

DB SERVER APPLICATION NOTE SQL Alerting

10-Apr-13

Corporate

Headquarters +32 4 361 7000 North & Latin America Headquarters +1 947 575 7811 Asia & Pacific Headquarters +852 2914 2501 Other regional offices Available at www.evs.com/contact



TABLE OF CONTENTS

TABLE OF CONTENTS	2
INTRODUCTION	3
CONFIGURE SQL DATABASE MAIL	4
CONFIGURE SQL SERVER AGENT	10
CREATE OPERATORS	12
CREATE SQL ALERTS	12
CHECK CONFIGURATION	13

Author Sebastien MAINDIAUX

File name Application_Note_SQL_Alerting_6 0.docx

10-avr.-13

Page 2 of 15



INTRODUCTION

This document describes the setup of SQL Database Mail and the configuration of important alerts on typical EVS setups.

Author Sebastien MAINDIAUX

File name Application_Note_SQL_Alerting_6 0.docx

10-avr.-13

Page 3 of 15



CONFIGURE SQL DATABASE MAIL

This is the procedure to configure SQL to send e-mails to a SMTP server :

Before to start the configuration, you have to make sure that you have the following information:

- A valid e-mail address that can be associated to the database server. This address will be the "FROM" address of each mail sent by the alerting service
- The e-mail address (or addresses) the server will have to send the alerts to.

You will also have to make sure that any mail sent by the DB server to the SMTP server will be routed to internet.

- Open the SQL Server Management Studio 1.
- 2. Extend your server and the Management node
- 3



4. Click Next on the welcome screen

5. Choose Set Up Database Mail by ... and click Next

Author Sebastien MAINDIAUX 10-avr -13

File name Application_Note_SQL_Alerting_6 0.docx Page 4 of 15



Select Configuration Task Select setup or maintenance tasks.		
If you are installing Database Mail for the first time, select t	the setup option.	
 Set up Database Mail by performing the following tas 	sks	
1. Create a new e-mail profile and specify its SMTP a	accounts	
2. Specify profile security		
3. Configure system parameters		
Manage Database Mail accounts and profiles		
C Manage profile security		
○ View or change system parameters		
<u>H</u> elp	< Back Next > Einish >> Cancel	
		<u>///</u>
oft SQL Server Management Studio		
The Database Mail feature is not available	Would you like to enable this feature?	
	would you like to enable this reactire?	
	Vec No	

6. Give a name to the profile (i.e. EVS) and click Add to add an SMTP account

Author Sebastien MAINDIAUX

File name Application_Note_SQL_Alerting_6 0.docx

10-avr.-13

Mis en forme : Non souligné, Couleur de police : Automatique

Page 5 of 15



DB SERVER APPLICATION NOTE SQL ALERTING

🎥 Database Mail Configuration Wi	ard - DB59810			
New Profile Specify the profile name, description	n, accounts, and failover priority.			
Profile name: EVS				
Description:	<u> </u>			
	<u>×</u>			
A profile may be associated with multipl account in the priority list. Specify the a	e SMTP accounts. If an account fails while sending an e-mail, the profile uses the next ccounts associated with the profile, and move the accounts to set the failover priority.			
SMTP accounts:				
Priority Account Name E-mai	Address <u>A</u> dd <u>Hemove</u> <u>Move Up</u> <u>Move Down</u>			
Help	<back next=""> Einish>>/ Cancel</back>			
	""	1		
7. Click on <u>Add</u>				Supprimé: New Account
	X			Profile 'EYS'
8 Give a name to the Mail Account				Select account to add to the profile
Rew Database Mail Account	×			Account name:
Specify name, description, and at	tributes for your SMTP account.		$\langle \rangle$	E-mail address:
Account name:				<u>a</u> erver name.
Des <u>c</u> ription:			$\langle \rangle$	
Outgoing Mail Server (SMTP)			$\langle \rangle$	
<u>E</u> -mail address:			V	Supprimé:
Djsplay name:				Mis en forme : Non souligné, Couleur
<u>R</u> eply e-mail:			C	
Server name:	Port number: 29			
SMTP Authentication				
C Windows Authentication us	ing Database Engine service credentials			
C Basic authentication				
<u>U</u> ser name:				
Password:				
Confir <u>m</u> password:				
 Anonymous authentication 				
	OK Cancel Help			
9. Configure the E-mail address used as	FROM" address of the mail alerts			
Author Sebastien MAINDIAUX				
		10-avr13		



.

- 10. Configure a Display name (this name should be meaningful to be sure to identify the DB server once an alert will be received)
- 11. Configure the SMTP Server name. This server should accept mail coming from the database server and should Configure the SMTP Geron management of the SMTP server route these mails to internet.
 Check the values of SMTP Authentication to fit what is requested by the SMTP server 13. Once everything is configure, click on OK

 Once everytning 	IS	CO	ш	g١	ure,	CII	CK	on	U
	1 1 1								

account name:	EVS Support	
Des <u>c</u> ription:		
Dutgoing Mail Server	(SMTP)	
E-mail address:		evs.DB.Server@customer.domain.name
Display name:		EVS DBA107230 in Local X - Rack Z
<u>R</u> eply e-mail:		
Server name:		smtp.customer.domain.hame Port number: 25
This server rea	quires a secure con	nection (SSL)
6MTP Authentication	n	
○ <u>W</u> indows Auth	entication using Da	atabase Engine service credentials
C Basic authenti	cation	
<u>U</u> ser name:		
Password:		
Confirm manage	ord:	
Conni <u>m</u> passw		

14. Click on Next to validate the new profile

			
Profile name:	EVS		
Description:			
A profile may be account in the p	associated with riority list. Spec	h multiple SMTP accounts. If an account fails while sending an e-mail, ify the accounts associated with the profile, and move the accounts to	the profile uses the next set the failover priority.
Priority Acci	ount Name	E-mail Address	Add
1 E	VS Support	evs.DB.Server@customer.domain.name	Remove
			Move Up
			Move Down

Author Sebastien MAINDIAUX

Application_Note_SQL_Alerting_6 0.docx File name

10-avr.-13

Page 7 of 15





≣V5

DB SERVER APPLICATION NOTE SQL ALERTING

Verify the actions the wizard is about to perform, and then click Finish to execute these actions on the server. Click Finish to perform these actions: New Profiles • Create New profile EVS' Adding Account EVS Support' for SMTP server'smip, customer, domain, name' New Profiles • Create New profile EVS' Adding Account EVS Support' profile EVS' with priority '1' Manage Profile Security • Set EVS' as public profile	Verify the actions the wizard is about Verify the actions the wizard is about even accounts Create new account 'EVS' support' even account 'EVS' Create New profile 'EVS' ding Accounts Profiles Add account 'EVS' Support' to profile anage Profile Security 'Set 'EVS' as public profile	t to perform, and then of	ustomer.domain.r	name'	ns on the server.	
Click Finish to perform these actions: New Accounts Create new account EVS Support for SMTP server 'smtp.customer.domain.name' New Profiles Create New profile EVS' Adding Accounts Profiles Add account EVS Support to profile EVS' with priority '1' Manage Profile Security Set EVS' as public profile Heb	ck Finish to perform these actions: ew Accounts Create new account 'EVS Support' ew Profiles Create New profile 'EVS' ding Accounts Profiles Add account 'EVS Support' to profil anage Profile Security - Set 'EVS' as public profile	or SMTP server 'smtp.cc	sustomer. domain. r	name'		
New Accounts Create new account 'EVS Support' for SMTP server 'smtp.customer.domain.name' New Profiles • Create New profile 'EVS' Adding Accounts Profiles • Add account EVS Support' to profile 'EVS' with priority '1' Manage Profile Security • Set EVS' as public profile	ew Accounts Create new account 'EVS Support' e Create New profile 'EVS' Create New profile 'EVS' ding Accounts Profiles Add account EVS Support' to profile anage Profile Security Set 'EVS' as public profile	or SMTP server 'smtp.cu	ustomer.domain r	name'		
New Profiles • Create New profile 'EVS' Adding Accounts Profiles • Add account EVS Support'to profile 'EVS' with priority '1' Manage Profile Security • Set EVS' as public profile	ew Profiles Create New profile 'EVS' Iding Accounts Profiles Add account EVS Support' to profile anage Profile Security Set 'EVS' as public profile	'EVS' with priority '1'				
Adding Account Profiles • Add account EVS Support to profile EVS' with priority '1' Manage Profile Security • Set EVS' as public profile Heb (Rack Next) Finish Co	Iding Accounts Profiles • Add account EVS Support' to profile anage Profile Security • Set EVS' as public profile	"EVS" with priority "1"				
Manage Profile Security • Set EVS' as public profile Help Help Ket Finish	anage Profile Security Set EVS' as public profile					
Set EVS as public prote	, Ser EVS as public profile					
	Help				1	1
Database Mail Configuration Wizard - DB59810	the configuration and	d click on Clo	< <u>B</u> ack	<u>N</u> ext>	<u> </u>	
Database Mail Configuration Wizard - D859810 Configuring Click Stop to interrupt the operation.	the configuration and atabase Mail Configuration Wiz onfiguring Click Stop to interrupt the operation	d click on Clo ard - DB59810	< <u>B</u> ack	<u>N</u> ext >	<u>F</u> inish	
Database Mail Configuration Wizard - DB59810 Configuring Click Stop to interrupt the operation. 4 Total 0 Error	the configuration and atabase Mail Configuration Wiz onfiguring Click Stop to interrupt the operation	d click on Clo ard - D859810	< <u>B</u> ack	<u>Next></u>	<u>Einish</u>	0 Error
Database Mail Configuration Wizard - DB59810 Configuring Click Stop to interrupt the operation. Success 4 Total 0 Error 4 Success 0 Warning	the configuration and atabase Mail Configuration Wiz onfiguring Click Stop to interrupt the operation Success	d click on Clo : ard - DB59810	<u>Back</u>	Next> 4 Total 4 Succes	Enish SS I	0 Error 0 Warning
Database Mail Configuration Wizard - DB59810 Configuring Click Stop to interrupt the operation. Success 4 Total 0 Error 4 Success 0 Warning Details:	the configuration and atabase Mail Configuration Wiz onfiguring Click Stop to interrupt the operation Success etails:	d click on Clo : ard - DB59810	<u>Back</u>	Next> 4 Total 4 Succes	<u>Enrish</u>	0 Error 0 Warnin
Database Mail Configuration Wizard - D059810 Configuring Click Stop to interrupt the operation. Success 4 Total 0 Error 4 Success 0 Warning Details: Action Status Message	the configuration and tatabase Mail Configuration Wiz chick Stop to interrupt the operation Success etails: Action	d click on Clo ard - DB59810	Status	Next> 4 Total 4 Succes	Einish Einish Message	0 Error 0 Warning
2 Database Mall Configuration Wizard - D859810 Configuring Dick Stop to interrupt the operation. Image: Success of the stop of the s	the configuration and atabase Mail Configuration Wiz onfiguring Click Stop to interrupt the operation Success etails: Action Create new account EVS Suppo	d click on Clos ard - DB59810	Status 9	Next> 4 Total 4 Succes	SS Message	0 Error 0 Warnin
	the configuration and atabase Mail Configuration Wiz onfiguring Click Stop to interrupt the operation Success etails: Action Create new account EVS Suppo Create New profile EVS'	I click on Clo : ard - D859810 Y for SMTP server 'D85	Status Success	Next> 4 Total 4 Succes	SS Message	0 Error 0 Warnin
	the configuration and atabase Mail Configuration Wiz anfiguring Click Stop to interrupt the operation Success etails: Action Create New account EVS Suppor Create New profile EVS' Add account EVS Suppor' to pre	d click on Clos and - DB59810 I' for SMTP server 'DB5 Rie EVS' with priority 1'	Status Success Success Success	Next> 4 Total 4 Succes	SS Message	0 Error 0 Warnin

Author	Sebastien MAINDIAUX	10-avr13
File name	e Application_Note_SQL_Alerting_6 0.docx	Page 9 of 15



CONFIGURE SQL SERVER AGENT

- Open the SQL Server Management Studio
- 2. 3.
- Extend your server Right-Click on SQL Server Agent and choose Properties



Author Sebastien MAINDIAUX

Application_Note_SQL_Alerting_6 0.docx File name

10-avr.-13

Page 10 of 15



- Choose Alert System in the left list
 Check Enable mail profile
 Choose Database Mail as the Mail system
 Choose your profile as the Mail profile

🚪 SQL Server Agent Properti	s - DB59810			_ 🗆 🗙
Select a page	Script - C Help Mail session ✓ Enable mail profile Mail system Mail profile: ✓ Save copies of the Pager e-mails Address formation for page	Database Mail EVS sent messages in the Sr	ent Items folder	Test
	Address formatting for page	ar e-mails.	Pager	Cuffer
	Toline			Julik.
	Fo line			
	<u>Comine</u>			
Connection	To: Cc: Subject: <subject></subject>			F
Server:		n notification message		
Connection: DB59810\DVB	Fail-safe operator	or		
View connection properties	Operator:	EVS_Support		~
Progress	Notify using:	🗖 E-maji	🗖 Pager 🛛 🕇	Net sen <u>d</u>
Ready	Token replacement Replace to <u>k</u> ens for all job	b responses to alerts		
				OK Cancel

8. Click OK and restart the SQL Server Agent service

E 🔀 SQL Server A	- <u>N</u> ew I	•		Mis en forme : Non souligné, Couleur de police : Automatique
	Multi Server Administration	•	X	Mis en forme : Retrait : Gauche : 3,75 cm
	Start	•		
	Stop			
	Rest <u>a</u> rt			
<u> </u>	Deports I			

Author Sebastien MAINDIAUX	10-avr13
File name Application_Note_SQL_Alerting_6 0.docx	Page 11 of 15







- 1. Open the SQL Server Management Studio
- Extend your server
- 3. Extend Management
- 4. Right-Click on Database Mail and Choose "Send Test E-Mail"
 - 😑 🔀 192.168.217.230 (SQL Server 9.0.4035 sa)

🗄 🚞 Databases 표 🚞 Security 🗄 🚞 Server Objects 표 🚞 Replication 😑 🚞 Management 🗉 🚞 Maintenance Plans 🕀 🚞 SQL Server Logs 📑 Database Configure Database Mail 🧬 Distribute Send Test E-Mail... 🗟 Full-Text 🗄 🚞 Legacy View Database Mail Log 🖃 📸 SQL Server A Reports ۲ 🕀 🚞 Jobs 🔠 Job Activ Refresh 🗄 🚞 Alerts

5. Enter your destination e-mail address in To: and click on "Send Test E-Mail"

Author Sebastien MAINDIAUX

10-avr.-13

File name Application_Note_SQL_Alerting_6 0.docx

Page 13 of 15

≡∨s		DB SERVER APPL	ICATION NOTE SQL ALERTING	
	Send Test E-Mail from DBA107. Database Mal Brofie: Io: Subject: Body:	270		
	Database Mail Test E-Mail Sent e-mail: Your test e-mail has been queu speed and the backlog of the 5 before the e-mail is delivered to If the e-mail is successfully rece If the e-mail is not received, clic	ed for processing. Depending on the network MTP server, it may take several minutes the recipient. sived, click OK. it Troubleshoot.		Mis en forme : Non souligné, Couleur de police : Automatique
 Close that window Right-Click on Database Mail and Choose Ch	Dose "View Database Database M Distributed	Mail log" Configure Database Mail		
	Full-Text Set Legacy SQL Server Aget Jobs If Job Activity	Send Test E-Mail View Database Mail Log Reports Refresh		
Check if have any error message in the <u>9. Check your INBOX to see if a mail was</u> <u>The following are examples of emails that</u>	Alerts Iog s received.	art of this process	•	Mis en forme : EVS Body Text, Sans numérotation ni puces Commentaire [SJ1]: Insert summary examples below.
Author Sebastien MAINDIAUX File name Application_Note_SQL_Alerting	g_6 0.docx		10-avr13 Page 14 of 15	





Author Sebastien MAINDIAUX

File name Application_Note_SQL_Alerting_6 0.docx

10-avr.-13

Page 15 of 15