Ubuntu Pro FIPS for Google Cloud compliance

For Google Cloud compliance in production environments.

Ubuntu Pro FIPS is the first and only FIPS 140-2 certified image for Google Cloud. Built upon the enhanced stability and security features of Ubuntu Pro, Ubuntu FIPS is a critical foundation for federal programs and government contractors.

What's in Ubuntu Pro FIPS?

FIPS compliant by default

FIPS 140-2 Level 1 modules pre-enabled out of the box with Ubuntu Pro FIPS. No extra configuration steps required.

FedRAMP compliance

Operate environments under the FedRAMP compliance regime, with FIPS 140-2 Level 1 certified modules.

CIS and DISA STIG

For companies looking to leverage industry benchmarks for hardening, Ubuntu Pro makes two leading implementation guides available.

HIPAA, PCI, ISO compliance

Healthcare, financial services, insurance and other organisations that operate in heavily-regulated industries ensure compliance with HIPAA, PCI and ISO.

Predictable and Secure

Ubuntu Pro FIPS is based on Ubuntu Pro premium images, with Google Cloud optimisations built in and the most comprehensive open source security coverage in the industry.

Common Criteria EAL2 certification

Ubuntu Pro FIPS has been evaluated to assurance level EAL2, with Common Criteria certification.

Open source security

Ubuntu Pro adds security coverage for the most important open source applications like Apache Kafka, NGINX, MongoDB, Redis and PostgreSQL...

10-year lifetime

Canonical backs Ubuntu Pro FIPS for 10 years, ensuring security updates are available throughout, with a guaranteed upgrade path.

Priced for the cloud

Ubuntu Pro FIPS pricing tracks the underlying compute cost, starting at under $0.01 for the smallest f1-micro instance type, and ramping down to less than 1% of hourly compute.

Let's talk Ubuntu FIPS

Launch Ubuntu Pro FIPS for Google Cloud

Ubuntu Pro FIPS 18.04 LTS

Ubuntu Pro FIPS 18.04 LTS includes an Google Cloud-optimised FIPS-certified 4.15 kernel and other FIPS certified modules pre-enabled out of the box. Ubuntu Pro FIPS provides extended security maintenance through April 2028.

Launch now

Ubuntu Pro FIPS 20.04 LTS

Ubuntu 16.04 LTS includes FIPS-certified 5.4 kernel and other FIPS certified modules pre-enabled out of the box. Ubuntu Pro FIPS provides extended security maintenance through April 2030.

Launch now

Google Cloud compliance made easy

Ubuntu Pro FIPS -
Google Cloud compliance made easy

With Google Cloud, US government agencies and their partners have been able to combine unparalleled flexibility, breakthrough innovation, world class security and Google Cloud compliance.

Watch the webinar

However when it comes to running a secure and compliant enterprise Linux on Google Cloud, IT departments are often left with expensive options that sacrifice innovation for compliance. Watch this video on demand to see how easy for government agencies to consume Linux on Google Cloud.

FIPS certified Ubuntu components for Google Cloud

Ubuntu LTS	FIPS certified component	Description	Version	CMVP Certificate
18.04	Google Cloud Kernel	Kernel optimised for use in Google Cloud clouds	4.15	3954
18.04	OpenSSL	General purpose cryptographic library that includes TLS implementation	1.1.1	3622
18.04	OpenSSH client	SSH server application for operating systems	7.9p1	3633
18.04	OpenSSH server	SSH client application for operating systems	7.9p1	3632
18.04	StrongSWAN	IPSec based VPN solution library	5.6.2	3648
18.04	Libgcrypt	The GNUPG cryptographic general purpose library (provides fully certified full disk encryption)	1.8.1	3748
20.04	Linux kernel (generic)	The Linux kernel cryptographic library	5.4.0-1021	4127
20.04	OpenSSL, OpenSSH client, OpenSSH server	General purpose cryptographic library that includes TLS implementation	1:8.2p1	3966
20.04	StrongSWAN	IPSec based VPN solution library	5.8.2	4046

Read the Ubuntu Pro FIPS datasheet

Pricing

Machine type	vCPUs	Memory	VM Cost	Ubuntu Pro Cost	Total Cost (/hour)
n1-standard-1	1	3.75GB	$0.047	$0.002	$0.049
e2-standard-2	2	8GB	$0.067	$0.004	$0.071
n2d-standard-4	4	16GB	$0.169	$0.008	$0.177
n2-standard-8	8	32GB	$0.389	$0.014	$0.403
n2d-standard-16	16	64GB	$0.676	$0.026	$0.702
e2-standard-32	32	128GB	$1.072	$0.050	$1.122

For complete pricing, see Ubuntu Pro pricing on the Google Cloud >

Get Ubuntu Pro FIPS on Google Cloud now: 18.04 LTS | 20.04 LTS | 22.04 LTS
More about Ubuntu Pro FIPS: Read the datasheet

Google Cloud compliance and the most comprehensive open source security coverage - that's Ubuntu Pro

Ubuntu Pro FIPS images are based on Ubuntu Pro premium images, with security coverage included for the entire collection of software packages shipped with Ubuntu, tracking high and critical CVEs. This makes it ideal for companies that have embraced open source for their new products and need to ensure security for production and mission-critical workloads.

Learn more about Ubuntu Pro on Google Cloud

Getting the best of Ubuntu Pro for Google Cloud

Operating open source securely

It's no longer just Linux, Apache, MySQL and PHP — open source ecosystems like Java, NodeJS, Python and Go are everywhere in the enterprise, as are modern workloads like Kafka, Elasticsearch and Cassandra. In opting for open source, development teams in every organisation are optimising for velocity, flexibility and ideal economics, and the result has been an incredible ramp up in software product delivery.

Watch the webinar

Optimised scaling in the cloud

Building enterprise-grade infrastructure with open source quickly with stability seems impossible, but Ubuntu Pro for Google Cloud allows organisations to do just that. Ubuntu Pro is a premium image delivering the most comprehensive security and compliance features and is suitable for small to large-scale Linux enterprise operations offering pay-as-you-go billing on a single invoice through Google Cloud. This piece explains the new ways Ubuntu and Google Cloud are driving reliability and security at speed and scale.

Download the e-book

Canonical