

Digitalization of Utilities, Digital Twins and Digitalization

Speaker :

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Israel Electric Corporation

Israel Electric Corporation

The dominant provider of the national electricity system

An energy island

Extreme changes in grid requirements



Provides: generation, transmission, distribution, and supply

Challenging geopolitical conditions

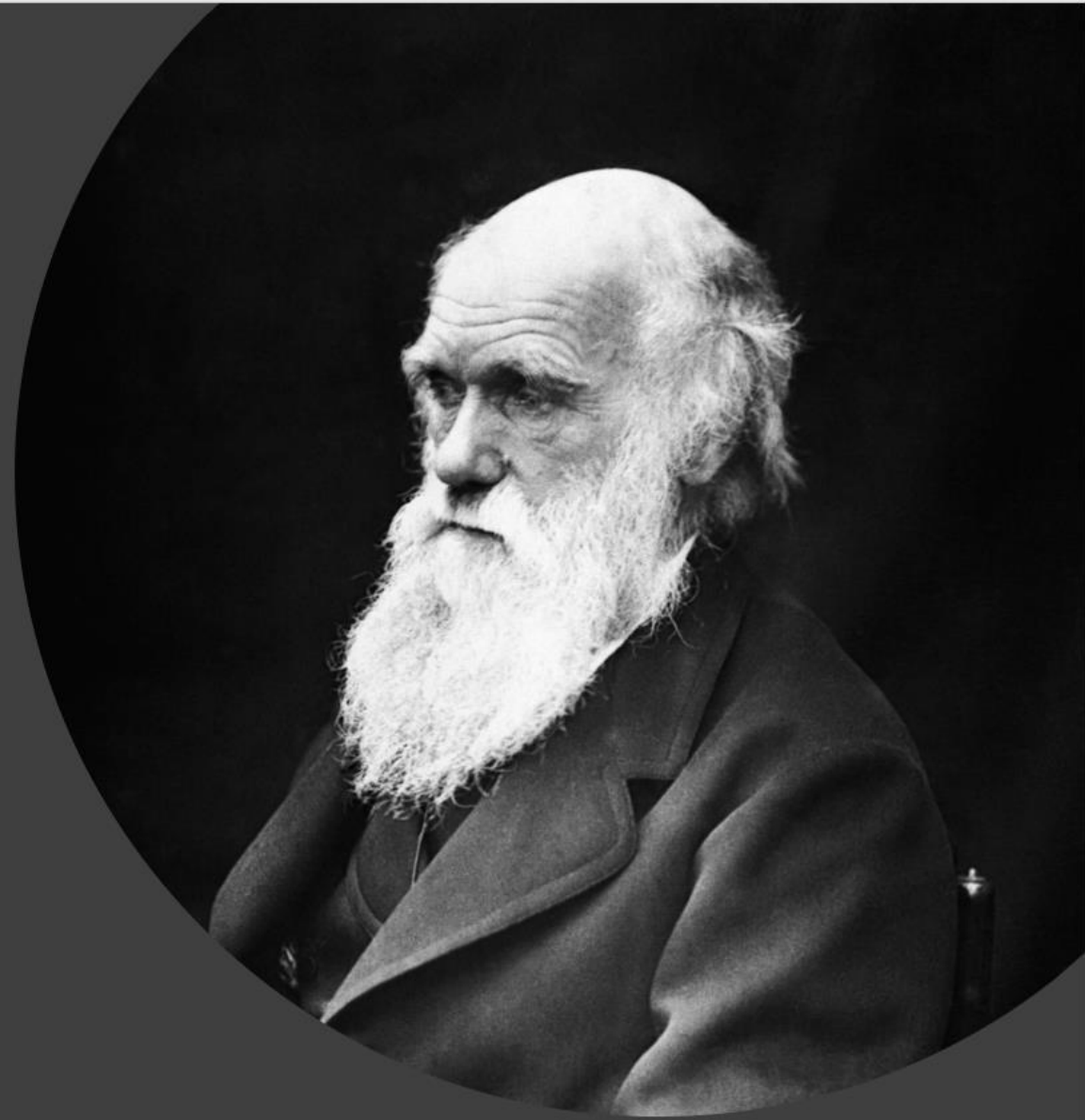
One of the most cyber attacked companies in the world

Israel is ranked 8th in the world on Country's Performance in Providing Reliable Access to Affordable Energy

WORLD
ENERGY
COUNCIL

"It is not the strongest of the species that survives, nor the most intelligent, but the one most responsive to change."

Charles Darwin, 1809



The “3Ds” Require a different Approach

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Digitalization

Decentralization

Decarbonization

Ensuring secured and
operational electricity
in a fast changing
environment

System

Proactive

Dynamic

Key Requirements

Vulnerability Mitigation and Proactive Gaps Identification

Validate before deployment

Dynamic OT Simulation & Validation

Frequent tests to eliminate and mitigate new deployments and upgrades risks



Hybrid Tests' Simulation

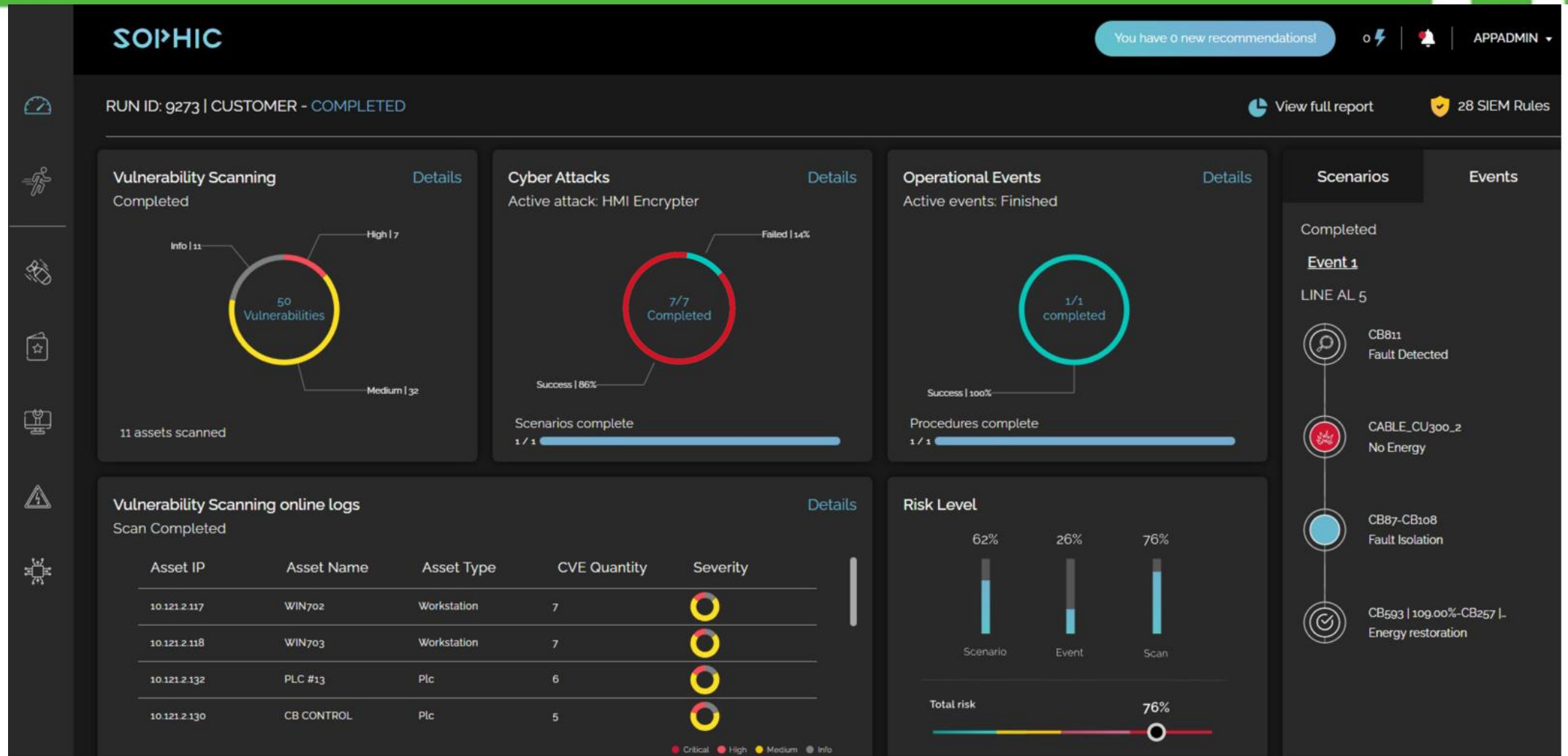
Modelling and real new equipment

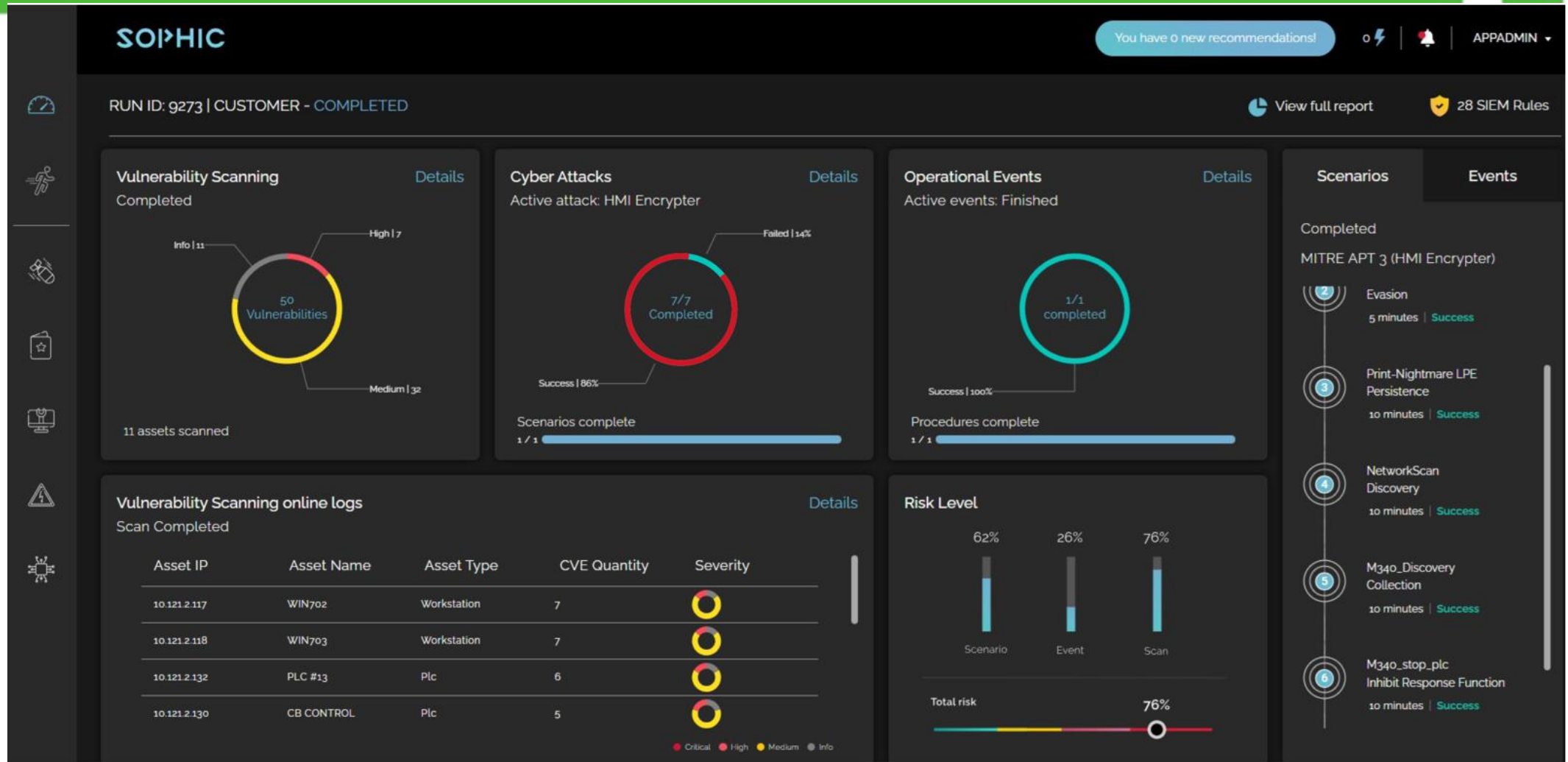
Post Recovery Process

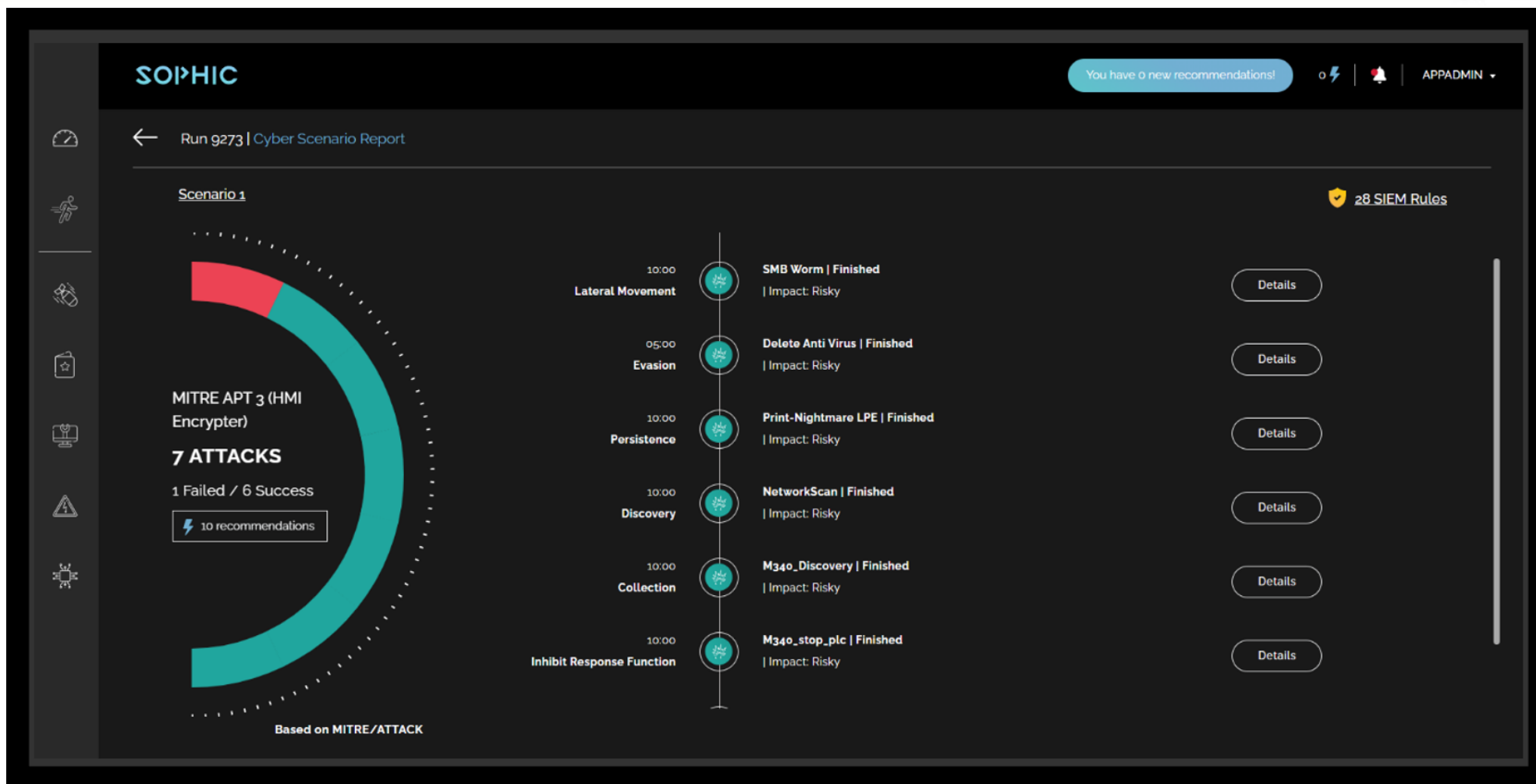
Analyse and test recovery process

A dynamic platform for
emulating, simulating and validating
operational events
in a near real live environment,
while checking and raising cyber sturdiness









Benefits



Safe simulation and validation, in a near-real-time



Simulate actual operating systems, processes, and operational models



High level dashboard with prioritization, drill down, and reporting capabilities



Evaluate real-life cyberattacks and operational scenarios prior to any changes or updates



Thank You

*For discussions/suggestions/queries email: isuw@isuw.in
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