

# Povenos

EXECUTION VALIDATION

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# Security and Operational Readiness Overview

How Povenos validates operational procedures through simulation and execution evidence.

# What Povenos Does

## Operational readiness is not a feeling.

Povenos is an execution validation platform for operational policy. Most organizations assume their incident response procedures work. They run drills once a year and file the results away. When a real incident arrives, they discover the gaps.

Instead of assuming procedures work, teams test them under realistic conditions. The system captures exactly what happened, where decisions deviated, and what the evidence shows about execution quality.

The output is a structured record of how operational procedures perform when executed by real people under real pressure.

### Policy

Write structured incident response procedures. Define steps, roles, and expected outcomes.

### Simulation

Run a realistic simulation with real team members. Povenos guides participants through the scenario.

### Evidence

Receive a structured record: decisions made, steps skipped, latency measured.

## Built for organizations that take security seriously.

Povenos runs as a fully managed cloud service. Each organization's data is isolated at the tenant level. No simulation data, policy content, or execution evidence is shared between tenants.

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### Data Isolation

Each tenant operates in a dedicated data partition. Simulation sessions, policy definitions, and evidence records are scoped to the tenant. Cross-tenant data access is architecturally impossible.

### Encryption

All data is encrypted at rest and in transit. Transport uses TLS 1.2 or higher. Storage encryption uses AES-256. No plaintext sensitive data is written to disk.

### Access Control

Role-based access control governs all system actions. Administrators control who can create policies, run simulations, and view evidence. Session tokens are short-lived and not persisted in client storage.

### Audit Logging

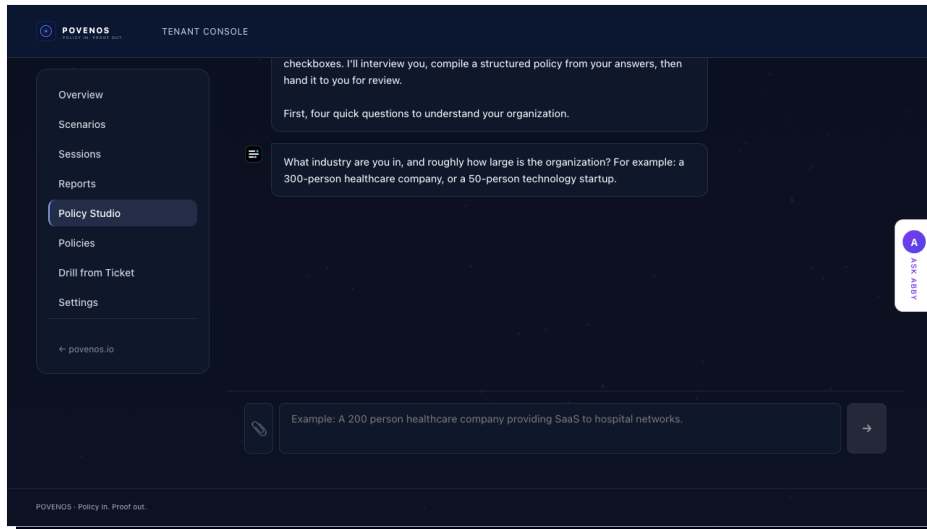
Every system action is logged with actor, timestamp, and outcome. Logs are append-only and cannot be modified by users or administrators. Audit records are available for export at any time.

### Infrastructure

Povenos runs on AWS in the us-east-1 region. Compute runs on ECS with task-level isolation. No shared compute between tenants.

## Every simulation starts with a policy.

Incident response policies in Povenos are structured procedural definitions that drive simulation execution. Each policy defines the steps a team must follow, the decisions that must be made, and the outcomes that constitute correct execution.

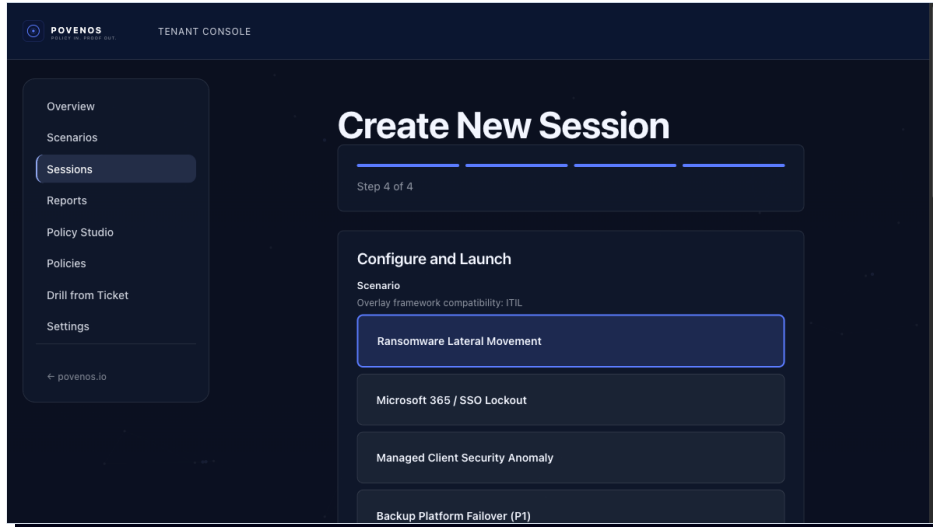


Policy Studio — Abby builds the policy through a structured interview

- Policies are authored through a guided interview with Abby, the embedded AI assistant.
- Each policy captures steps, roles, escalation paths, and decision criteria.
- Policies are versioned. Changes are tracked. Old versions remain available.
- A single policy can be run across multiple sessions for performance comparison.

## Real teams. Real decisions. Controlled conditions.

Simulations run in real time with real participants. Team members receive alerts, make decisions, and execute response steps just as they would during an actual incident. Povenos tracks every action as it happens.



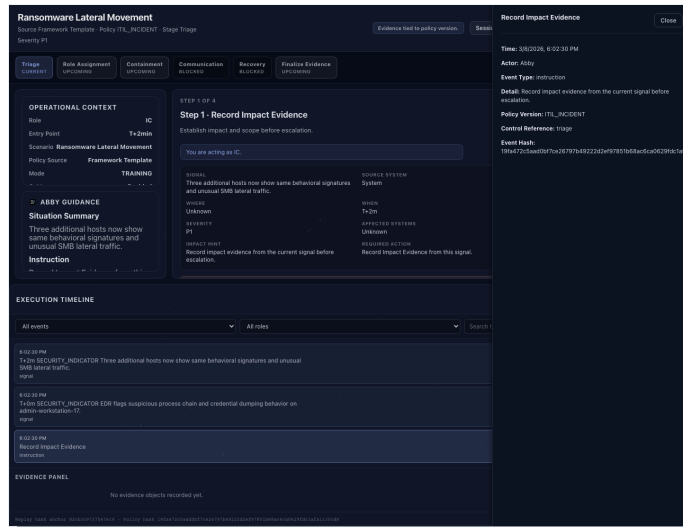
Scenario Selector — Teams choose and launch a simulation session

- Simulations are configurable. Scenario type, team composition, and objectives are set before launch.
- Participants receive step-by-step execution guidance during the session.
- No preparation is required. The simulation works with any team, on any schedule.
- Sessions run remotely. All participants connect through the browser.

# Execution Logging

## The system records what actually happened.

During a simulation, Povenos captures a complete record of execution. Every decision, every action, and every deviation from the expected procedure is logged with a timestamp and the identity of the person responsible. Nothing is self-reported.



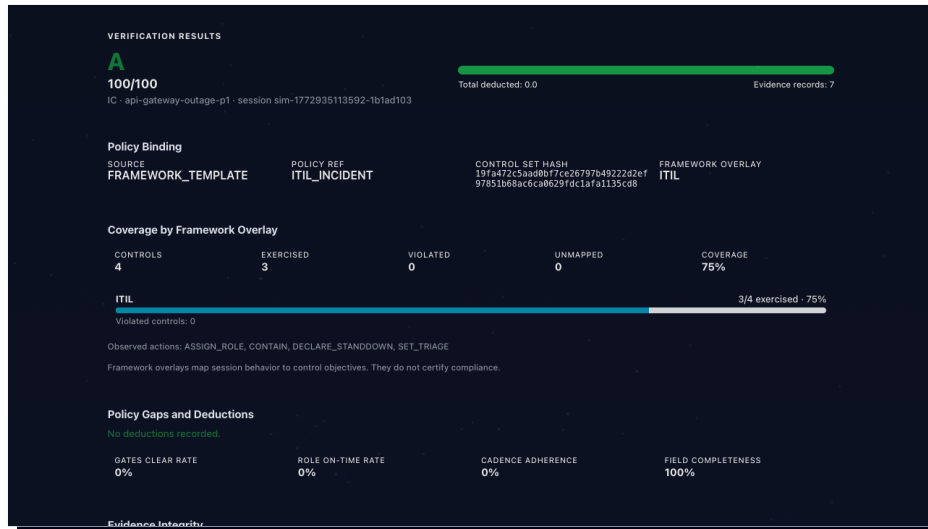
Simulation Room — Live execution with step tracking and guidance

- Every action is timestamped. Decision latency is measured automatically.
- Deviations from the policy are detected and flagged in real time.
- The log is immutable. No participant can modify the execution record after the session.
- Logs are retained and available for replay, audit, and comparison at any time.

# Incident Replay

## Replay any session. Understand exactly what happened.

After a simulation, Povenos generates a structured replay of the session. Teams can review the timeline step by step, see where decisions were made correctly, and identify the exact moment a procedure broke down. The replay becomes the basis for debrief and remediation.



Replay View – Step-by-step timeline of execution decisions

- The replay shows the complete decision timeline from alert detection through resolution.
- Each step shows whether the team executed correctly, late, or incorrectly.
- Escalation paths, communication gaps, and coordination failures are surfaced automatically.
- Replay data is used in debriefs, regulatory submissions, and compliance audits.

# Operational Readiness Measurement

## Readiness is not declared. It is measured.

Povenos calculates operational readiness scores based on actual execution data. Scores reflect how accurately teams followed policy, how quickly they made decisions, and where execution broke down. Each simulation contributes to a baseline that improves over time.

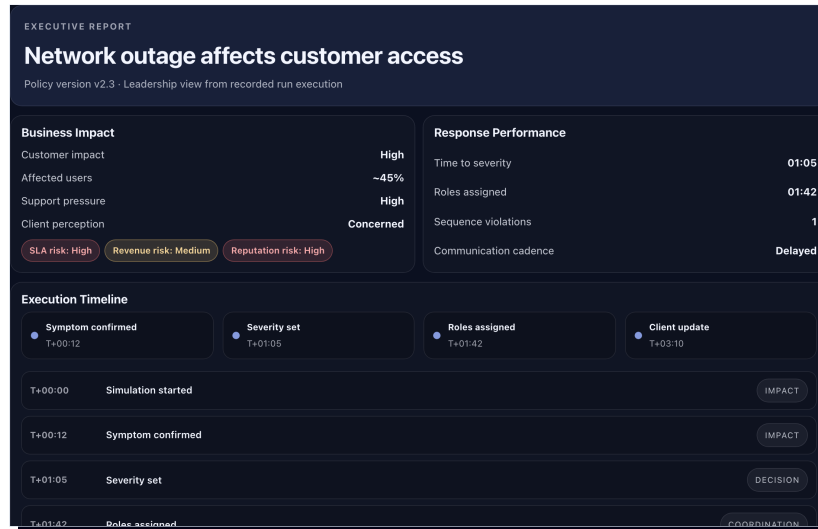
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Participant	pr-sim-1772935113592-1blad103-a1	sim-1772935113592-1blad103	3/8/2026, 2:28:31 PM	<a href="#">View</a> <a href="#">JSON</a>
Executive	es-t-demo-api-gateway-outage-p1-8s	n/a	3/8/2026, 1:59:09 PM	<a href="#">View</a> <a href="#">JSON</a>
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Participant	pr-sim-1773003439273-bb6734de-a1	sim-1773003439273-bb6734de	3/8/2026, 1:59:09 PM	<a href="#">View</a> <a href="#">JSON</a>

Readiness Report — Aggregated metrics across sessions and policies

- Policy compliance score measures how accurately the team followed the defined procedure.
- Decision latency tracks how quickly key decisions were made at each step.
- Trend data shows whether readiness is improving or declining across sessions.
- Scores can be segmented by policy, team, time period, or incident type.

## Structured proof that procedures were tested.

The final output of every Povenos session is an operational evidence report. This report documents what was tested, who participated, what the policy required, and how execution compared to the standard. It is the structured record organizations need for audits, compliance, and governance.



Operational Evidence Report — Exportable record for audit and governance

- Reports are generated automatically at the end of each simulation.
- Each report includes session metadata, policy version, participant list, and execution summary.
- Evidence reports are exportable as PDF for submission to auditors or regulators.
- Reports are retained indefinitely and available through the organization's evidence archive.

## Designed for regulated and compliance-sensitive environments.

Organizations in regulated industries face increasing pressure to demonstrate operational readiness. Regulators want evidence that teams can actually execute procedures under realistic conditions. Povenos produces that evidence.

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### Financial Services

DORA, SR 11-7, and equivalent frameworks require firms to test operational resilience. Povenos provides structured execution evidence that satisfies audit requirements for third-party operational risk and business continuity testing.

### Healthcare and Life Sciences

HIPAA and FDA operational requirements call for documented procedure validation. Povenos produces audit-ready records of how teams executed response procedures, with timestamps and deviation tracking.

### Critical Infrastructure

NERC CIP, TSA directives, and sector-specific frameworks require demonstration of response capability. Povenos generates the evidence artifacts needed to satisfy both internal auditors and external regulators.

### Enterprise Governance

Board-level operational risk committees require more than attestations. Povenos provides measurable, repeatable evidence that operational readiness programs are functioning and improving over time.

**Policy written.**

**Policy tested.**

**Policy proven.**

Povenos gives organizations proof that their incident response procedures work before they are needed.

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**Learn more at [povenos.io](https://povenos.io)**

or reach us at [hello@povenos.io](mailto:hello@povenos.io)