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# Passive Security for Hostile Environments

Bob Pusateri, Solutions Architect, Heraflux Technologies

Moderated By: Vijay Chidam

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# Bob Pusateri



## FOCUS AREAS / PASSIONS

Performance Tuning & Troubleshooting

Very Large Databases

SQL Server Storage Engine



**Microsoft**  
**CERTIFIED**  
Master  
SQL Server 2008

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# Passive Security for Hostile Environments

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Heraflux Technologies





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SQL Server 2008

# Who is the best DBA?

The one you don't know exists

Mildly paranoid

Sense of ownership & responsibility

Omniscient about DBs entrusted to them





# Our Scenario

One or more people have too many rights:

Boss, CEO, "Connected", etc.

You don't trust them

Nobody can or will say no to them

You value your job so you won't either



# Our Scenario

They're a sysadmin!

Can we stop a sysadmin from doing anything?

**NO**



# Our Scenario

sysadmins:

Can't be denied anything

Can undo anything we do

**A GAME OF "WHAT IF"?**



# Goal: Passively Secure Our Instance

## Know What's Going On

- What's being executed
- Who did it
- When it happened
- Alert DBA(s) if necessary

## Be Invisible!

- Minimal impact on DB operations
- Record but don't prevent
- Be as low-profile as possible



# Our Toolbelt

Triggers

SQL Audit

Event Notifications

Extended Events

Policy-Based Management







# MANAGEMENT AND THE WORKER

*An Account of a Research Program Conducted by  
the Western Electric Company, Hawthorne Works, Chicago*

BY

<sup>fitz</sup>  
F. J. ROETHLISBERGER

ASSOCIATE PROFESSOR OF INDUSTRIAL RESEARCH  
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Demos



# Feature Comparison

	Trigger	Audit	Event Notification	Extended Events
Asynchronous	No	Yes/No	Yes	Yes
Runs in Transaction?	Yes	No	No	No
Ignores Rollbacks?	Yes	No	Yes	No
Logs Denials?	No	Yes	No	No
Can Instantly Notify?	Yes	No	Yes	No
Works in Standard Edition?	Yes	Server Level Only	Yes	Yes

A man wearing large headphones is sitting at a desk in an office, looking at a computer monitor. He is wearing a plaid shirt. The desk has a computer mouse, a keyboard, a desk lamp, and a bottle. The background shows other office desks and windows. The entire image has a teal color overlay.

QUESTIONS?



Coming up next!

Outlier Detection With SQL And R

Kevin Feasel

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FOR ATTENDING

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