



SQL SATURDAY - NEW YORK - 2019

SQL ALERTS DASHBOARD

GEORGE WALKEY

SR SQL DBA

PATIENTFIRST CORP

RICHMOND, VA

[HTTPS://GITHUB.COM/GWALKEY](https://github.com/gwalkey)

AGENDA

- SQL Alerts for all my Servers in a Glass Pane
- Build it yourself Mentality/Methodology
- Setup
 - SQL Agent Alerts - Turn on for all Monitored Servers
 - SQL Agent Job - Copies Alerts to Central Database
 - Central Database for Alert Collection and Reporting
 - SSRS Reports

[HTTPS://GITHUB.COM/GWALKEY](https://github.com/GWALKEY)

WORKFLOW

- SQL Agent detects an Alert
- The Alert calls a SQL Agent Job in the Response, passing the Alert Details via Agent Tokens to a Powershell Script as parameters
- Powershell Script logs the Token values to the Centralized SQL database
- SSRS Reports show the Alerts for all Servers

[HTTPS://GITHUB.COM/GWALKEY](https://github.com/gwalkey)

THE AGENT TOKENS

- A-DBN – Database Name
- A-SVR – Server Name
- A-ERR – Error Number
- A-SEV – Severity Level
- A-MSG – Message Text

[HTTPS://GITHUB.COM/GWALKEY](https://github.com/gwalkey)

THE AGENT TOKENS

SQL Server Agent Properties - [Server Name] - [Instance Name]

Select a page

- General
- Advanced
- Alert System**
- Job System
- Connection
- History

Script Help

Mail session

☒ Enable mail profile

Mail system: Database Mail

Mail profile: Default Test...

☒ Save copies of the sent messages in the Sent Items folder

Pager e-mails

Address formatting for pager e-mails:

	Prefix:	Pager:	Suffix:
To line:		<input type="checkbox"/>	
Cc line:		<input type="checkbox"/>	
Subject:			

To:
Cc:

☒ Include body of e-mail in notification message

Fail-safe operator

☒ Enable fail-safe operator

Operator: [Operator Name]

Notify using: ☒ E-mail ☐ Pager

Token replacement

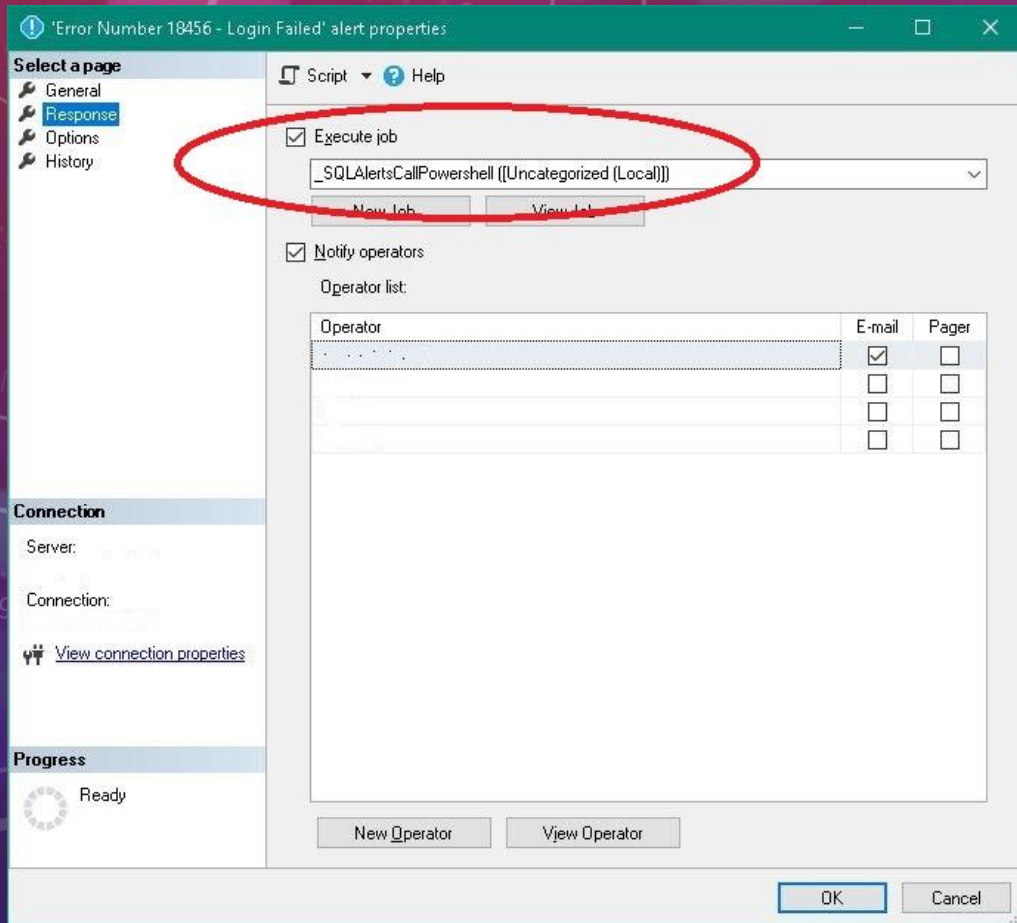
☒ Replace tokens for all job responses to alerts

OK Cancel

[HTTPS://GITHUB.COM/GWALKEY](https://github.com/gwalkey)

THE ALERT RESPONSE

- Calls a SQL Agent Job



[HTTPS://GITHUB.COM/GWALKEY](https://github.com/gwalkey)

THE SQL AGENT JOB

- No Schedule: called ad-hoc from the Alert Response
- Passes the Alert Tokens to the Powershell script
- Job Step Type is Operating System
- Command Line:
powershell.exe c:\psscripts\logsqlalert.ps1
'\$(ESCAPE_SQUOTE(A-SVR))'
'\$(ESCAPE_SQUOTE(A-DBN))'
'\$(ESCAPE_SQUOTE(A-ERR))'
'\$(ESCAPE_SQUOTE(A-SEV))'
'\$(ESCAPE_SQUOTE(A-MSG))'

[HTTPS://GITHUB.COM/GWALKEY](https://github.com/gwalkey)

THE POWERSHELL SCRIPT

- Short and Quick
- Adds the passed-in Tokens via SQL INSERT

[HTTPS://GITHUB.COM/GWALKEY](https://github.com/gwalkey)

THE REPORTS

- Visual Summary with Charts
- Detail Report with Search Parameters
- Security-Only Digest Sent to Security Officer Daily

[HTTPS://GITHUB.COM/GWALKEY](https://github.com/gwalkey)

DEMO



[HTTPS://GITHUB.COM/GWALKEY](https://github.com/gwalkey)

THE CODE AND THE THANKS

[HTTPS://GITHUB.COM/GWALKEY](https://github.com/gwalkey)