OGRIP

Schedules

GRIP ON SQL

2024-04-16

Contents

1 Introduction

This document globally describes the Schedules in QGrip. For a detailed description of the jobs and their option we refer to the job/queue specific documentation.

	Category	Domain	Object	Message	WarningAdded
Warning	NotActivated		CleanUp-Schedule	Not Activated	2020-12-03 11:25

QGrip will issue Warnings if schedules have not yet been active as it is important that the jobs do run on a regular basis.

2 Schedule Types

- **Template**
- **CleanUp**
- **DomainJob**
- **Instance**

Schedules
- Template-Schedules
- CleanUp-Schedules
- DomainJob-Schedules
- Instance-Schedules
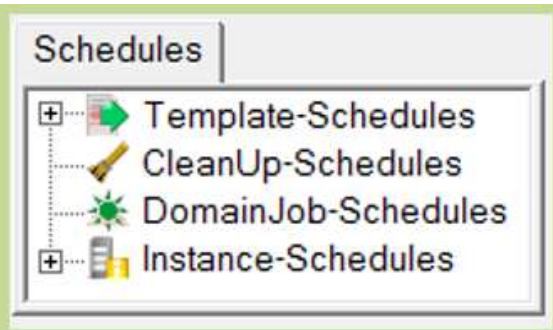
There are four different Schedule types and they can all be found in the same window in QGrip.
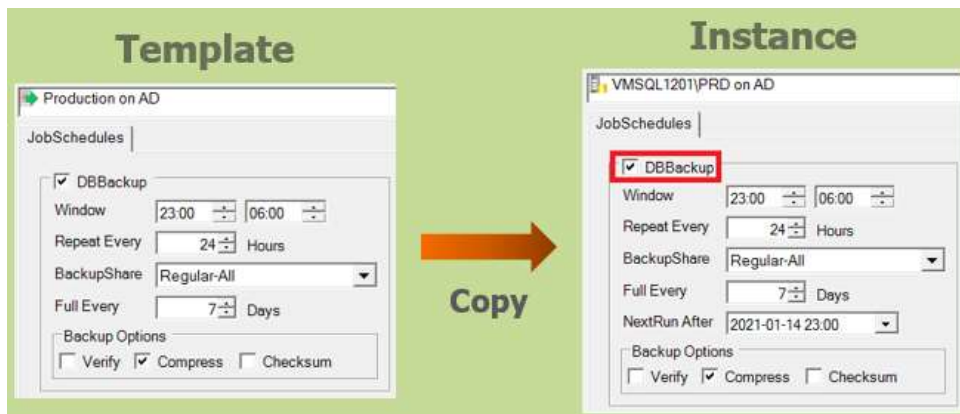
3 Template Schedules

Per Environment/Domain
- **DBBackup**
- **LogBackup**
- **CheckDB**
- **Optimise**
- **Discover**
- **SystemUsage**

Template-Schedules
- JobTypes
  - DBBackup
  - LogBackup
  - CheckDB
  - Optimise
  - Discover
  - SystemUsage
- Environments
  - Test
  - Acceptance
  - Production
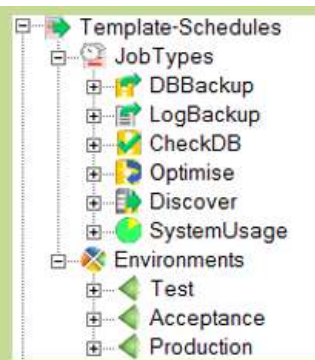
The Template Schedules are defined for 6 Job Types and need to be configured per Environment / Domain combination.

The Template Schedule is supposed to make it easier when you need to add schedules for a new Instance. The template is copied, all you need to do is active it by checking the Job Type check box.

The Template is copied to the Instance schedule and not inherited so changing the Template will _not_ affect the Instance Schedule.

The Template is defined per Environment/Domain. If a new Domain is added to QGrip, the last changed template will be copied for the new domain. It will save you time if you first complete all Template Schedules for the first Domain and then add additional domains.

4   CleanUp Schedules

QGrip saves the output from the CheckDB job and history records of all other jobs in the database. To prevent that the database grows too much and performance degenerates, the CleanUp jobs should run regularly.
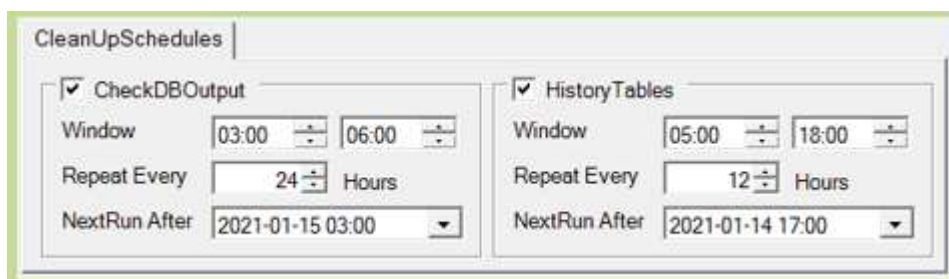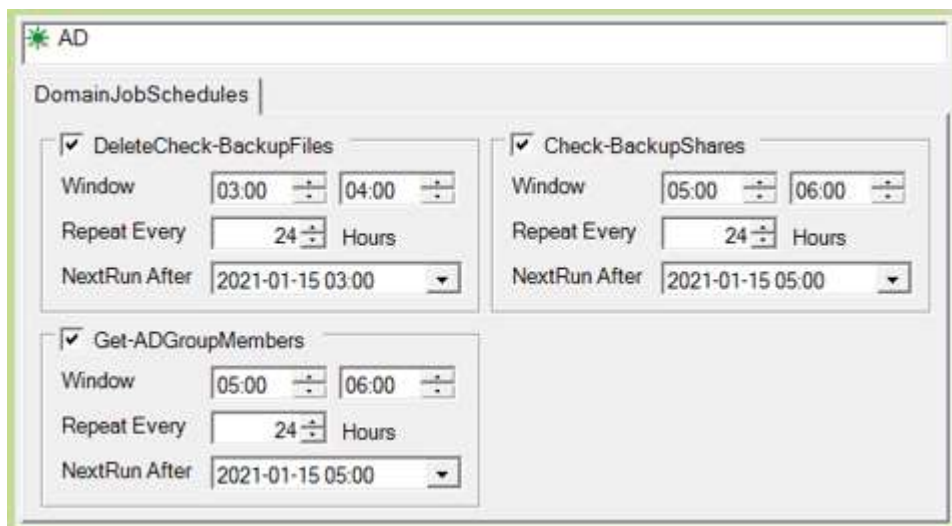

Both jobs use the CleanUp definition as input to determine what can be deleted. The CleanUp definition is added to QGrip during the Initial configuration.

5 DomainJob Schedule

- **DeleteCheck-BackupFiles**
- **Check-BackupShares**
- **Get-ADGroupMembers**

The DomainJob schedules need to be defined for each domain.

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.

Get-ADGroupMembers

Collect group members from the Active Directory for logins on the Instances of type AD-group. The information is added to QGrip where you can see the members of the groups and exactly who has access to SQL Server on AD-user level.

6 Instance Schedules

- ## DBBackup (Full, Diff, Full_CopyOnly)
- ## LogBackup
- ## CheckDB
- ## Optimise (Index, Stats)
- ## Discover
- ## SystemUsage

The Instance Schedules are initially copied from the Template Schedules but can be adjusted per Instance. An Instance schedule can only be activated if the Template Schedule is also activated, otherwise it will not be visible.

6.1 Bulk Edit
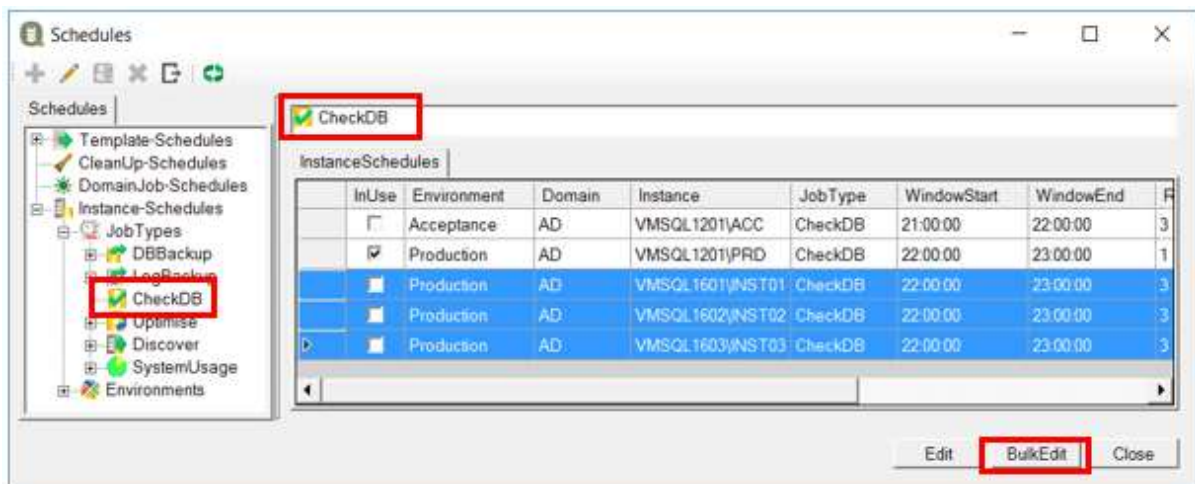
Use BulkEdit to change multiple Instance-Schedules of the same JobType with the same value(s).
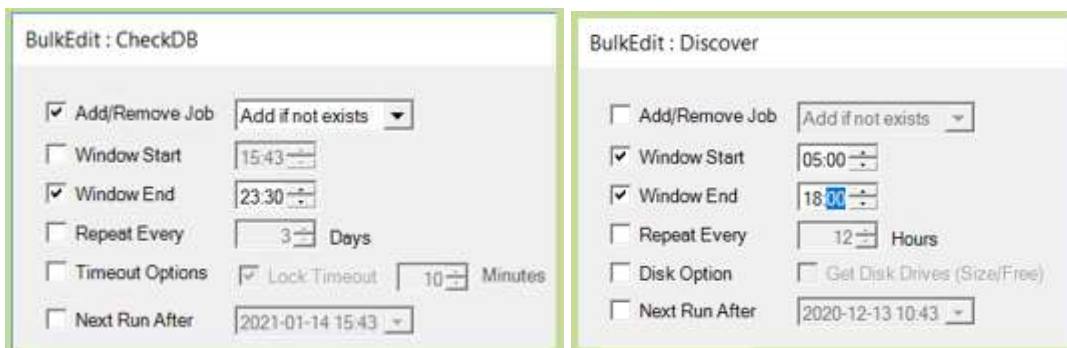
Check the value that needs to be changed and enter the new value. The BulkEdit window differs per Job Type.

7 Schedule Input

Window Start
Window End
Repeat Every
NextRun After (not in Template)

Window	03:00	04:00
Repeat Every	24 Hours	
NextRun After	2020-12-04 03:00	

All Schedules have a Window Start-End and a Repeat Every value and a Next Run time stamp (except Template Schedules).

7.1 Window (Start-End)

Purpose
- **Limit runtime (CheckDB, Optimise)**
- **Reschedule Job (All)**

The purpose of the Window (Start-End) is for rescheduling the job and limit the runtime of the CheckDB and Optimise jobs.

CheckDB & Optimise
If one of these jobs is running on an Instance, the window will be checked before commencing with a new database. If no longer within the window, the job will be paused until next day.

7.2 Reschedule Job
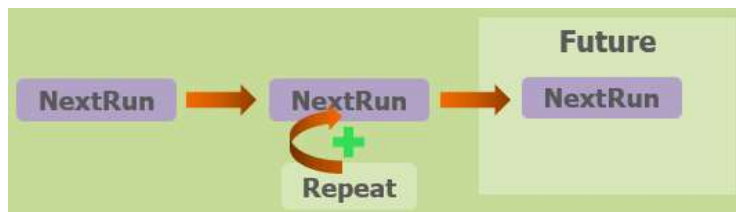
When a job has finished it needs to be rescheduled. QGrip will add the repeat every parameter to the "last" NextRun parameter until it is in the future.

1. If the calculated NextRun is within the window, it will be used. As long as you are not playing around with the NextRun after date, this will be the case.

2. If the calculated NextRun is before the window, it will be moved to the beginning of the window.
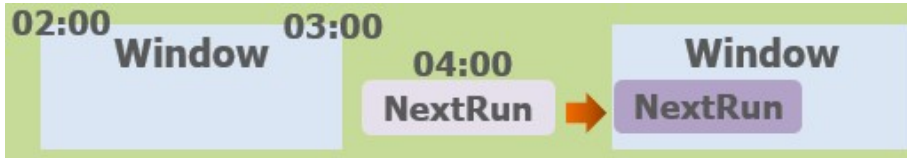
3. If the calculated NextRun is after the window, it will be moved to the beginning of the subsequent window. In this situation, one window will be skipped.