

Modern infrastructure, modern protection: server security for what's next

Build a secure future with infrastructure
prepared from the silicon up



Just as your organization strives to innovate and grow, so does the threat landscape. HPE ProLiant Compute Gen12 servers with HPE iLO 7 help you outsmart evolving risks so you can stay focused on what matters.

Risks of aging infrastructure

Silent gaps that legacy infrastructure may miss:

- Firmware drift between updates
- Unvalidated third-party components
- Rootkit behavior at the silicon level
- Offline configuration changes
- Credential tampering during downtime

HPE ProLiant Compute Gen12 with HPE iLO 7 helps close these gaps with out-of-band visibility—even when the OS is offline.

The case for modern server security

Today's threat landscape wears more disguises. Those threats can come from unexpected angles with tactics that are harder to spot—let alone stop—with attacks increasingly targeting firmware and supply chains. Secure infrastructure means protecting every layer at every moment of its lifecycle, while keeping up with compliance demands and operational complexity.

But traditional defenses like firewalls and endpoint tools weren't designed to address what happens before the OS boots or when servers sit idle. And it's increasingly unrealistic for manual security processes such as patching, updates, and configuration management to keep up with the speed and scale of modern operations.

The result? Gaps that quietly grow across hybrid and multi-gen environments.

IT decision-makers are confronted with a variety of questions: How do you secure what isn't always visible? What's the long-term cost of drifting out of compliance? How do you modernize infrastructure without adding new risk or burden?

The first step is moving from layered security to embedded protection—built into the platform, future-ready, and active from day one.

Take control with a platform built for security at every layer

Keeping infrastructure secure gets harder as environments expand across sites, workloads, and deployment models. HPE's leadership in server security is built on decades of innovation—from silicon root of trust to secure boot to complete lifecycle protection.

With HPE ProLiant Compute Gen12, that foundation gets even stronger. HPE iLO 7 represents the next step in this evolution, giving IT teams powerful, built-in tools to detect threats early, enforce policies consistently, and respond quickly when something goes wrong.

Rather than layering security on top of the stack, HPE integrates it at every level. HPE iLO 7 runs on its own isolated silicon and remains active even when the host OS is down, giving teams continuous insight into server health, integrity, and exposure.

Advanced features that expand platform protection:

- Secure enclave architecture for encryption key isolation
- Real-time dashboards for threat detection
- Configuration locks and TLS-only encryption
- Machine-specific firmware verification
- Active security even when the server is powered off

These capabilities deliver built-in intelligence that starts protecting before the OS even boots.

The new secure enclave architecture stores credentials safely and helps prevent tampering. Meanwhile, real-time dashboards, machine-specific firmware updates, and configuration locks make secure operations easier to maintain at scale.

By bringing together hardware, firmware, and management in one resilient platform, you can modernize with confidence, knowing security is already built in and ready to support you from day one.

A simple path to strong protection

Upgrading infrastructure often comes with concerns about disruption, inconsistency, or management overhead. But HPE iLO 7 is designed to ease that transition, making secure operations easier to maintain across mixed environments.

With its real-time dashboards, machine-specific firmware validation, and centralized credential control, HPE iLO 7 gives IT teams greater confidence that policies are enforced and threats are visible, no matter how fast the environment grows.

Whether you're adding new servers or refreshing in stages, HPE iLO 7 helps you maintain and strengthen your security with deeper visibility and tighter control.



Transform your approach to security from defense to offense.

HPE ProLiant Compute Gen12 servers with HPE iLO 7 deliver platform-level protection that reduces risk, streamlines operations, and supports compliance—so you can stay focused on what’s next.

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