

QGrip Backup Encryption

GRIP ON SOL

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QGRIP BACKUP ENCRYPTION

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1 Introduction

Pre-request

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Doc-Tab	Title
Infra	Encryption (Keys and Certificates)

QGrip offers an easy way to Encrypt the Database and Log backups.



When the backups run with the backup option 'Encrypt', QGrip will automatically create a certificate [QGrip-Backup-INSTANCENAME-YYYYMMDD-hhmmss] on the SQL Server Instance if it does not already exist or if the existing Certificate is about to expire.

The certificate is ENCRYPTED_BY_MASTER_KEY.

If necessary, the MASTER KEY will be created as well.

MASTER KEY and Certificate will be Imported to the QGrip database to ensure availability.

QGrip will create separate certificates for each SQL Server Instance using Encryption.

When the backup is made, the QGrip internal CertificateID is saved together with the Backup record in the QGrip database.

When a database with QGrip encrypted backup files is restored or cloned, the Certificate will automatically and temporarily be created on the Destination Instance.

QGrip must be able to manage encryption objects like symmetric keys and certificates and the QGrip System Account must be added to the local Administrators group on all Backup Share servers as described in the document mentioned here above.

2 Enable QGrip Backup Encryption

Adr	dmin Application Job		Jobs	Tra	ce	Reports	Window	н
*	Cor	nfig	•		A)-Domains		
6	Acc	ess to QGrip	•	2	En	vironment	s	
	Infr	a	,	1	CI	ean-up Def	initions	
*	Job	s	•	D	Cł	nangelD Ma	andatory	
	Exp	ort	,	P.	Pa	rameters		•
	Imp	oort	•	P Encryption Config				

Before you enable 'QGrip Backup Encryption', make sure you have read the Document above and that all steps for enable 'Symmetric Keys and Certificates' have been executed correctly. QGrip will not be able to check that everything has been configured correctly and missed steps will result in run time errors.

2.1 Encryption Config

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Enable Symmetric Keys and Certificates							
Enable QGrip Backup Encryption (SQL 2014 and Higher)							
Algorithm AES_256 💌	Should be used to Encrypt Backups when Encryption is enabled.						
Certificate valid 12	Months when created to Encrypt Backups when Encryption is enabled.						

Open the Encryption Config in QGrip (Admin->Config->Encryption Config).

Enable QGrip Backup Encryption (SQL 2014 and Higher)

Check the 'Enable QGrip Backup Encryption' checkbox.

Warning										
0	Once	enabled	and	saved,	option	cannot	be	disabled	again.	
										ОК

Once the option has been enabled and saved, it cannot be disabled again.

Choose Algorithm and the number of months the 'Grip Backup Certificate' should be valid.

Backup O	ptions		
☐ Verify	Compress	Checksum	Encrypt

The Backup Option 'Encrypt' will now be visible for SQL Server instances of version 2014 or higher.