

Virtual Engineering

High performance. On demand.

Following the recent and rapid shift towards remote working, now is the ideal time to embrace the Cloud in design and engineering.

Like it or not, remote working is here to stay. This has created an urgent need for organisations to move to more mobile ways of working that provide all the tools employees need to work seamlessly, either from the office or from home. This calls for **high performance, on demand** virtual workstations for engineers.

What Is Virtual Engineering?

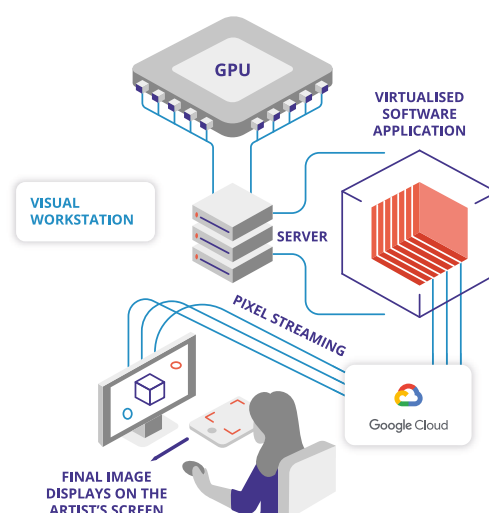
Virtual engineering allows engineers working in manufacturing and industry to access powerful multi-core virtual workstations with an NVidia T4 GPU attached, a common filer (such as NetApp on Google Cloud), and have the screen's pixels streamed to a remote worker thin client or laptop securely.

Teradici PCoIP is the protocol used for pixel streaming and is the industry leader for remote visual editing, low latency, colour accuracy, and adaptive bandwidth optimised for consumer broadband. This makes it the perfect choice for engineering users.

 AUTODESK



At Appsbroker, we've partnered with various technology and software providers including **Autodesk** to provide **virtual engineering** capabilities to our customers.



“In simple terms, virtual engineering is VDI on steroids.”

Geoff Newell, Technical Director, Appsbroker

Some of our M&I valued customers



Why Does It Matter?

Virtual engineering empowers engineers to access their software and tools wherever they are.

Having a dedicated virtual engineering solution hosted on Google Cloud provides users with a new way of working that facilitates a change in mindset, allowing for complete location freedom with access to the same software and tools, plus enhanced security and scalability.

Whether you're working in the manufacturing, automotive, aerospace, or construction space, it's likely you're already familiar with and using tools from the Autodesk suite, such as AutoCAD, Fusion 360, BIM, Maya and VRED. Note: other software is supported.

Our dedicated virtual engineering solution, brought to you by Google and Appsbroker, provides your organisation with the tools you know and love, optimised for engineers with a laser focus on facilitating the best possible user experience.

Virtual Engineering: What to Expect

Within two to four weeks, we'll help you get your production environment up and running, alongside any additional render and HPC simulation capabilities you may need.

No matter how many engineering users your organisation needs to cater for, we'll take you on a journey to make it happen.

“Think of it like Google Workspace - but specifically for engineering software and the creation of intellectual property.”

Geoff Newell

Switch to virtual engineering and unlock **up to 10x cost savings** compared to existing on-premise workstations.

Why Virtual Engineering Makes Commercial Sense

Having a dedicated virtual engineering solution in place can:



Reduce Support Costs

Greatly reduce the IT support costs required to manage and run an entire fleet of engineering workstations.



Save on Hosting Costs

In addition, your organisation can use Google Cloud VMs to further save on hosting costs.



Enable Regular Updates

Patching and software updates become a breeze, since all users are working from a regularly updated golden image.



Enforce Security

Security is easy to enforce, as all intellectual property can be created, stored and secured within the Cloud project, rather than distributed across multiple users' workstations. Only encrypted display pixels are sent to verified user endpoints for maximum trust.



Increase Talent Pool

Finally, adopting a virtual engineering solution enables your organisation to access talent globally. All you need to do is select the closest Google data centre. Plus, with technologies such as NetApp Global File Cache, all users can experience high performance wherever they are.

Ready to embrace high performance, on demand for engineers on Google Cloud?

Contact our specialist Virtual Engineering team today to find out more and kick-start your journey.

Geoff Newell



Technical Director
geoff.newell@appsbroker.com

David Young



Technical Lead - Virtual Engineering
david.young@appsbroker.com