

Reducing Risks in Infrastructure Provisioning with env zero



Introduction

Managing modern cloud infrastructure requires not just efficiency but also a comprehensive approach to addressing risks, enforcing compliance, and maintaining governance.

env zero empowers teams with advanced tools to automate workflows, monitor infrastructure, and gain actionable insights, ensuring secure, compliant, and well-managed operations across all environments.

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env zero allows us to focus on writing and maintaining our Terraform configurations. Speculative plans for pull requests enable our team to quickly review and approve changes to our infrastructure which helps mitigate risk and provides transparency.



Jason Walsh
Sr. Infrastructure Engineer



Our customers see measurable results:

4x

Faster drift reconciliation

6x

Faster deployment cycles

45%

Reduction in IaC-related costs

65%

Faster MTTR for infra incidents

Policy Guardrails

env zero leverages a combination of approval flows and Open Policy Agent (OPA) to create flexible guardrails, empowering organizations to ensure security and compliance, while paving the 'golden path' for IaC usage. By addressing both internal governance needs and external regulatory standards, env zero helps effectively mitigate risks while improving productivity and operational efficiency.

Approval flows

Leverage env zero's [Approval policies](#) to set workflows that require approvals for sensitive environments or cost-heavy deployments, ensuring thorough review and governance.

Policy as Code

Write [governance rules](#) as code to embed compliance into IaC workflows. env zero's Open Policy Agent (OPA) integration enables policies like multi-level approvals, cost thresholds, and resource restrictions, ensuring consistent enforcement.

Monitoring and alerting

Use env zero's [dashboards](#) and [notifications](#) to track policy adherence and address violations or deviations from workflows efficiently.

IaC Security

env zero offers a suite of security features that promote secure IaC usage, protecting cloud infrastructure and sensitive data. These include:

State file encryption

Safeguard your [IaC state files](#) with encryption both at rest and in transit, ensuring that sensitive infrastructure data remains secure and inaccessible to unauthorized entities.

Self-hosted options

env zero enables you to deploy IaC workflows within your network, [host state files on your cloud](#), and run workloads on [your Kubernetes cluster](#), ensuring full control to meet strict security and compliance standards.

Securing sensitive code and data

Securely store and protect sensitive information with [private provider and module registries](#). Utilize [secret management](#) to keep resource configurations and credentials safe at all times. [Lock](#) critical assets to [protect](#) them from accidental deletion.

Granular access controls

Have teams onboard with ease using Single Sign On (SSO) through [SAML](#) or [OIDC](#). Use [dynamic RBAC](#) to define specific roles, responsibilities, and approval flows. Granularly manage access with [multi-level project structure](#) and [environment-level controls](#).

Auditability

Maintain [logs](#) of all changes and access events within your infrastructure, facilitating compliance audits and enabling quick identification of unauthorized activities.

Cloud Asset Management

Cloud Compass, env zero's cloud asset management (CAM) solution, delivers AI-driven insights into your cloud posture and the state of infrastructure management, offering critical information that enables organizations to audit, prioritize, and mitigate risks across their cloud environments.

IaC coverage insights

Cloud Compass uses AI to categorize resources as IaC-managed, Cloud API, or ClickOps, revealing unmanaged resources that may pose security, compliance, or operational risks.

Drift reconciliation and root cause analysis

env zero provides **Drift Detection** to identify discrepancies between IaC and live states. **Drift Cause** extends this by analyzing non-IaC events to determine who made changes, when, and how, ensuring faster resolution and preventing recurring drift.

Risk analysis and scoring








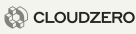




Each unmanaged resource is assigned a severity score based on activity, allowing teams to prioritize which to transition to IaC management.

Cloud cost thresholds

Proactive **budget notifications** alert teams to potential cost overruns, helping them monitor and manage infrastructure expenses effectively and avoid unexpected charges.

Seamless Integrations with Third-party Tools

env zero offers a range of integrations to enhance security, streamline workflows, and manage costs effectively:

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|---|---|--|---|
| PaC and SAST tools Integrate with scanning and compliance solutions to validate IaC security directly in workflows. |   + | Observability platforms Integrate with observability platforms to monitor and analyze infrastructure performance, ensuring proactive identification and resolution of issues. |   + |
| FinOps solutions Use Custom Flows to integrate FinOps tools into IaC workflows, aligning deployments with cloud cost strategies. Enable advanced methodologies like chargeback models to allocate expenses based on team or departmental usage. |     + | Version Control Systems env zero integrates with GitHub, GitLab, Bitbucket, and Azure Repos to enable versioned, approved, and logged deployments aligned with GitOps practices. |     + |

Trusted by innovators and market leaders



See envzero in action.

Schedule a technical demo.

Get a Demo

