

Pilot Install



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1 Introduction

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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 | QGripServer | PowerShell | | | |
|-----------------------------|-------------|------------|----------|-------|-----|
| Test-NetConnection · | -Computer | BackupSha | reServer | -Port | 139 |
| Test-NetConnection · | -Computer | BackupSha | reServer | -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.





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.

| Personal : 6 | Error: 1 | Warning : 12 |
|--------------|----------|--------------|

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

| | Ļ | | | | | | | |
|----------|-------|--------------|------|----------|------|-------------|----------|-----|
| Ac | lmin | Application | Jobs | Т | race | Reports | Window | |
| * | Con | fig 🖣 | < | - | AD- | Domains | | |
| G | Acce | ess to QGrip | • | 8 | Envi | ronments | - | - 1 |
| 8 | Infra | fra | • | 1 | Clea | an-up Defin | itions 🔶 | _ 2 |
| * | Jobs | | • | D | Cha | ngelD Man | datory 🔶 | - 3 |
| • | Expo | ort | • | R | Para | meters | • | |

1. Add Environment (DTAP)

- 2. Check/Adjust Clean-up Definitions
- 3. Check/Adjust ChangeID Mandatory (De-select all)

| 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> | <yourorganisation></yourorganisation> | 00000 | |

Unit

| UnitName | DisplayName | Cost-ID |
|-------------------------------|-------------------------------|---------|
| <it-isservice></it-isservice> | <it-isservice></it-isservice> | 00000 |

Applications

| AppName | АррКеу | 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 |

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

6.3 Add SQL Instances

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

| | | | | | | | 📵 Infra | | | | - | | \times |
|------|----------------------|------|-----------------|-----------|--------|----------|-----------------|-----|----------------|------------|--------|------------|----------|
| Ac | Imin Application Job | os T | race Reports | Window | н | | + / 🛛 🗙 🕞 | 0 | | | | | |
| * | Config | • | | | | | Infra | TR. | nstances | | | | _ |
| e Ci | Access to QGrip | • | | Cro | ganis: | | Instances | Ins | tances | | | | |
| | Infra 🛛 🔶 | - 66 | Instance-Server | r-Cluster | - | <u> </u> | e - 33 Clusters | | InstanceName | PortNumber | Domain | Environmer | 1 1 |
| * | Jobs | - | Backup Shares | | - • • | | | Þ | VMSQL1201\ACC | 1450 | AD | Acceptance | |
| • | Export | | QGripServers | | | | | • | VMCOL 12011000 | 1400 | AD | Draduation | • |
| I. | Import | T | Accessibility | | | | | | | New 1 | aa Da | alata Ci | |
| | | | | | | | | | - | | | | 000 |

| Environment | Test | • |
|--------------|----------------|---|
| Domain | AD | • |
| InstanceName | VMNT0123\TST01 | |
| PortNumber | 1433 | |

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



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.

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

6.4 Run Discover

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| Jol | os Trace Reports | Window Help | | | | | | |
|----------|-----------------------------------|-----------------|--------------|-------------|------------------|---|-----------|--|
| 1 | Daily Check | | | | | | | |
| ≣ | Queues Running |) Organisations | | Discover . | Job Request | - | | |
| 8 | Backup-Maintenance |)rganisations | - | Environment | Production | • | Add2Queue | |
| ſ | Restore-Database | Grip on SQL | | Instance | VMSQL1201\PRD | • | Refresh | |
| ₽ | Clone-Database Import-Database | + + | | StartAfter | 2021-05-19 08:56 | • | Close | |
| | Discover-Instance 🗲 | Request 🗲 | — 1 . | | | | | |
| 1 | Cleanup | History | | | | | | |

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.

| | Ļ | | | |
|---|------------------|------|-----------------------------------|----------|
| A | imin Application | Jobs | Trace Reports Window Help | |
| * | Config | • | | |
| 0 | Access to QGrip | • | Crganisations | |
| 1 | Infra 🛛 🗲 | | Instance-Server-Cluster | |
| * | Jobs | • | 💭 Backup Shares 🔶 🔸 💉 Edit | 🔶 1. 🔶 👘 |
| • | Export | • | QGripServers | s New |
| | Import | • | T Accessibility 🗊 Keep Until File | is |



| New BackupSh | are | |
|--------------------------|-------------------------------------------------------------------------|------------------------------------------------------------------------------|
| Domsin | | · · · · · · · · · · · · · · · · · · · |
| Share Name | Regular01 | Accounts on Domain: AD |
| Share Type | DBBackup/LogBackup | The following accounts need A state of the beauthorised on the Backup Share: |
| Max Share Path | 5 Parallel Backup Jobs I\\BackupShareServer\Regular01 | AD\QGrip_gMSA\$ AD\SA_AOClusterEA |
| Capacity | | AD\SASQL_VMSQL1201_1ACC AD\SASQL_VMSQL1201_1PRD |
| Used Space Free Space | | Close |
| Max Used | | |

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

| Ad | Imin Application | Jobs | Trace Reports Window He | Schedules |
|----|------------------|----------|-----------------------------|--------------------------|
| * | Config | • | | + / 🗟 X 🖸 🗢 |
| G | Access to QGrip | • | 🔷 Organisat | Ostastilas |
| 1 | Infra | • | | Schedules |
| * | Jobs 🔶 | <u> </u> | Schedules | Template-Schedules |
| | Export | • | 💣 Default BackupType | E CleanUp-Schedules - 2. |
| | Import | • | 🔆 Retry Action - Failed Job | DomainJob-Schedules |
| | Template | • | 🔹 Exclude Jobs 🔹 | |

- 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

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| 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

| ↓ | | Teams - Authorisation | - 🗆 X |
|------------------------|--------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Admin Application Jobs | Trace Reports Window H QGrip Logins QGrip Users Teams & Authorisation | Teams Organisations Grip on SQL Grip-Admin Grip-AppAdmin Grip-User Template-Organisation | QGrip-Admin Team PerApp ✓ Edit Database Alias ✓ Edit PostClone Script ✓ AppObjects ✓ Edit Delete Close |



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.

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

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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

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8.1 BackupShare: Authorise and Share

8.1.1 Authorise



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

| Permissions for Regular01 | × |
|----------------------------------------------------------------------------------------------------------------|---|
| Security | |
| Object name: E:\Regular01 | |
| Group or user names: | _ |
| SYSTEM Dan Admin (Dan_Admin@AD.intra) Administrators (AD\Administrators) | |
| Add Remove | |

In the Permissions window, click Add.

| Select Users, Computers, Service Accounts, or Groups | | × |
|----------------------------------------------------------------------------|----|--------------------|
| Select this object type: Users, Groups, or Built-in security principals | | Object Types |
| Erom this location: | | |
| AD.intra | | Locations |
| Enter the object names to select (<u>examples</u>): | | |
| gMSA_QGrip\$ | | <u>Check Names</u> |
| | | |
| Advanced | ОК | Cancel |

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



| Object Types | × |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| Select the types of objects you want to find. | |
| Object types: Built-in security principals Construction of the security principals Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Computers Co | |
| | |
| OK Cancel | |

Check the Service Accounts checkbox and click OK.

| Select Users, Computers, Service Accounts, or Groups | × |
|------------------------------------------------------------------|--------------------|
| Select this object type: | |
| Users, Service Accounts, Groups, or Built-in security principals | Object Types |
| Erom this location: | |
| AD.intra | Locations |
| Enter the object names to select (<u>examples</u>): | |
| gMSA QGrip | <u>Check Names</u> |
| | |
| | |
| Advanced OK | Cancel |

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



| Permissions for Regular01 | | × |
|------------------------------------|--------------|----------------|
| Security | | |
| Object name: E:\Regular01 | | |
| Group or user names: | | |
| SYSTEM | | |
| 🚨 Dan Admin (Dan_Admin@AD.intr | a) | |
| Administrators (AD) Administrators | 3) | |
| gMSA_QGrip (AD\gMSA_QGrip\$) | | _ |
| | | |
| | | |
| | A <u>d</u> d | <u>R</u> emove |
| Permissions for gMSA_QGrip | Allow | Deny |
| Full control | | ^ |
| Modify | | |
| Read & execute | \checkmark | |
| List folder contents | \checkmark | |
| Read | \checkmark | |
| L | | |
| | | + |
| | Cancel | Apply |

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

8.1.2 Share

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| 📜 Regu | lar01 Pro | perties | | | × |
|-----------------------|------------------------------|---------------------------|-------------------|-----------|---|
| General | Sharing | Security | Previous Versions | Customize | |
| Netwo | ork File and Regu Shar | d Folder S Jar01 ed | haring | | |
| <u>N</u> etw \\VM(| ork Path: DC01\Reg | ular01 | | | |
| S | §hare |] 🔶 | | | |

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



| a File Sharing | |
|------------------------------------------|------------------------------|
| Choose people on your netwo | ork to share with |
| Type a name and then click Add, or click | k the arrow to find someone. |
| Type a name and then click Add, or click | k the arrow to find someone. |
| | |
| | ∼ |
| Name | Permission Level |
| S Dan Admin | Owner |
| gMSA_QGrip\$ | Read/Write |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| I'm having trouble sharing | |

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