

# OG RIP

## Pilot Install

**GRIP ON SQL**

2024-04-09

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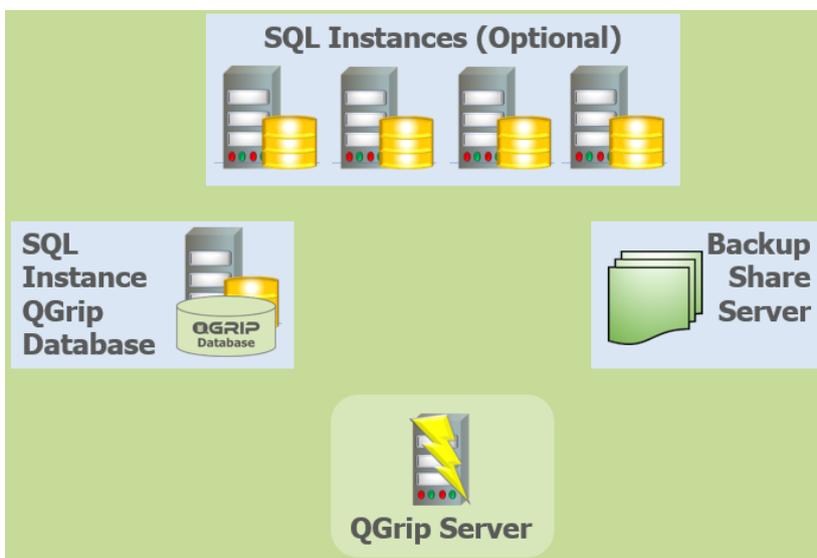
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## 1 Introduction

This manual should only be used when installing QGrip in a pilot (personal lab) environment. It's a bit 'Quick and Dirty', some corners will be cut but for some parts, we still refer to the actual manuals. The statements that need to be executed in, for instance PowerShell, contain names of accounts and servers that you need to change before the statement is executed.

All Pilot components need to be in the same AD-Domain.

## 2 Pilot Components



Pilot Components

### SQL Instance QGrip Database

The QGrip database can be placed on an already existing SQL Server Instance, Standard or Enterprise edition, version 2012 or higher. QGrip will regard this Instance as a production instance.

### Backup Share Server

An existing server can be used as long as there is enough disk space for the backup files and that 3 shares can be created for QGrip.

### QGrip Server

Windows Server 2012R2 or higher and 2-4 GB memory.

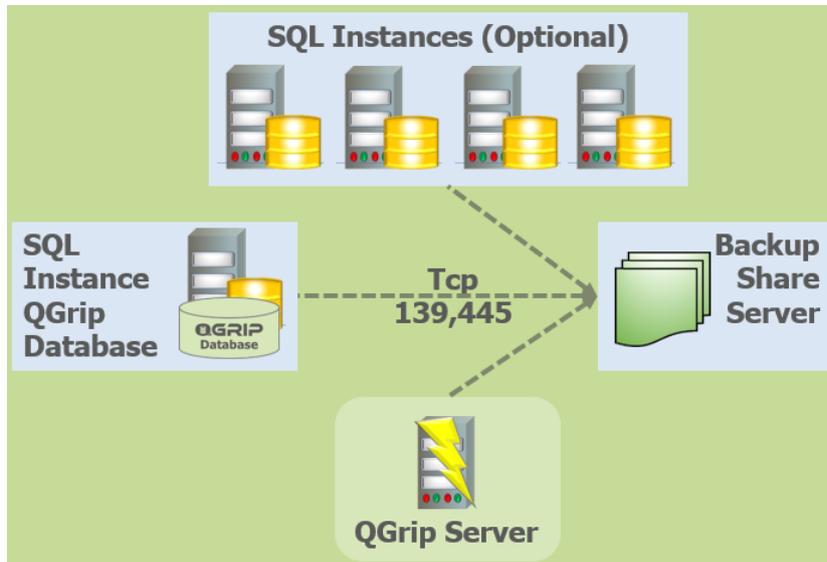
### SQL Instance (Optional)

1 – 4 additional SQL Instances can be added to the Pilot environment, version 2008 or higher.

### DB Engine Accounts

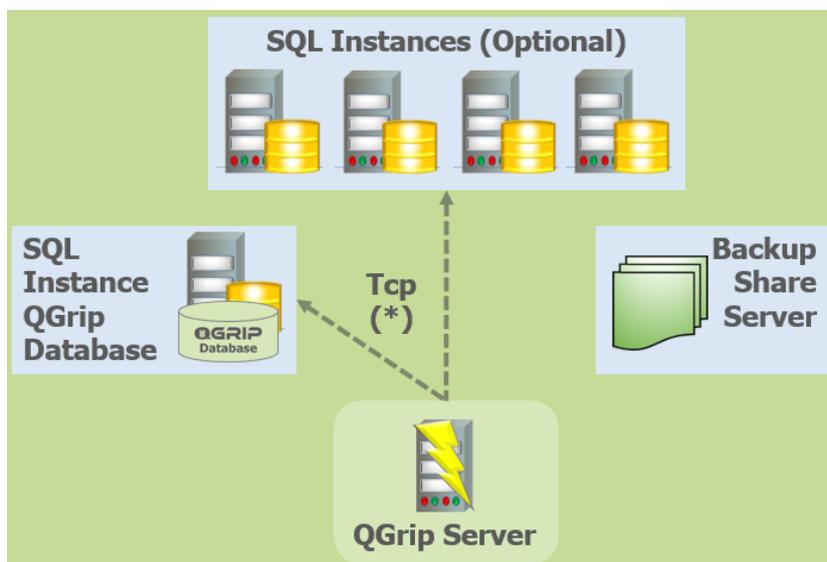
SQL Server Instances can only be added to QGrip (including the QGrip Database host) when the DBEngine service is running as an AD-Domain account. (group) Managed Service Accounts will also work perfectly.

## 3 Firewalls



The backup share server needs to be accessible from all SQL Server instances and the QGrip Server on port 139 and 445. Use the following statements from the source servers to check.

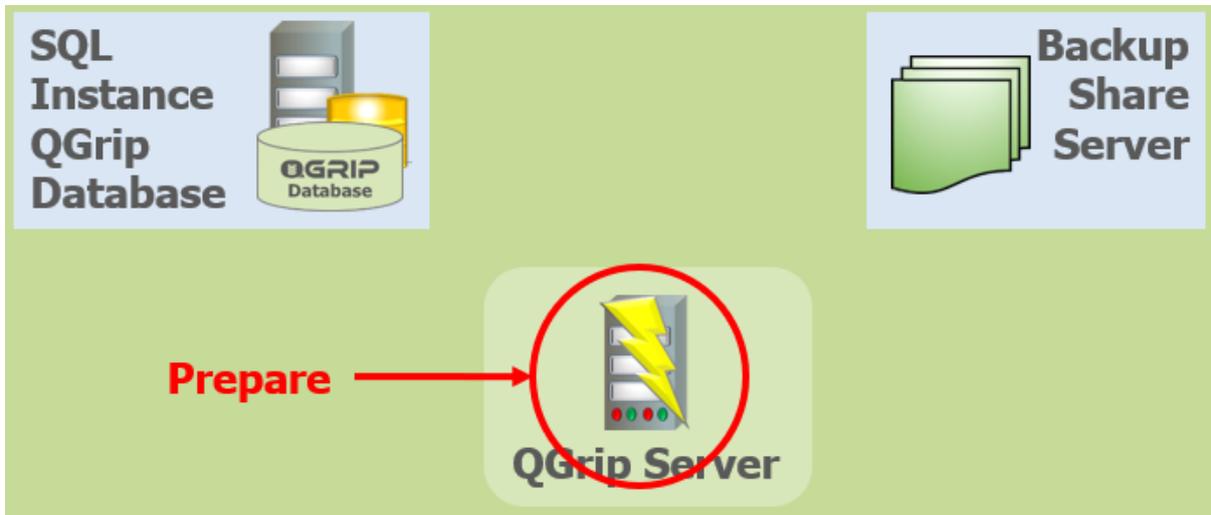
Check PowerShell version on QGripServerX	PowerShell
Test-NetConnection -Computer BackupShareServer -Port 139	
Test-NetConnection -Computer BackupShareServer -Port 445	



All SQL Server instances need to be accessible from QGrip Server on the port used by the Instance (\*). Use the following statements from the QGrip Server to check.

Check PowerShell version on QGripServerX	PowerShell
Test-NetConnection -Computer SQLInstanceHost -Port (*)	

## 4 Prepare: QGrip Server



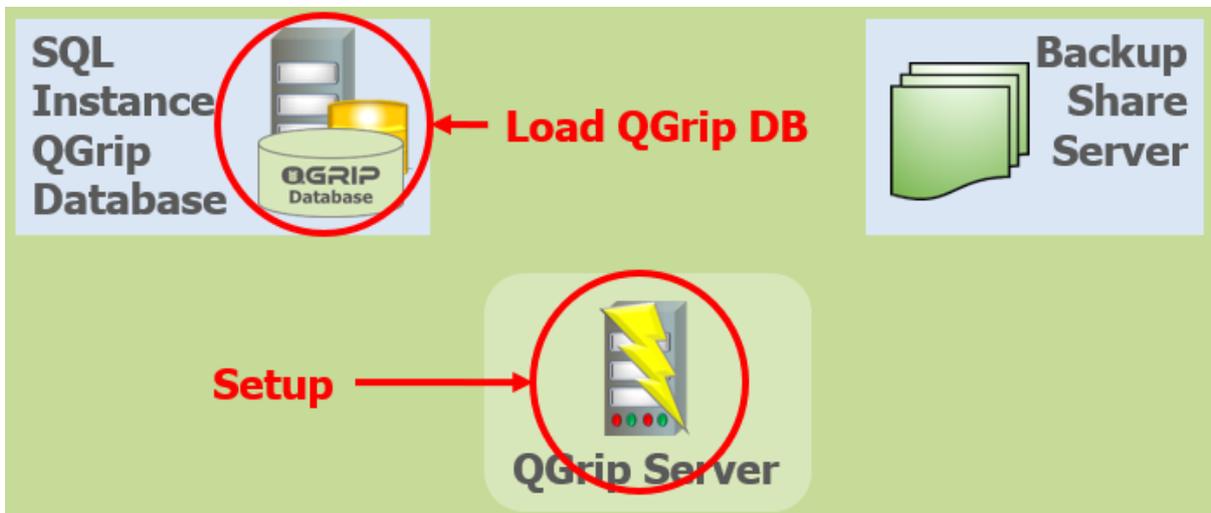
Before the QGrip Server can be used, a group Managed Service Account (gMSA\_QGrip\$) needs to be created and some supporting software needs to be installed. In the document

- Install: Prepare Infra

do all steps in the following 2 sections

- New: AD-Domain
- New: QGrip Server

## 5 Install QGrip



QGrip can now be installed. A detailed description can be found in the document

- Install: Install QGrip-Setup

do all the steps in the following section

- Setup: QGrip Database Initial

but skip section 'Initial Configuration'. A shorter version in a slightly different order will be done in the next section.

## 6 Initial Configuration - Pilot

### QGrip-UI

Initial Configuration of QGrip needs to be performed in the QGrip-UI. It is recommended that the QGrip-UI documents are reviewed prior to commencing configuration. You can start the QGrip.exe in the QGrip directory on one of the QGrip Servers. If it is not there you need to start the setup.exe to download it from the database. If it is the first time you use the QGrip-UI you will need to complete your personal details.

### QGrip-Admin

In QGrip, the account that performs the Initial Configuration, needs to be QGrip-Admin. The user who performs the Setup is automatically added to the QGrip-Admin group. This user should also perform the Initial Configuration.

If, for some reason, the initial configuration has to be done with a different account, that account needs to be QGrip-Admin. Use the following document:

Doc-Tab	Title	Section
Install	Install QGrip - Setup	Setup: QGrip-Admin

### Accessibility

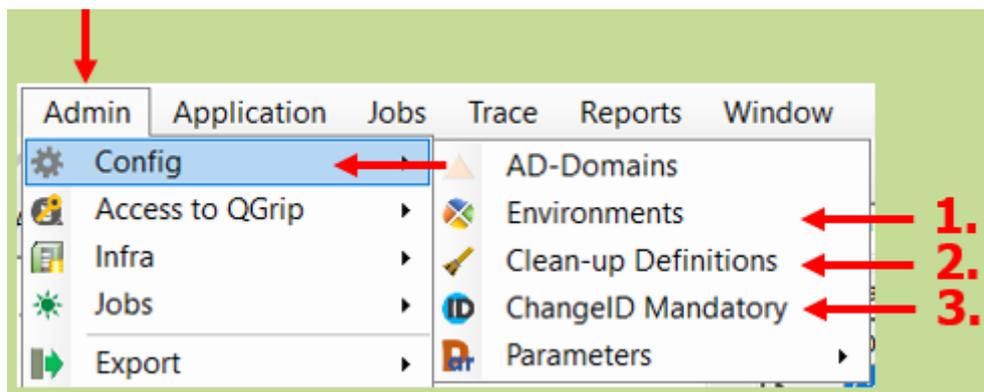
At the bottom of the Main window, the message bar will indicate if there are Errors, Warnings and Personal messages.



After adding Instances and Backup Shares the Accessibility check will run. After each check you will receive a Personal message. For more information about the Accessibility check, see

Doc-Tab	Title	Section
QGrip-UI	Admin Menu-Infra	Accessibility

### 6.1 Basics

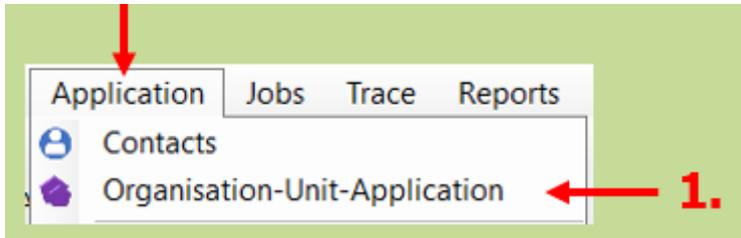


1. Add Environment (DTAP)
2. Check/Adjust Clean-up Definitions
3. Check/Adjust ChangelD Mandatory (De-select all)

### Recommended documentation

Doc-Tab	Title	Section
QGrip-UI	Admin Menu-Config	

## 6.2 Rename Default Organisation/Unit/Applications



### 1. Rename Default Organisation/Unit/Applications

During the Installation of QGrip 1 Organisation, 1 Unit and 7 Applications have been added. You should at least change the name of the Organisation and the Unit. The Unit is the initial owner of the 7 applications.

#### Organisation

Organisation	DisplayName	Cost-ID
<YourOrganisation>	<YourOrganisation>	00000

#### Unit

UnitName	DisplayName	Cost-ID
<IT-IsService>	<IT-IsService>	00000

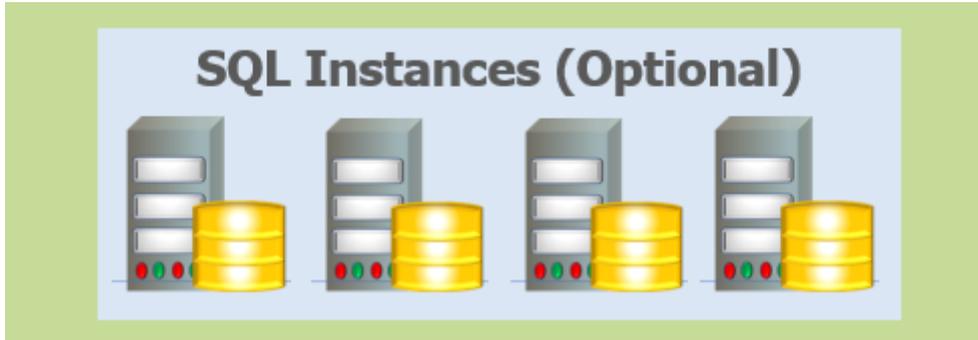
#### Applications

AppName	AppKey	DisplayName	Cost-ID	CMDB-ID
QGrip	0000	0000-QGrip	0000	0000
masterDB	0001	0001-masterDB	0001	0001
modelDB	0002	0002-modelDB	0002	0002
msdbDB	0003	0003-msdbDB	0003	0003
tempdb	0004	0004-tempdb	0004	0004
NT-SERVICE	0005	0005-NT-SERVICE	0005	0005
SQL-Stuff	0006	0006-SQL-Stuff	0006	0006

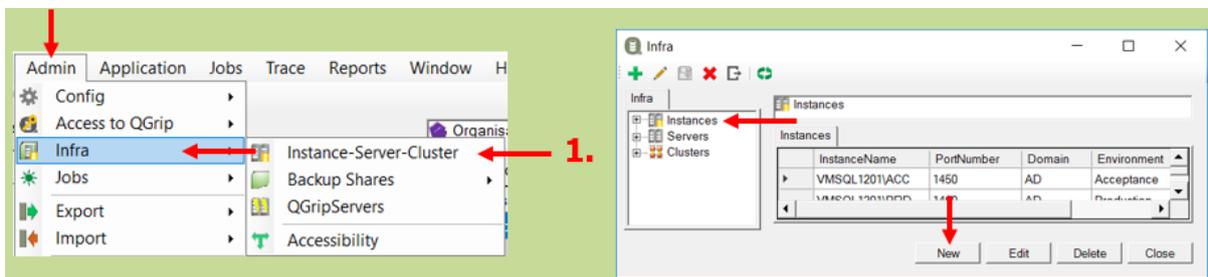
#### Recommended documentation

Doc-Tab	Title	Section
QGrip-UI	Application Menu	Organisation-Unit-Application

## 6.3 Add SQL Instances



Add the (optional) 1-4 SQL Server Instances to QGrip.



Environment	Test
Domain	AD
InstanceName	VMNT0123\TST01
PortNumber	1433

Remember that the Instance Name should be the same as @@SERVERNAME on the Instance.

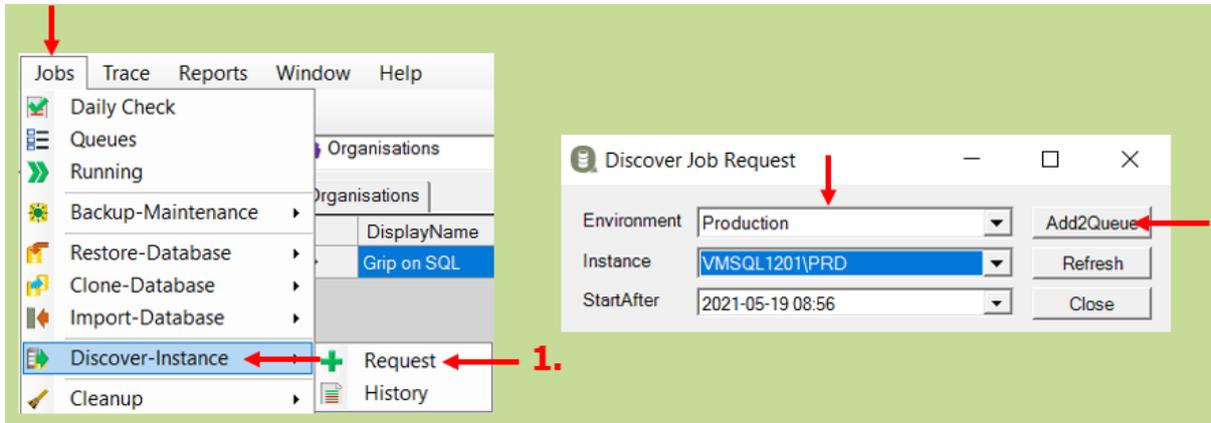
```
IF ( SUSER_ID('AD\QGrip_gMSAs') IS NULL )
BEGIN
  CREATE LOGIN [AD\QGrip_gMSAs] FROM WINDOWS WITH DEFAULT_DATABASE = [tempdb]
END
ALTER SERVER ROLE [sysadmin] ADD MEMBER [AD\QGrip_gMSAs]
```

When you save the Instance, you will receive a popup concerning creating the QGrip System Account. If not done in advance, copy the statement and execute it on the Instance before continuing.

### Recommended documentation

Doc-Tab	Title	Section
QGrip-UI	Admin Menu-Infra	Instance-Server-Cluster
Infra	Add Instance to QGrip	

## 6.4 Run Discover



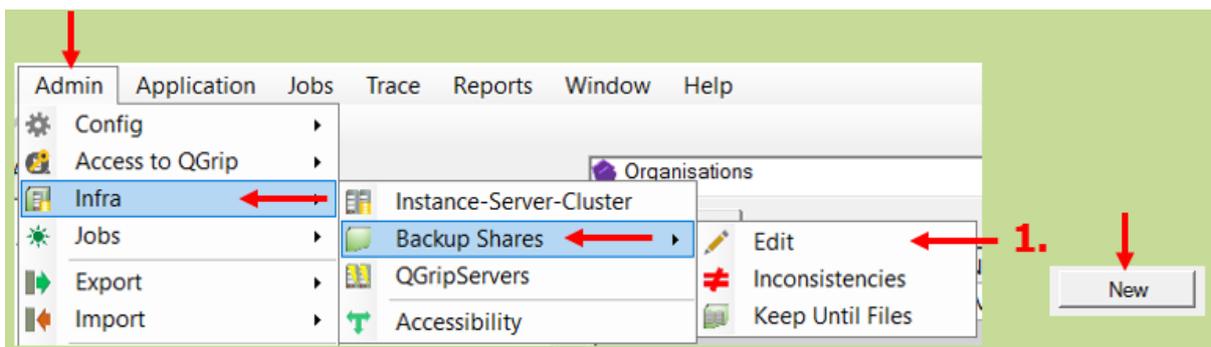
Run the Discover job for each Instance in QGrip, including the QGrip Database Host. You will receive a personal message for each discovered Instance.

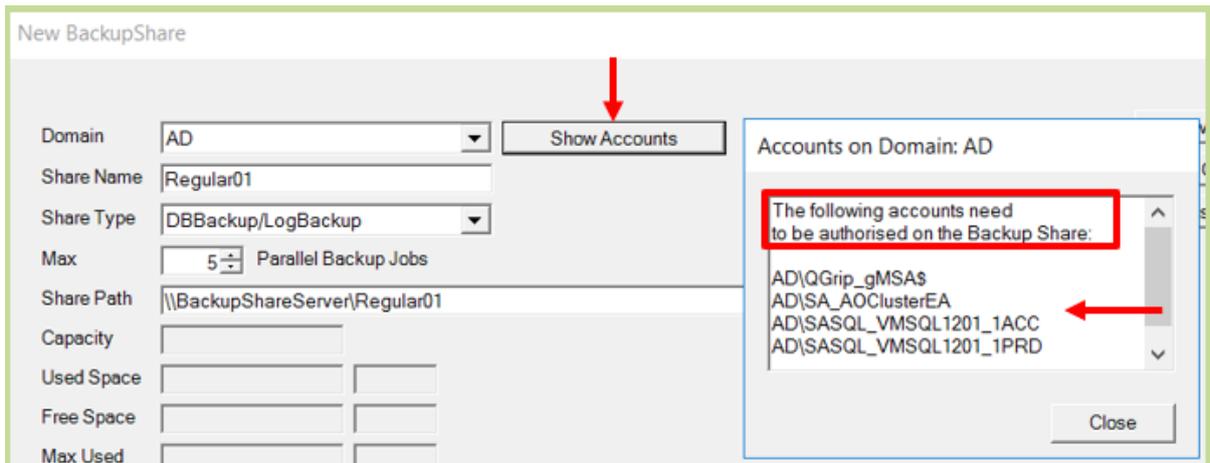
### Recommended documentation

Doc-Tab	Title	Section
QGrip-UI	Jobs Menu	Discover

## 6.5 Add Backup Shares

Before a Backup Share can be added to QGrip, it must have been created on the Backup Share Server. But in order to create the share, you will need to know which accounts you need to authorise for the share. The DBEngine accounts are collected during the Discover job and are now available in QGrip and can be found in the edit Backup Shares window.





Create the following Shares on the Backup Share Server and authorise the accounts found in the list above.

Directory	Share Path
Regular01	\\BackupShareServer\Regular01
CopyOnly01	\\BackupShareServer\CopyOnly01
Import01	\\BackupShareServer\Import01

For a detailed description, see Appendix, BackupShare: Authorise and Share

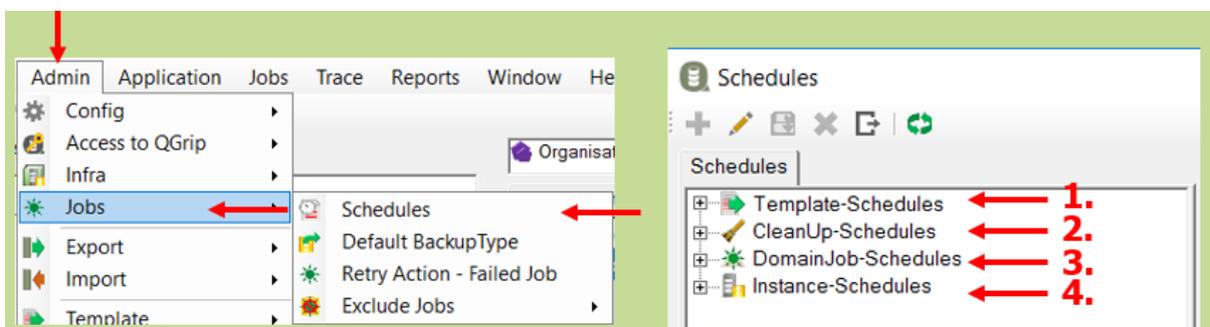
When the Shares have been created on the Backup Share Server, they can be added to QGrip in the window here above.

Share Name	Share Type	Share Name
Regular01	DBBackup/LogBackup	\\BackupShareServer\Regular01
CopyOnly01	CopyOnly/Archive/BaseLine	\\BackupShareServer\CopyOnly01
Import01	Import	\\BackupShareServer\Import01

### Recommended documentation

Doc-Tab	Title	Section
QGrip-UI	Admin Menu-Infra	Backup Shares
Infra	Add BackupShare to QGrip	

## 6.6 Add Schedules

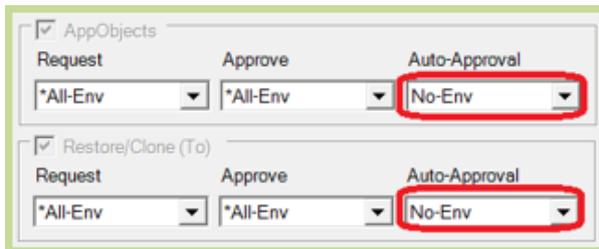
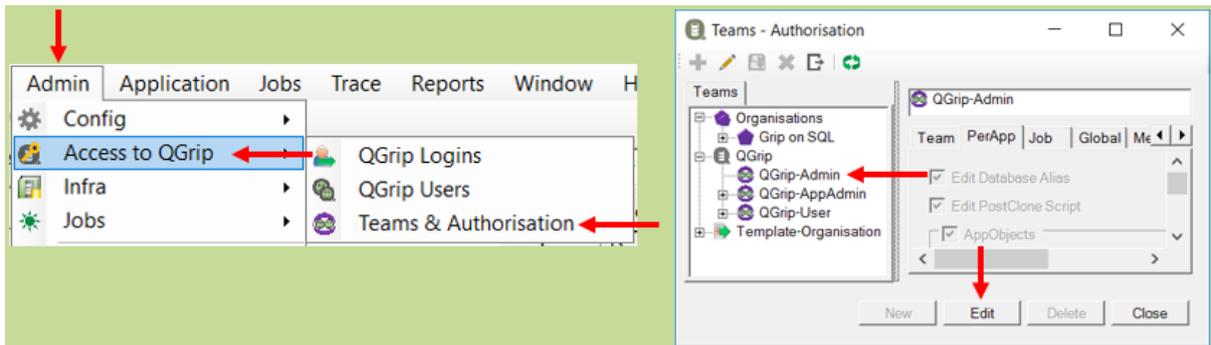


1. Template-Schedules, modify and activate.
2. Cleanup-Schedules, modify and activate.
3. DomainJob-Schedules, modify and activate.
4. Instance-Schedules, activate schedules for (all?) Instances available.

### Recommended documentation

Doc-Tab	Title	Section
QGrip-UI	Admin Menu-Jobs	Schedules
Jobs	Schedules Backup & Maintenance Jobs Clean-up Jobs Domain Jobs	

## 6.7 QGrip-Admin, Auto-Approval

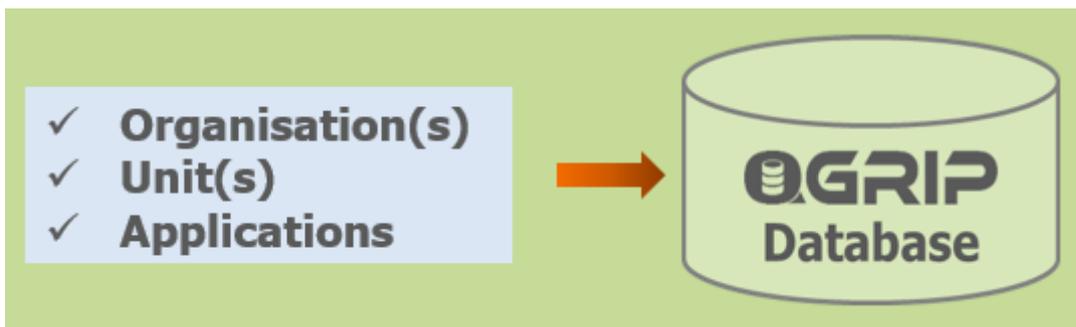


Initially, the Auto-Approval for AppObjects and Restore/Clone (To) is set to No-Env for the QGrip-Admin Team. You might want to change this but, we strongly advise you never to set this to a value including the Production environment.

### Recommended documentation

Doc-Tab	Title	Section
QGrip-UI	Admin Menu-Access to QGrip	Teams & Authorisation
Security	Teams & Authorisation	

## 6.8 Add Organisation/Unit/Applications (Optional)



The Organisations, Units and Applications can be added either one-by-one or using the Import module.

### Recommended documentation

Doc-Tab	Title	Section
QGrip-UI	Application Menu	Organisation-Unit-Application
QGrip-UI	Admin Menu	Import

## 7 Explore QGrip

Congratulations! You should now have a working QGrip environment. Maybe a few Warnings that you need to get rid of.

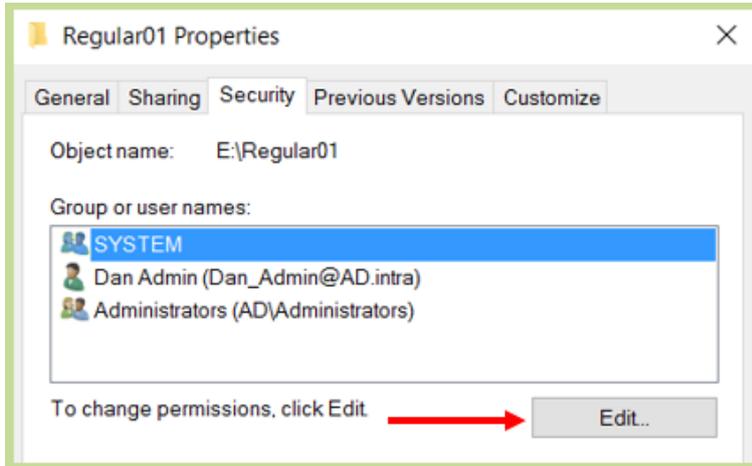
The better you know QGrip, the more you will get out of it. Check out the documentation page on our website, see how it's organised so you will be able to find what you might be looking for.

You should at least browse thru the documents in the QGripUI and Basics tab.

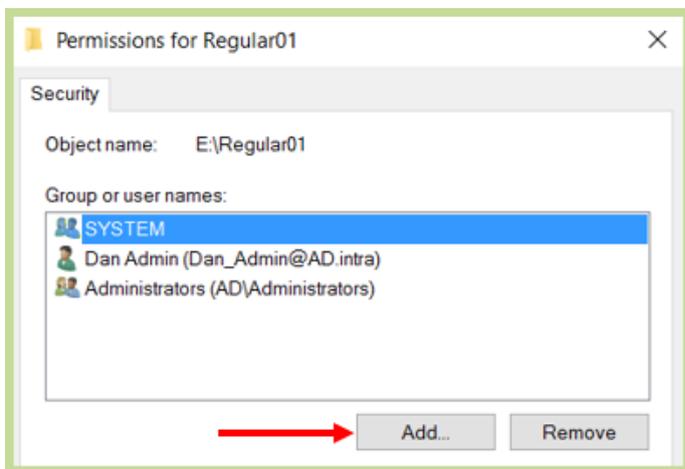
## 8 Appendix

### 8.1 BackupShare: Authorise and Share

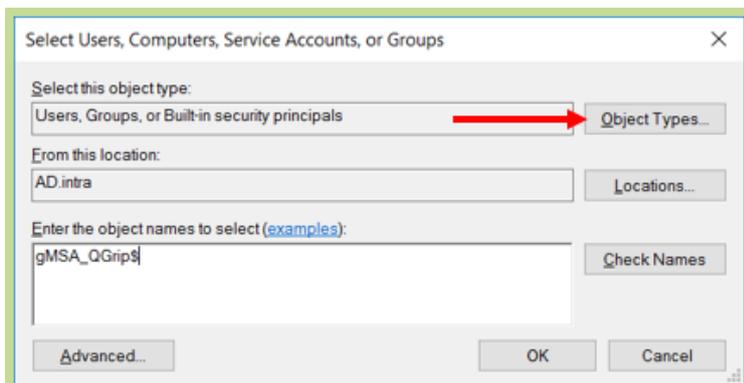
#### 8.1.1 Authorise



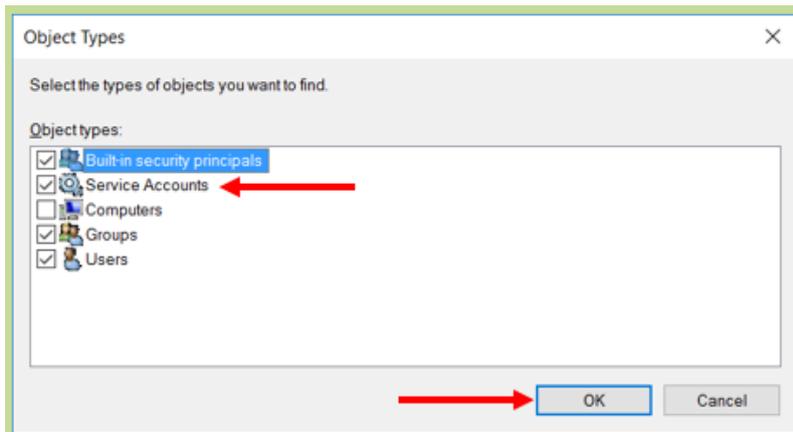
To authorise account on the underlying directory, right click on the directory and open the properties. In the Security tab, click Edit.



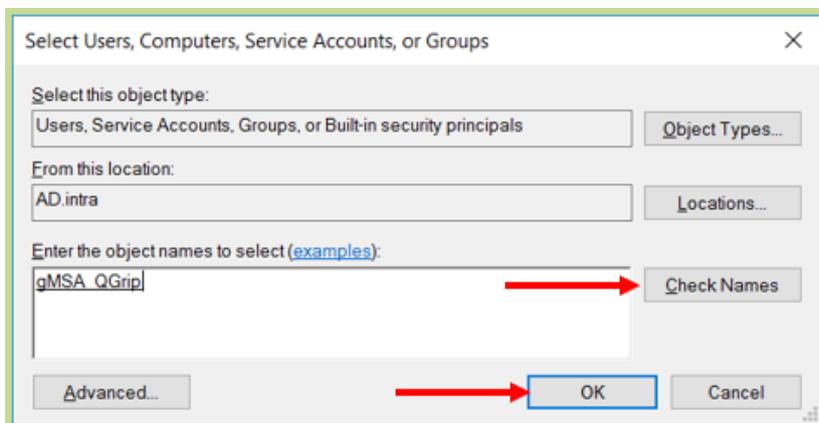
In the Permissions window, click Add.



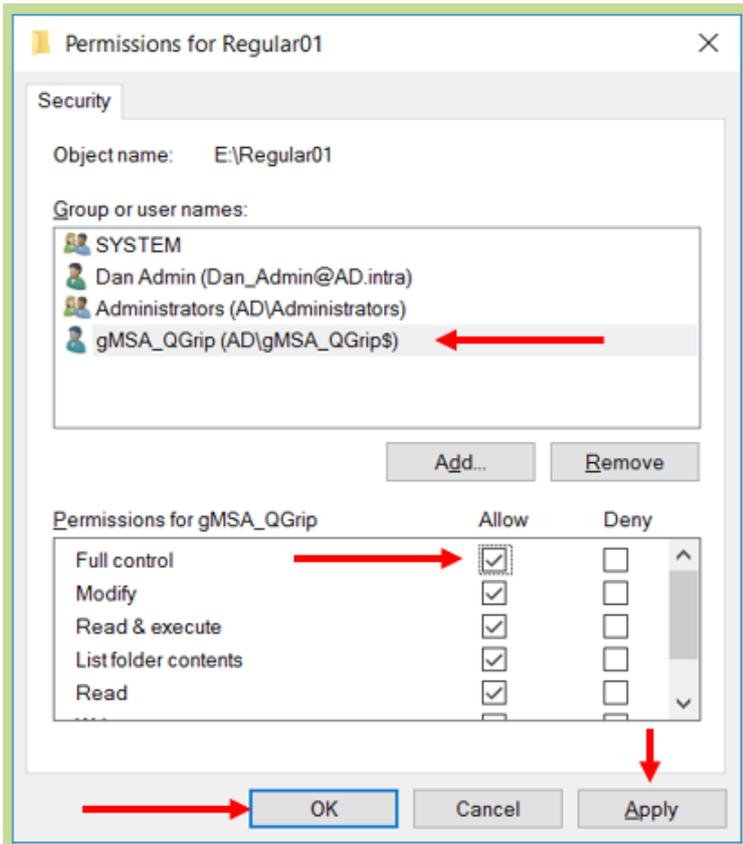
If the account you want to authorise is a (group) Managed Service Account, click on Object Types.



Check the Service Accounts checkbox and click OK.

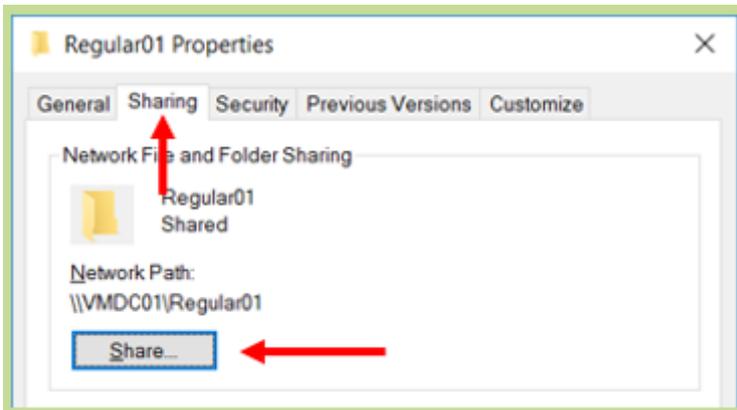


When clicking on Check Names, the account should now be found and you can click OK.

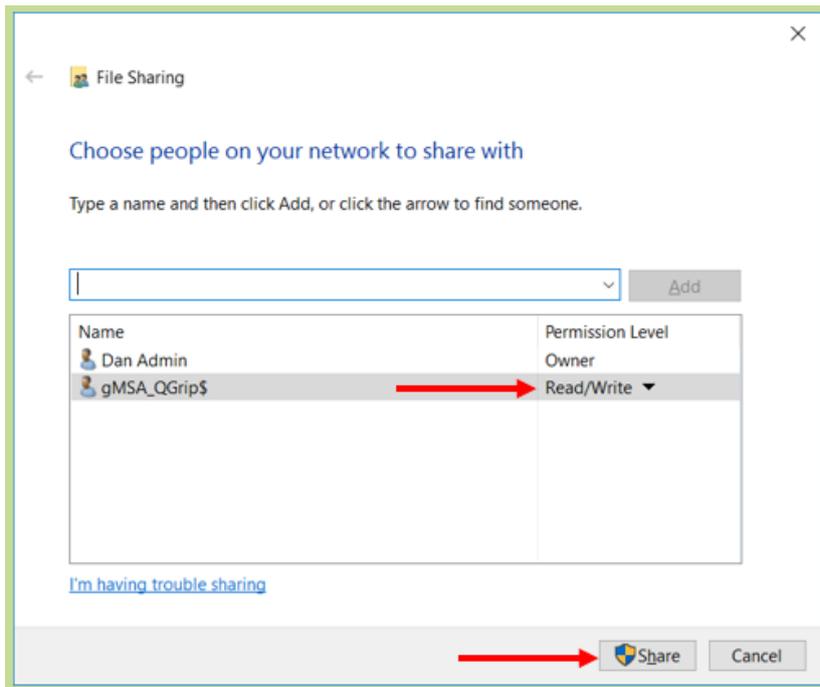


Select the account just added and check allow Full Control followed by Apply and OK.

### 8.1.2 Share



Click on the directory and open the properties. In the Sharing tab, click Share.



Verify that the user has Read/Write permission and press Share.