone Scripts	Application -> PostClone Scripts

(*) for the Application

Recommended documentation

Doc-Tab	Title	Section
Application	Post Clone Scripts	



The purpose of the PostClone scripts is to adjust a database to fit in the destination environment after a Clone. Mostly, it includes dropping the Source environment database users and create the users needed in the Destination environment. Also common is changing content of Parameter and Configuration tables that is environment dependant.

There are 3 different Script types and they will always run in the same order.

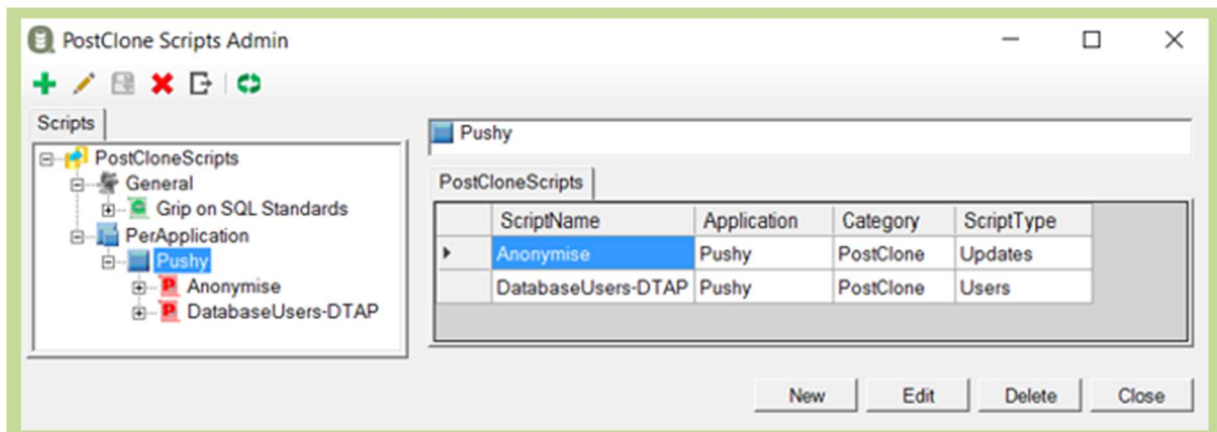
Order	Script Type	Description
1	General	Can only be edited by QGrip-Admin. It should only contain changes that apply to all databases in all Environments and for all Applications.
2	Updates	Updates of Parameter and Configuration tables, anonymising data or other adjustments that are not user related.
3	Users	Drop the existing users and creating the Destination users.

Updates and Users scripts are created for a specific Application.

Unfortunately, writing PostClone Scripts can be complicated and much depend on how well the database and its security has been designed. Here are some guidelines.

- Use the script menu to Generate Examples, Templates and PostClone scripts to get an idea.
- The aim is to create PostClone scripts that you can run in all Environments and on all Database Aliases for the Application.
- Test the scripts against a local database.
- Clone databases to a develop (or) test environment that is not being used. If enough disk space is available, you should also try to the Clone the production database.
- Be creative!

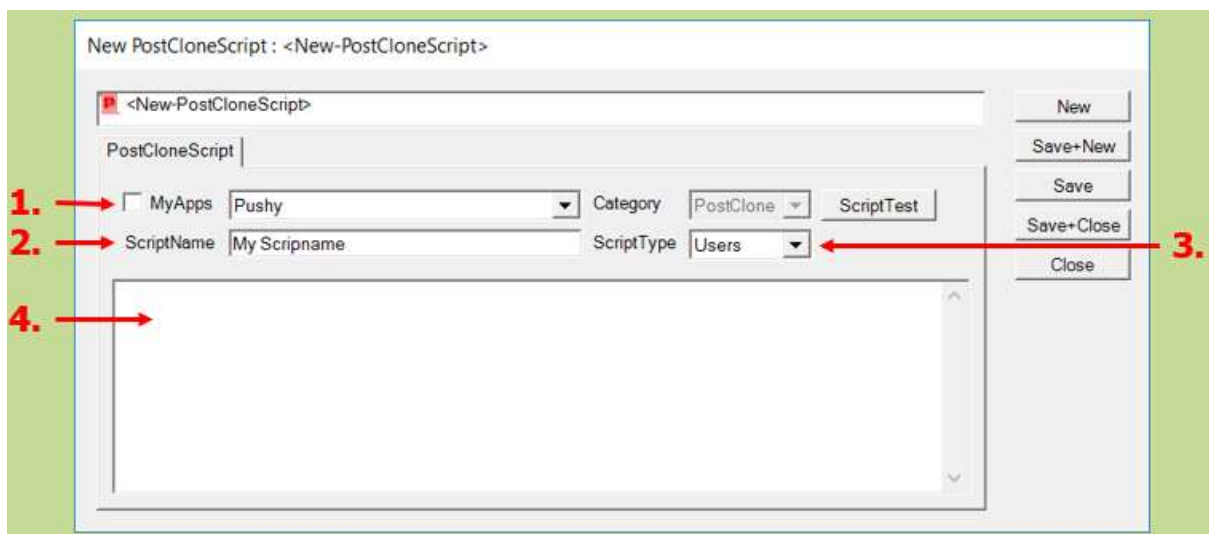
7.1 Explorer / Navigate



In the Explorer, you can see existing Post Clone script, grouped by Application. Only QGrip-Admin will be able to see and edit the General script.

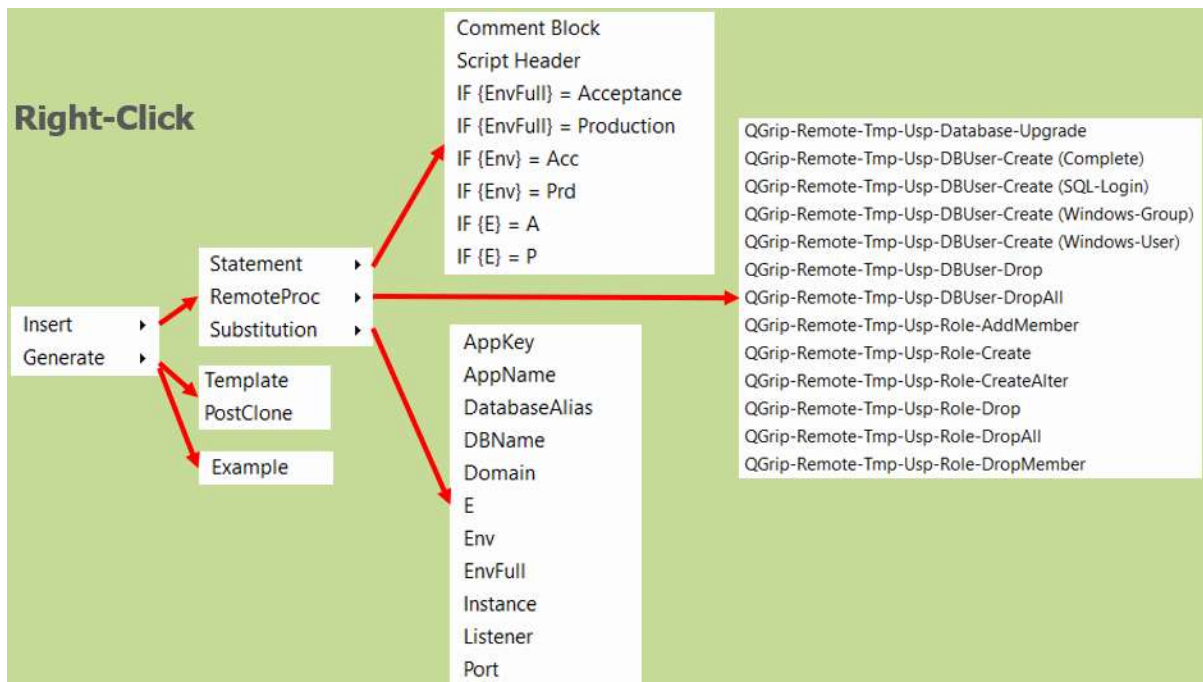
After a script has been changed, you should test it before use.

7.2 Script New

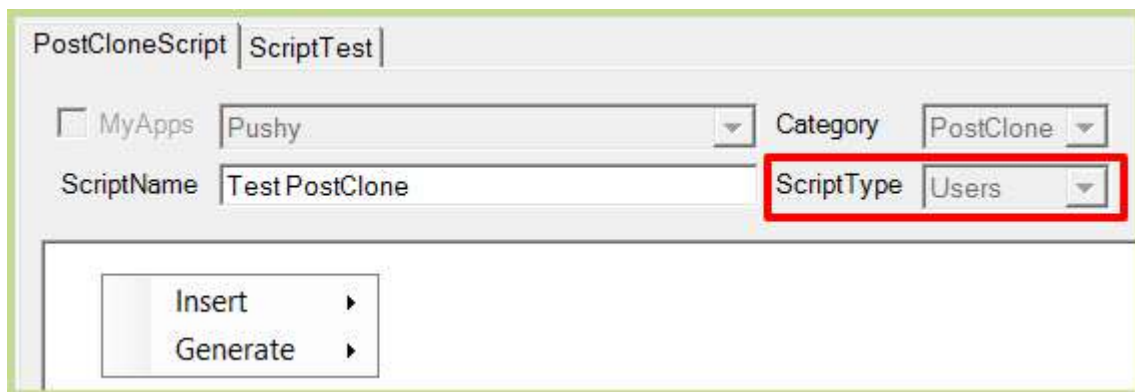


1. Choose the application
2. Enter a script name
3. Choose Script Type: Update or Users
4. Edit the script here

7.3 Script Edit



When editing the post clone scripts in the QGrip-UI, a right-click in the script will open a menu to insert pieces of code or substitutions in the script. It is also possible to generate a Template, PostClone or Example.



PostCloneScript | ScriptTest

☐ MyApps Pushy Category PostClone

ScriptName Test PostClone ScriptType Users

Insert Generate

The options you have in the menu depend on the current Script Type. Inserts will insert a statement at the cursor position in the Script. The statement block will be inserted with the same amount of space from the beginning of the line. Generate, will replace the existing script but only after you have accepted the “Overwrite” warning.

7.3.1 Insert -> Statement

Comment Block

Inserts an empty comment block

Script Header

Insert an empty script header that you will need to complete.

IF ('{EnvFull}' = 'Acceptance'), IF ('{Env}' = 'Acc'), IF ('{E}' = 'A')

Insert an if statement with Full, Short or Char Environment indication.

7.3.2 Insert -> RemoteProc

Inserts an EXEC QGrip-Remote-Tmp procedure call.

7.3.3 Insert -> Substitution

Inserts the Substitution variables (the Finds).

7.3.4 Generate -> Example

Generates an Example that will hopefully give you an idea of how to proceed. It does not use any application data.

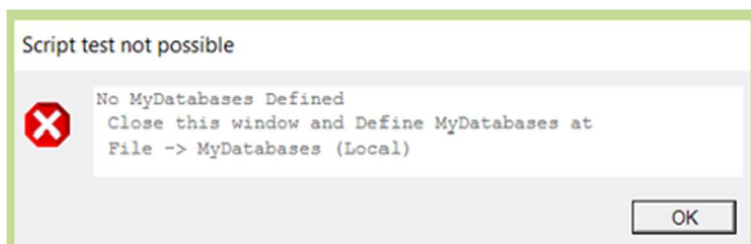
7.3.5 Generate -> Template

Generates a Template based on the selected Application and Template information available at that moment. A really good starting point, but you need to check the whole script and remove stuff that is not applicable. In comparison with the PostClone described in the next section, the Template is much more sustainable, but it might need updating after changes to Databases, Logins and Database users.

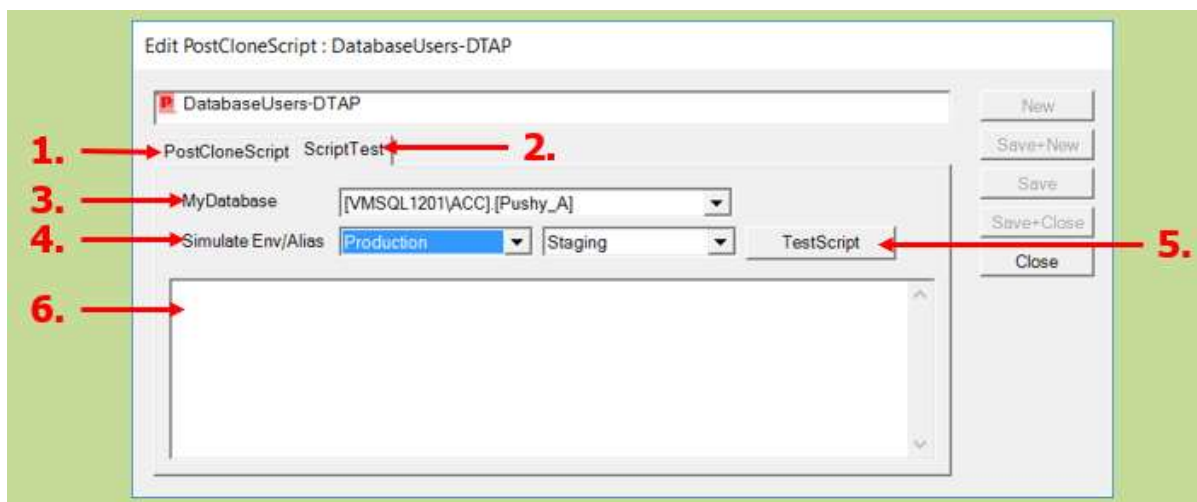
7.3.6 Generate -> PostClone

Generates a PostClone script based on the selected Application and the current situation on the Instances / Databases. This is quick but it is a snapshot of the current situation. If a database is moved or users are changed, it will not work as originally intended.

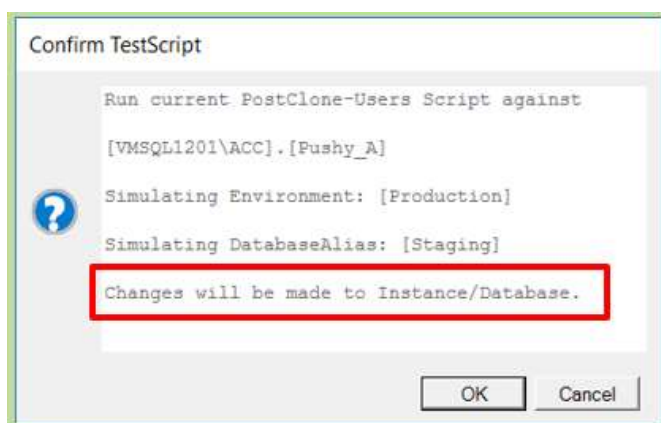
7.4 Script Test



Before you can test a post clone script in the QGrip-UI, MyDatabases need to be added.



1. The script in the 'Script' tab will be executed, even if changes have not yet been saved.
2. Select the 'ScriptTest' tab.
3. Choose MyDatabase to execute against.
4. Choose Environment and Database Alias to simulate. QGrip will use these parameters in the Find/Replace.
5. Press the 'TestScript' button and confirm the action.
6. This is where the output of the script can be found.



```
Script Output:
INFO: Dropped DatabaseUser: [SQLLogin_3010_T_Zeus_Application]
INFO: Dropped DatabaseRole: [RoleFATester]
INFO: Dropped DatabaseRole: [RoleApplication]
INFO: Created DatabaseRole: [RoleFATester]
INFO: DatabaseRole: [RoleFATester] DBPermissions granted: [Execute]
INFO: Added [RoleFATester] as member of DatabaseRole [db_datareader]
INFO: Added [RoleFATester] as member of DatabaseRole [db_datawriter]
INFO: Created DatabaseRole: [RoleApplication]
INFO: DatabaseRole: [RoleApplication] DBPermissions granted: [Select,Insert,Delete,Update,Execute,References,Alter]
INFO: Created DatabaseUser: [SQLLogin_3010_T_Zeus_Application] from Login [SQLLogin_3010_T_Zeus_Application]
INFO: DefaultSchema: [dbo] set for DatabaseUser [SQLLogin_3010_T_Zeus_Application]
INFO: Added [SQLLogin_3010_T_Zeus_Application] as member of DatabaseRole [RoleApplication]
```

Example Output

8 App Objects

Required Authorisation	Menu
App Objects (*)	Application -> App Objects

(*) You will only see the Applications you are authorised for. Deploying App Objects in different environments depend on your Request/Approve/Auto-Approval rights for specific Application.

Recommended documentation

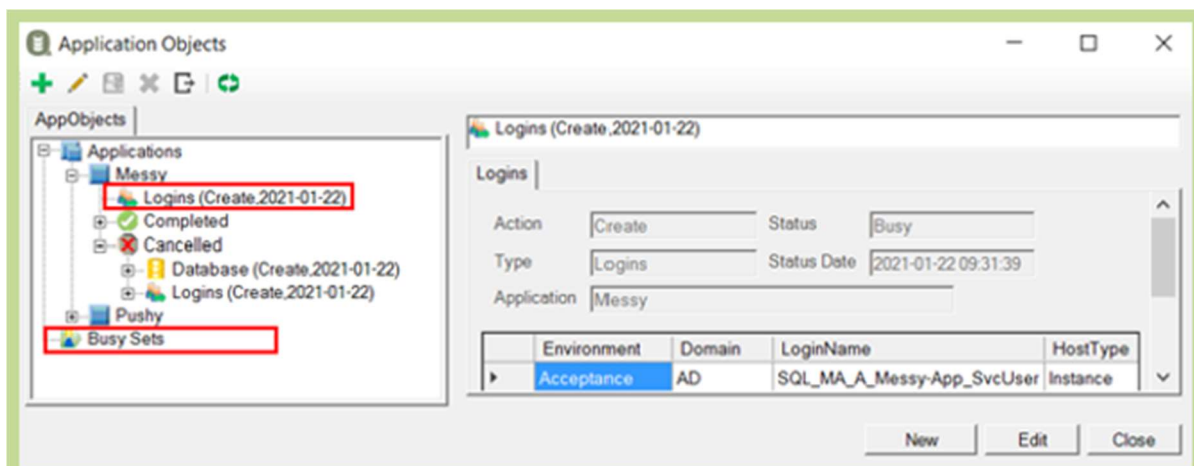
Doc-Tab	Title	Section
Application	App Objects	

Pre-requests	Menu
Environments and Default Instances	Application -> Organisations Applications
DatabaseAlias	Application -> DatabaseAlias
Template Database	Admin -> Template -> Database
Template Database Role	Admin -> Template -> Database Role
Template Login	Admin -> Template -> Login

It is important that the content of the QGrip CMDB is up-to-date. Make sure that Discover has run recently on the Instances of the application and that all objects have been linked properly.

The AppObject windows might at first be intimidating and seem illogical. It is a different way of working, but once you get used to it, you will see that they are very efficient and will save a lot of time for standard objects.

8.1 Explorer / Navigate



In the Explorer, sets with status Busy are located directly under the Application. There is also a “Busy Sets” container at the highest level so they can easily be found.

When a Set is Completed or Cancelled, it is moved to the Completed / Cancelled container.

If a deployment is Skipped in all Environments, the Set is still regarded as Completed.

8.2 Global steps

Whenever creating an App Objects set, stick to the following steps.

1. Create the App Objects set
2. Complete editing in all available Environment tabs
3. Check the parameters in all Environments tabs (again)
4. Start deploying in the right order: D -> T -> A -> P

Once you have pressed [Add2Queue] or [Skip Env] in one Environment, the complete set will not be editable anymore.

8.3 New Set

When you (try to) create a new set, you might run into one of the following situations.

Set Type	Situation	Reason
Create Database Create Logins	Error Message No (DTAP) environments have been defined for this application.	You need to Define Environments/Default DBHost for the Application.
Create Database without Database Alias	Error Message: Selection Incomplete	Database Aliases need to be added for the Application.
Drop (All types)	Edit window is Empty.	There are no objects to drop.

8.4 Deployment Status

The Deployment section of an Environment tab looks like this.

The screenshot shows a 'Deployment' section with the following elements:

- Default Database Host:** A sub-section containing 'Domain' (GOS-8) and 'Instance' (BTSTSQL19\TST) fields.
- Change ID:** An empty text input field.
- Deployment Status:** A dropdown menu currently set to 'New'.
- Create After:** A date/time picker set to '2024-04-15 15:52'.
- Buttons:** 'Skip Env' and 'Add2Queue' buttons are located to the right of the status and create after fields.

Depending on the Deployment status, different Action/Info buttons will be available.

Deployment Status	Description	Action / Info Buttons
New	No deployment has taken place.	Add2Queue, Skip Env
Queued	Deployment is on the Queue, waiting to be picked up.	Refresh
Completed	Deployment has successfully taken place.	ViewLog
Failed	Deployment failed.	ViewLog
Awaiting Approval	Deployment is waiting for approval.	Refresh
Request Denied	Approval was Denied.	View Reason
Insufficient Rights	You do not have sufficient right to push Deployment for the current Environment on Queue.	Explain
Cancelled	The whole App Objects set has been cancelled.	None
Skipped	Deployment in current Environment has been skipped.	None

Depending on your configuration, you might need to add a ChangeID when you push a request on the Queue using the Add2Queue button.

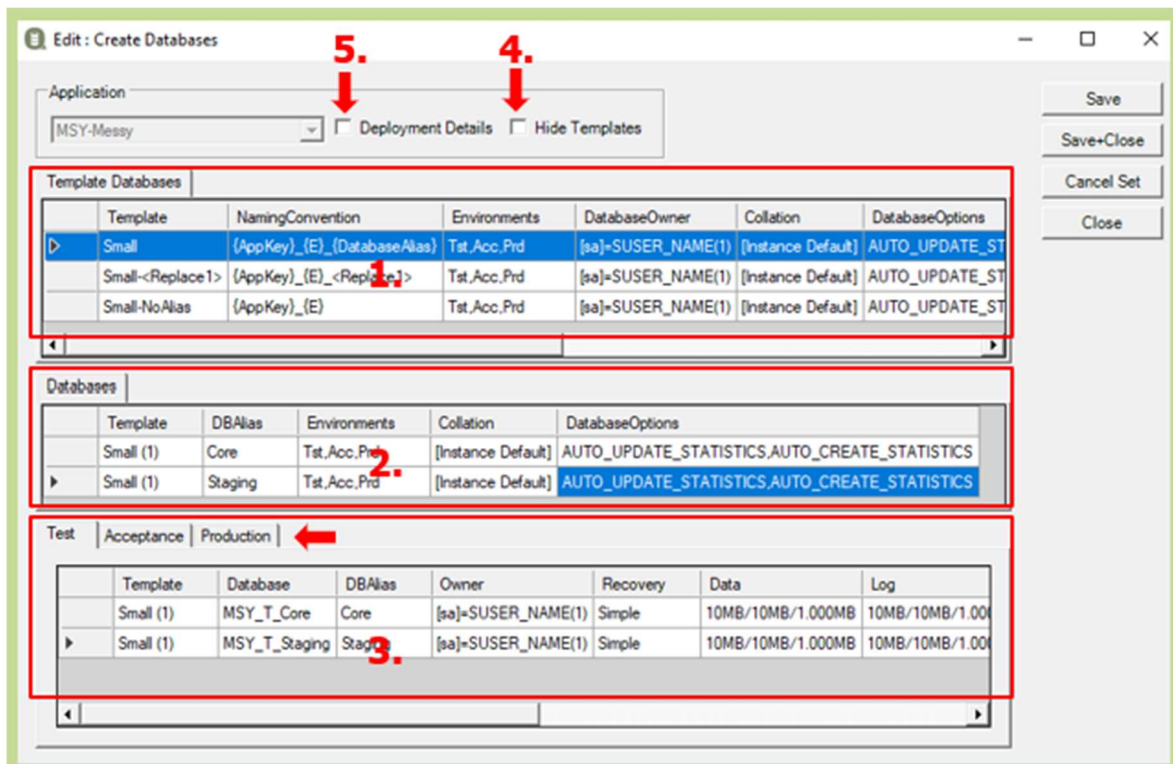
8.5 Cancel Set

As long an App Objects set has not been deployed (or Skipped) in one environment, the whole set can be cancelled. Open the Set with edit and press the Cancel-Set button.

If the App Objects set has been deployed or skipped in one or more Environments, you need to press the Skip Env button in the remaining Environments.

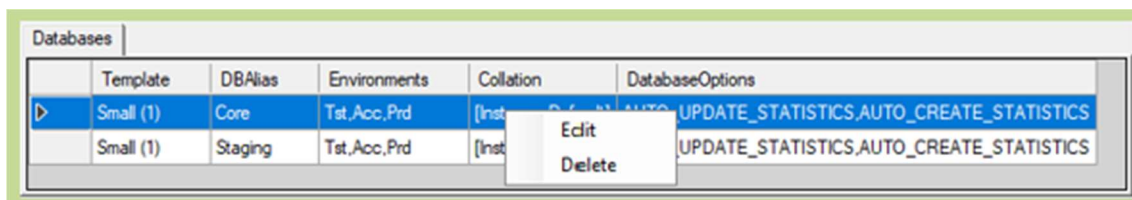
8.6 Create Databases

8.6.1 The Create Databases window



The Create Database window:

1. The Template Databases that can be used to create new databases
2. The Databases with setting that should be the same in all DTAP environments
3. One tab per DTAP environment with the actual physical Databases
4. Once the Databases have been generated from the Templates, they can be hidden for more room on the Window.
5. Check Deployment Details when ready with specification and start with rollout.

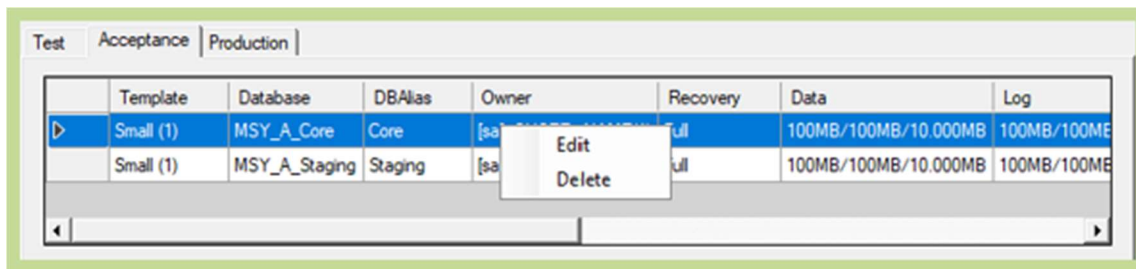


Edit

Parameters that should be the same in all DTAP environments such as Collation and/or Database options.

Delete

If you delete a record here, the related records (databases) will be deleted in each DTAP environment.



Edit

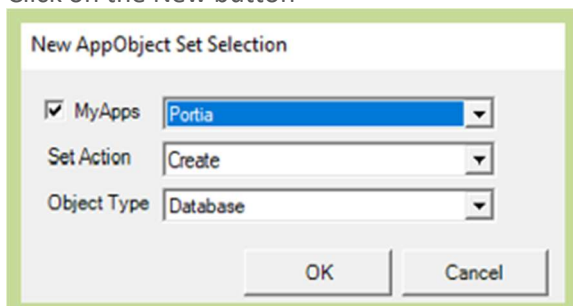
Just Edit the selected records in the DTAP environment tab.

Delete

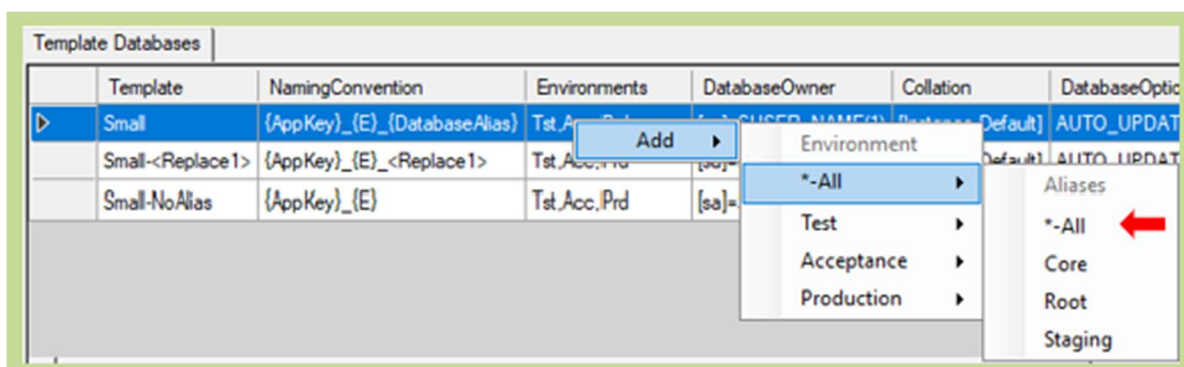
Just delete the records in the DTAP environment tab.

8.6.2 Create Databases

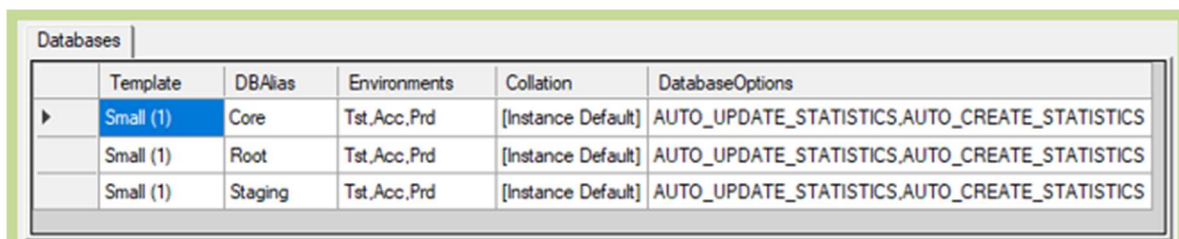
Click on the New button



Select Application, Create, Database.



From the Template Small, Add for All environments, for All Aliases.



For each Database Alias, a Database record has been created for Tst, Acc and Prd.

Test Acceptance Production							
	Template	Database	DBAlias	Owner	Recovery	Data	Log
▶	Small (1)	Portia_T_Core	Core	[sa]=SUSER_NAME(1)	Simple	10MB/10MB/1.000MB	10MB/10MB/1.000MB
	Small (1)	Portia_T_Root	Root	[sa]=SUSER_NAME(1)	Simple	10MB/10MB/1.000MB	10MB/10MB/1.000MB
	Small (1)	Portia_T_Staging	Staging	[sa]=SUSER_NAME(1)	Simple	10MB/10MB/1.000MB	10MB/10MB/1.000MB

In Test, 3 databases will be created.

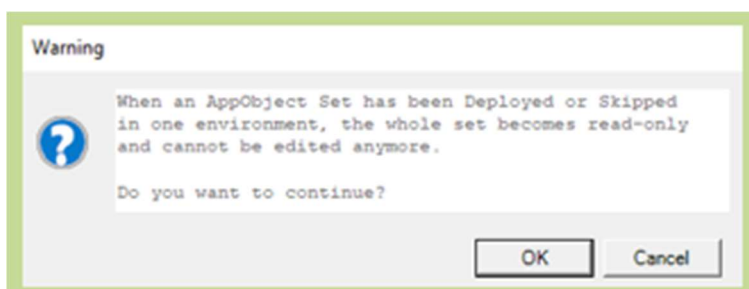
Test Acceptance Production							
	Template	Database	DBAlias	Owner	Recovery	Data	Log
▶	Small (1)	Portia_A_Core	Core	[sa]=SUSER_NAME(1)	Full	100MB/100MB/10.000MB	100MB/100MB/10.000MB
	Small (1)	Portia_A_Root	Root	[sa]=SUSER_NAME(1)	Full	100MB/100MB/10.000MB	100MB/100MB/10.000MB
	Small (1)	Portia_A_Staging	Staging	[sa]=SUSER_NAME(1)	Full	100MB/100MB/10.000MB	100MB/100MB/10.000MB

In Acceptance, 3 databases will be created.

Test Acceptance Production							
	Template	Database	DBAlias	Owner	Recovery	Data	Log
▶	Small (1)	Portia_P_Core	Core	[sa]=SUSER_NAME(1)	Full	100MB/1.000MB/10.000MB	100MB/1.000MB/10.000MB
	Small (1)	Portia_P_Root	Root	[sa]=SUSER_NAME(1)	Full	100MB/1.000MB/10.000MB	100MB/1.000MB/10.000MB
	Small (1)	Portia_P_Staging	Staging	[sa]=SUSER_NAME(1)	Full	100MB/1.000MB/10.000MB	100MB/1.000MB/10.000MB

In Production, 3 databases will be created.

1. Check the Deployment Details to enable rollout.
2. For each DTAP Environment
3. Add2Queue



When pushing Add2Queue in the first environment a warning is issued.

8.7 Create Logins (and Database Users)

Create Logins is really a combination of Logins, Database Users and their Database Roles.

Instance level

The Login will only be created if it does not already exist.

When creating a new SQL Login an entry will be added to the Password Safe.

Server Roles will only be added to the Login, never removed.

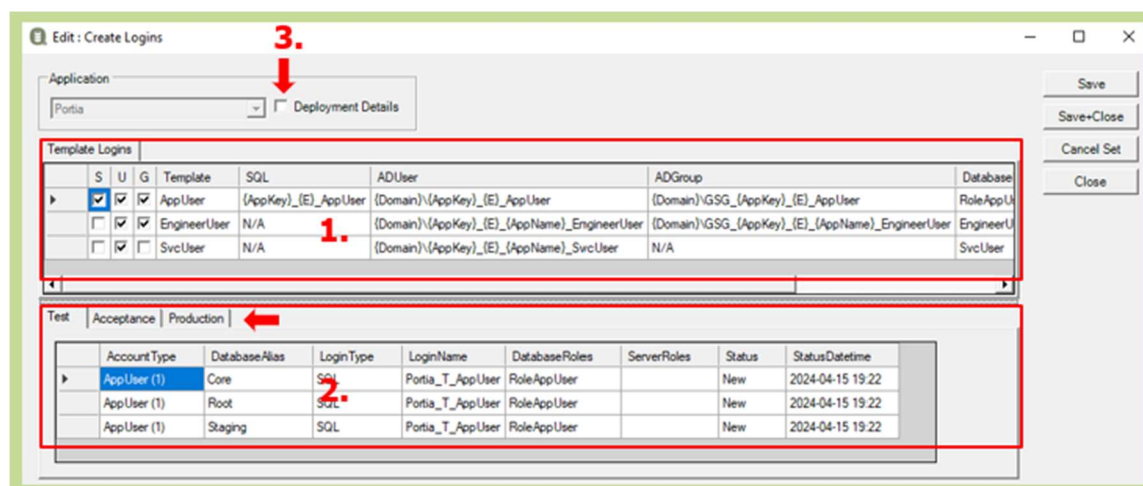
Database level

The Database User will only be created if it does not already exist.

Database Roles will only be added to the Database User, never removed.

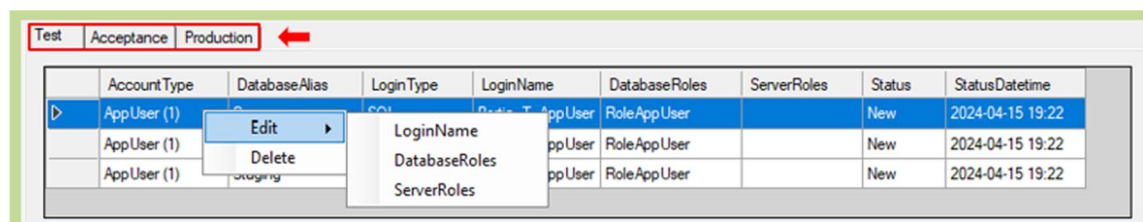
Permissions for Database Roles with source Template will be completely updated.

8.7.1 The Create Logins window



The Create Logins window:

1. The Template Logins that can be used to create new Logins/Database Users
2. One tab per DTAP environment with the Logins/Database Users
3. Check Deployment Details when ready with specification and start with rollout.



Edit – LoginName

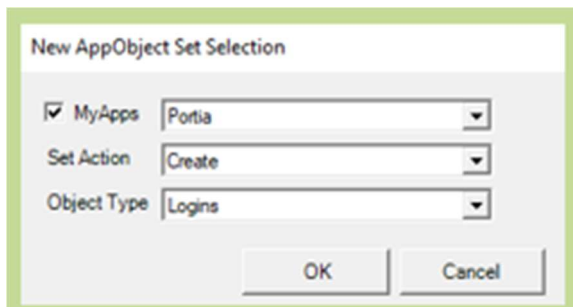
Edit – DatabaseRoles

Edit – Server Roles

Delete – Selected Records

8.7.2 Create Logins

Click on the New button



New AppObject Set Selection

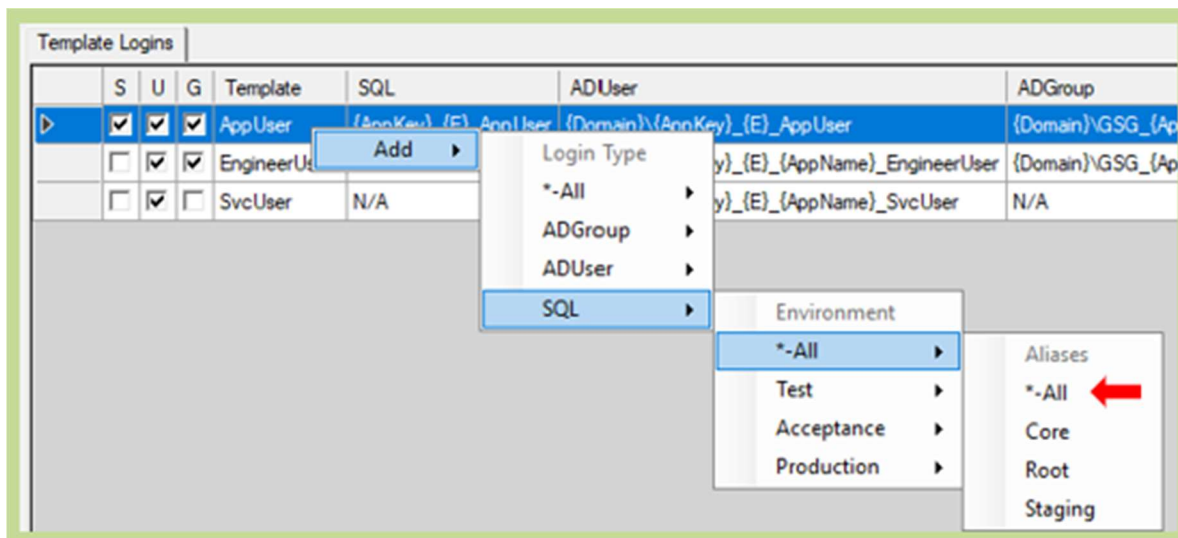
☒ MyApps Portia

Set Action: Create

Object Type: Logins

OK Cancel

Select Application, Create, Logins.



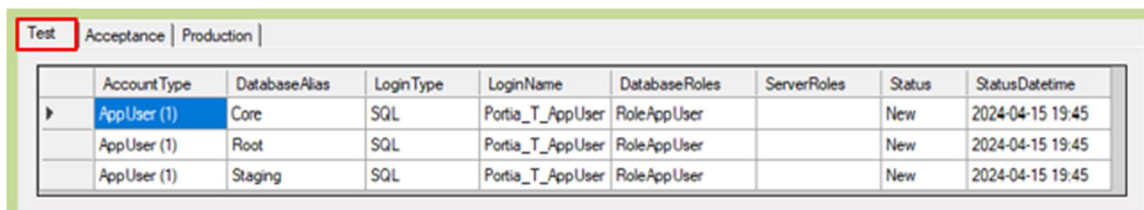
Template Logins

	S	U	G	Template	SQL	ADUser	ADGroup
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	AppUser	{AppKey}_{E}_AppUser	{Domain}\{AppKey}_{E}_AppUser	{Domain}\GSG_{Ap
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	EngineerU		y}_{E}_{AppName}_EngineerUser	{Domain}\GSG_{Ap
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	SvcUser	N/A	y}_{E}_{AppName}_SvcUser	N/A

Add

- Login Type
 - *-All
 - ADGroup
 - ADUser
 - SQL
 - Environment
 - *-All
 - Test
 - Acceptance
 - Production
 - Aliases
 - *-All
 - Core
 - Root
 - Staging

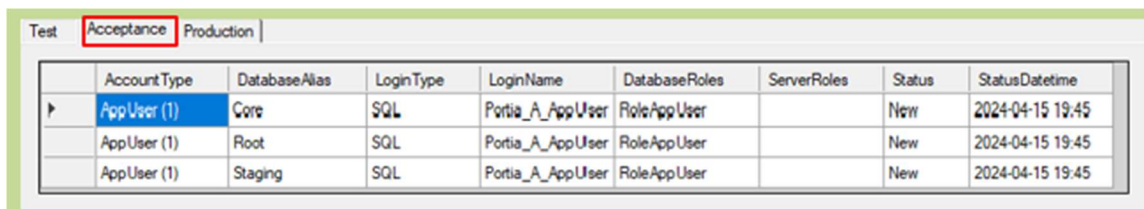
From the Template AppUser, Add Login Type SQL in All environments, for All Aliases.



Test | Acceptance | Production

	Account Type	Database Alias	Login Type	Login Name	Database Roles	Server Roles	Status	Status Datetime
<input checked="" type="checkbox"/>	AppUser (1)	Core	SQL	Portia_T_AppUser	RoleAppUser		New	2024-04-15 19:45
<input type="checkbox"/>	AppUser (1)	Root	SQL	Portia_T_AppUser	RoleAppUser		New	2024-04-15 19:45
<input type="checkbox"/>	AppUser (1)	Staging	SQL	Portia_T_AppUser	RoleAppUser		New	2024-04-15 19:45

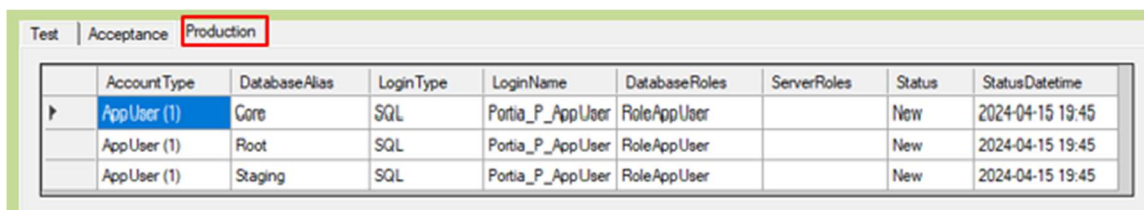
In Test, 3 Logins/Database Users will be created.



Test | Acceptance | Production

	Account Type	Database Alias	Login Type	Login Name	Database Roles	Server Roles	Status	Status Datetime
<input checked="" type="checkbox"/>	AppUser (1)	Core	SQL	Portia_A_AppUser	RoleAppUser		New	2024-04-15 19:45
<input type="checkbox"/>	AppUser (1)	Root	SQL	Portia_A_AppUser	RoleAppUser		New	2024-04-15 19:45
<input type="checkbox"/>	AppUser (1)	Staging	SQL	Portia_A_AppUser	RoleAppUser		New	2024-04-15 19:45

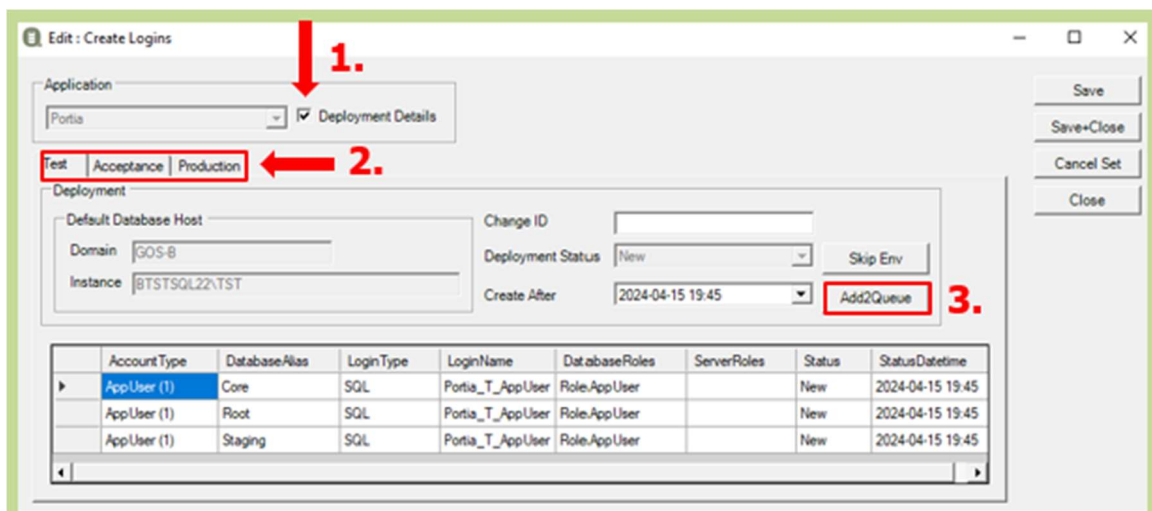
In Acceptance, 3 Logins/Database Users will be created.



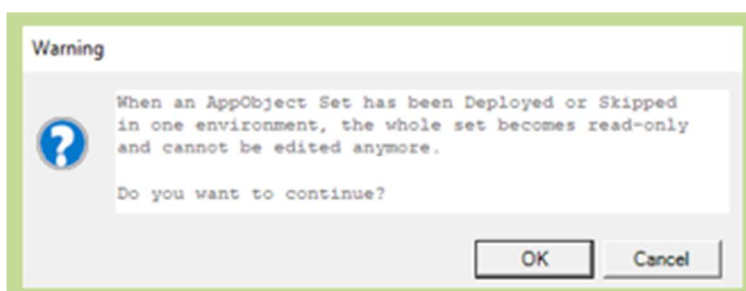
Test | Acceptance | Production

	Account Type	Database Alias	Login Type	Login Name	Database Roles	Server Roles	Status	Status Datetime
<input checked="" type="checkbox"/>	AppUser (1)	Core	SQL	Portia_P_AppUser	RoleAppUser		New	2024-04-15 19:45
<input type="checkbox"/>	AppUser (1)	Root	SQL	Portia_P_AppUser	RoleAppUser		New	2024-04-15 19:45
<input type="checkbox"/>	AppUser (1)	Staging	SQL	Portia_P_AppUser	RoleAppUser		New	2024-04-15 19:45

In Production, 3 Logins/Database Users will be created.



1. Check the Deployment Details to enable rollout.
2. For each DTAP Environment
3. Add2Queue



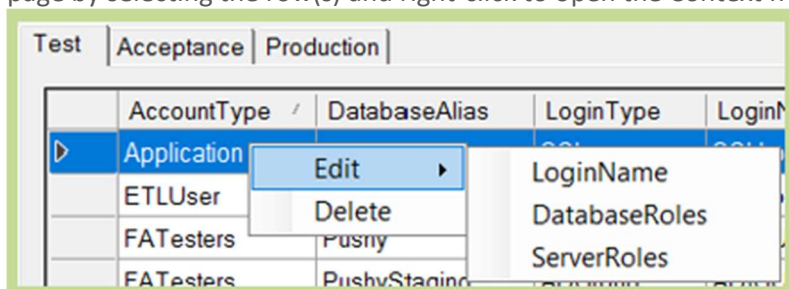
When pushing Add2Queue in the first environment a warning is issued.

8.7.3 Verify AD accounts

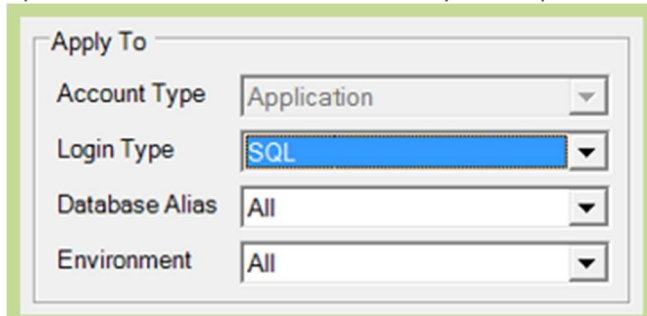
The first time (in the first Environment) a Deployment is initiated for a Create Logins set, using either [Skip Env] or [Add2Queue], a check will be performed to verify that used AD-Users and AD-Groups exist on AD. If this check fails, you will receive a message with an overview of accounts missing on AD. As long as the Accounts are part of the set and not exist on AD, deployment will not be possible.

8.7.4 Edit Environment tab-page rows

After adding Logins from the Template Logins, you can edit/delete rows in the Environment(s) tab-page by selecting the row(s) and right-click to open the Context Menu:

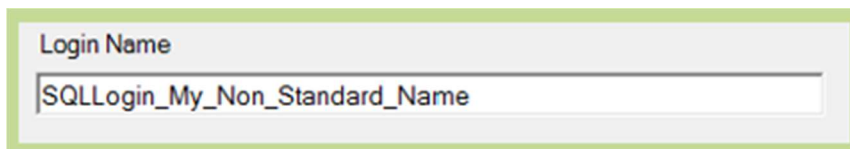


In the Apply To sections of the Edit window, you need to specify which occurrences should be updated. The “All” wildcard enables you to update multiple occurrences in one go.



In the selection above, all occurrences with Account Type Application and Login Type SQL will be affected.

8.7.5 Edit: Login Name



When changing the Login Name, you are likely to deviate from the standard naming convention.

8.7.6 Edit: Database Roles

Best is to stick to the Database Role defined together with the Template login but if needed, this option enables you to grant (other) database roles.

Database Roles					
	Grant	RoleName	Source	DBPermissions	SubRoles
▶	<input checked="" type="checkbox"/>	RoleApplication	Template	Select,Insert,Delete,Update,Execute,References,Alter	
	<input type="checkbox"/>	db_datareader	Fixed		
	<input type="checkbox"/>	db_datawriter	Fixed		
	<input type="checkbox"/>	db_ddladmin	Fixed		
	<input type="checkbox"/>	db_owner	Fixed		
	<input type="checkbox"/>	RoleApplication2	Existing	ALTER,DELETE,EXECUTE,INSERT,REFERENCES,SELECT,UPDATE	
	<input type="checkbox"/>	RoleETLUser	Template	Select,Insert,Delete,Update,Execute,Alter	db_ddladmin
	<input type="checkbox"/>	RoleFATester	Template	Execute	db_datareader,db_datawriter
	<input type="checkbox"/>	RoleMaintUser	Template	Select,Insert,Delete,Update	
	<input type="checkbox"/>	RoleUATester	Template	Select	

The DB Permissions column shows the permissions the role has on database level.

Source	Description
Template	Template database roles defined by the QGrip-Admin.
Fixed	SQL Server standard database roles.
Existing	Database role already exists in the database(s)

It is possible that a Role Name is listed twice, once with source Template and once with source Existing. In that case you will only be able to choose one of the occurrences.

Template vs Existing

Source	Deployment rules
--------	------------------

Template	If the Database Roles already exists in the database, its permissions will be replaced with the “new” permissions during deployment.
Existing	The permissions of the database role will NOT be changed.

Existing and Database Alias / Environment All



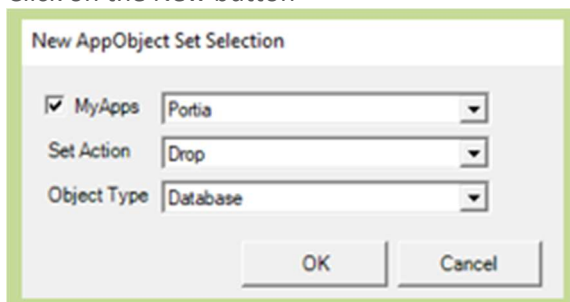
When you grant an Existing role in combination with Database Alias and/or Environment All, the Database Role must already exist in all databases affected by the combination. This check will be performed before any records are updated.

8.7.7 Edit: Server Roles

You can also add server roles to the login. Only “bulkadmin” is available at this moment.

8.8 Drop Databases

Click on the New button



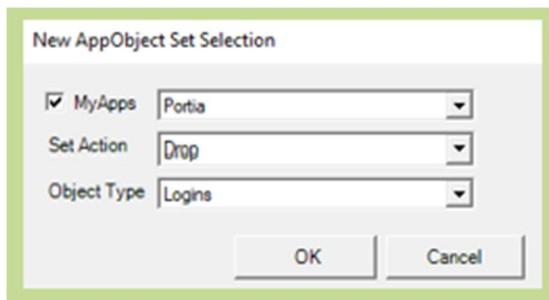
Select Application, Drop and Database.

In each Environment tab-page, mark the databases you want to drop by checking the Drop column and pay attention to the Instance name so that you do not drop the database on the wrong Instance.

Before starting deployment, consider making an Archive backup of the databases you are about to drop.

8.9 Drop Logins (and/or Database Users)

Click on the New button



Select Application, Drop and Logins

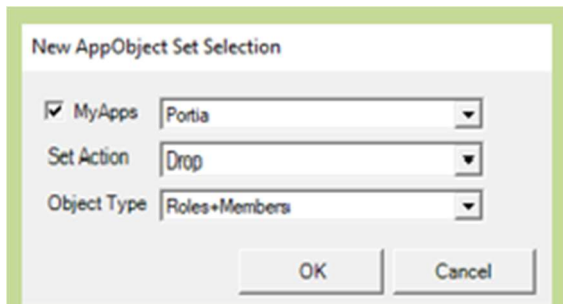
In each Environment tab-page, there are is one section for Logins and one for Database Users. Mark the Logins and Database Users you want to drop by checking the Drop column and pay attention to the Instance and Database name so that you drop the right occurrence.

Dropping a Login, the corresponding database users will NOT automatically be dropped. You will need to mark the corresponding Database Users for Drop as well to avoid orphan Database Users.

If a Database User owns objects in the database, the drop will fail. Exception is an empty Schema, that will automatically be dropped as well. If the database has been designed properly, a Database User will not own objects.

8.10 Drop Roles + Members

Click on the New button



Select Application, Drop and Roles + Members

In each Environment tab-page, there are is one section for Database Roles, Database Role Members and Server Role Members.

Mark what you want to drop by checking the Drop column and pay attention to the Instance/Listener and Database name so that you drop the right occurrence.

Drop Type	Description
Database Role	The database role will be dropped after its members have been removed.
Database Role Members	The member will be removed from the Database Role.
Server Role Members	The member will be removed from the Server Role.

9 Connect-Info

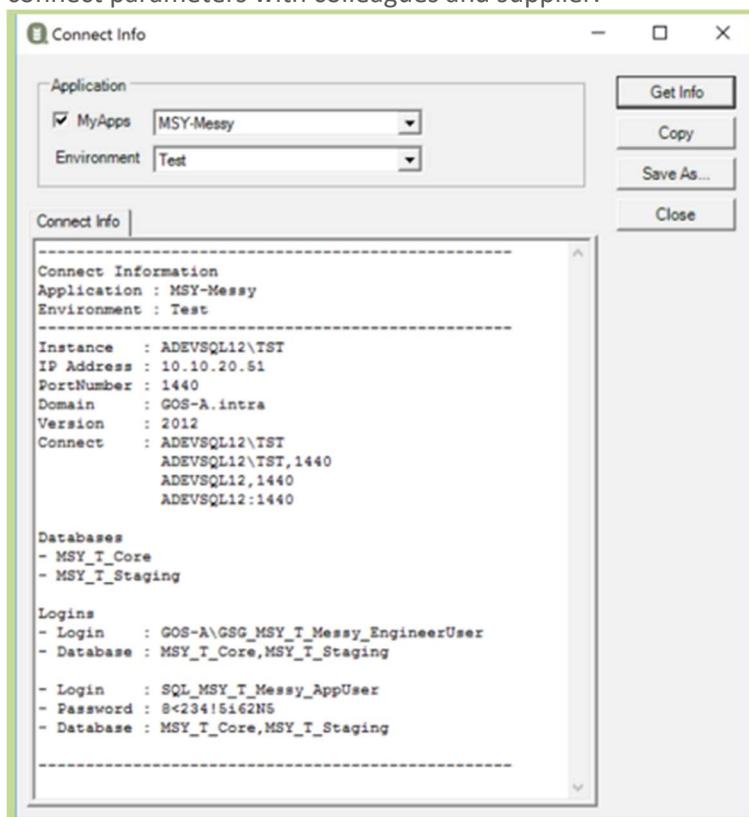
Required Authorisation	Menu
Passwords (*)	Application -> Connect Info

(*) Uses the same authorisation as passwords. You will only see the Applications and Environments you are authorised for.

Recommended documentation

Doc-Tab	Title	Section
Application	Password Safe & Connect Info	Connect Info

The Connect Info uses the content of the Password safe. The Connect Info can be used to share connect parameters with colleagues and supplier.



Select Application and Environment and Press 'Get Info'. AD logins will also be included. If a password is not valid, you will receive a warning but the information will still be provided (without the missing password).

10 Password Safe

Required Authorisation	Menu
Passwords (*)	Application -> Password Safe

(*) You will only see the Applications and Environments you are authorised for.

Recommended documentation

Doc-Tab	Title
Application	Password Safe & Connect Info

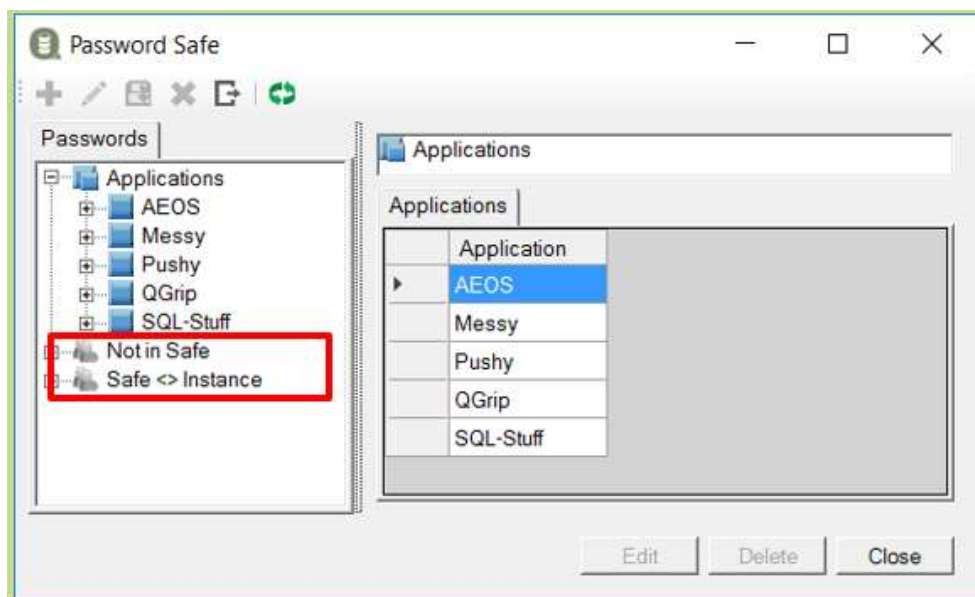
QGrip comes with a Password Safe that will contain entries for all Logins with SQL Server authentication, from now on referred to as Account. When an Account is created via QGrip AppObjects or in a PostClone script, a Password will be generated and the Password Safe will automatically be updated.

Verify Password

If the Discover process finds an Account on an Instance that is not already in the Password Safe, it will be added with status “Not in Safe”. If you have the password elsewhere, you can add it to the Password Safe and request a Verify password. One of the QGrip Server worker processes will try to login on the Instance using the Password you entered. If login attempt is successful, the Password Safe is updated and the Password status is set to OK. If it fails, the Password status is set to “Safe <> Instance” and you have to wait for 1 hour until you can try again with a different password. This delay is to prevent hacking and that Accounts are being locked out.

Password Status in Safe

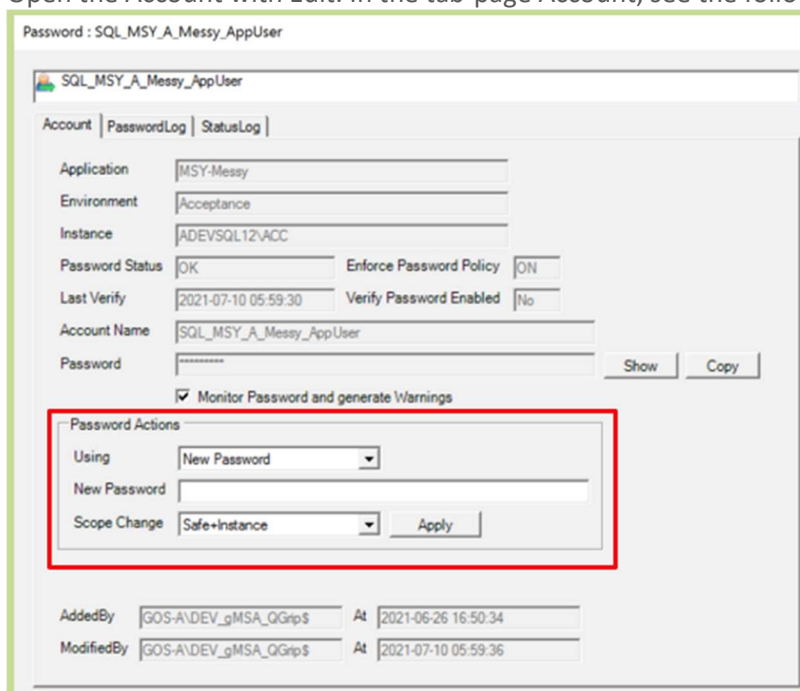
Password Status	Description
OK	Password Safe = Password on Instance
Not in Safe	The password is missing (empty) in the Password Safe
Safe <> Instance	Password Safe <> Password on Instance
Not on Instance	The Account is in the Safe but no longer exists on the Instance. This should never happen.



If there are inconsistent/incomplete passwords, separate entries are shown in the Explorer so that they can be found easily. These special containers will stay until you reopen the window. The Password with “not OK” status can also be found under the Application.

10.1 Edit Passwords

Open the Account with Edit. In the tab-page Account, see the following section:



What you can do in Password Actions depend on current Password Status and if Verify Password is Enabled. If no actions are possible, Password Actions will be disabled. Otherwise, only valid choices will be present.

Using (Password)

Using (Password)	Description
Existing Password	Use password in Safe, only possible when there is a password.

Generated Password	A password of specified length will be randomly generated and used.
New Password	Enter the password manually.

Scope change

Scope	Description
Verify	Push a Verify Password job on the Queue to see if password is correct.
Safe	Save password to Password Safe
Safe + Verify	Save to Safe + Verify Password
Safe + Instance	Save the password to the Password Safe and change it on the Instance. This will only be possible if the Password Status is OK.

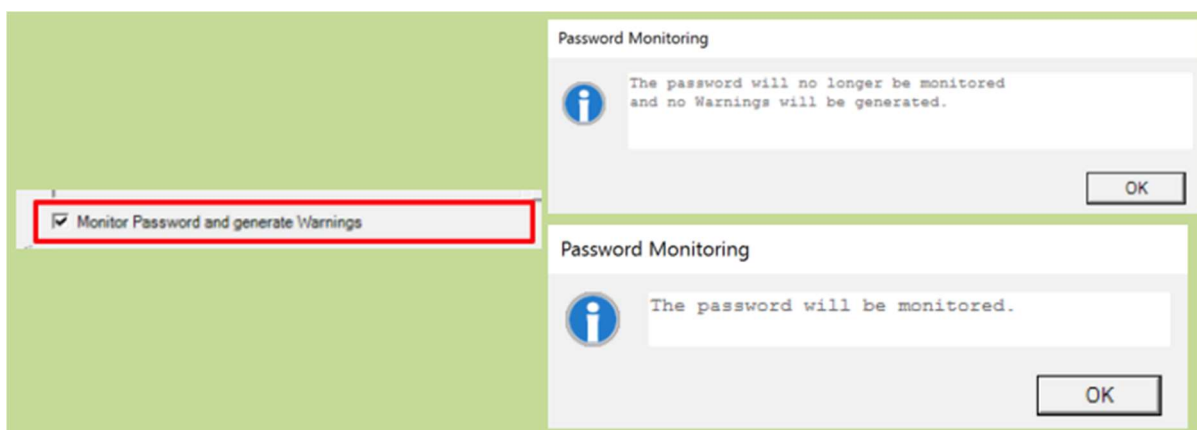
When you press Apply you need to confirm the action. If the scope includes Verify or Instance, you will receive a Personal message when the action has taken place.

The content of the tab-pages is refreshed when switching from another tab-page.

Important

When you change the password on an Instance, all clients using that account will need to change their connection string. Handle with care!

10.2 Monitor Password and generate Warnings



By default, QGrip will monitor the Password to make sure that it has the correct password and issue Warnings if that is not the case. Is monitoring of the Password is not wanted of a certain login, uncheck the 'Monitor Password' check box for the login.

To reactive, check the 'Monitor Password' check box again and the monitoring will restart.

10.3 Delete Accounts/Passwords

Accounts/Passwords can only be deleted when the current tab-page is 'Not on Instance'.

10.4 Password Log + Status Log

In Edit mode, the tab-pages PasswordLog and StatusLog will be present next to the Account tab-page.

PasswordLog

Shows all Password Actions initiated by a user, including former passwords.

StatusLog

Shows a history of Password Status.