Penguin Computing Scyld Cloud Workstation™

Remote desktop for accessing critical resources from anywhere

Key Features

- Browser-based connection, no client installation or plug-in needed
- Collaborative, secure multi-user sessions
- Operates in a wide variety of network conditions
- Intelligent QoS for minimizing network usage
- Secure HTTPS authentication from anywhere
- Enables 3D accelerated interactive workflows
- Up to 4K, 3840x2160 resolutions at 60fps
- Supports multiple monitors
- Bidirectional copy/paste
- Dual channel stereo audio support
- Keyboard internationalization
- Plug-ins available for extensibility

Overview

A remote access strategy allows users to easily connect to physical or virtual desktops, from any device or location, to access computers that host their files and applications. A remote desktop utilizes software, hardware, and networking technologies to connect users with centrally-managed back-end infrastructure, as well as individual workstations/PCs.

Penguin Computing® Scyld Cloud Workstation™ offers unparalleled performance and a breadth of features that allow it to stand out as a solution for remote access. A standard browser can be used to access remote environments with a fast, high resolution connection, supporting multiple monitors and live collaboration features.

New! The latest version, 13.0, includes features that further increase the intuitiveness and usability of Scyld Cloud Workstation. Improved client/server resolution matching and bidirectional copy and paste operations provide a more natural feel with fewer disruptions.

Remote Server   Data Endpoints

Scyld Cloud Workstation User
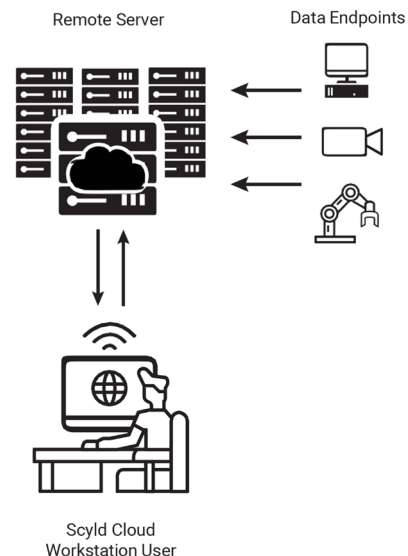
Scyld Cloud Workstation Benefits

## Hardware Agnostic and Expansive OS Support

Scyld Cloud Workstation can run in any bare-metal or virtualized environment. As an advanced VDI solution, Scyld Cloud Workstation operates smoothly in peak performance situations, and reduces CPU load on Linux servers, allowing for increased user density on GPU servers. Scyld Cloud Workstation is a proven tool for:
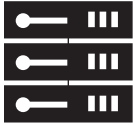
- Deploying GPU enabled workstations for AI/ML and 3D workflows
- Enabling interactive workflows remotely for users like data scientists, researchers and content creators
- Deploying remote desktops in the cloud
- Building hybrid web applications

With support for Linux, Microsoft Windows and Apple macOS, integration with existing workflows allows for frictionless enablement of your user base into a familiar environment.

Remote Collaboration on Shared Desktops
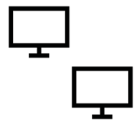
Scyld Cloud Workstation enables multi-user collaboration and remote desktop access for up to ten temporary or permanently authorized users. Control can be passed from one user to another while our QoS algorithm intelligently adjusts the frame rate per client to ensure an optimal experience. Through Scyld Cloud Workstation, customers can deploy large scale remote desktop environments using open source or commercial virtual machine platforms for provisioning.

Secure Remote Workforce

Scyld Cloud Workstation supplies secure access through HTTPS, requiring no additional ports through the firewall. This unique architecture saves bandwidth, simplifies implementation for IT departments, improves image quality, and ensures near-universal accessibility for users.

IT departments can use custom SSL certificates and couple authentication into centralized identity managers through Scyld Cloud Workstation's ability to pass authentication onto the operating system. Additionally, Scyld Cloud Workstation can run in contained network environments with no access to the public internet, providing additional security in classified workflows.

Lossless Remote Desktops

For users that require pixel accuracy, Penguin Computing delivers an optional client that delivers two classes of high quality video outputs at up to 4K UHD:

- Visually Lossless provides high fidelity video at near lossless compression to optimize your network
- Alternatively, Lossless Video delivers uncompressed video streams

Users can easily toggle between visually lossless and completely lossless interactive sessions

Scyld Cloud Workstation Value

Remote macOS Desktops for Media & Entertainment

The COVID-19 outbreak has accelerated the trend toward virtualization in the Media and Entertainment space. Trusted advisors are currently being bombarded with requests for solutions to allow M&E professionals to work remotely, this includes editors, graphics designers, colorists, story producers, sound and music designers, FX artists and many others.
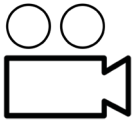
Penguin Computing's Scyld Cloud Workstation software is uniquely suited to meet the challenges posed by the entertainment community in the short term in addition to providing compatibility in the long term as the community transitions into the cloud.

Engineering Class Visualization for HPC and AI/ML

Engineers running CFD, CAE, or FAE codes run graphical applications that post-process or otherwise visualize data generated by applications running on an HPC cluster. Scientists in weather and chemistry are another class of users that commonly need to visualize data. Traditional HPC and AI/ML environments require users to download large data files to on-premises workstations for pre/post processing, model development, and data analysis offline from the computing resource and centralized storage. This is a time consuming process that makes it hard to create an efficient workflow with predictable time to results.

Penguin Computing's remote visualization solutions offer significant time savings by moving pre and post processing to a workstation with direct access to a cluster's data storage — eliminating the need to download large data files. Users can use the same GUI tools as on their local workstations, ensuring continued productivity.

Learn More

‣ Sign Up for a Demo or Evaluation of Scyld Cloud Workstation.
‣ Reach out to us at sales@penguincomputing.com
‣ Visit penguinsolutions.com/computing to learn more about our software

ABOUT PENGUIN SOLUTIONS

An SGH™ Brand

Penguin Solutions accelerates digital transformation with the power of emerging technologies in HPC, AI, and IoT with solutions and services that span the continuum of edge, core, and cloud.

Penguin Computing specializes in innovative and emerging technologies for the world's most demanding workloads.

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