

# signs you have an impossible cloud workload

constrained environment, organizations continue to turn to the cloud for all sorts of workloads like web, mobile, gaming, backup, and even business operations. However, there are a core set of workloads with high data gravity, massive scale, and high performance that haven't yet moved - and it's starting to hold businesses back.

The move to the cloud is on! Even in today's

is the massive explosion in Generative Al.

A classic example of an impossible workload

These applications rely on huge data sets and massive amounts of compute to train the models and widely distributed, high-performance compute to support validation and inference operations once the model is built. The logical place for these workloads is in the cloud as the fastest way to get started building a new GenAl application, get on-demand access to the latest compute and fastest networks, and enable rapid and global scalability.

### Give me a local feel (Low latency)

real-time - "feels local" - experience. You might have an impossible workload.

If your users and customers count on a

traditional monolithic architectures that rely on close coupling between compute and data storage over a high-speed network, you probably have an impossible workload.

If your HPC application is based on

random I/O

Give me lots of

### I need more bandwidth!

your applications need - even after optimizing the network path - you might have an impossible workload.

If you're unable to deliver the bandwidth

throughput bound. Existing cloud storage systems are often too underpowered to break the bottleneck affordably. You might have an impossible workload.

Low GPU utilization is a sign your

application has become I/O or

long idle times, and it's costing me a fortune!

My GPUs have

capacity to meet my performance §requirements!

I'm provisioning

more storage

have an impossible workload.

part II

resources to meet performance

objectives is a classic sign you

Overprovisioning storage

If your cloud storage doesn't scale

really a cloud service and if this is

really an impossible workload!

both up and down, ask yourself if it's

Spiraling costs

If your data analytics pipeline is

an impossible workload.

longer today than it was 6 months

ago or a year ago, you might have

(<u>The LOSF Problem</u>)

Lots of

pipelines

Applications that process millions of

tiny files act as tiny paper cuts, slowly

draining legacy data architectures of

their ability to perform. If you're

dealing with the LOSF problem, you

might have an impossible workload!

Undifferentia

ted Heavy

Lifting

If your users and customers count on a real-time - "feels local" - experience. You might have an impossible workload.

Long (and getting

longer) analytics

If your data engineers are spending more time "plate-spinning" and less time doing data analytics, you might have an impossible workload.

multiple

Hybrid clouds...

deployments

### If your data transfer costs are Spiraling data starting to spiral, you might transfer costs have an impossible workload.

## What do you do

## with your impossible workloads?

WEKA is all about making the impossible, not only possible but easy. The WEKA Data Platform was born in the cloud, originally launched for AWS, and is now available for customers running their impossible workloads in Microsft Azure, Google Cloud, and Oracle Cloud Infrastructure. Our unique software-defined approach to data is capable of delivering the performance and scale your impossible workloads need to run affordably in the cloud.

Learn More

