



Driving Growth, Profits in Financial Services

High performance computing (HPC) from Amazon Web Services, powered by Intel, pays dividends for banks, investment firms, insurance companies, and more.

High performance computing is nothing new in financial services. However, business managers increasingly rely on HPC applications to make key decisions, which puts pressure on IT to provide new levels of performance and reliability. Many firms are discovering that they need more resources than their on-premises platforms can offer—and balk at costly infrastructure investments that may have to be repeated in a short period of time.

That's why established organizations and FinTech startups alike are migrating HPC workloads to Intel® Xeon® processors running on Amazon Web Services (AWS). Here are some of their stories.



Credit Risk Assessment | bankinter.

Challenge:

Simulate millions of scenarios to evaluate the creditworthiness of clients.

Bankinter uses AWS EC2 instances powered by Intel Xeon processors to decrease time to decision by

98.6%

from 23 hours to 20 minutes

"With AWS, we now have the ability to run simulations that were not possible before due to the large amount of infrastructure required."

- Javier Roldán, Director of Technological Innovation, Bankinter



[Learn more about Bankinter and AWS](#)

Insurance Compliance | talanx.

Challenge:

Calculate quarterly capital requirements without creating a bottleneck for on-premises IT.

"Using AWS, we are already seeing a 75% reduction in calculation time when running our Solvency II simulations, while still complying with our very strict data policies."

- Achim Heidebrecht, Head of Group IT, Talanx



Talanx uses 550 Amazon EC2 instances, powered by Intel Xeon processors, and 280 TB Amazon S3 storage to realize annual savings of

€8M



By migrating risk modeling applications to HPC on AWS, Morningstar reduced calculation time by

98%

The efficiencies gained by moving to AWS allowed Morningstar to expand from running 50,000 assets to 5 million, an increase of 100x

Portfolio Risk Modeling | MORNINGSTAR®

Challenge:

Focus human and financial resources on developing investment products, and not on maintaining infrastructure.

Moving to AWS and owning less infrastructure means more capacity, more security, more reliability, more peace of mind, and more freedom to create great products that help investors reach their financial goals.¹

- Mitch Shue, CTO, Morningstar

¹ <https://www.youtube.com/watch?v=vhNVhJGOh5w>

[Learn more about Morningstar and AWS](#)

[Case Study](#)

[News](#)

[Morningstar Website](#)

Market Surveillance | FINRA

Challenge:

Detect fraud, market manipulation, and insider trading across US capital markets.

"We can do things that we physically weren't able to do before, and that is priceless."

- Steve Randich, CIO, FINRA



35 billion

Market events captured daily by FINRA

FINRA analysts use AWS EC2 instances powered by Intel Xeon processors to query multi-petabyte data sets, achieving 40% annual savings totaling

\$20M

compared to investing in an on-premises solution

[Learn more about FINRA and AWS](#)



Asset Management | AQR

Challenge:

Accelerate the discovery of new investment insights.

"Investment innovation lives at the intersection of technology, data and behavioral finance. It's in our DNA."

- Michael Raposa, Head of Platform Engineering, AQR Capital

\$226 billion

assets under management

40 strategies

ranging from traditional to alternative products

With HPC from AWS powered by Intel, AQR reduced queue times significantly—from hours to minutes—and achieved key SLA that

90%

of jobs must start within 15 minutes

[Learn more about AQR Capital and AWS](#)



Now it's your turn

Find out how your bank, insurance company, investment firm, or government agency can profit by running your HPC workloads on Amazon Web Services and harnessing the power of Intel® Xeon® processors.

For more information:
<https://aws.amazon.com/hpc>