Virtualization remains the primary means for maximizing agility and efficiency in a hybrid environment. In 2016, 26% of workloads were virtualized, with enterprise leaders open to virtualizing more than 80% of their workloads, and server virtualization was the #1 planned infrastructure project. In fact, analysts predict that 41% of new server shipments will be virtualized in 2020 up from 33% in 2015. And it’s no wonder—enterprises report savings of almost 20% from server virtualization.

As the data center becomes more virtualized, servers should be your strongest defense, arming you with the latest innovations to prevent, detect, and recover from security attacks. That’s why we’ve developed unique security technologies, giving you a new security foundation to protect your data—and your business.

HPE ProLiant DL325 Gen10 and HPE ProLiant DL385 Gen10 servers with AMD EPYC™ processors provide advanced security features you can count on to create a best-in-class secure server solution for virtualization.
**Protect**

**HPE Silicon Root of Trust**

HPE is the only vendor to provide Silicon Root of Trust, which anchors essential firmware to the custom HPE iLO 5 chip. This creates an immutable fingerprint that verifies the firmware code is valid and uncompromised, so the server won’t boot with compromised firmware.

**Secure boot**

Secure boot is an industry standard security feature that is implemented in the BIOS. Secure boot ensures that any drivers launched during the boot process and the OS bootloader are digitally signed and validated against a set of trusted certificates securely stored by the BIOS. With secure boot enabled, only validated drivers and OS boot loaders are executed.

**AMD Secure Processor**

A dedicated AMD Secure Processor is embedded in the AMD EPYC system on a chip. It manages secure boot, tying into the HPE Silicon Root of Trust at the firmware level, and validating the HPE BIOS during the boot process. AMD Secure Memory Encryption (SME) enables inline encryption and decryption with secure key generation and management—and minimal performance impact. AMD Secure Encrypted Virtualization (SEV) allows virtual machine (VM) memory contents to be transparently encrypted with a high-performance encryption engine that can be programmed with multiple keys for use by different VMs in the system.

**Secure supply chain**

HPE reduces the risk of supply chain threats—such as counterfeit materials, malicious software, and other untrustworthy components—by vetting component vendors and sourcing from Trade Agreements Act (TAA)—designated countries. HPE further reduces security concerns and threats by developing the BIOS, management firmware, and iLO 5 chip in-house. Secure server options such as a chassis intrusion detection kit can further reduce the risk of tampering—even when the server is powered off.

**Detect**

**Runtime firmware verification**

Protection during server runtime is provided by an exclusive HPE technology that can conduct daily checks of the server’s essential firmware. If compromised code or malware is inserted in critical firmware, an HPE iLO audit log alert is created to notify you that a compromise has occurred. This functionality is made possible by the exclusive HPE Silicon Root of Trust.

**Recover**

**Automatic recovery of essential firmware**

In the unlikely event of a firmware breach, given the enhanced security capabilities built into ProLiant Gen10 servers, you will be able to securely and automatically recover the firmware to a previous known-good state.

**Server restoration at scale**

The exclusive HPE server system restore feature leverages HPE iLO Amplifier Pack software to securely restore up to 10,000 servers with a single click. In the event of a ransomware attack or other breach, you can automatically or manually recover the server’s essential firmware, firmware configuration settings, OS, and host environments back to an operational state.

**HPE innovations**

HPE ProLiant DL325 Gen10 and HPE ProLiant DL385 Gen10 servers, along with AMD EPYC processors, bring together the latest innovations in security and performance. The advanced capabilities of iLO 5 enable secure boot, daily scanning of firmware, and automatic restoration to the last known-good configuration.

**Find out more today**

Don’t wait to protect your servers from cybercriminals. Contact your HPE or authorized channel partner representative to learn more, today.

Learn more at [hpe.com/servers/dl385](http://hpe.com/servers/dl385)  
[hpe.com/servers/dl325](http://hpe.com/servers/dl325)

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