Google Cloud

Google's Security & Compliance Story

Every day, Google keeps billions of people safe online. We protect our users with industry-leading security, responsible data practices, and easy-to-use privacy controls.

Project Shield

Created by Google Cloud and Jigsaw and powered by Google Cloud Armor, Project Shield provides free unlimited protection against Distributed Denial of Service (DDoS) attacks, a type of digital attack used to censor information by taking websites offline. Project Shield filters out malicious traffic using Google's infrastructure and cloud-native DDoS tools to protect eligible websites. If an eligible website is targeted by a DDoS attack, our servers will block attacking traffic to keep the website up and running.

Project Zero

Project Zero is Google's applied security research team. The team's mission is to make newly discovered software and hardware exploits that are used globally by criminals and state-based threat actors more costly than they are today. This team is dedicated to performing vulnerability research on popular software and hardware in order to patch serious security vulnerabilities before they can be exploited.

Gmail Spam Filtering

Gmail's filtering capabilities and advanced security protections help billions of people stay safe online and interact more efficiently each day. We built a strong foundation, and over time, we've continued to improve our systems. We now block more than 99.9% of spam, phishing, and malware from reaching users' inboxes. Spam filters function to stop unwanted, unsolicited, or dangerous messages from ever reaching end users, allowing them to, instead, focus on the content they wish to receive.

Vulnerability Reward Program

Google has long sustained a close relationship with the security research community. To honor all the cutting-edge external contributions that help us keep users safe, we maintain a Vulnerability Reward Program for Google-owned and Alphabet (Bet) subsidiary websites. The program has been running continuously since November 2010. The premise of the program is to reward good actors who identify Google vulnerabilities with a monetary payment to help us maintain our systems' security.

Google Cloud

Empowering Customers With Cloud-Native Security
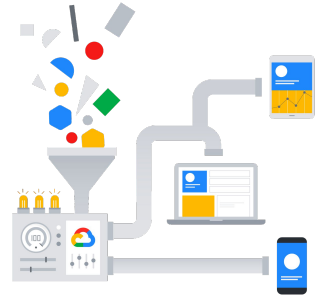
Apply the best of Google to your security in the cloud, on-premises, or in hybrid deployments so you can identify, protect, detect, respond, and recover from cyber threats targeting your business and users.

Security Products/Services

Cloud Data Loss Prevention
Fully-managed service designed to help you discover, classify, and protect your most sensitive data.

VPC Service Controls
Help mitigate the risk of data exfiltration from Google Cloud services via the deployment of security perimeters around managed APIs.

BeyondCorp Enterprise
Zero-trust solution that enables secure access to applications and resources with integrated threat and data protection.

ReCAPTCHA
Protects your website from fraudulent activity, spam, and abuse without creating friction.

Defense in Depth at Scale

We continue to grow and enhance our products to empower you with best-in-class security. In addition to the products listed above, please make sure to check out *Cloud Armor* for defense against web and DDOS attacks, *Binary Authorization* for trusted container deployment, *Security Command Center* for health analytics and alerting on threats, and *Confidential Computing* for encryption of data in use as well as our many other security offerings.

Security Solutions

Security Analytics and Operations
- Enhanced threat detection and investigation with intelligent data fusion
- Threat identification with advanced rules engine
- Continuous IoC matching and retrospective analysis of security telemetry
- Scalability with elastic security telemetry storage

Security and Resilience Framework
- Address each phase of the cybersecurity life cycle
- Protect critical assets in cloud and on-premises
- Modernize security protections to help maintain continuous operations
- Enable rapid recovery wherever your assets reside

Risk and Compliance as Code
- Assert infrastructure and policies as code
- Establish secure guardrails
- Detect drift and noncompliance
- Continuously evaluate risk

Web Application and API Protection
- Protect against new and existing threats to web applications and APIs
- Guard apps and APIs in the cloud, on-premises, or in hybrid deployments
- Simplify operations with consolidated management and visibility
- Save up to 70% over competing solutions