

# Helping financial services secure the cloud

Innovate with data and adapt to evolving customer demands without sacrificing security and compliance.

Financial institutions that want to win in fast-changing, highly competitive markets must create innovative products and services. From reimagining regulatory reporting systems to implementing powerful loan analytics, Google Cloud Platform—powered by new N2D AMD EPYC™ processors—helps drive those innovations by delivering improved performance and memory bandwidth, detecting and managing risk, and creating a more flexible financial core, all without sacrificing confidentiality and security.

## Breakthrough confidentiality

Confidential VMs leverage the Secure Encrypted Virtualization (SEV) feature of 2nd Gen AMD EPYC™ CPUs. That means your data stays encrypted while it is used, indexed, queried, or employed for training.

## Enhanced innovation

Confidential Computing unlocks previously impossible computing scenarios so you can share confidential data sets and collaborate on research in the cloud—without sacrificing confidentiality.

## Lift and shift: Simple for everyone

We've made moving to Confidential Computing easy because the transition to Confidential VMs is seamless: All GCP workloads you run in a VM today can run as a Confidential VM with a click on a checkbox.

## Advanced threat protection

Confidential Computing helps ensure the integrity of the operating system you choose to run in your Confidential VM by building on the protections Shielded VMs offer against rootkits and bootkits.



## World-class performance

Built on Google's resilient, scalable global infrastructure, and powered by 2nd Gen AMD EPYC processors, Confidential VMs deliver high performance for a wide variety of workloads, including running enterprise applications with databases with a minimal impact on performance.

## Optimized deployment

Google Cloud offers comprehensive management tools that help you streamline rollout and troubleshoot issues within the console. Confidential VM is designed to fit your needs with pricing based on your usage of the machine types, persistent disks, and other resources you choose for your VMs.

## Google Cloud and AMD EPYC: Benefits that drive financial services innovation



### Performance

Leverage high-performance computing for risk simulation and analytics.



### Flexibility

Create a flexible financial core using AI and ML.



### Security

Count on breakthrough levels of confidentiality and security.

With GCP's N2D instances running on 2nd Gen AMD EPYC processors

Google Cloud delivers...



**Better performance**

Up to

# 39%

better processing performance and memory bandwidth for intensive workloads, comparing N1 vs. N2D<sup>1</sup>



**Lower costs**

Up to

# 13%

cost savings vs. N1 and N2D non-confidential VMs<sup>1</sup>

1. Source: Vallejo C, [New AMD EPYC-based Compute Engine family, now in beta](#), February 2020 (N2D-standard-32 performed 39% better than N1-standard-32 when evaluated using Coremark.)