Trend Micro

CLOUD ONE™ – CONFORMITY

Cloud security and compliance posture management

Organizations are migrating to cloud computing on a rapid scale, adopting innovations found on cloud platforms and services to help with new or existing cloud projects and software development. For some, traversing this path has been a multi-year endeavor; others are cutting their teeth on cloud technologies for the first time and discovering a world of possibility. However, with increased possibilities come new impacts on the business, as the infrastructure, technology, security, and team dynamics need to adjust to this evolution.

While cloud computing brings an increase in automation; security, compliance, and operations teams now require greater visibility of all the moving parts across their infrastructure and platforms. This increase in complexity can result in cloud-related security incidents due to misconfigurations. What's more, it can leave DevOps and cloud security teams with a trail of unmanaged risk across multi-cloud environments, in addition to performance, compliance, and visibility concerns. This creates the perfect storm to impact the business' reputation and bottom line.

INTRODUCING TREND MICRO CLOUD ONE™ – CONFORMITY

Cloud service providers are offering hundreds of technical services on their platforms that require unique skills, alignment, and security—opening up new opportunities to help application teams build better software. In turn, this opens up new opportunities beyond traditional security to further incorporate security provisions that harden cloud environments and improve gaps in protection with cloud security posture management (CSPM).

Conformity provides continuous security, compliance, and governance in a SaaS platform, designed to help you manage misconfigurations of cloud resources (security posture) in a multi-cloud environment.

Conformity helps your DevOps teams, cybersecurity, and compliance professionals build secure, ship fast, and run anywhere, with the assurance that your cloud infrastructure is configured and deployed securely—helping to protect your systems and sensitive data.

> "Nearly all successful attacks on cloud services are the result of customer misconfiguration, mismanagement, and mistakes."
>
> **Neil MacDonald**
> Innovation Insight for Cloud Security Posture Management
> Published: 25 January 2019
> ID: G00377795

> "Having Conformity continuously monitor our AWS infrastructure and notify us in real time of any critical issues ensures we remain compliant with best practices, and any potential threats to our applications or data are resolved before they impact our business."
>
> **Team Lead of Information Security, GrubHub**

HOW DOES CONFORMITY WORK?

Conformity uses a custom access policy to view your cloud account metadata—there is no read or write access to your data.

Conformity only accesses the metadata associated with your cloud infrastructure. For example, we recognize that your AWS account has 12 Amazon S3 buckets and 20 Amazon EC2 instances. However, Trend Micro cannot see the data/applications associated with these resources, and accesses your account via the AWS API, therefore your cloud bill does not increase.

| Security | Reliability | Performance Efficiency | Cost Optimization | Operational Excellence |
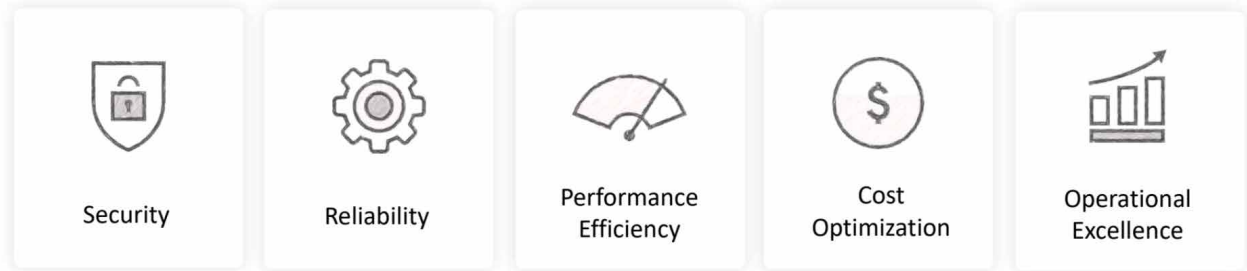
WHAT SETS US APART

World-class technology leaders are putting tremendous effort into building the most secured, optimized, resilient, and scalable cloud platform for their businesses. Ultimately, this helps to improve software delivery performance, which is the key goal for engineering groups. The initial awareness of your cloud posture management often starts by asking: What is the developer doing, and if things are not being done properly, how can I influence this?

1. Continuously build your cloud infrastructure to best practices

Conformity maps back to the cloud service providers best practice framework. For example, for AWS, the Well Architected Framework forms the foundation of the compliance scores shown throughout Conformity, and each rule and remediation step clearly displays which pillar it supports.

The Well-Architected Framework is made of up five pillars: Operational Excellence, Security, Reliability, Performance Efficiency, and Cost Optimization. Architecting and maintaining your environments in line with the Well-Architected Framework creates best-of-breed infrastructure and prevents common technical pitfalls. This ensures your infrastructure is truly benefiting from all of the advantages of your cloud services platform.

Fast Facts

- Extensive depth and breadth of coverage on AWS services with Conformity rules.

- 600+ rules out of the box, no need to build or maintain your own.

- Extremely actionable and easy to use—remediation manual guides, plus auto-remediation throughout the platform.

- Easy interoperability with key integrations like Slack®, ServiceNow®, JIRA®, PagerDuty®, and more.

- Only tool that maps to the AWS Well-Architected Framework.

- Near real-time alerting—reduces lag time and improves productivity.
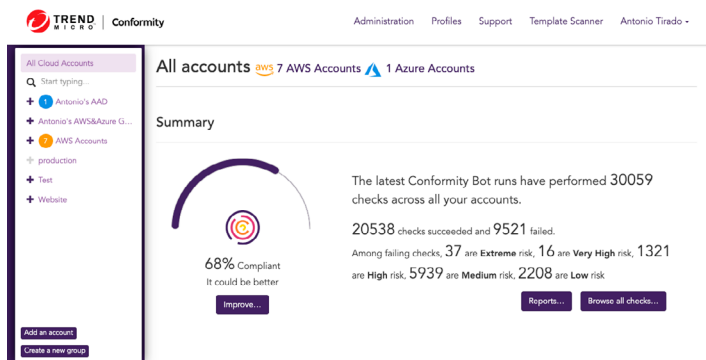
2. Instill confidence in developers by providing guardrails that allow for agile development and a secure, optimized cloud infrastructure

Conformity has the leading Knowledge Base catalogue of infrastructure rules and controls directly available within its platform. The continually growing Knowledge Base contains 600+ ready-to-go checks that run against your cloud accounts, and the simple, step-by-step remediation rules to rectify any failures. These rules and controls cover both AWS and Microsoft® Azure™, as well as customized remediation guidelines.

This helps development teams and security professionals to continuously monitor for adherence to best practices and compliance standards—from build pipeline to runtime.

Each rule explains the logic and reasoning behind it and includes steps for manual audits and remediation, empowering all developers and engineers to understand the underlying vulnerabilities, regardless of their technical expertise.

3. Manage compliance at scale in the cloud

Conformity allows customers to monitor activity and changes to their environment in real time. Our real-time threat monitoring is extremely valuable, as it provides visibility and insight into the dynamic cloud environment.

Additionally, Conformity allows you to run exportable reports on your cloud environments for internal and external audits against benchmark standards.

You can also instantly see the status of your environments against the related rules in Conformity. This provides continuous assurance that your infrastructure is secure, optimized, and compliant.
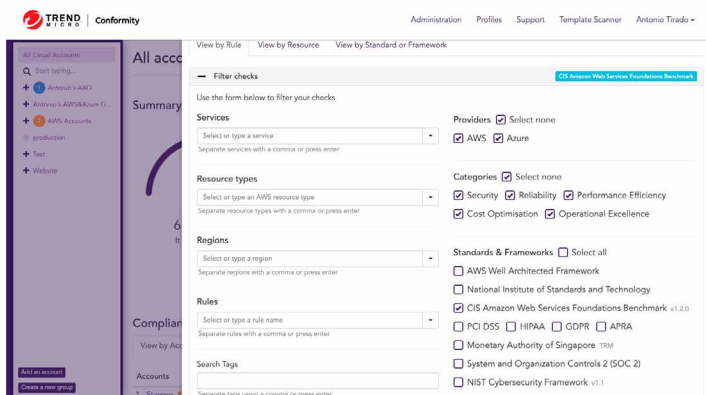
Key Advantages

Be secured.

Complete visibility of your AWS and Azure infrastructure with a single, multi-cloud dashboard. View your risk status and violations with clear remediation steps and immediate resolution.

Be compliant.

Industry standards and compliance requirements are constantly changing. Benefit from continuous scans against compliance and industry standards, including the SOC2, National Institute of Standards and Technology (NIST), Center for Internet Security (CIS), Payment Card Industry Data Security Standard (PCI DSS), General Data Protection Regulation (GDPR), and Health Insurance Portability and Accountability Act (HIPAA).
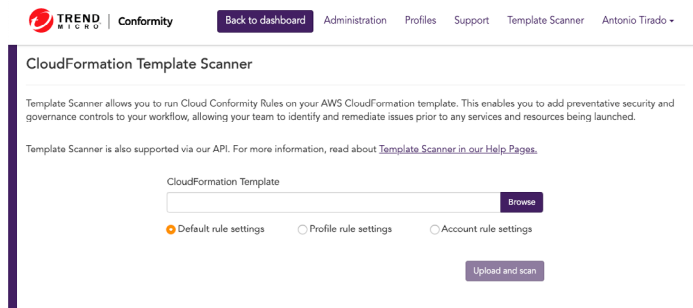
Be assured.

Fully API-enabled, automation removes the human element in repetitive tasks that are prone to error. Embrace DevOps without the fear of misconfiguration introducing security gaps in your cloud infrastructure.

SETUP CONFORMITY IN MINUTES

Conformity has been designed so you can be up and running with your own Conformity account within five minutes. Once you have connected and configured one AWS or Azure account, replicating the rules and communication preferences across other accounts is easy and provides application development teams with the proper security guardrails.

GET THE BEST RULES FOR YOUR NEEDS

Conformity currently has over 520 automated best practice rules for AWS, and over 40 for Azure Beta. We are adding new rules every week, so this list is constantly growing. Use the Cloud Formation Template Scanner to run Conformity rules on your AWS Cloud Formation template.

CUSTOMIZE YOUR OWN RULES

If you're keen to add your own rules, custom rules can be created via AWS Config with the results ingested and displayed in Conformity. Other custom rule sets can be ingested by Conformity. See https://github.com/cloudconformity for APIs and documentation.

ADHERE TO BEST PRACTICES

The AWS Well-Architected Framework and CIS Microsoft Azure Foundations define best practices you should follow to ensure your infrastructure is secure, reliable, highly available, and cost effective. Conformity automates the auditing of your infrastructure against these frameworks.

MEET WORKFLOW AND COMPLIANCE REQUIREMENTS

Conformity currently integrates with the following communication channels, workflow systems, and compliance standards:

> "Conformity has given Hansen Technologies a level of assurance as we continue to grow in AWS. The product provides us with greater visibility, improved performance, and optimized costs."
>
> Matthew Gurrie,
> CIO, Hansen Technologies

TREND MICRO™

Securing Your Connected World