

# SecOps Face Off:

## Automated Investigation vs. Manual Meltdown

See how Reveal(x) automates security workflows for faster detection, investigation, and remediation.

### Reveal(x)

UNPRECEDENTED VISIBILITY. DEFINITIVE INSIGHTS. IMMEDIATE ANSWERS.

### Multi-Tool Workflow

ALERT OVERLOAD. MANUAL INVESTIGATION. ENDLESS GUESSWORK.

**BRUTE FORCE DETECTED**

Automatically detected. Forensic evidence, including all transaction details and packets between client and DB automatically gathered and correlated.

Analyst is provided evidence of suspicious DB access and can proactively assess the situation and respond.

**ATTACK AVERTED**

FURTHER INVESTIGATION OF THE INCIDENT CAN OCCUR WITHOUT FEAR OF DAMAGE.

**Failed Login Attempts**

Several failed logins by a client on a sensitive database. Potential brute force login attempt.

**Successfully Logged In**

Client successfully logs into sensitive DB.

**DATA DOWNLOADED**

Client attempts to initiate download of data from DB. Database responds in affirmative and commences delivering data.

Reveal(x) sees exactly which data the client is attempting to download by decoding the contents of the client request and DB responses, so analysts can determine instantly whether or not the action is malicious.

Reveal(x) sees the client issue a DROP command against the audit table, which should never be done, proving incontrovertibly that this is a malicious action.

Reveal(x) sees client initiate FTP session with external client, and sees exactly which files are being transferred, providing further conclusive evidence and forensic detail about the malicious action.

**POTENTIAL BRUTE FORCE ALERT**

**DHCP LOGS**

Analyst receives alert identifying IP address of suspicious client and must query DHCP logs and CMDB for contextual information about the client.

**LDAP LOGS**

Analyst manually checks LDAP logs or other auth logs to understand the relationship between the client and DB in question.

**DATABASE LOGS**

Analyst manually gathers database logs, if available.

**SIEM**

Analyst manually checks SIEM for logs of the suspicious IP address accessing the DB, if available.

**DATABASE LOGS**

Analyst manually queries DB logs.

**SIEM**

Analyst manually queries logs from client via SIEM, if available.

**FLOW LOG PROVIDER**

Analyst manually queries network flow logs, DB logs, and client logs, if available.

**DATABASE LOGS**

If no transaction-level detail or DB logs available, analyst must conjecture whether or not data was delivered, and what it might have been.

**STOP**

Analyst is no longer able to obtain forensic evidence from DB logs about exactly which data, and how much, was taken.

**PCAP & WIRESHARK**

Analyst consults packet-capture solution, and downloads multi-Gigabyte PCAP file to examine in Wireshark. The file takes several minutes to open, and much longer to manually comb through for evidence of malicious action by the client on the database.

**ALERT**

New alert is not correlated with earlier suspicious behavior from this client.

**SIEM**

Analyst manually queries logs for internal client, if available.

**FLOW**

Analyst manually queries flow data between client and External IP address, which indicates volume of data transferred, but doesn't have filenames or other forensic details.

**WIRESHARK**

Analyst downloads new PCAP of all transactions with the suspicious client and examines in Wireshark.

### Reveal(x)

### Multi-Tool Workflow

#### GRAND TOTALS

**1 TOOL REQUIRED**

**1 MANUAL STEP**

**7 TOOLS REQUIRED**

**9 MANUAL STEPS**

Upon first receiving the alert about the potential brute force attack, the analyst cut off access to the DB for the suspicious client, then drilled down to transaction details and packets using Reveal(x) to confirm that the DB access was malicious.

Having spent several hours, or even days, manually investigating separate alerts about the same attack, the security analyst discovers that sensitive data has been exfiltrated, and initiates a painful forensic investigation and reporting process.

**Attack averted.**

**Forensic investigation and damage assessment begins.**

**CUSTOMER VALUE**

**95%**  
IMPROVEMENT  
IN TIME TO DETECT

**77%**  
IMPROVEMENT  
IN TIME TO RESOLVE

**59%**  
REDUCTION  
IN STAFF TO RESOLVE