Case Study: Geo-location Services and Software Firm

Client Requirements

The Gartrell Group is a software and services firm located in Portland, OR and focused on helping people better understand and fully capitalize on the role that location plays in their business. They work closely with our clients to boost their location intelligence with GIS Hosting, GIS systems integration, or GIS application development. Client wanted an improvement in terms of performance to their geographic information system (GIS) and reduce costs.

Atmosera Solution

Design:

In partnership with Microsoft, Atmosera enabled the Gartrell Group to see a 90% improvement in the amount of time it takes to run tile caching operations by utilizing Nvidia Tesla K80 Cuda GPU Acceleration on NC-series Azure virtual machines deployed and managed with Windows Virtual Desktop. Through this partnerships, Atmosera is able to mobilize the GIS industry to no longer be dependent on local GPU and hardware, by offering a more powerful virtualized solution in addition to improving the performance of existing virtual solution.

Value Delivered:

- 90% improvement in the amount of time it takes to pre-process and cache data
- Windows Virtual Desktop (WVD) allows for greater cost-control and less up-front cost, as these powerful machines can be deallocated when not in use
- More sophisticated than the standard Remote Desktop Services deployment, WVD can be accessed via browser and is highly scalable ensuring high performance when it's needed most

atmosera.