Evolven - Configuration Risk Intelligence for Native Cloud Environments

Cloud environments operate at high velocity with frequent changes across **multi-cloud deployments, automated pipelines, and dynamic infrastructure**. Traditional tools rely on **static policy enforcement or a canned knowledgebase**, leading to blind spots and slow responses to issues. **Evolven takes a fundamentally different approach**—leveraging **AI/ML-driven analytics** to provide **deep and real-time visibility into configurations and actual changes**, enforce **customizable policies**, and **proactively detect risks before they impact operations**.

How does Evolven help in Native Cloud Environments?

Deep and Granular Visibility into Configurations & Changes: Evolven collects **detailed configuration and change data** across **multi-cloud environments**. It provides **intelligent search** capabilities allowing users to instantly find required information without relying on predefined reports. It prioritizes insights by highlighting critical misconfigurations, security gaps, and drift based on **ML/AI-driven risk analysis**.

Policy-Based Configuration Verification: Evolven supports **industry-standard frameworks (CIS, PCI-DSS, NIST) and fully customizable policies** for configuration verification. Users can define flexible rules, set alerts for deviations, and enforce best practices tailored to their environment.

Early Risk Detection: Using **patented ML/AI-based risk analytics**, Evolven dynamically evaluates deployed changes for potential impact. Evolven assesses risk based on **historical behavior, anomaly detection, and operational patterns**. It integrates into **CI/CD pipelines** and flags high-risk changes before deployment in the production, reducing failed releases and post-deployment incidents.

Drift Detection: Evolven detects multiple types of drift, including **manual drift from automated deployments, deviations from a golden baseline, inconsistencies across cloud regions and accounts,** and more.

Certificate Assurance: Evolven **automatically discovers, monitors, and validates certificates** across all cloud and hybrid environments. It proactively alerts on **expiring, invalid, or misconfigured certificates**, preventing outages and security vulnerabilities.

Root Cause Analysis (RCA): Evolven accelerates troubleshooting by **correlating actual changes with performance degradations, security incidents, and outages**. ML/AI-driven RCA identifies misconfigurations and changes as the most **probable** root cause, eliminating manual guesswork and allowing CloudOps and SecOps teams to **resolve incidents faster**.

Why Evolven is Different

- **Near Real-Time AI/ML Risk Analytics** – Evolven dynamically **assesses risk based on live environment data and historical patterns**, unlike traditional tools that rely on **static rules and knowledgebase**. Other tools only enforce policy-based compliance but **Evolven contextually analyzes configurations and changes to assess operational risks**.

- **Cross-Silo Correlation** – Evolven integrates with **ITSM, CI/CD pipelines, security tools, observability platforms, and automation frameworks**, ensuring **a unified view of risk** across DevOps, SecOps, and IT Operations.
- **Multi-Cloud & Hybrid Ready** – Evolven **monitors AWS, Azure, GCP, Kubernetes, and on-prem environments**, providing **consistent visibility and control across all cloud configurations**.
- **Enterprise-Grade Flexibility & Experience** – Evolven is built for **complex enterprise environments**, supporting **highly dynamic cloud-native architectures and legacy on-prem systems**. It scales to support extensive heterogeneous environments.

Immediate Benefits for Cloud Operations

- **Reduce Change-Related Incidents** – Detect and remediate **high-risk changes** before they cause production failures.
- **Improve Cloud Resilience** – Maintain consistency across **regions, accounts, and automated deployments** to prevent drift-related issues.
- **Accelerate Troubleshooting** – **Near real-time RCA and drift analysis** significantly improve **MTTR**.
- **Enhance Security & Compliance** – Move beyond manual audits with **ML/AI-driven risk prioritization and change reconciliation**.