



Our advancements in cybersecurity

Our approach

Protect people, businesses, and governments

Security is the cornerstone of our product strategy. Which is why all our products have built-in protections that make them secure by default.

[Learn more](#)

Empower society to address cybersecurity risks

We empower societies to unlock the potential of open source, and share our knowledge and expertise transparently with the industry to keep ecosystems safer.

[Learn more](#)

Advance future technologies

We want to protect societies from the next generation of cyber threats. Building on our AI expertise, we are designing the next wave of architectures to push the boundaries of security innovation.

[Learn more](#)

Protecting people

Empowering societies

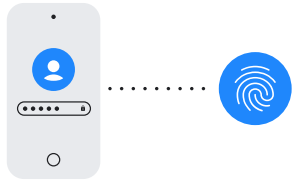
Advancing technology

Workforce skilling

Protect people, businesses, and governments

We build advanced security into every stage of our product development and cloud infrastructure. This enables organizations to modernize and strengthen their IT security while helping users protect their personal information and access the internet safely.

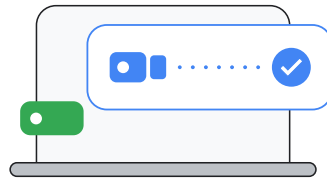




Passkeys

With passkeys, you can skip your password for an easier and more secure sign-in experience, using your fingerprint, face scan, or screen lock. Passkeys are an industry standard and work across all your devices and platforms.

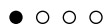
[Learn more](#)



Advanced Protection Program

See how we're safeguarding high-visibility users such as journalists and government officials with sensitive information from targeted attacks.

[Learn more](#)



IoT Security

We are helping advance the future of connected device security through our product development, transparency criteria, and industry partnerships.

[View pdf](#)

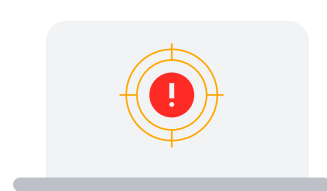
Empower society to address cybersecurity risks

We're partnering with cybersecurity leaders, governments, and security communities to advance global standards that put user protections first, combat disinformation, and share threat intelligence to keep the internet open and secure for everyone.



Strengthening the cyber workforce

We're empowering the cyber workforce by sharing our expertise, expanding career pathways, and forming strong industry and government partnerships to help launch more careers in cybersecurity — irrespective of experience or background — and build a safer world for all.



Threat Analysis Group

TAG works to counter targeted and government-backed hacking against Google and our users from the world's most sophisticated adversaries.



Open Source Security

Open source allows for a more collaborative and innovative world. We regularly open source our tooling and frameworks to make software supply chain security available to everyone.

[Learn more](#)[Learn more](#)[Download pdf](#) 

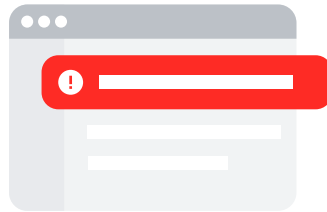
Advance **future technologies**

We work to safeguard vulnerable users from online attacks while protecting their privacy through advancements in AI, hardware, and cloud computing, and while driving international standards for quantum computing.



Secure AI Framework

Generative AI has immense potential, but clear industry standards and effective risk management are required to build and deploy it responsibly. That's why we introduced the Secure AI Framework (SAIF), a conceptual framework to secure AI systems.

[Learn more](#)

AI-enabled secure products

Automatic security protections are built into our products to deliver safe experiences to all users. Machine learning helps Gmail block spam, phishing, and malware from showing up in your inbox with over 99.9% accuracy.

[Learn more](#)

Post-quantum cryptography

We develop cryptographic systems that safeguard against the breaking of public-key cryptosystems. The National Institute of Standards and Technology has selected a submission with Google's involvement for standardization.

[Learn more](#)

Collaboration to make the internet safer for everyone

Cybersecurity is a team sport, and when we work together, we can spur innovation and advance best practices that benefit all in this complex, rapidly evolving landscape.

Meet the hackers keeping people safe online

Five elite security teams. Six never-before-told stories. Go behind the scenes to see how Google keeps more people safe online than anyone else in the world.

[Watch the series](#)



HACKING GOOGLE SERIES TRAILER

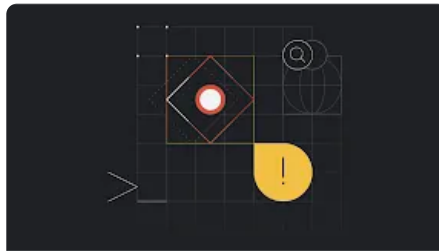
18:25



Google Safety and Engineering Centers

Our teams work across privacy, security, content responsibility, and family safety around the world. Our GSECs help guide this work, led by experienced engineers, policy specialists, and subject matter experts.

[Learn more](#)



Google Bug Hunters

Our global community of Bug Hunters peeks under the hood of our products to keep them working the way they're intended and make the internet a safer place.

[Learn more](#)



Google Cybersecurity Action Team

We deploy the world's premier security advisory team to support the security and digital transformation of governments, critical infrastructure, enterprises, and small businesses.

[Learn more](#)

Strengthening the cybersecurity workforce to help **build a safer world for all**

Global cyberattacks are rising, placing critical infrastructure at greater risk. We're helping to build a robust cyber workforce by enabling careers in cybersecurity, regardless of background or experience. We can empower the future cyber workforce by sharing our expertise, expanding career pathways, and forming strong industry partnerships to help protect critical infrastructure through nationwide initiatives.



GOOGLE CYBERSECURITY CERTIFICATE

Sharing our expertise to strengthen the cybersecurity workforce

Built and taught by cybersecurity experts at Google, our [Google Cybersecurity Certificate](#) will provide people with in-demand skills needed for entry-level cybersecurity jobs. This online training program requires no prior experience and can be completed in under 6 months. Upon completion, Certificate graduates can connect with over 150 employers in our [Google Career Certificates Employer Consortium](#).

[Learn more](#)



GOOGLE CYBER CLINICS FUND

Creating new pathways to gain practical cybersecurity experience

[Google.org](#), in collaboration with the [Consortium of Cybersecurity Clinics](#), will grant university and community college-based cybersecurity clinics awards of up to \$1 million through an [open call](#), helping thousands of students pursue careers in the high-demand field of cybersecurity while providing them with real-world experience safeguarding critical U.S. infrastructure such as hospitals, schools, and energy grids.

[Learn more](#)



CYBERSECURITY RESEARCH PROGRAM

Advanced cybersecurity research and training program

Google, in collaboration with four leading New York City universities, launched a multiyear research program to support scientific advances in cybersecurity. The program will select 30 research projects annually, with a focus on raising standards of online privacy, safety, and security. The program will also support growing advanced cybersecurity training efforts that champion the inclusion of underrepresented groups in cybersecurity.

[Learn more](#)

Uniting for a safer tomorrow

Transforming the cybersecurity workforce will not happen overnight but through ongoing efforts across public, private, and government sectors. Google, in partnership with the leading cybersecurity community organizations, commits to building a robust, more inclusive cyber workforce — one where anyone who is interested in the field can access knowledge, build their skills, feel they belong, and expand their professional network. Learn more from our partners.



girlsecurity.





Google is protecting the critical infrastructure we all rely on

Learn more about our advances in protecting America, businesses, education, and more.

[Go to Protecting Critical Infrastructure](#)

Follow us



Related sites

[Families](#)

[Transparency Center](#)

[Partners](#)

Google

[About Google](#)

[Google products](#)

[Privacy policy](#)

[Terms](#)

[? Help](#)