

Ichthys Genomics

Profile

Ichthys Genomics is a KST family company that is a subsidiary company of “Korea Science and Technology” and develops, as well as distributes, genetic analysis-based disease research/diagnosis SW. Ichthys Genomics provides a genome analysis platform called Caleb that allows people to perform genome analysis quickly and efficiently.

Challenge

When working with genomics, files sizes are staggering, reaching multiple terabytes for a single genome sample. Ichthys Genomics works with files of this size on a regular basis, and they are receiving these files from labs across the globe.

They were sending, receiving and sharing all of this data using the AWS S3 cloud platform and the FTP protocol. This created challenges for the company since latency packet loss and latency have detrimental effects on file transfer speeds across the Wide Area Network (WAN). And as the distance between the sending and receiving party grows, the challenge becomes harder as transfer speeds continue to fall.

Ichthys Genomics was in need of a solution that would overcome the challenges of sending large, multi-gigabyte and terabyte files across large geographical distances over the internet efficiently.

Solution

To overcome these challenges, Ichthys Genomics chose FileCatalyst Direct, a suite of server and client applications that use FileCatalyst’s patented UDP-based protocol to transfer files at speeds of up to 10Gbps. FileCatalyst TransferAgent was also used to provide a simple two-pane transfer interface.

By using the FileCatalyst SDK, FileCatalyst’s solutions have been integrated with the genetic analysis software used by the research institutes across each region, allowing for accelerated transfer speeds. FileCatalyst Direct’s client application,

FileCatalyst Hotfolder, was also installed, which allows for automation. By placing HotFolders across the various endpoints, files will automatically download or upload content at intervals that can be customized.

AT-A-GLANCE



Company **Ichthys Genomics**
Industry **Life Sciences**

CHALLENGES

- Moving Multi-Terabyte genomics files is inefficient across traditional FTP
- Lack of automation and collaboration capabilities

PRODUCTS

- FileCatalyst Direct
- FileCatalyst SDK

RESULTS

- Exponentially faster transfer speeds
- Automated transfer tasks

Results

Immediately upon implementation, Solaris Promo Production noticed that the production files for Dom 2 were arriving at impressive accelerated speeds. The files were also simple to transfer and with FileCatalyst's guaranteed media file delivery, Solaris Promo Production felt confident in this fast file transfer solution.

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