CMDB & Discover

GRIP ON SQL

2024-04-16

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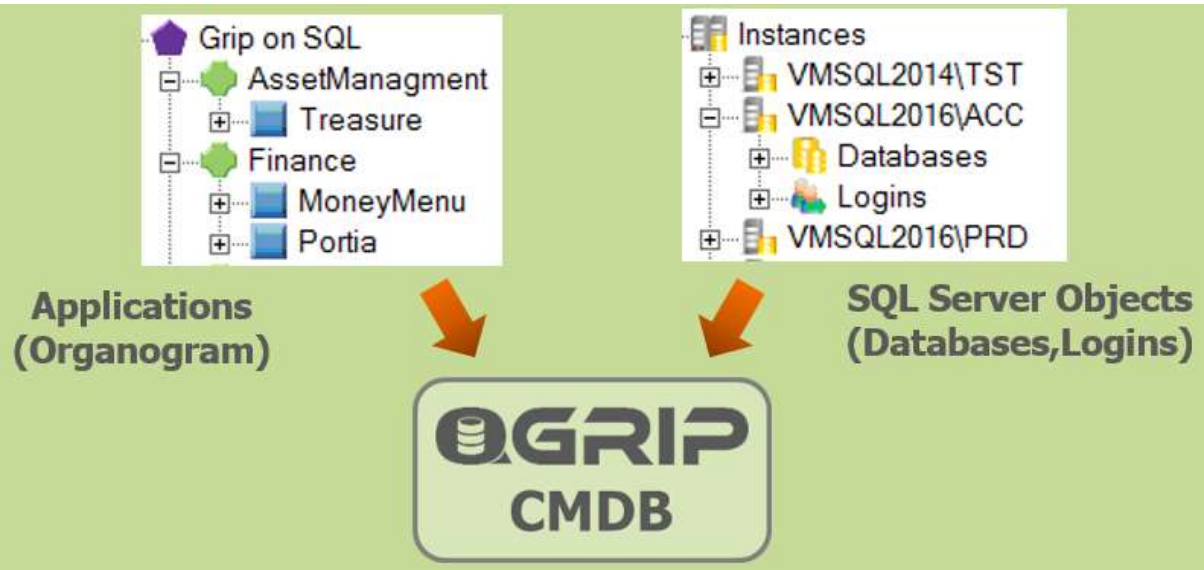
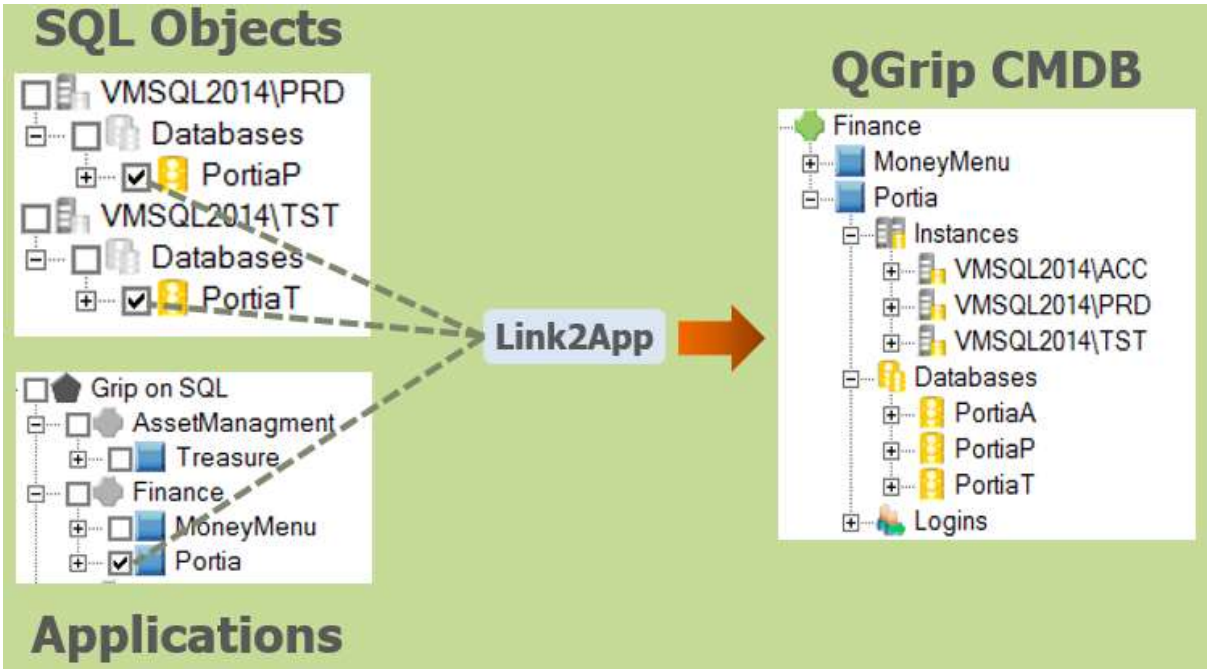
1 Introduction

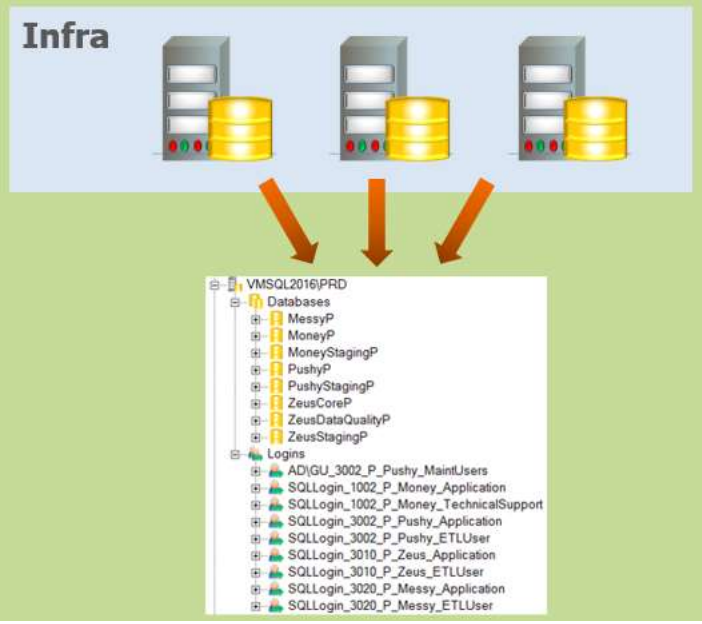


The QGrip CMDB is the very heart of QGrip. It contains the Applications within an Organisation together with their owning Units/Departments and the SQL Server objects.

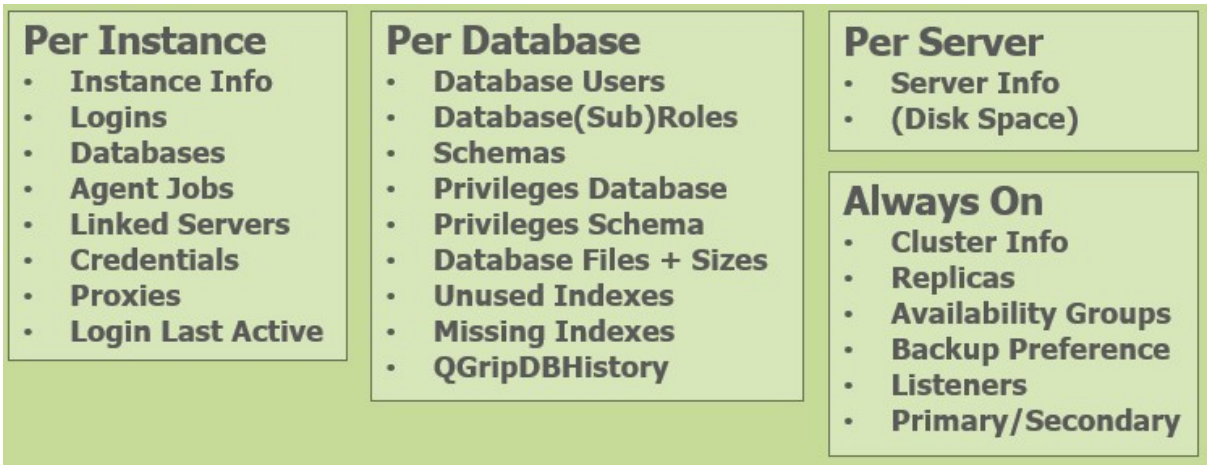


The SQL Server objects will initially need to be linked to one Application, that is considered to be the owner of the object.
This does not only result in great overview of the applications and their SQL Server objects but the information is also used for Authorisation, Request Jobs and Export of CMDB.

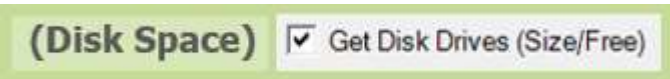
2 Discover job



The Discover job fills and keeps the QGrip CMDB up-to-date. It should be scheduled to run on each Instance regularly, 1-2 times/day. QGrip will trigger extra run of the Discover job in certain situations, like after App Objects (Databases, Logins) have been created or dropped. The Discover job can also be requested by a QGrip-User whenever there is a suspicion that the QGrip CMDB is not up-to-date.



The Discover job does not only collect information of the Instance but also Information about each database, the Server (machine) the Instance is running on. If the Instance is part of an Always On cluster, information about the Cluster, Replicas etc. is gathered as well.



QGrip does only operate on SQL Server level and does not, by default, require access to the underlaying OS and file system. It is, however, possible to activate the “Get Disk Drives (Size/Free)” option in the Discover job. QGrip will then temporarily enable system configuration option 'Ole Automation Procedures', get the size/free space of the disk drives, and disable the option again.

2.1 QGrip-LoginLastActive

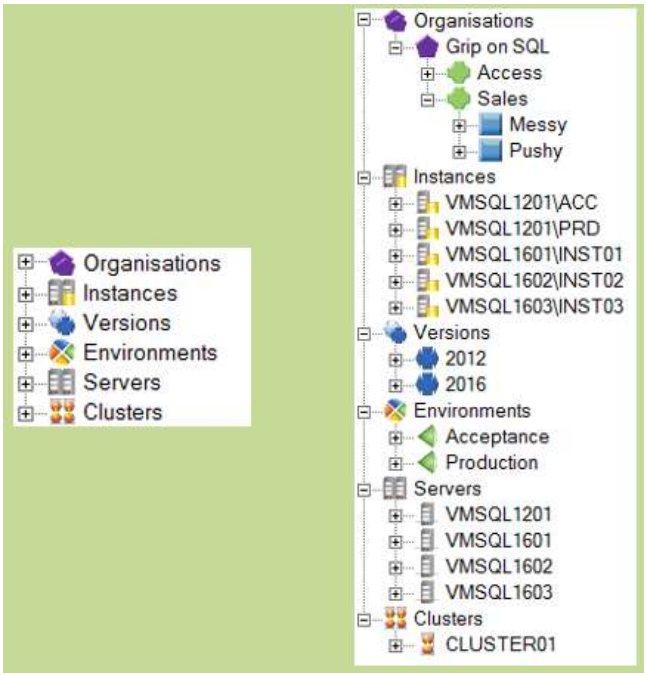
- **Agent Job on each Instance**
- **Created by Discover job**
  - **Runs every 301 Seconds**
  - **Snapshot of logins/processes**
  - **Approximated (Not 100%)**
  - **Result in tempdb**
  - **Transferred to QGrip**

The Discover job will create a SQL Server Agent job on each Instance; QGrip-LoginLastActive.
This job will run every 301 seconds, to make sure that it runs on different times throughout the day but does not put to much strain the Instance. The job makes a snapshot of all processes on the Instance and puts the result in a table in tempdb for the Discover job to pick up and transfer to the QGrip CMDB where it can be found in a tab called LoginLastActive. It will give you a good idea of who is using the Databases and also provide information on connecting clients.

3 QGrip CMDB

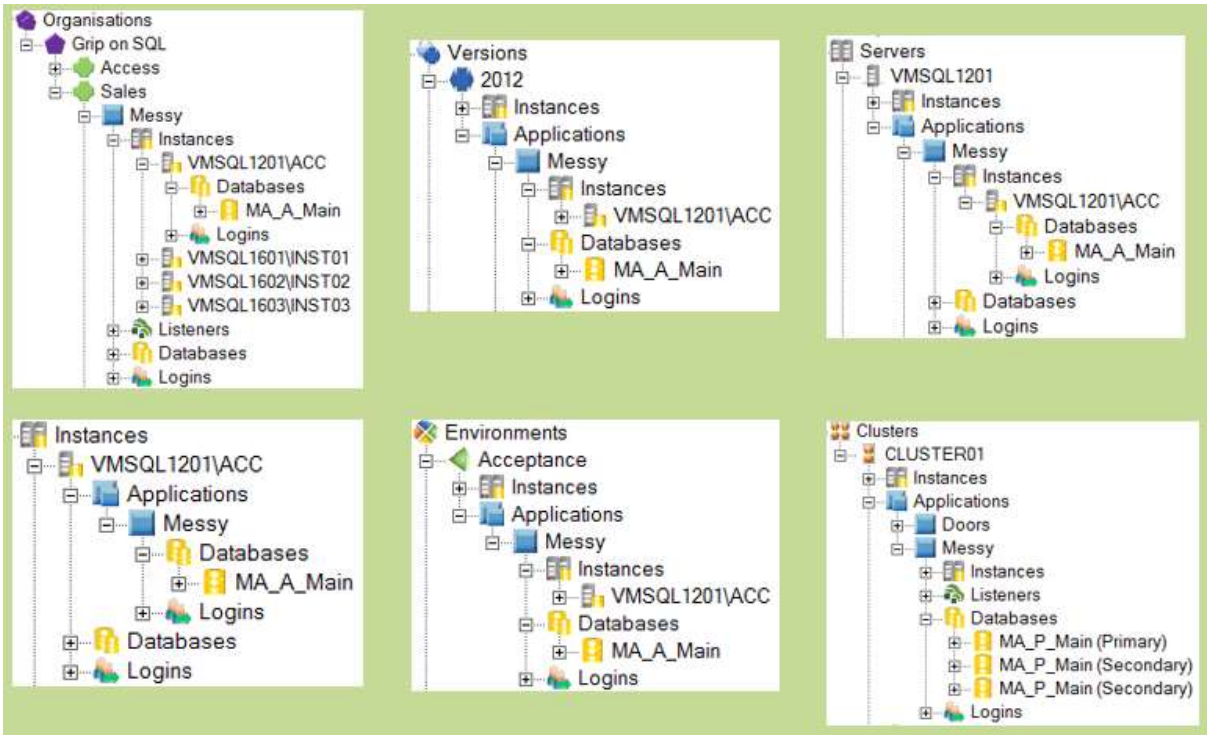
The QGrip CMDB can easily be browsed in the QGrip-UI where overview and details are just a mouse click away.

3.1 Navigate



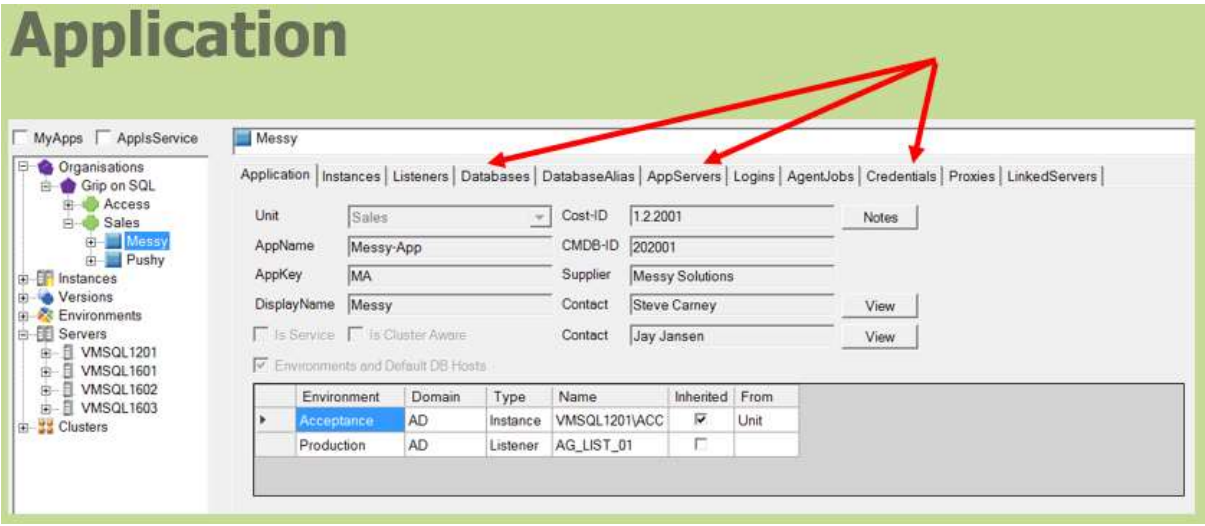
The six starting points to allow you to approach the information from different angles depending on the information you are looking for.

3.2 Drilldown

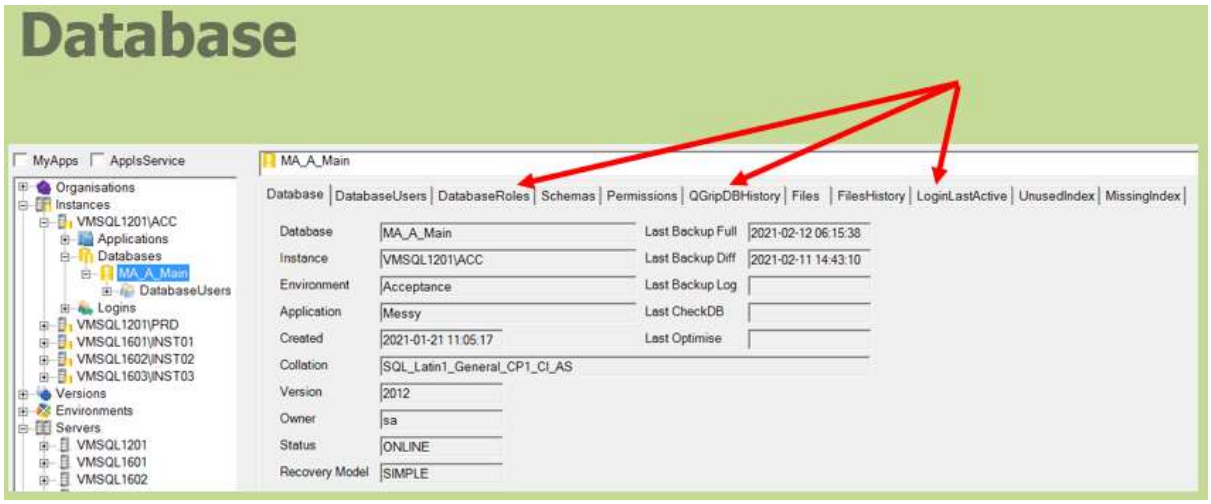


The data is filtered 'on the way down'. At the lowest level, the information is the same but the objects shown will differ.

3.3 Detail tabs

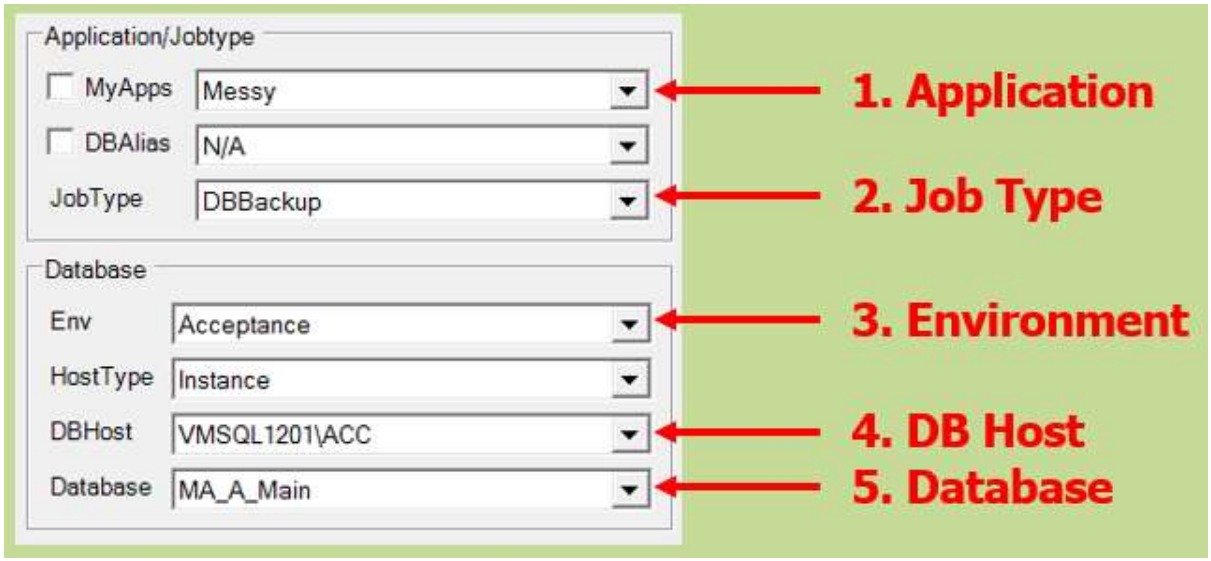


When an object is selected in the Navigator, its Detail tabs will be shown containing the relevant information for the selected object.



The detail tabs shown depend on the object type.

3.4 Request Job



The content of the CMDB is also used when jobs are requested. QGrip is application driven, the first choice is always the application. Environment and DB Host/Database is filled with available values and filtered after each choice. The QGrip-User will only see the applications and environments he/she is authorised for.