

# Perform Quantitative Research on Efficient, Scalable Compute Resources

Google Cloud gives quantitative analysts and researchers the scale and speed they need to convert ideas into profitable strategies easily.

## Move at the Speed of Ideas

Quantitative researchers and modelers require ready access to powerful compute resources to deliver useful, time-to-value trading insights. These insights require updating existing algorithms and deploying new algorithms based on same-day research. The updates can become a challenge when other enterprise computing priorities take precedence and feature backlogs create further delays.

Fortunately, Google Cloud provides the scalable infrastructure to help you meet your computing requirements – without ramping up on-premise resources. You can automatically scale up or scale down Google Compute Engine resources based on your requirements. And, to help control costs, our per-second billing helps ensure you only pay for the resources you use.

When you use Google Cloud for your high-performance computing (HPC) workloads, you gain the powerful, flexible infrastructure you need to access, sort, process, model, and deliver the right information to the right decision-maker at the right time.

## Drive Greater Value with Google Cloud

Get the computing power you need to formulate high-value trading strategies in an evolving regulatory environment. Overcome the cost and constraints associated with on-premise computing – and generate the alpha your investors demand – with Google Cloud.

## Related Products



BigQuery



Compute Engine



Data Studio



Cloud Storage



Datalab



Cloud Bigtable



Dataflow



Persistent Disk



Filestore

## Learn More

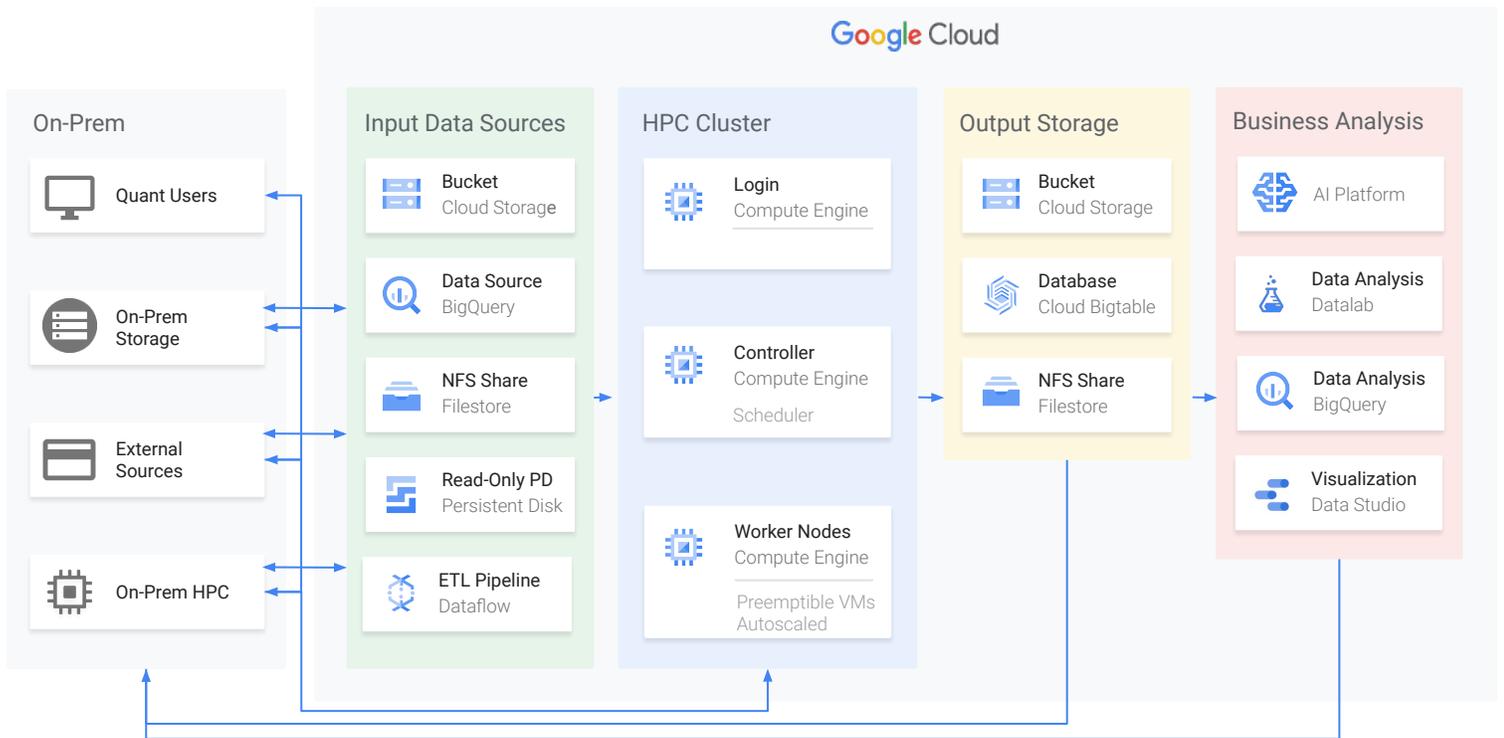
- [Google Cloud for Financial Services](https://cloud.google.com/solutions/financial-services)  
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## 5 Reasons to Use Google Cloud

Google Cloud delivers high-speed data processing at big data scale, on a massive computing platform that benefits your HPC workloads in five ways:

- 1 Scalability:** Spin up quantitative research workloads, scale up when necessary and only pay for the compute seconds you use.
- 2 Efficiency:** Take advantage of automation, templated configurations and preemptible compute instances, to increase agility while optimizing costs.
- 3 Speed:** Accelerate your most complex workloads quickly on Google Cloud's purpose-built infrastructure.
- 4 Performance:** Access high performance infrastructure, including GPUs that may help you accelerate large-scale data analytics and reduce time to market for quantitative research for investment strategies.
- 5 Security:** Google's in-depth approach to security includes multiple layers of physical and logical protection, 100% of data at rest is encrypted by default, and dedicated, in-house monitoring and response services working 24x7x365.

### Architecture: Quantitative Research on Google Cloud



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