

MANAGEMENT TOOLS

Using Recommenders to keep your cloud running optimally



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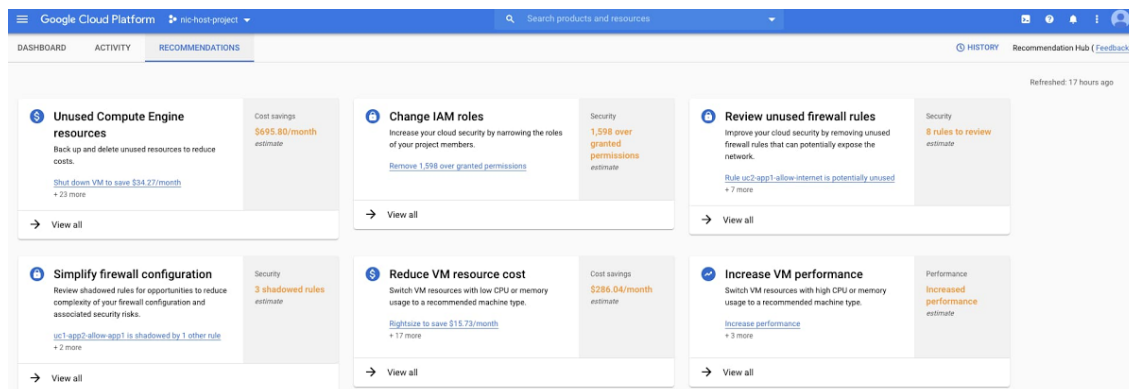
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our new Recommendation Hub, which highlights proactive recommendations in one place for you to view and act on.

Recommendation Hub is vital to bringing all of these optimization efforts together for you to see and take action on. Not only does the Hub capture the most impactful opportunities in your projects, but it also helps guide you across Google Cloud in general. Whether it's networking, security, compute and storage resources, cost and billing, or Anthos, the Recommendation Hub will give you the tools you need to prioritize, analyze, and act on all of these valuable insights and recommendations.



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Recommendation Hub and Recommenders are also part of a bigger initiative at Google Cloud to use machine learning and analytics to help you make better decisions, drive



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real bonus was that it only took a matter of seconds for Google Cloud to shine light on these idle VMs.” - Hrushikesh Kulkarni, Associate Director of Technology, VuClip

Secure your network with Firewall Insights

Firewall rule management is a constant challenge for security and network engineers. Firewall configuration can grow in complexity as more accesses are added over time, making it really hard to maintain. **Firewall Insights**, now in beta, is a new tool that helps secure your cloud environment by detecting and providing easy remediation options for a number of key firewall issues, including:

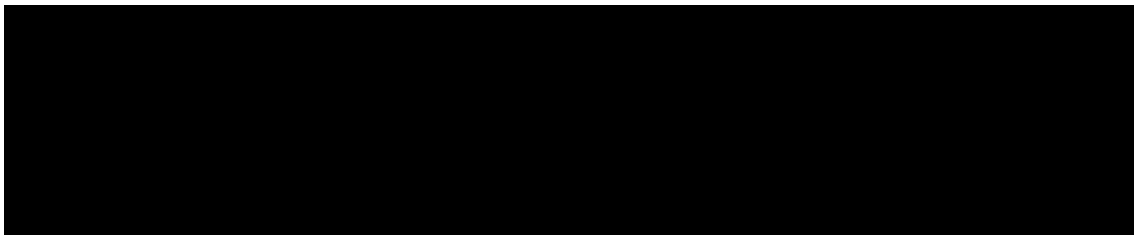
- Shadowed rules that can't be reached during firewall rule evaluation because they overlap with higher-priority rules
- Unnecessary allow rules, open ports and IP ranges
- Sudden hit increases on firewall rules (and a drill down into the source of the traffic) that signal an emerging attack
- Redundant firewall rules, which can be cleaned up to reduce the total firewall rule count
- Deny firewall rules with hit counts from sources trying to access unauthorized IP ranges and ports

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Lock down unwanted access with IAM Recommender

In addition to firewall rules, permissions play another crucial role in your overall security posture. With **IAM Recommender**, you can remove unwanted access to Google Cloud resources with smart access control recommendations. IAM Recommender uses machine learning to automatically detect overly permissive access and help security teams figure out what permissions their project members really need. Not only does this help establish least-privilege best practices and reduce your organization's security risks, but also prevents accidental changes to your data and cloud infrastructure. Here's a video to show you how it works:

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- **Committed Use Discount (CUD) maximizer:** Keep your cloud costs on budget by making sure you utilize your discounts to the fullest.

Security

- **GKE RBAC:** Assess and remove over-granted permissions.
- **Security keys:** Protect high-risk users against phishing by implementing phone-as-a-security-key.

Reliability, availability

- **Compute Engine predictive auto-scaling:** Reduce latency and costs by scaling compute proactively.
- **VPN tunnel:** Proactively detect overutilized tunnels to prevent network packet loss.

With Recommenders, we're trying to take the guesswork and toil out of keeping your cloud running optimally. To learn more about how Recommenders can help you, please check out our upcoming session "[Cloud is Complex. Managing it Shouldn't Be](#)" during our Next OnAir digital event.



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