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## QGrip-Ul Jobs Menu



2024-04-16



## **QGRIP-UI – JOBS MENU**

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## 1 Introduction

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



## 2 Daily Check

Required Authorisation	Menu
View Daily Check	Jobs -> Daily Check

🛈 Dail	y Check									-	· 🗆	×
Begin End	2024-04-1	2 06:00	[								Refres	<u>ь                                    </u>
Report	Daily	3 03.42 ·									Close	
FailedJ	obs Instanc	eDown Datab	aseDown Da	tabaseNoSyn	c BackupSh	areDown   Miss	singBackupFiles	NoDatabaseB	ackup   LongRur	ningJobs		
	Queue	JobType	JobLevel	Object	EstTime	RunTime	TimeUnit	Job Started	Job Ended	Application		
•										•	0 rows	

The morning ritual. This window contains a quick overview of important information that might need some attention like Failed Jobs, Instances/BackupShares that are/have been down, Missing Backup Files, Databases that have not had a DBBackup and LongRunningJobs (Still running).



### 3 Queues

Required Authorisation	Menu
View Queues	Jobs -> Queues

Job	Queues						-	- 🗆	×
AlQue	ues Backup Maintenar	nce RemoteJobs	Restore	Clone   NotStarted		1		Refres	h
	Queue Environment		Prio	JobType	Object	Status	Start Aft		
	BackupMaintenance Test			CheckDB	[ATSTSQL19\TST].[MSY_T_Core]	ldle	2024-04	Progres	ŝS
	BackupMaintenance	Test	83	Optimise	[BTSTSQL19\TST].[PSH_T_Core]	Idle 2024-04	Delete	8	
	BackupMaintenance	Test	93	DBBackup - DIFF	ldle	2024-04	Class	_	
	RemoteJob	Acceptance	54	Discover	[ATSTSQL19\ACC]	ldle	2024-04	Close	
	RemoteJob	Test	53	Discover	[BTSTSQL22\TST]	ldle	2024-04		
Þ	RestoreClone	Acceptance	24	Clone	[ATSTSQL19\TST].[MSY_T_Core] -> [ATSTSQL19\ACC].[MSY_A_Core]	Idle	2024-04		
4							×	6 rows	

In this window you can see the content on the different Queues.

Remember that scheduled jobs will not be pushed on the Queues more than a few minutes before they should run. The first tab (All Queues) is an overview of all 3 QGrip queues.

Job Status	Description
Idle	Waiting to be picked up by QGrip Server process.
Running	Job is currently running.
Awaiting Approval	The job needs approval before it will run.
Paused	The job (Optimise or CheckDB) has been paused because it could not finish
	within its' Window and will start running again after StartAfter date.

#### 3.1 Not Started jobs

The tab NotStarted and the button delete is only visible to QGrip-Admins.

lot (	Queues				L				-		×
AlQue	ues Backup!	Maintenance R	emoteJobs	RestoreClone	NotStarted					Refrest	n
	Queue	Environment	Prio	JobType	Object	Domain	StartAfter	JobStarted	EstTime	-	_
•	RemoteJob	Acceptance	54	Discover	[ATSTSQL19\ACC]	.] GOS-A 2024-04-15 07				Progres	5
										Delete	4
										Close	
											-
1						1					

If a job has not started 1 hour after it should have, it will be visible under the tab NotStarted. The QGrip-Admin can delete this job from the Queue. This happens very rarely and mostly just after an Instance has initially been added to QGrip.

#### 3.2 RestoreClone – Progress

When a Restore, Clone or Import-Database job is running, you will be able to see the Progress of the job. A separate job will be triggered run every 5 minutes to see how far the Restore of the database has come, and an estimate of time remaining will be shown.



O Joi	b Queues			1	-		×
AlQu	eues Backup Maint	tenance   I	RemoteJobs	RestoreClone NotStarted		Refres	h ĺ
	Environment	Prio	JobType	Object	l F	_	
▶	Acco	24	Clone	[ADEVSQL12\PRD].[MSY_P_Core] -> [ADEVSQL12\ACC].[MSY	I L	Progree	
						Delete	
						Close	
<u> </u>				<u>,</u>	- I		

Select the RestoreClone tab page, this will enable the Progress button. Select the row of the required job and hit Progress.

Jo	gress Info b Status Pau ogress check I	eed until 2021-10-17 Restore-Database every 5 minutes when s	19:59:00 till running.								Close
09	Phase	Step	Listener	Instance	Run%	RunTime	Unit	EstTime	Unit	Starte	
	1	Create Logfile Headers		ADEVSQL12VACC	100.00	0	Sec			2021-	
	1	Check database exists: [MSY_A_Core]		ADEVSQL12\ACC	100,00	0	Sec			2021-	
	1	Create Restore DestDatabase users script		ADEVSQL12\ACC	100,00	2	Sec			2021-	
	1	Fill table BackupFiles		ADEVSQL12\ACC	100,00	0	Sec			2021-	
	1	Checking BackupFiles		ADEVSQL12VACC	100.00	0	Sec			2021-	
	1	Create Restore Commands		ADEVSQL12\ACC	100.00	0	Sec			2021-	

In the Progress window you will be able to see what the job is currently doing and if you are Restoring a large database an estimate will be given of how long it will take.



## 4 Running

Required Authorisation	Menu
View Running	Jobs -> Running

In this window you can see all jobs that are currently running on the different Queues. The first tab shows All Running Jobs. The second tab, LongRunningJobs, shows job that exceed the estimated runtime.

<b>Q</b> Jo	bs Running											-		×
ALD.	neine lebe 1 .					~ )					L			
Ainu	Queue	Environment	Job Type	JobLevel	Object	EstTime	RunTime	TimeUnit	JobStarted	Todo	Done	1 -	Refres	h
												-	Progres	s
												-	Kill Jo	
												-	Close	
•											•	0,	ows	

The column Todo shows the number of Sub Jobs that need to be executed and Done is the how many of these Sub Jobs that have already finished.

#### 4.1 Kill Long Running Jobs

0	Jobs Running									-		×
		1										
A	RunningJobs	LongRunningJobs	BackupMainten	ance Remote	Jobs Resto	reClone					Refresh	1
Г	Queue	Environment	JobType	JobLevel	Object	EstTime	RunTime	TimeUnit	JobStarted	Too		
											Progress	
											Kill Job	+
											Close	
												_
Ŀ										<u> </u>	rows	

Jobs that are running longer than expected can be found under the tab LongRunningJobs. If there has been a problem during the job, the connection might have been broken, QGrip still thinks that the jobs are running. If you are QGrip-Admin, you can remove these running jobs in QGrip, by selecting the jobs and pressing [Kill Job]. This should only be done after you have verified that the job is no longer running on the remote Instance. The job will only be marked as Failed in the QGrip administration and a running process on an Instance will NOT be removed.

#### 4.2 RestoreClone – Progress

When a Restore, Clone or Import-Database job is running, you will be able to see the Progress of the job. A separate job will be triggered run every 5 minutes to see how far the Restore of the database has come, and an estimate of time remaining will be shown.



🛈 Job	os Running				-		×
AIRu	nningJobs   LongR	unningJobs   Ba	ckupMaintenar	ice RemoteJobs RestoreClone		Defea	- 1
	Environment	JobType	JobLevel	Object	ء (	neires	•
Þ	Production	<b></b>	Database	[ADEVSQL12\PRD].[MSY_P_Core] -> [ADEVSQL12\ACC].[MSY_A_C	∞  L	Progres	5
						Kill Jo	b
4						Close	

Select the RestoreClone tab page, this will enable the Progress button. Select the row of the required job and hit Progress.

Pr	ogress Info b Status Pau ogress check I	eed until 2021-10-17 ( Restore-Database every 5 minutes when s	19:59:00 <b>511 running</b> .	-							F	Clos
iog	Phase	Step	Listener	Instance	Run%	RunTime	Unit	EstTime	Unit	Starte		
•	1	Create Logfile Headers		ADEVSQL12\ACC	100.00	0	Sec			2021-		
	1	Check database exists: [MSY_A_Core]		ADEVSQL12VACC	100,00	0	Sec			2021-		
	1	Create Restore DestDatabase users script		ADEVSQL12\ACC	100,00	2	Sec			2021-		
	1	Fil table BackupFiles		ADEVSQL12VACC	100,00	0	Sec			2021-		
	1	Checking BackupFiles		ADEVSQL12VACC	100.00	0	Sec			2021-		
	1	Create Restore Commands		ADEVSQL12\ACC	100.00	0	Sec			2021-		

In the Progress window you will be able to see what the job is currently doing and if you are Restoring a large database an estimate will be given of how long it will take.



## 5 Backup-Maintenance (BM)

<b>Required Authorisation</b>	Menu
Backup/Maintenance	Jobs -> Backup-Maintenance -> Request
	Jobs -> Backup-Maintenance -> History

#### **Recommended documentation**

Doc-Tab	Title
Jobs	Backup & Maintenance Jobs
Jobs	QGrip Backup Encryption

You will only be able to request a Backup-Maintenance job for the Application/Environments you are Authorised for. If you are authorised for Backup- Maintenance, you will be able to see the history for all Backup-Maintenance jobs of all Instances.

#### Always On

- DBBackup & LogBackup
  - Preferred Replica
- CheckDB
  - All Replicas, per Instance
- Optimise
  - Primary Replica

In an Always On cluster, the DBBackup and LogBackup will run on the Preferred Replica as defined in the availability group of the database. CheckDB can run on all Replicas. The Optimise job will run on the Primary Replica.

#### Note

A requested Backup-Maintenance job will always run even if the Database is part of Exclude (Database) Job.

#### 5.1 BM - Request

JobT	yApps Portia BAlias N/A	DB	1.	Change I	3.				Add2Quer Refresh Close
Datab Env Host DBHo Datab	ase Type Instance Dost BTSTSQ Dase Portia_T	L22\TST _Core	2. •	-Job Speci StartAfter	fication 2024-04-16 08:24 <b>4.</b>				
	B				0.00				
CheckD			0111		the second second second	100 1100 000	I Designed I supply the	the second se	

The request window consists of 5 parts:

- 1. Application / (Database Alias) / Job Type selection
- 2. Database Selection

**ØGRIP** 

- 3. Change ID if required
- 4. Job Specification
- 5. Queue content for selected Job Type The refresh button will renew the content

Selecting a new value will update the rest of the window with new, valid options. In the database selection, the Host Type will be Listener if the database is running on an AlwaysOn Cluster. QGrip will determine on which replica the job should run.

The Job Specifications of the different job types are described below.

When you have specified the job, press Add2Queue.

Confirm	Add2Queue
?	CheckDB at 2024-04-16 08:24 Application : Portia Environment : Test HostType : Instance DBHost : BTSTSQL22\TST Database : Portia_T_Core ChangeID : Do you want to continue?
	Yes No

You will need to confirm the Request. After confirming the job, it will appear in the overview (5.). If you are not authorised for Auto-Approval, the job will have status Awaiting Approval. You will receive a Personal message when the job has finished or your job request has been denied.



#### 5.1.1 Backup Options

Backup O	ptions		
Verify	Compress	Checksum	

For both DBBackup and LogBackup, options can be enabled. The options are copied from the Instance schedule but can be overruled when requesting a Backup.

#### Verify Backup

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This option will verify the backup. To prevent that the backup jobs are being delayed, a separate Verify-Backup job will be pushed on the queue with low priority when the backup job has finished at Instance level. The Delete Backup files job keeps track of Backup files that still need to be verified to ensure that needed backup files are not deleted.

#### Compress

SQL Server compresses the file before it is written to disk. This does increase CPU usage but normally shortens the backup time as less needs to be written to disk.

#### Checksum

Checksum value is recorded into each page of the backup file. This does slow down the backup significantly.

#### Encrypt

Backup Options		
☐ Verify ☐ Compress	Checksum	Encrypt

If QGrip Backup Encryption has been enabled, you will also see the Backup Option 'Encrypt' if the version of the current SQL Server Instance is 2014 or higher.

#### 5.1.2 Job Specification DBBackup

#### **Regular DBBackup**

Job Specificat	ion	
StartAfter	2024-04-16 08:24	Backup Options
BackupType	DIFF	▼ Verify ▼ Compress □ Checksum □ Encrypt
	,	

The backup will take part of the restore strategy and will be stored on the same backup share as the scheduled backups. You can choose between the following backup types:

Backup Type	Description
DIFF	Differential backup will contain all changes made in the Database since the last
	FULL backup. Quick and mostly sufficient.



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FULL	A complete backup of the database. If the database is large this might take
	some time.
FULL_COPYONLY	Only option in AlwaysOn.
	A complete backup of the database. If the database is large this might take
	some time.

#### **Copy Only DBBackup**

Job Specificati	on
StartAfter	2024-04-16 08:24   Backup Options
BackupType	COPYONLY
KeepUntil	2024-04-30 00:00
BackupShare	CopyOnly
BackupName	<the backup="" give="" name="" the="" to="" want="" you=""></the>

The backup will <u>not</u> take part of the restore strategy and will be stored on a separate backup share that needs to be chosen. A date until when the backup file should be kept is also mandatory. Optionally, you can add your own logical backup name.

Backup Type	Description
COPYONLY	Which of the 3 types you choose depend on the purpose of the backup.
BASELINE	
ARCHIVE	

#### Charges

Requested DBBackup job (except for backup type DIFF) are registered and the application can be charged extra for these jobs depending on how your QGrip-Admin has configured the Charges, Split Costs module in QGrip.

#### 5.1.3 Job Specification LogBackup

Job Specificat	ion	
StartAfter	2024-04-16 08:24	Backup Options
BackupType	TRAN	▼ Verify ▼ Compress □ Checksum □ Encrypt

For a LogBackup, only StartAfter date + backup options need to be specified. LogBackup of database in SIMPLE mode is rejected:

Add Job F	Failed							
8	LogBackup	on	database	with	RecoveryModel	SIMPLE	not	possible.
								ОК



#### 5.1.4 Job Specification CheckDB

Job Specifi	cation		
StartAfter	2024-04-16 08:24	-	

#### **CheckDB Always On**

Database		Database
Env Production	•	Env Production
HostType Listener	-	HostType Instance
DBHost ATSTSQL22L1	-	DBHost ATSTSQL2202\PRD2
Database QGrip_P	-	Database QGrip_P (Secondary)

When requesting a CheckDB job of an AlwaysOn database you can choose the database either by Listener or Instance. If you choose Listener, the job will run on the Primary replica.

#### 5.1.5 Job Specification Optimise

Job Specification StartAfter 2024-04-16 08:24	•		
RebuildIndex       Frag %     30 ÷       Min Pages     1000 ÷       Max Pages     -1 ÷	✓ UpdateStats       Mod %       30 ÷       Sample %       30 ÷       Level       Index		
☐ Sort In Tempdb ☐ At Partition Level    Lock Timeout    1    Minutes			

Option	Parameter	Description
RebuildIndex		Rebuild index or not
	Frag %	Fragmentation percentage, default 30
	Min Pages	Minimal number of pages, default 1000
	Max Pages	Maximum number of pages, unlimited = -1
	Sort in	Default, in memory
	Tempdb	
UpdateStats		Update Statistics of not
	Mod %	Modification Percentage, default 30
	Sample %	Sample percentage, default 30
	Level	Index, Columns or Index+Columns



At partition level	
Lock Timeout	Max wait-time when locked

#### 5.2 BM - History



When a job is executed, it is always started at Instance level. If the job is scheduled, it will run on all Databases on the Instance. If the job is requested, it will only run on the database specified in the request.

- Instance Job History
  - Database Job History
  - Database Job History
  - Database Job History

In the History of the job as you will have both Instance History and Database History.

## Instance Job History (Optimise Job)

- Database Job History
  - Index Job History
  - Index Job History
  - Index Job History

An Optimise job goes even deeper and does also have Index history.

These different History Levels are used in the Backup-Maintenance History window. Use this filter to indicate at which level you want to see the history:

- Instance
- Database
- Index

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🛈 Ba	ckup-Maintenar	nce History					-		×
Filter Begin End Level	2021-01-15 06.0 2021-01-16 12-4 Database	00   Environment  Total Environment  Database  LogBackup   Chi	Production VMSQL1201\PRD  -All  ckDB Optimise Verify-DBBack	v v v	Backup			Pet R	ails resh
	Environment	JobType	Object	JobStatus	EstTime	RunTime	TimeUn 🖌		
Þ	Production	DBBackup - DIFF	[VMSQL1201\PRD].[model]	ОК	0	0	Seconds		
	Production	DBBackup - DIFF	[VMSQL1201\PRD].[model]	OK	0	0	Seconds		
	Production	DBBackup - DIFF	[VMSQL1201\PRD].[msdb]	OK	0	0	Seconds		
	Production	DBBackup - DIFF	[VMSQL1201\PRD].[msdb]	OK	0	0	Seconds		
	Production	DBBackup - DIFF	[VMSQL1201\PRD].[QGrip]	OK	0	0	Seconds		
	Production	DBBackup - DIFF	[VMSQL1201\PRD].[QGrip]	OK	0	1	Seconds		
•	Production	DBBackup - DIFF	IVMSQL1201\PRD].[TestApp P1	ок	0	0	Seconds -		

There is a Begin and End period, Environment and Instance in the filter. If you choose level Database or Index, you will also be able to filter on Database.

The first Tab in the overview is shared for all Failed jobs of all JobTypes and the rest of the tabs are per JobType.

At level Index, only the tab Optimise will be filled and only for the executed Rebuild Index and Update statistics.

There is not an extended log file for each job but you can see more details by double-click on a row in the current tab or selecting the row and pressing the Details button.

## 6 Restore Database

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<b>Required Authorisation</b>	Menu
Restore/Clone (To)	Jobs -> Restore-Database -> Request
	Jobs -> Restore-Database -> Delete
	Jobs -> Restore-Database -> History

#### **Recommended documentation**

Doc-Tab	Title
Jobs	Restore-Clone-Import Database

You will only be able to request (and Delete) Restore jobs of Applications/Environments you are Authorised for. You will only be able to see the History of Application you are Authorised for.

#### Charges

Requested Restore jobs are registered and the application can be charged extra for these jobs depending on how your QGrip-Admin has configured the Charges, Split Costs module in QGrip.

#### 6.1 Restore Request

Applic Applic M D Resto Fnv	ore-Database R cation/DBAlias - lyApps Portia BAlias Core ore	lequest	1	Cha Rest	ange ID 3. tore Specification	110.00		-	Add2Que GetScri Refres Close	X tue pt
Host	Type Instance			I Res	store Type Last Re					
HUSL	Type Instance		2			guiar	-			
DBH	ost BTSTSC	L22\TST	<b>4</b> . •	1						
Data	base Portia_T	Core	-	]						
Restore	1									
	Environment Prio Object		Object	Status	StartAfter	JobStarted EstTime		RL		
•	<ul> <li>Test 33 [BTS]</li> </ul>		[BTSTSQL22\TST].[Portia_T_Sore]	ST].[Portia_T_Sore] Idle		2024-04-16 08:58				-
4									1 rows	

The request window consists of 5 parts:

- 1. Application (Database Alias) selection
- 2. Database Selection
- 3. Change ID if required
- 4. Restore Specification
- 5. Restore database jobs on the queue The Refresh button will renew the content

Selecting a new value will update the rest of the window with new, valid options. In the database selection, the Host Type will be Listener if the database is running on an AlwaysOn Cluster. QGrip will automatically deal with Availability group membership and restore on all replicas simultaneous.

Restore Types	
Restore Type	Description



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Last Regular	Restore the last available regular (FULL, DIFF, TRAN) backup file.
	AlwaysOn: FULL_COPYONLY, TRAN.
Point in Time	Restore database to certain Date/Time. Only possible if Database recovery
	model is Full or Bulk-Logged and TRAN backups are available.
Choose File	Choose the backup file you want to restore.

When you have specified the job, press Add2Queue.

Confirm	Add2Queue
0	Restore Database at 2024-04-16 08:58 Application : Portia ChangeID : Environment : Test HostType : Instance DBHost : BTSTSQL22\TST Database : Portia_T_Core - Parameters
	Using last available Regular backup Do you want to continue? Yes No

You will need to confirm the Request. After confirming the job, it will appear in the overview (5.). If you are not authorised for Auto-Approval, the job will have status Awaiting Approval. You will receive a Personal message when the job has finished or your job request has been denied.

#### 6.1.1 Restore – Get Script

Restore-Database Request	-		×	
Application/DBAlias	Change ID	Ī	Add2Queu GetScript	
I DBAlias Core			Refresh	
Restore	Restore Specification	ן ן	Close	

The GetScript button will open a window with a script containing the restore statements that QGrip will execute for the selected restore job.

RestoreScript [BTSTSQL225TST],[Portia_T_Core]	-		×
Somet ALTER DATABASE (Portia_T_Core) SET SINGLE_USER WITH ROLLBACK INMEDIATE GO EXECUTE AS Login='sa' GO RESTORE DATABASE (Portia_T_Core) FROM DISK = N'\\BSHAREO1\IST-Regular\BTSTSQL22SIST\Portia_T_Core STSTSQL22SIST_Portia_T_Core_20240416_090017_FULL.bak' WITH FILE = 1, NORECOVERY, REPLACE, STATS = 10 GO RESTORE DATABASE (Portia_T_Core) WITH RECOVERY GO ALTER DATABASE (Portia_T_Core) SET MULTI_USER GO		Save As Close	-

The script will also contain comments on action that need to be done "outside" the actual script.

If, for instance, a secondary database in an AlwaysOn cluster needs to be rebuilt because it is no longer synchronising, you can use parts of the script generated here.



#### 6.2 Restore Delete

O. De	lete Resto	re Jobs				-		×
Filt	Details Delete ✦							
Resto	re	liest					Close	
	Prio	StartAfter	Status	Object	Description			
Þ	33	2024-04-16 10:13	ldle	[BTSTSQL22\TST].[Portia_T_Core]	Last Available Regular Backup	+		
						1 ro	ws	

As long as a Restore job has not yet started you can delete (Cancel) it.

See Restore details by double-click on a row in the overview or selecting the row and pressing the Details button. When a Restore job has been deleted/cancelled the person who requested the Job will receive a personal message.

#### 6.3 Restore History

🛈 Res	tore History							- 0	×
Filter         Begin         2024-04-01 06:00         ▼         ✓         MyApps         Portia         ▼           End         2024-04-16 17:18         ▼         ✓         All Apps         .									s 🔶
Restor	e-History							Close	
	Environment	Prio	Object	Job Status	EstTime	RunTime	TimeUnit	[	
▶	Test	33	[BTSTSQL22\TST].[Portia_T_Core]	ОК	-1	13	Seconds		- 1
	Test	33	[BTSTSQL22\TST].[Portia_T_Core]	Cancelled	0		Seconds		
4 2 ro								2 rows	

Use the filters Begin and End period and Application to find the Restore history you are looking for. You will only be able to select applications you are authorised for. See details by double-click on a row in the overview or selecting the row and pressing the Details button.



Additional filter option for QGrip-Admin, show restores of all Apps for Period.

## 7 Clone Database

**OGRIP** 

<b>Required Authorisation</b>	Menu
Clone To	Jobs -> Clone-Database -> Request
Clone From	Jobs -> Clone-Database -> Edit
	Jobs -> Clone-Database -> History

#### **Recommended documentation**

Doc-Tab	Title
Jobs	Restore-Clone-Import Database
Application	Post Clone Scripts

You will only be able to Request (and Edit) Clone jobs of Applications you are Authorised for. You will only be able to Clone To environment you are Authorised for and from Environments you are Authorised for. You will only be able to see the History of Application you are Authorised for.

#### Charges

Requested Clone jobs are registered and the application can be charged extra for these jobs depending on how your QGrip-Admin has configured the Charges, Split Costs module in QGrip.

#### PostClone script fails

If there is an error in the PostClone script the whole Clone Job will get the status failed. Check the logfile of the Clone to see where the error occurred and if it can be fixed without cloning the database again.

#### 7.1 Clone Request

Applic My DE	e-Database ation/DBAlia /Apps MS BAlias Cor	Request as GY-Messy re	1.	•	Change ID	4.				-	Add2Que Refres Close	× sue
Source Env HostT DBHo Datab	Acception Accept	ptance nce TSQL19\ACC _A_Core	2.	•	Clone Specification StartAfter 2024-04-1 Clone Type Last Regu	7 09:26 lar <b>5.</b>	¥ ¥					
Destin Env HostT DBHo Datab	ation Test ype Instar st ATST ase MSY	nce TSQL19\TST _T_Core	3.	• • •	Post Clone Actions Default DBOwner General Settings Other Updates Drop/Create Users	sa GeneralPos Update Con Logins + Us	Iclone fig Table ers	× • •	View View View			
Clone	Environment Test	t Prio 23	Object [ATSTSQL19VACC].[MS1	Y_A_Core] -> [A]	ertsol 19/TSTJ.(MSY_T_C	Status Core] Idle	Start.After 2024-04-17 09:2	JobStarted	EstTime		rows	-

The request window consists of 7 parts:

- 1. Application (Database Alias) selection
- 2. Source Database Selection
- 3. Destination Database Selection



- 4. Change ID if required
- 5. Clone Specification
- 6. Post Clone Actions
- 7. Clone database jobs on the queue The refresh button will renew the content

Selecting a new value will update the rest of the window with new, valid options. In the Source/Destination database selection, the Host Type will be Listener if the database is running on an AlwaysOn Cluster. QGrip will automatically deal with Availability group membership and restore on all replicas simultaneous.

#### When you have specified the job, press Add2Queue.

Confirm	Add2Queue
	Clone Database at 2024-04-17 09:26
••	Application : MSY-Messy ChangeID : -Source Environment : Acceptance HostType : Instance DBHost : ATSTSQL19\ACC Database : MSY_A_Core -Destination Environment : Test HostType : Instance DBHost : ATSTSQL19\TST Database : MSY_T_Core DBOwner : sa -Parameters Using last available Regular backup -Postclone Actions General Settings : GeneralPostclone Other Updates : Update Config Table Drop/Create Users : Logins + Users
	Yes No

You will need to confirm the Request. After confirming the job, it will appear in the overview (7.). If you are not authorised for Auto-Approval, the job will have status Awaiting Approval. You will receive a Personal message when the job has finished or your job request has been denied.

#### 7.1.1 Clone Specification

Clone Type	Description
Last Regular	Restore the last available regular (FULL, DIFF, TRAN) backup file from
	Source.
	AlwaysOn: FULL_COPYONLY, TRAN.
Point in Time	Restore database to certain Date/Time. Only possible if Source
	Database recovery model is Full or Bulk-Logged and TRAN backups are
	available.
Choose File	Choose the backup file you want to restore from Source.
After New Backup	Make a new backup of source database and use that backup for the
	Clone.



Repeat Last Regular	Schedule the Clone Action Daily/Weekly/Monthly using the last
(*)	available regular (FULL, DIFF, TRAN) backup file from Source.
	AlwaysOn: FULL_COPYONLY, TRAN.
Repeat Last DIFF/FULL	Schedule the Clone Action Daily/Weekly/Monthly using the last
(*)	available DIFF or FULL backup file from Source.
	AlwaysOn: FULL_COPYONLY.
Multi-Phase	Restore all available regular (FULL, DIFF, TRAN) backup file from
(*)	Source.
	AlwaysOn: FULL_COPYONLY, TRAN.
	Every x minutes, restore all new TRAN backups.
	Last phase, take new TRAN backup of Source and restore all new
	TRAN backups.

(\*) Can only be requested by QGrip-Admin.

#### 7.1.2 Post Clone Actions

Post Clone Actions			
✓ Default DBOwner	sa	~	
General Settings	GeneralPostclone	•	View
✓ Other Updates	Update Config Table	•	View
I Drop/Create Users	Logins + Users	•	View

In the last phase of the Clone, when the Destination database has been restored and recovered, the PostClone actions will be executed. These actions are meant to configure the Restored database for the new environment. That should always include dropping all existing users and recreating them but also change configuration and parameter tables to fit the Destination environment.

You can only select and View the PostClone Script here. You might want to study

Basics: Substitutions & Naming Conventions

in order to be able to fully understand the scripts.

If new logins with passwords are created during the PostClone they will automatically be added to the QGrip Password Safe. If on an AlwaysOn Cluster, QGrip will automatically create them (with the same SID and password) on all Replicas. If applicable, passwords will be added to the Password Safe for all Replicas.

Post Clone Actions	Description
1. General Setting	This should be a global script for your whole organisation with
	rules that should apply to all databases and environments. For
	instance, always migrate the database to the current version of the
	SQL Server instance.
2. Other Updates	Anonymising data, update config/parameter tables, change
	environment dependant synonyms, etc.
3. Drop/Create Users	A Post Clone script to drop and/or create users.



#### 7.2 Clone Edit

🕽 Edi	t Clone Jo	obs			-	- 🗆 X
Filte	<b>n</b> MyApps	MSY-Messy		- I	✓ Show All	Details 🔶
De	stination E	nv Test		Ŧ		FinishNow
Clone	1					Delete
	Prio	CloneType	Start After	Status	Object	Close
۶.	23	Last Regular	2024-04-17 09:26	Idle	[ATSTSQL19\ACC].[MSY_A_Core] -> [ATSTSQL19\TS	
	23	Repeat Last Regular	2024-04-17 10:00	Idle	[ATSTSQL19\ACC].[MSY_A_Core] -> [ATSTSQL19\TS	<b>—</b>
4						2 rows

You will only be able to select applications and destination environment you are authorised for. See details by double-click on a row in the overview or selecting the row and pressing the Details button.

Select the Clone jobs you want to Postpone/FinishNow/Delete and press the appropriate button. The person who requested the Job will receive a personal message.

## Show All

Additional filter option for QGrip-Admin, all Clone jobs that can be edited will be visible.

#### 7.2.1 Clone Postpone

C Edit	t Clone J	obs			-	X
Filte	er MyApps stination f	MSY-Messy Env Test		¥	Show All	Details Postpone <b>(</b> FinishNow
Clone	1					Delete
	Prio	CloneType	StartAfter	Status	Object	Close
	23	Last Regular	2024-04-17 09:26	Idle	[ATSTSQL19\ACC].[MSY_A_Core] -> [ATSTSQL19\TS	
Þ	23	Repeat Last Regular	2024-04-17 10:00	ldle	[ATSTSQL19\ACC].[MSY_A_Core] -> [ATSTSQL19\TS	
4					•	2 rows

A repeatable Clone job can be postponed with one period.

Please co	onfirm action	n								
?	Postpone	the 1	l selected	repeatable	Clone	Jobs	with (	one	period?	
							Yes		No	



#### 7.2.2 Clone Finish Now

Þ	24	Multi-Phase	2024-04-16 11:07	Paused	[ATSTSQL19\PRD] [MSY_P_Core] -> [ATSTSQL19\AC	
	Prio	Clone Type	StartAfter	Status	Object	Close
Clone	estination E	Env Test		¥		FinishNow  Delete
Fil	MyApps	MSY-Messy	,	Ÿ	Grand Show All	Details
Ed	it Clone J	obs				– 🗆 ×

A Multi-Phase clone job can manually be triggered to finish now. The Last Phase will be initiated immediately.

Please co	nfirm acti	ion							
?	Finish	the	1	selected	Mul	ti-Phase	Jobs	now?	
					[	Yes		No	

#### 7.2.3 Clone Delete

	Clone Job	55			-	>
Filter						Details
M	lyApps	MSY-Messy		*	Show All	Postpone
Desti	ination En	v Test		2		FinishNow
lone	1					Delete
	Prio	CloneType	Start After	Status	Object	Close
<b>&gt;</b>	23	Last Regular	2024-04-17 09:26	Idle	IATSTSQL19\ACCLIMSY_A_Core1-> IATSTSQL19\TSTLIN	

As long as a Clone job has not yet started (Status Idle) it can be deleted (Cancelled).





## **QGRIP-UI – JOBS MENU**

#### 7.3 Clone History

Clone I	History				-	- 0	×		
Filter Begin 2	2024-04-15 06:0	0 -	✓ MyApps MSY-Messy ✓			Detail	•		
End 2024-04-16 18:16 T All Apps									
Clone-Histo	ory	Prio	Object	JobStatus	EstTime				
Þ A	cceptance	24		OK		-			
			[ATSTSQL19\TST].[MSY_T_Core] -> [ATSTSQL19\ACC].[MSY_A_Core]	UK					
Te	est	23	[ATSTSQL19\TST][MSY_T_Core] > [ATSTSQL19\ACC][MSY_A_Core] [ATSTSQL19\ACC][MSY_A_Core] -> [ATSTSQL19\TST][MSY_T_Core]	Cancelled	0				
Te Te	est est	23 23	[ATSTSQL19\ACC].[MSY_A_Core] >> [ATSTSQL19\ACC] [MSY_A_Core] [ATSTSQL19\ACC].[MSY_A_Core] -> [ATSTSQL19\TST].[MSY_T_Core] [ATSTSQL19\ACC].[MSY_A_Core] -> [ATSTSQL19\TST].[MSY_T_Core]	Cancelled Cancelled	0				

Use the filters Begin and End period and Application to find the Clone history you are looking for. You will only be able to select applications you are authorised for. See details by double-click on a row in the overview or selecting the row and pressing the Details button.



Additional filter option for QGrip-Admin, show Clones of all Apps for Period.

## 8 Import Database

**OGRIP** 

<b>Required Authorisation</b>	Menu
QGrip-Admin	Jobs -> Import-Database -> Request
	Jobs -> Import-Database -> Delete
	Jobs -> Import-Database -> History

#### **Recommended documentation**

Doc-Tab	Title
Jobs	Restore-Clone-Import Database
Application	Post Clone Scripts

Import-Database can only be requested by QGrip-Admin.

#### Charges

Requested Import Database jobs are registered and the application can be charged extra for these jobs depending on how your QGrip-Admin has configured the Charges, Split Costs module in QGrip.

#### Port Import Database Script = Post Clone Script

A Post Import script is the same as a PostClone script.

#### **Post Clone script fails**

If there is an error in the PostClone script the whole Import Database Job will get the status failed. Check the logfile of the Import Database to see where the error occurred and if it can be fixed without importing the database again.

#### 8.1 Import Database Request

Import-Database Request	- 🗆 X
Application/DBAlias	Add2Queue Refresh
Import-Database Specification Start&fter 2024-04-16 10:24  Domain GOS-A  2.	
Share         Import         LastScan         2024-04-16 10 28:36         Re-Scan           BackupFile         ADEVSQL12\$PRD_MSY_P_Core_20210626_164439_FULL.bak         Re-Scan         Re-Scan         Re-Scan	Details
Destination Post Import-Database Actions Free Destination To Default DBDamper	
HostType Instance	View
DBHost ATSTSQL19\TST   Database MSY_T_Core  V  Other Updates Update Config Table  DotplCreate Users Logins + Users	View View
Import-Database	
Environment Prio Object Status StartAfter JobStarted EstTime RunTime TimeU	Init Domain Application Desc

The request window consists of 6 parts:

- 1. Application (Database Alias) selection
- 2. Import-Database Specification / Source



- 3. Destination Database Selection
- 4. Change ID if required
- 5. Post Import-Database Actions
- 6. Import database jobs on the queue The refresh button will renew the content

Selecting a new value will update the rest of the window with new, valid options. In the Destination database selection, the Host Type will be Listener if the database is running on an AlwaysOn Cluster. QGrip will automatically deal with Availability group membership and restore on all replicas simultaneous.

#### When you have specified the job, press Add2Queue.

Confirm	Add2Queue
	Import Database at 2024-04-16 10:24 Application : MSY-Messy ChangeID : -Source
	Import Share : Import Domain : GOS-A FileName : ADEVSQL12\$PRD_MSY_P_Core_20210626_164439_FULL.bak -Destination
0	Environment : Test HostType : Instance DBRost : ATSTSQL19\TST Database : MSY_T_Core
	DBOwner : sa -Post Import Actions General Settings : GeneralPostclone Other Updates : Update Config Table
	Drop/Create Users : Logins + Users Do you want to continue?
	Yes No

You will need to confirm the Request. After confirming the job, it will appear in the overview (6.). If you are not authorised for Auto-Approval, the job will have status Awaiting Approval. You will receive a Personal message when the job has finished or your job request has been denied.

#### 8.1.1 Import-Database Specification (Source)

Import-Data	base Specification			
StartAfter	2024-04-16 10:24			
Domain	GOS-A	[		
Share	Import 💌	LastScan 2024-04-16 10:28:36	Re-Scan	
BackupFile	ADEVSQL12\$PRD_MSY_P_Core_20210626_1	64439_FULL.bak		] Details

Choose Domain and the Import Share.

If the Backup File you want to use is new on the Import Share you will need to Re-Scan the Share:

Scan Import BackupShare	Finished
Scan Import and refresh content? This might take several minutes (max 3).	Scan of Import is ready.
OK Cancel	ОК

You cannot close the window while the scan is running but you can minimise the window.



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If the scan turns out to take longer, you will receive a Warning. You will receive a personal message when the scan has finished.

The drop down with Backup Files will only contain files containing a FULL backup. The Details button will open a window with the details of the current backup file:

Details: ADEVSQL12SPRD_N	/ISY_P_Core_20210626_164439_FULL.bak	-		$\times$
Details			Close	1
ADDomain : GOS-A BackupShare : Import FileName : ADEVSQL1 FullName : \\ASHARE FileSireMB : 4 FileDate : 2021-06-	2#PRD_MSY_P_Core_20210626_164439_FULL.bak 01\TST-Import\ADEVSQL12#PRD_MSY_P_Core_20210626_164439_FULL.bak 26 16:44:39	^	Close	
BackupType DatabaseName RecoveryModel CompatibilityLevel SoftwareVersionMajor SoftwareVersionBuild DatabaseVersion DatabaseVersionDate	: FULL : MSY_P_Core : FULL : 110 : 11 : 0 : 7001 : 706 : 2001-05-25 15:44:25			

#### 8.1.2 Post Import-Database Actions

These are exactly the same as the PostClone actions described in the last chapter.

#### 8.2 Import-Database Delete

D De	lete Impo	ort-Database Jobs				-		×
Filt F	er MyApps vironment	MSY-Messy Test	-	y Show All			Details Delete Close	+
Import	t-Database	e Start Mar	Status	Object	Deposition	1		
Þ	14	2024-04-17 10:24	Idle	[ATSTSQL19\ACC].[MSY_A_Core]	From File: ADEVSQL12\$PRD_MSY_P_Core_202106			
4					•	1 100	<b>//S</b>	

As long as an Import-Database job has not yet started (Status Idle) it can be deleted (Cancelled).

Confirm	delete
?	Delete selected Import-Database Jobs?
	Yes No



8.3 Import-Database History

Q Imp	ort-Database Hist	ory					-		×
Filter Begin End	2024-04-15 06:00 2024-04-16 18:53 Database-History		MyApps MSY-Messy		~			Details Refresh Close	
	Environment	Prio	Object	Job Status	EstTime	RunTime			
Þ	Test	13	[ATSTSQL19\TST].[MSY_T_Core]	Failed	4		7 :	<b>—</b>	
	Acceptance	14	[ATSTSQL19\ACC].[MSY_A_Core]	Cancelled	(	)	1		
•							•	? rows	

Use the filters Begin and End period and Application to find the Import-Database history you are looking for. See details by double-click on a row in the overview or selecting the row and pressing the Details button.



#### 9 Discover

<b>Required Authorisation</b>	Menu
Discover	Jobs -> Discover -> Request
	Jobs -> Discover -> History

You will only be able to request a Discover job for the Environments you are Authorised for. If you are authorised for Discover, you will be able to see the history of all Discover jobs.

#### 9.1 Discover Request

UL D	iscover Job	Request							-		×
Env	ironment F	Production	n		Chang	e ID			Γ	Add2Que	eue
Inst	ance //	ATSTSQL	.2201\PF	RD1	•				- 1	Refres	h 🔶
Star	tAfter 2	2024-04-1	6 12:59		·				- 7	Close	
Disc	over								-		_
2.00	Environr	ment	Prio	Object	Status	StartAfter	Job Started	EstTime			
•	Environ	ment	Prio 53	Object [ATSTSQL19\TST]	Status Idle	StartAfter 2024-04-16 12:59	JobStarted	EstTime			
•	Environr Test Production	ment on	Prio 53 56	Object [ATSTSQL19\TST] [ATSTSQL2201\PRD1]	Status Idle Idle	StartAfter 2024-04-16 12:59 2024-04-16 12:59	JobStarted	EstTime			
•	Environr Test Production	on	Prio 53 56	Object [ATSTSQL19\TST] [ATSTSQL2201\PRD1] [ATSTSQL2202,PRD2]	Status Idle Idle	Start After 2024-04-16 12:59 2024-04-16 12:59 2024-04-16 12:59	JobStarted	EstTime			

The Discover tab shows all Discover jobs on the Queue. The Refresh Button will renew the data in the overview. The StartAfter date is the moment when you want the job to start. Select Instance and StartAfter datetime, enter Change ID if required and press Add2Queue.

Confirm	Add2Queue
?	Discover at 2024-04-16 12:59 Environment : Test Instance : ATSTSQL19\TST ChangeID : Do you want to continue?
	Yes No

After confirming the job, it will appear in the overview. If you are not authorised for Auto-Approval, the job will have status Awaiting Approval. When the Discover job has finished or the Request was denied, you will receive a personal message.

Confirm	Add2Queue
?	Discover at 2024-04-16 12:59 Instance : ATSTSQL2201\PRD1 Is part of a Cluster
	Would you like to Discower all nodes in the Cluster?
	Yes No



If the Instance you requested the Discover job for is part of a Cluster, you will be asked if you want to discover the other nodes in the Cluster.

#### 9.2 Discover History

Dis	cover History							-	- 🗆	×	
Filter Begin End	n 2024-04-15 06: 2024-04-16 13:	00 <b>•</b>	Environment Instance	Test ATSTSQL19\TST			•		De Ref	tails 🔶 fresh	
Failed	Jobs Discover									ose	
	Environment	Prio	JobType	Object	Job Status	EstTime	RunTime	1			
▶	Test	53	Discover	[ATSTSQL19\TST]	ок		6	6 S			
	Test	53	Discover	[ATSTSQL19\TST]	OK		6	5 S			
۱.								•	2 rows		

Use the filters Begin and End period, Environment and Instance to find the job(s) you are looking for. The first Tab in the overview contains the Failed Discover jobs and the Discover Tab all Jobs. Due to the fact that the Discover jobs run very regularly, there is not an extended log file for each run, but you can see more details by double-click on a row in the overview or selecting the row and pressing the Details button.



## 10 AppApi-Call - History

<b>Required Authorisation</b>	Menu
QGrip-Admin	Jobs -> AppApi-Call -> History

#### **Recommended documentation**

Doc-Tab	Title
Plugins	AppAPI Backup & Restore

		Refresh
	_	Close
Port Database	A	
440 BIGDB_T_MA	AIN B	
440 MSY_T_Core	R	
	440 MSY_T_Core	440 MSY_T_Core R

In this Window, you can see all AppAPI Backup & Restore actions for a chosen period.

Tabs	Description
Failed Jobs	All failed jobs
AppApi-Call	All call attempt, both successful and failed
Backup	Successful Backups
Restore	Successful Restores



## 11 Clean-up

<b>Required Authorisation</b>	Menu
Run Clean-up Jobs	Jobs -> Cleanup -> Request
	Jobs -> Cleanup -> History

#### **Recommended documentation**

Doc-Tab	Title
Jobs	Clean-up Jobs

#### JobType

JobType	Description					
CheckDB Output	Removes the Binary log files in the QGrip database.					
History Tables Deletes records in the History tables in the QGrip database.						
be parameters used by the different jobs are set from the Clean up Definition						

The parameters used by the different jobs are set from the Clean-up Definition.

#### 11.1 Request

O CI	eanup Job	Request								-		×
JobT Start/ Clean	ype Che After 202 up	eck.DBOutput 24-04-16 12:39		•						[	Add2Que Refresi	sue
	Prio	Object	Status	StartAfter	JobStarted	EstTime	RunTime	TimeUnit	Domain	ור		_
۲.	30	CheckDBOutput	Idle	2024-04-16 12:39					GOS-A			
•									<u>_</u>	· 1	rows	

The overview shows all Cleanup jobs on the Queue. The Refresh Button will renew the data in the overview. The StartAfter date is the moment when you want the job to start. Select JobType and StartAfter datetime and press Add2Queue.



After confirming the job, it will appear in the overview. When the Cleanup job has finished you will receive a personal message.

#### 11.2 History



O CI	eanup His	tory							-		×
Filter Begi End	n 2024-0 2024-0 Jobs Cle	04-15 06:00 04-16 13:43 an Up	• •							Details Refresh Close	+
	Prio	JobType	Object	Job Status	EstTime	RunTime	TimeUnit	JobStarted J			
▶	30	CleanUp	<b>History</b> Tables	ОК	1	2	Seconds	2024-04-15 17:00 2	-	_	
	30	CleanUp	CheckDBOutput	ОК	1	5	Seconds	2024-04-16 03:00 2			
	30	CleanUp	HistoryTables	ОК	1	2	Seconds	2024-04-16 05:00 2			
•									3 rov	vs	

Use the filters Begin and End period to find the job(s) you are looking for.

The first Tab in the overview contains the Failed jobs and the CleanUp Tab all Jobs.

To see more details, double-click on a row in the overview or select the row and press the Details button.



## 12 DomainJob

Required Authorisation	Menu
Run Domain Jobs	Jobs -> DomainJob -> Request
	Jobs -> DomainJob -> History

#### **Recommended documentation**

Doc-Tab	Title				
Jobs	Domain Jobs				

#### JobType

JobType	Description
Get-ADGroupMembers	Finds all members of all AD-groups that are used as login on Instances
	in QGrip.
DeleteCheck-BackupFiles	Deletes backup files on the backup shares using the clean-up
	definition. It also checks that the files that are registered in the QGrip
	databases really exists on the backup shares.
Check-BackupShares	Checks that the files on the backup shares also are registered in the
	QGrip database.

#### 12.1 Request

<b>Q</b> , p	omainJob f	Request						-	. 🗆	×
Dom	ain GO	S-A		•					Add2Que	sue
DomainJob Request     -      X      Domain GOS-A     JobType DeleteCheck-BackupFiles     StartAfter 2024-04-16 12:46      DomainJob      Prio Object Status StartAfter JobStarted EstTime RunTime TimeUt      20 DeleteCheck-BackupFiles Idle 2024-04-16 12:46      Homode Check-BackupFiles Idle 2024-04-16 12:46     Homode Check-BackupFiles Idle 2024-04-16 12:46     Homode Check-BackupFiles Idle 2024-04-16 12:46     Homode Check-BackupFiles Idle 2024-04-16 12:46     Homode Check-BackupFiles Idle 2024-04-16 12:46     Homode Check-BackupFiles Idle 2024-04-16 12:46     Homode Check-BackupFiles Idle 2024-04-16 12:46     Homode Check-BackupFiles Idle 2024-04-16 12:46     Homode Check-BackupFiles Idle 2024-04-16 12:46     Homode Check-BackupFil		h 🔶								
StartAfter 2024-04-16 12:46				•					Close	
Dom	doLnie									
	Prio	Object	Status	StartAfter	Job Started	EstTime	RunTime	TimeUn		
۶.	20	DeleteCheck-BackupFiles	Idle	2024-04-16 12:46						_
										- 1

The overview shows all Domain Jobs in the Queue. The Refresh Button will renew the data in the overview. The StartAfter date is the moment when you want the job to start. Select Domain, JobType and StartAfter datetime and press Add2Queue.



After confirming the job, it will appear in the overview. When the Domain job has finished you will receive a personal message.



#### 12.2 History

<b>D</b> 00	mainJob	History							- 0	×
Filter			Durnia lacan						Details	4
End	20244	14-15 06:00	J Domain 1905-8		-				Refrest	h
	120241	A-10 13.43	<u></u>						Close	
Faled	Jobs Do	mainJob								
	Prio	Job Type	Object	Job Status	EstTime	RunTime	TimeUnit	Job Started		
▶	20	DomainJob	DeleteCheck-BackupFiles	ОК	4	4	Seconds	2024-04-16 03		
	20	DomainJob	Get-ADGroupMembers	OK	4	6	Seconds	2024-04-16 05		
	20	DomainJob	Check-BackupShares	OK	1	4	Seconds	2024-04-16 05		
							·			
•								•	3 rows	

Use the filters Begin and End period and Domain to find the job(s) you are looking for.

The first Tab in the overview contains the Failed jobs and the DomainJob Tab all Jobs.

To see more details, double-click on a row in the overview or select the row and press the Details button.