# Authenticate Faster in the Cloud with Intel

Use fewer resources in the Amazon Web Services (AWS) cloud to process the same amount of data. Establish more encrypted network connections quickly for your content delivery networks (CDNs) and web servers with Intel.

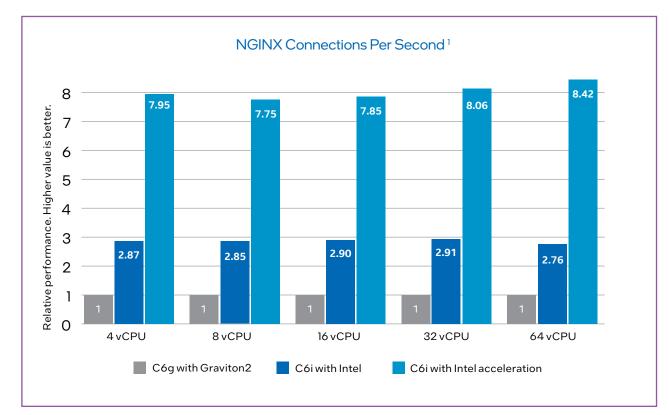
#### Solve Common Problems

- Respond to thousands of simultaneous requests
- Speed up encrypted traffic
- Reduce application abandonment
- Improve customer service by reducing latency
- Lower overhead

### Ideal Uses

- Application load balancing
- Application delivery
- Content caching
- Transport Layer Security (TLS) communication
- Media streaming

# C6i with Intel Outperforms C6g with Graviton2



 $Measured in connections per second (CPS). Intel acceleration delivered by configuring software for RSA2K handshakes with Intel® QuickAssist Technology Engine for OpenSSL.^2$ 

# Cloud Performance Advantages

Upto

Let's work together. Contact us.

614

better price performance

on NGINX CPS in C6i with acceleration than C6g<sup>4</sup>



# **Get Results**

Learn how to configure NGINX workloads in C6i with **step-by-step instructions**.

# **Employ Powerful Tools**

Visit the **cloud development** site. Everything DevOps teams and cloud architects need is there. Gain insights into how to build, scale, and transform from edge to cloud.

# **Place Workloads Intentionally**

HTTP servers and reverse proxy servers like NGINX move easily to any architecture, but portability might not translate into optimal performance. Learn about AWS C6i, M6i, and R6i instances for your workloads.

1. See intel.com/3gen-xeon-config [140] and [139] for configuration and test information.

better price performance

on NGINX CPS in C6i than C6g<sup>3</sup>

intel

Xeon

2. For more information about Intel QAT Engine, see https://github.com/intel/QAT\_Engine/. To take advantage of Intel QAT Engine acceleration, see: Intel. "Building Software Acceleration Features in the Intel® QuickAssist Technology (Intel® QAT) Engine for OpenSSL\*1.1.1." intel.com/content/www/us/en/developer/articles/guide/building-software-acceleration-features-intel-intel-qat-engine-for-openssl.html.

3. See intel.com/3gen-xeon-config [140] for configuration and test information. AWS C6i with Intel delivers up to 2.36x better price performance and delivers up to 2.91x higher NGINX connection rate than C6g with Graviton2. Pricing information from US-West-2b region as of February 7, 2023. https://aws.amazon.com/ec2/pricing/on-demand/.

4. See intel.com/3gen-xeon-config [139] and 2 above for configuration and test information. AWS C6i with Intel acceleration delivers up to 6.75x better price performance and delivers up to 8.42x higher NGINX connection rate than C6g with Graviton2. Pricing information from US-West-2b region as of February 7, 2023. https://aws.amazon.com/ec2/pricing/on-demand/.

Note: One benchmark does not fit all workloads. Select meaningful measurements to inform your purchasing decisions. For more information, see intel.com/3gen-xeon-config [101] and [102] and https://www.intel.com/content/www/us/en/content-details/752333/active-benchmarking-for-better-performance-predictions.html.

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