



# GPU-ENABLED CLOUD WORKSTATIONS

Enhance productivity with real-time collaboration from anywhere, on any device.

## AEC INDUSTRY USE CASE

*Workspot Cloud Workstation solution enables you to deliver GPU-intensive applications, data and workstations from the cloud or on-premises to users globally. It provides efficient cross-collaboration in real-time to increase productivity and time-to-market.*

## AT A GLANCE

### INDUSTRY:

Architecture, Engineering, Construction

### REGION:

Multiple sites in geographically dispersed locations

### TYPICAL USE CASES:

Real-time collaboration on 3D designs

Mobility for power-users

Flexibility for temporary projects

### SOLUTION:

Workspot Cloud Workstations.  
Windows 10 workstations on Microsoft Azure NV-Series GPU VM instances and on-premises in multiple locations and remote sites.

## GRAPHICS-INTENSIVE WORK POSES PROBLEMS FOR THE AEC INDUSTRY

Collaboration is more critical than ever for customers in the AEC industry. High-performance 3D CAD/CAE and complex BIM software applications require powerful physical workstations. As a result, engineers, architects and designers have historically been tethered to their desks at their offices. Without mobile access, engineers in the field can't instantly access data to make real-time updates and are unable to work on projects after hours from home or remote locations. Relocating engineers to work onsite (customer site, remote office) for temporary projects entails relocating their physical workstations. It's a situation that hampers productivity and can hinder competitive advantage.

Moreover, sharing large graphics-intensive datasets is a slow and tedious process that can cause unnecessary project delays. Architects, engineers and BIM partners in different geographical locations cannot collaborate on the same file simultaneously because data synchronization processes are inefficient; it can take hours, or even entire days, uploading and downloading large graphics-heavy datasets.

IT runs into difficulties too. Physical workstations are expensive and require significant resources to procure, install/configure and eventually deliver it to users. This makes it impossible to rapidly provision workstations, especially for temporary projects.

Organizations in the AEC industry that rely on physical workstations to collaborate between virtual teams are confronted with these major challenges:

### Technical challenges

- Inability to provide efficient collaboration for sharing large datasets
- Providing remote access to users to work from anywhere on any device
- Provisioning workstations for users and temporary projects takes too long
- Continuous cycle of buying, managing & maintaining physical workstations

### Business challenges

- Lack of cross-collaboration in real-time between users in multiple locations
- Poor collaboration leads to loss of productivity and slow time to market
- Flexibility to relocate engineers at customer site for short-term projects
- Project delays due to long hardware lead times to provision new users
- Access to the latest GPU technology requires regular hardware refresh

## COLLABORATION, MOBILITY AND SECURITY ARE ESSENTIAL

In the increasingly competitive AEC industry, companies need to innovate to stay on top. They need to enhance productivity, reduce project lead times and increase revenues. Visualizing the same designs and running simulations on the same 3D models from any location on any device allows architects and engineers to work more efficiently and be more productive. One of the best ways to achieve these goals is to deploy a cloud-native VDI solution that is flexible (cloud or hybrid), cost-effective, and easy to deploy and scale. It offers business continuity, providing users with the same performance and user experience as that of a physical workstation running graphics-intensive applications such as Autodesk Revit, AutoCAD and Adobe Premiere. By enabling geographically dispersed power-users to collaborate efficiently, VDI ensures AEC companies can stay competitive.

## WORKSPOT SOLUTION

Workspot Cloud Workstations enables AEC customers to deliver GPU-intensive applications and data by offering a flexible cloud-native VDI solution that provides:

- Co-location of data, apps and workstations in the cloud for real-time project collaboration with efficient data synchronization on large shared datasets and 3D models
- Secure access to GPU-intensive data and applications from anywhere on any device with rich user experience
- Instant workstation provisioning and dynamic scalability (up and down) for temporary and short-term projects
- Ability to burst to the cloud for additional GPU and CPU power as needed
- GPU-accelerated pre-installed and pre-configured virtual workstations with instant access to the latest high-performance NVIDIA GPUs
- Support for hybrid platform - Cloud and On-premises

## Workspot Cloud Workstations Will Transform Your Business

*Real-time collaboration with efficient data synchronization*

*Mobility for users to work from anywhere on any device*

*Access to latest high performance NVIDIA GPUs*

*Data and applications reside securely in the cloud*

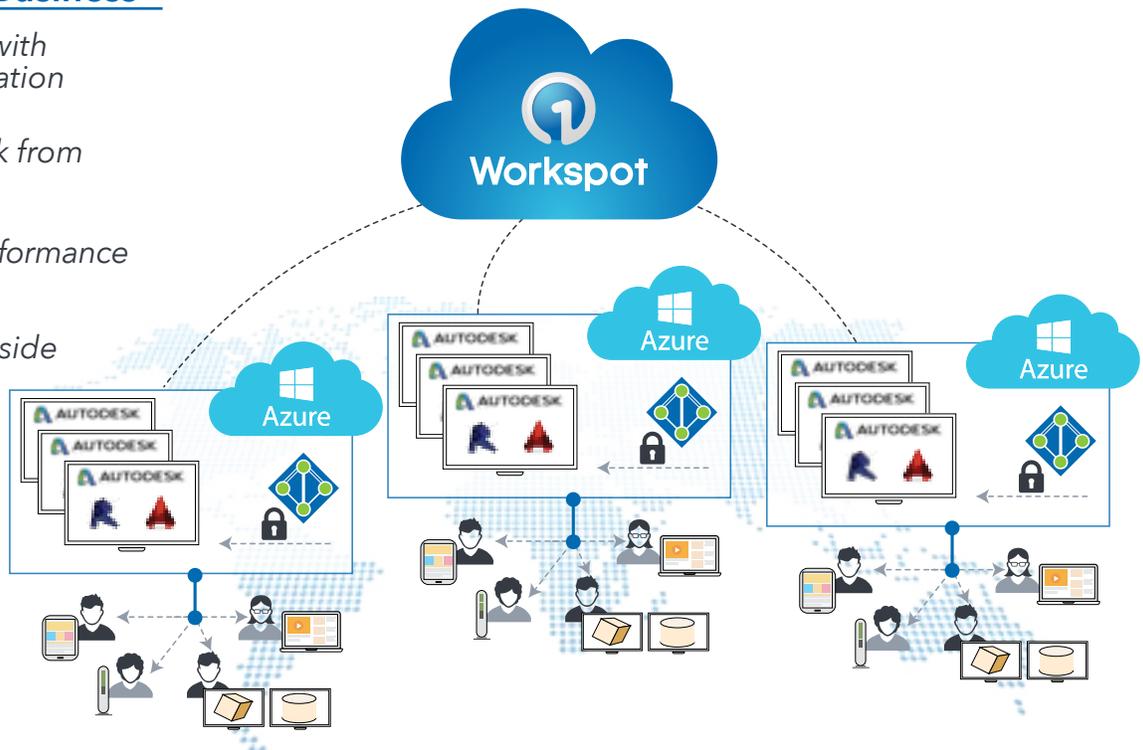


Figure 1: Workspot Cloud Workstations enabling users to collaborate in multiple regions on any device

## Summary

Workspot Cloud Workstations solution solves the technical and business challenges for customers in the AEC industry. It provides an efficient, collaborative working environment for power-users (engineers, designers, architects, BIM partners and creative professionals) to work on shared 3D models in real-time, while enabling mobile users to securely access data and applications from anywhere on any device with the best user experience. Enhanced collaboration and instant access to latest GPUs increases productivity and time-to-market. IT can quickly provision workstations according to project requirements, allowing enterprises to realize the scalability and elasticity benefits of the cloud. Overall, customers enjoy a much lower TCO compared to expensive, high-performance physical workstations.

Workspot provides a turnkey solution to deploy GPU-enabled Cloud Workstations on Microsoft Azure. [Learn more.](#)

## ADDITIONAL RESOURCES

**Video:** [Workspot Introduction](#)

**Solution Brief:** [Workspot Cloud Workstations](#)

**Solution Brief:** [Turnkey Services](#)

**Demo:** [Schedule a 15-minute demo](#)

## ABOUT WORKSPOT

Workspot has reinvented Virtual Desktop Infrastructure (VDI) with a cloud-native architecture that delivers applications, desktops and workstations from the cloud. Workspot's "cloud-first" solution solves the corporate challenge of securely delivering apps, desktops and data from anywhere, to any device, and dramatically reduces the total cost of ownership for virtual apps, desktops and workstations. Organizations of all sizes benefit from the shortest implementation times in the industry, achieving unprecedented time-to-value. With a relentless focus on customer success, Workspot's no-risk customer engagement model is an industry first. The Cupertino, California-based company received the Best of VMworld 2016 Gold Award for Desktop and Application Delivery solutions.

For more information on Workspot's risk-free, turnkey solutions, visit: [www.workspot.com](http://www.workspot.com)



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