

# Automated Enterprise KPI Reporting for Cybersecurity

Respond to Enterprise-wide Cybersecurity Risks through Integrated Business Intelligence Solutions

## Overview

Automated KPI reporting from cloud training platforms can help highlight cybersecurity risks across the enterprise and enable ad-hoc analysis capabilities by entity/subsidiary. Limited standard reporting and data points available from the cybersecurity training platform presented a business process improvement opportunity to implement a customized and integrated business intelligence solution. A previously manual process that involved flat files and disparate data sources was transformed to create a certified dataset enriched with HR data points in an automated manner in order to provide timely and accessible dashboard reporting for all levels within the organization.

## The Challenge

Our client requires that security training and simulated phishing exercises are reported in a streamlined solution to ensure that they are completed in accordance with enterprise targets. Security training data is captured at the employee level through the training platform, which is then merged with HR information to create an enriched dataset for reporting purposes. A certified dataset with key data points enables the leadership team to assess completion metrics by entity, function and employee level. Our challenge was to prepare a customized solution to:

- Automate the collection of training datasets via application program interface (API) and integrate with information from the HR department
- Generate a dashboard that provides analysis capabilities for security exercises completed by employee



**Industry:** Energy  
**Location:** Calgary, AB  
**Size:** 1,500+

## Company Bio

A North American energy infrastructure company that is based in Calgary, Alberta. The company operates in three business segments: gas, power generation, and utilities.



Enhanced Reporting and Analysis

500 Manhours Saved Per Year



Full Utilization of Microsoft Power BI and Azure Data Factory



## The Solution

Raven Bay capitalized on capabilities from Azure and Power BI to meet stakeholder requirements for an automated solution:

- Azure Data Factory was used to extract data from the cybersecurity training platform API and load into an Azure Data Lake storage
- Power BI was used for visualization to create an ad hoc analysis and reporting dashboard that is easily accessible to key stakeholders
- Integrate datasets from the cybersecurity training platform and HR department into the Power BI dashboard for comprehensive reporting

## The Results

Raven Bay's innovative approach delivering a Power BI focused solution now performs the following tasks:

- Fully automated and easily accessible reporting that presents key cybersecurity training metrics
- Determine whether training completion metrics align with enterprise targets for annual performance reviews
- On-demand data refresh through a simple interface

*“While psychological attacks test the strength of even the best security systems, companies can mitigate the risk of social engineering with awareness training.*

*Consistent training tailored for your organization is highly recommended.”\**

Cisco Systems, Inc.