

EPAM Syndicate

Rule Engine

October 2025



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Client & Market Fit

Problem & Solution Fit

PROBLEM

An enterprise needs to be sure that the environments used for production or development purposes are compliant with legal, industry-related, corporate, and customer-specific requirements, standards and best practices. There is also a need to make sure that the infrastructures are cost-effective and properly optimized.

Finding proper tools, performing checks in different directions, analyzing the findings and immediate reaction to them, proper remediation planning and ensuring continuous compliance can be a challenging task.

These challenges are specifically faced by:

- **Existing businesses** that need inventory and assessment for their legacy infrastructure and planned updates
- **New businesses** that need to make sure that their processes and infrastructure match the standards, are effective and safe

TARGET MARKET

SOLUTION

EPAM Syndicate Rule Engine allows checking and assessing virtual infrastructures in AWS, Azure, GCP infrastructures and Kubernetes clusters against different types of standards, requirements and rulesets.

By default, the solution covers hundreds of security, compliance, utilization and cost effectiveness rules, which match world known standards like GDPR, PCI DSS, CIS Benchmark, and a bunch of others.

The core of the EPAM Syndicate Rule Engine is a mechanism that scans a specified account to find resources that are not compliant with the applied rule set.

The result of a scan is a list of vulnerabilities and metadata of the scan that can be used to generate 20+ analytics reports (delivered as emails) for different organization levels: Chief, Department, Project, Operational.

Value Proposition & Differentiation

VALUE

EPAM Syndicate Rule Engine is a cloud infrastructure assessment solution. It allows checking and assessing virtual infrastructures in AWS, Azure, GCP, infrastructures against different types of standards, requirements and rulesets.

By default, as a cloud rule engine, it covers hundreds of security, compliance, utilization and cost effectiveness rules, which cover world known standards like GDPR, PCI DSS, CIS Benchmark, and a bunch of others.

As a result, it ensures customer solution's fit to corporate, legal, and industry requirements, with high effectiveness, as well as minimized human effort and error possibility.

KEY DIFFERENTIATORS

All-in-One Checks

A single tool to assess against different types of standards and requirements (Security and FinOps out of the box)

Easy to Admin

Easy to configure, manage and review the tool performance

Quick Setup & Launch

The solution is offered in preconfigured state covering major part of customers needs in assessment. Just run and scan (up to 30 minutes to configure)

Full Cycle Support

Configure the product on your own or we can do it for you

Rich & Customizable Rules Library

Includes numerous rule sets for security and FinOps out of the box (constantly updated), and allows own rules creation and managing the set of the rules to be applied.

+ Small cost for underlying AWS infra

Strategic & Tech Availability

Scalability & Usability

QUICK SETUP

- 30 minutes to start
- Self-service or Support-assisted configuration

CONVENIENT CONFIGURATION

- Multi-tenant
- Cross-cloud
- Platform agnostic

RULES MANAGEMENT

- Regular rules review
- Custom rules (own or assisted creation)

SCAN RESULTS PROCESSING

- **Detailed data for analytics** – the scan results are returned as metadata that can be processed by selected tools.
- **Scan data analytics** – the scan results can be analyzed and transformed into over 20 reports facing different types of users.
- **Data obfuscation** – the possibility to cover the details of the vulnerable resources during the processing, without exposing the vulnerabilities to third-party tools.

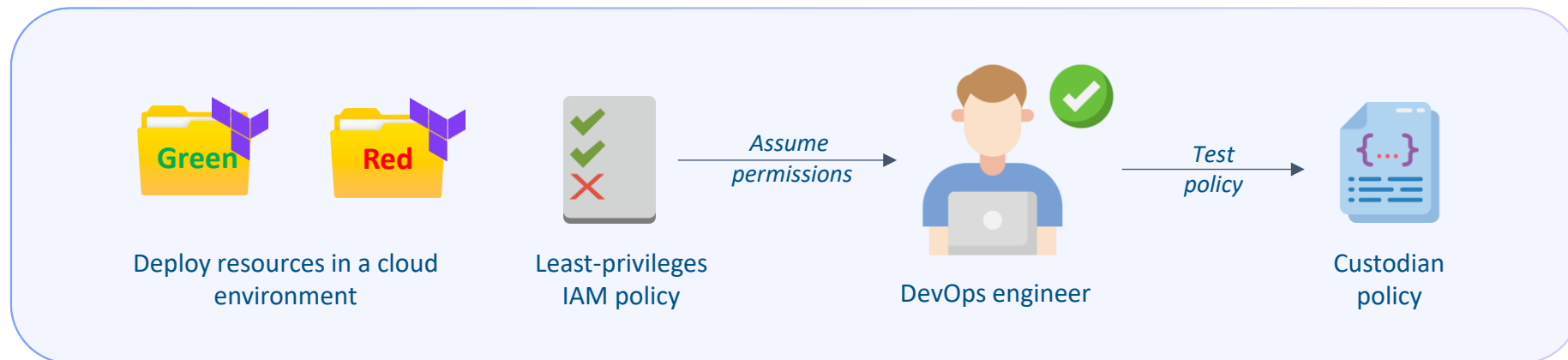
Tech Health & Debt: Quality Assurance

Throughout the SRE product development, the team was facing and resolving a set of challenges, which resulted into building a reliable and easy to maintain product

Problem 1: Absence of quality assurance

Implemented solution:

- Create *red* and *green* Terraform templates per policy
- Create a file with minimal permissions required to run a policy
- Have it manually tested in test environment



Manual testing process

Tech Health & Debt: Quality Assurance

Problem 2: Manual testing of each Terraform template for the full ruleset extremely slow

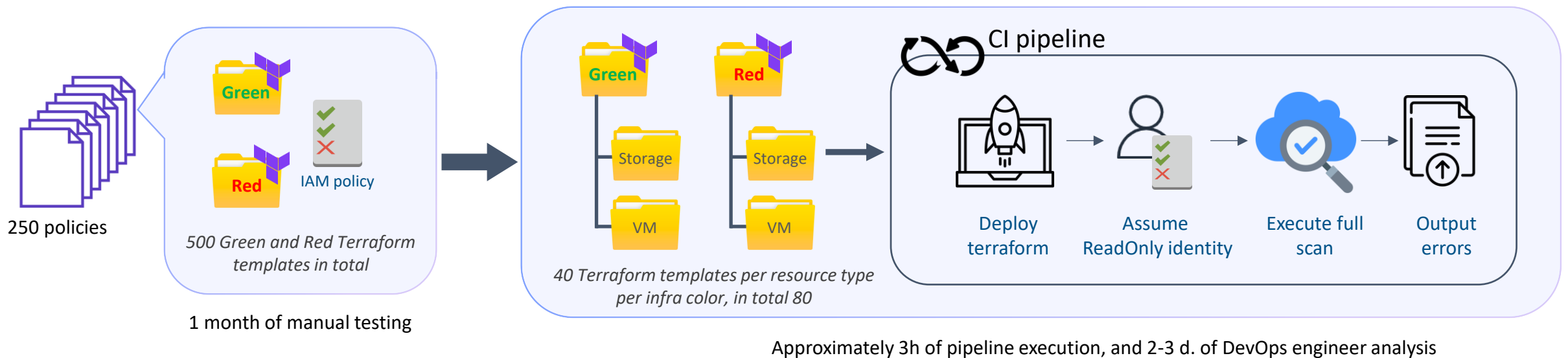
It takes about 1 month for one DevOps engineer to test

Solution:

- Aggregate templates based on policy resource type (storage, vm, sql, etc)
- Automate testing with CI pipeline

Results:

- Accelerated testing from 1 month to 3-4 hours of automatic tests and 2-3 d. by DevOps engineer
- Covers testing of
 - Custodian policies
 - IAM permissions
 - Cloud API
 - Cloud Custodian core

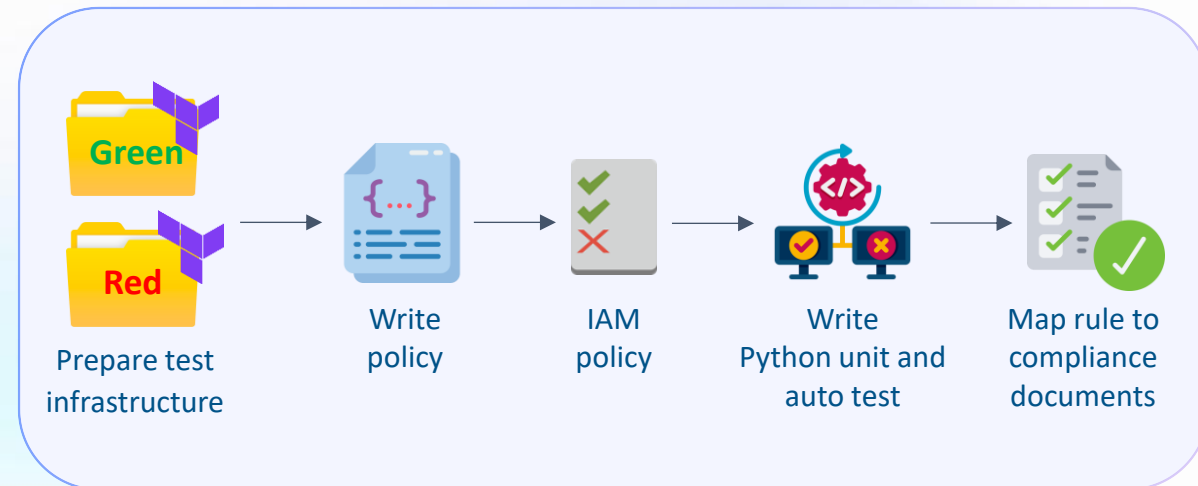


Policy as Code Development Lifecycle

1. Create Terraform template
 - 1.1 Create '*red*' terraform infrastructure
 - 1.2 Create '*green*' terraform infrastructure
2. Create a policy
3. Map policy to cloud events
4. Add metadata to a policy (severity, impact, remediation, etc)
5. Write a Python unit test for policy, record infrastructure
6. Add auto-test for policy
7. Create a file with minimal permissions required to run a policy
8. Map policy to regulation documents and MITRE ATT&CK

Cloud Custodian Rulepacks:

- github.com/epam/ecc-aws-rulepack
- github.com/epam/ecc-azure-rulepack
- github.com/epam/ecc-gcp-rulepack
- github.com/epam/ecc-kubernetes-rulepack



Monthly Release Cycle

Syndicate Rule Engine is updated on a monthly basis. Each release is described and documented, which typically covers the following:

- New features and important updates
- Improvements
- Issue fixes
- Artifact and component updates
- Rulesets updates
- Changelog References

- SRE CLI. Added resource exception management commands (`sre resource exception describe/add/update/delete`)

ISSUE FIXES

- SRE. Fix issue during releasing ruleset
- SRE. Fix version compatibility for SRE CLI
- SRE. Updating role policies issue

ARTIFACT AND COMPONENT UPDATES

Software Components:

- Syndicate Rule Engine API: 5.14.0
- Syndicate Rule Engine CLI: 5.9.0
- Cloud Custodian: 0.9.46
- Defect Dojo: 2.34.2
- Modular API: 4.3.5
- Modular CLI: 2.3.12
- Modular Service: 3.3.2
- Redis: 7.2.3
- MinIO: RELEASE.2025-05-24T17-08-30Z (1.3.0)
- Mongo: 5.0.28
- Vault: 1.19.5 (1.2.1)

Please follow the steps below to update your system to the new release, version 5.14.0:

1. **List available updates:**
`sre-init list` - Displays the available updates and helps confirm the version to update.
2. **Execute the following commands to perform update:**
`sre-init update --same-version --no-backup --no-patch` - Gets new update manager.
`sre-init update` - Starts the update process to a new version.

For more detailed instructions on the update process, refer to the [Update Guide](#).

RULESETS UPDATES

The table below presents statistics on ruleset changes that occurred during the release.

Rulesets Status	AWS	Azure	GCP	Kubernetes	OpenStack
New	0	3	0	0	0
Updated	18	13	0	0	0
Deprecated	3	0	0	0	0
Non-compatible	15 (↓4)	5	63	0	0
Compatible	567 (↑1)	332 (↑3)	230	82	32
Total	582 (↓3)	337	293	82	32

Competitive Landscape: Open Policy Agent vs Cloud Custodian

	Cloud Custodian	Open Policy Agent (OPA)
Policy language	Simple YAML format	More complex Rego language
Terraform support	+	+ Requires creation of a <i>tfplan.json</i> before policy validation
OpenStack support	+ Work in Progress	- Requires middleware that will pass resources description into OpenStack
Kubernetes / OpenShift support	2 modes: Audit and Enforcement	
	<u>In audit mode</u> : can be installed anywhere as a Python3.10 application with a user with ReadOnly permissions <u>In enforcement mode</u> : installs as a Dynamic Admission Controller	Installs as a Dynamic Admission Controller
Kubernetes policy library	81 audit policy	45 audit policies 6 mutation policies
Open Source	CNCF incubating project Highly supported by community. In the last few years, development speed for supporting new platforms has increased.	CNCF graduated project Has enterprise version – Styra, with added support for data sources you already use, without the need to perform any discovery or write and maintain custom data source integrations.
Reporting	<ul style="list-style-type: none"> Built-in Multiple custom EPAM reports 	-
Advantages	<ul style="list-style-type: none"> Supports multiple platforms Policies for IaC do not require execution of <i>'terraform init & plan'</i> For audit mode for K8s and clouds scans can be installed anywhere Custom EPAM tool – Custodian as a Service (CaaS) 	<ul style="list-style-type: none"> Takes any JSON file as input, not limited by a platform Integrated with Terraform Cloud
Disadvantages	<ul style="list-style-type: none"> Can work only with supported platforms, and their resources, but they're open to contribution 	<ul style="list-style-type: none"> Requires middleware to pass input to it

Other Similar Solutions

Qualys: cloud-based security and compliance solutions, offering vulnerability management, compliance monitoring, and threat protection for IT systems and web applications.

Wiz.io: a cloud security platform that identifies risks and vulnerabilities across multi-cloud and containerized environments, providing actionable insights.

Stacklet.io: a cloud governance platform that helps businesses manage security, compliance, and operational efficiency across their cloud infrastructure.

SRE DIFFERENTIATORS

Similar Solutions

- **Rich and customizable rules library** Includes numerous rule sets for security and FinOps out of the box, and allows own rules creation and managing the set of the rules to be applied.
- **Quick installation and setup** needs up to 30 minutes to setup and run the first scan
- **Cost effectiveness** small bills for used AWS infrastructure.

Related AWS Products & Services

Multi cloud security and compliance – being hosted in AWS, Syndicate Rule Engine can be used for compliance check of resources in AWS, Azure, and GCP clouds, as well as within Kubernetes clusters.

Strategic Alignment & Cross-Sell

The SRE is actively delivered not only as a stand-alone solution, but also as a part of complex offerings and combinations

Maestro Cloud Management Platform

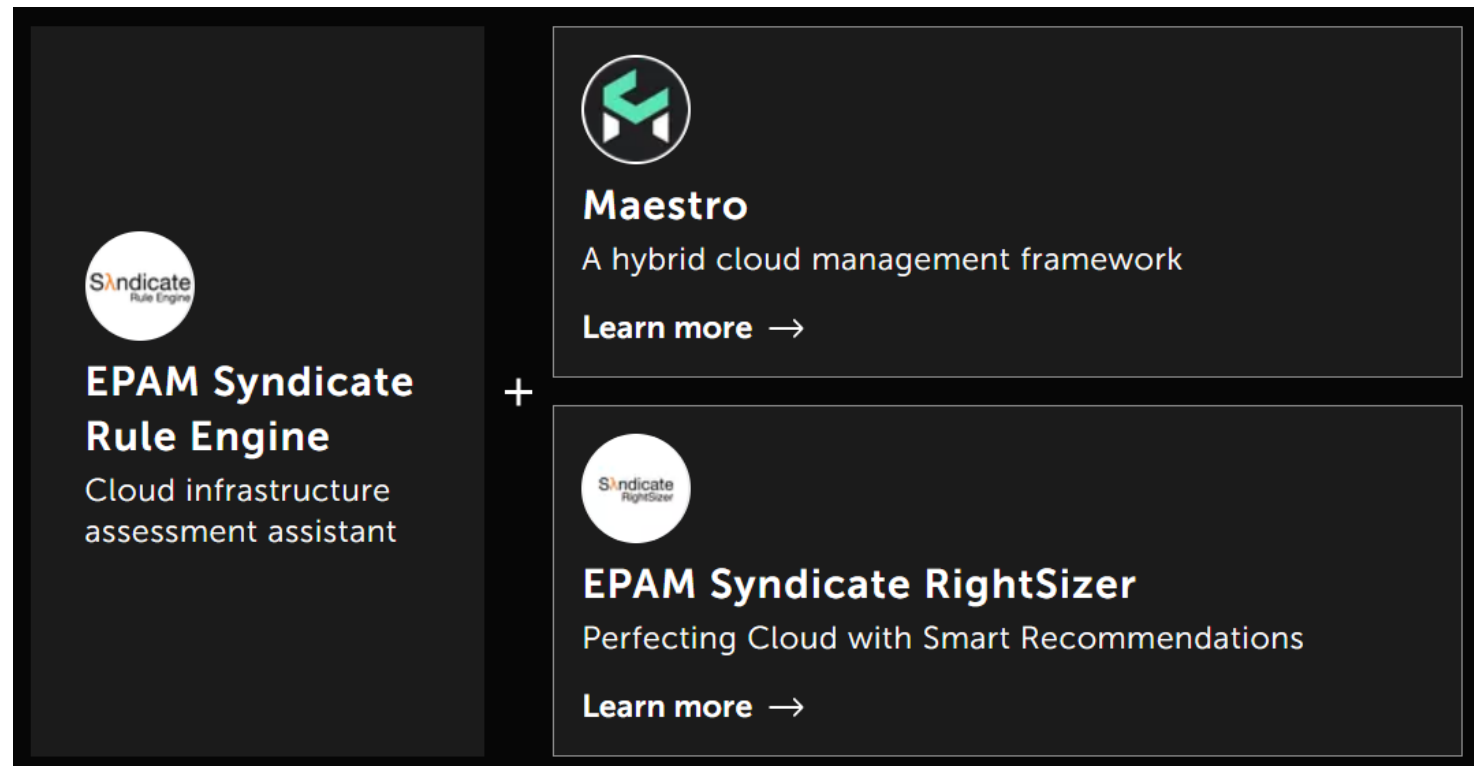
As a component enabling detailed and effective infrastructure assessment

Syndicate Education Platform

As a component for automated tasks check

GovTech Offerings

As a component enabling infrastructure security and compliance



GTM & Enablement

Sales and Marketing Readiness

Product Sales Points

The product available on:

• *AWS Marketplace*



• *EPAM Solutions Hub*



Product on Solutions Hub

The screenshot shows the product page for EPAM Syndicate Rule Engine. It features the product logo, the name 'EPAM Syndicate Rule Engine', and the subtitle 'Cloud infrastructure assessment assistant'. Below this, there are 5 stars and '(46 ratings)' along with an 'OPEN SOURCE' badge. At the bottom, there are two buttons: 'TEAMS' and 'EMAIL'.

The screenshot shows the 'Solution Overview' section of the product page. It includes a navigation bar with 'OVERVIEW', 'DIFFERENTIATORS', 'FEATURES', 'PRICE', 'USE CASES', and 'REVIEWS'. The 'DIFFERENTIATORS' tab is active. The main content area has the heading 'Solution Overview' and a paragraph: 'EPAM Syndicate Rule Engine is a cloud infrastructure assessment solution. It allows checking and assessing virtual infrastructures in AWS, Azure, GCP infrastructures against different types of standards, requirements and rulesets.' Below this is another paragraph: 'By default, as a cloud rule engine, it covers hundreds of security, compliance, utilization and cost effectiveness rules, which cover world known standards like GDPR, PCI DSS, CIS Benchmark, and a bunch of others.'

PRICE STARTS FROM

\$0

[Go to Pricing Plan\(s\)](#) ↓

TYPE

Product

Product Brochure

<epam>

Syndicate Rule Engine: Smart assessment for your Cloud Infrastructure

Syndicate
Rule Engine

EPAM Syndicate Rule Engine is a powerful tool for checking and assessing infrastructures in AWS, Azure, and GCP platforms, as well as in Kubernetes platforms. It ensures that your virtual environments adhere to legal, industry, corporate and customer requirements, standards, and best practices rulesets.

With built-in support for widely recognized standards like GDPR, PCI DSS, and CIS Benchmark, and other world known standards, the solution provides comprehensive coverage for 1000+ rules, helping you maintain a secure and efficient cloud infrastructure.

KEY DIFFERENTIATORS

- **All-in-one check:** A single tool to assess against different types of standards and requirements (Security and FinOps out of the box)
- **Remarkably fast way to get your infrastructure assessed:** Offered in preconfigured state covering major part of customers needs in assessment. Just run and scan.
- **Cross-Platform Unification:** Can be hosted on-premise, or in one of the supported Cloud Providers, enables unifies assessment of all parts of your Hybrid or Multi cloud infrastructure

BENEFITS

- **Quick Start**
- **Best Practices**
- **Easy to Admin**
- **Continuous rules development**
- **Rules customization by request**
- **Full cycle support**

FEATURES

Infrastructure inventory

Get detailed information about the resources comprising your infrastructure.

Rules management

Add rules that face the specifics of your organization, selected standards, etc. Check rules performance, and decide which rules are to be run

Cloud infrastructure security assessment

Get your infrastructure scanned for compliance with industry best practices and security standards.

Detailed data analytics

The scan results are returned as metadata that can be processed by selected tools. They can be analyzed and transformed into over 20 reports facing different types of users.

FinOps scanning

Check if your infrastructure meets the Cloud FinOps best practices and fits the expected financial limits

Data obfuscation

The possibility to cover the details of the vulnerable resources during the processing, without exposing the vulnerabilities to third-party tools

<https://epa.ms/sre-brochure>



Product Pricing

SAAS Pricing

Monthly plans Yearly plans (SAVE 10%)

MOST POPULAR		
Startup Access to a tenant in a multi-tenant setup with all the features included \$999 /mon <ul style="list-style-type: none">✓ Environment Type - Shared✓ Scans amount - 5/mon✓ Tenants - 1 See more ↓	Business Dedicated instance for you only providing enhanced security and extended management features \$3,990 /mon <ul style="list-style-type: none">✓ Environment Type - Dedicated✓ Scans amount - Unlimited✓ Tenants - Unlimited See more ↓	Enterprise Custom offering composed personally for your organization Let's talk <ul style="list-style-type: none">✓ Environment Type - Dedicated✓ Scans amount - Unlimited✓ Tenants - Unlimited See more ↓

OnPrem Pricing

Monthly plans Yearly plans (SAVE 10%)

MOST POPULAR			
Open Source Feel free to deploy the service on your own and be secured with no charges Free	Basic Security Best match for Startups who do not have a dedicated Security Expert \$3,000 /mon <ul style="list-style-type: none">✓ Professional service hours - 24✓ Minimum commitment month - 3	Standard Security Option to have a reliable security support of the software \$6,400 /mon <ul style="list-style-type: none">✓ Professional service hours - 64✓ Minimum commitment month - 3	Zero Tolerance Security Minimize possible loses related to data leaks and infrastructure backdoors of your critical software components \$14,000 /mon <ul style="list-style-type: none">✓ Professional service hours - 160✓ Minimum commitment month - 3

Partnership Potential

SRE on AWS Marketplace:

[AWS Marketplace](#) > [Assessments](#) > [Professional services](#) > EPAM Syndicate Rule Engine



EPAM Syndicate Rule Engine [Info](#)

Sold by: [EPAM Systems, Inc.](#)

Request private offer

The EPAM Syndicate Rule Engine is a solution that allows checking and assessing virtual infrastructures against different types of standards, requirements and rulesets. Hosted in AWS, it can access resources in different...

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Overview

The EPAM Syndicate Rule Engine is a solution that allows checking and assessing virtual infrastructures in AWS, Kubernetes and other public cloud providers against legal, industry, corporate and customer requirements, standards, and best practices rulesets. By default, the solution provides hundreds of security, compliance, utilization, and cost effectiveness rules, which match world known standards like GDPR, PCI DSS, CIS Benchmark, and more.

This allows an enterprise to be sure that the environments used for production or development purposes are compliant with the various rules. Meanwhile, it minimizes the challenges like finding proper tools, performing checks in different directions, analyzing findings and quickly

Highlights

- Customers can use a single tool across multiple clouds for infrastructure inventory, compliance, security, and FinOps best practices.
- EPAM Syndicate Rule Engine uses industry best practices across the most important security standards and compliance packs.
- Customers can configure scans for specific needs and selected standards and following rules performance, decide which to run.

SRE on AWS Solution Finder:



EPAM Syndicate Rule Engine

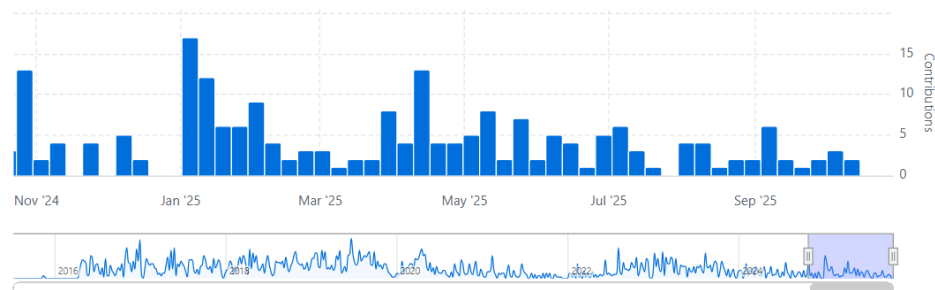
The EPAM Syndicate Rule Engine is a solution that allows checking and assessing virtual infrastructures against different types of standards, requirements and rulesets. Hosted in AWS, it can access resources in different public clouds and provide comprehensive reports on the detected findings.



EPAM AMONG TOP CONTRIBUTORS TO CUSTODIAN OPEN SOURCE

Commits over time

Weekly from Oct 26, 2024 to Oct 26, 2025



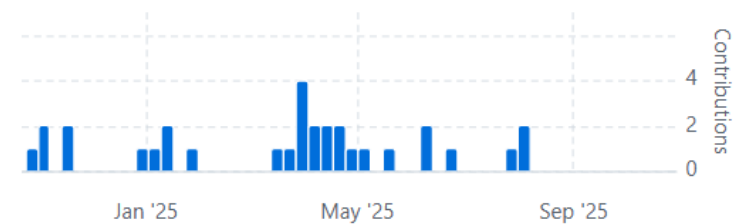
<https://github.com/cloud-custodian/cloud-custodian>



dmytro-afanasiev

31 commits 5,179 ++ 574 --

#3



Want to know more?

Reach out to SupportSyndicateTeam@epam.com

to get more details or a demo