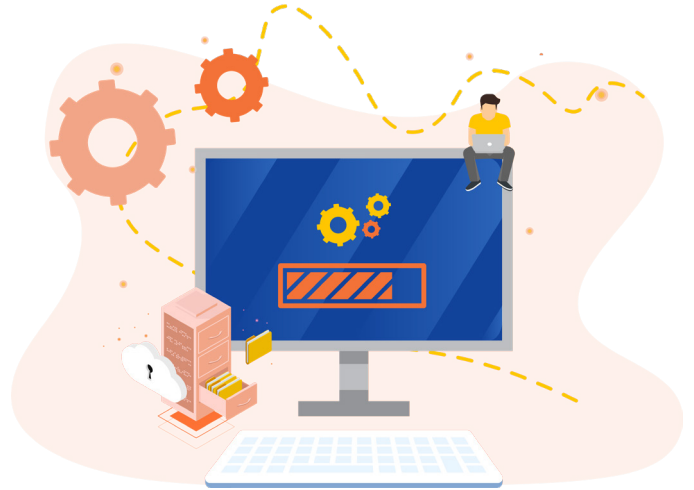


WINDOWS VIRTUAL DESKTOP AND IGEL OS

Secure, Efficient, Productive Cloud Desktops are Here!

Windows Virtual Desktop (WVD) is a comprehensive desktop and app virtualisation service that delivers fully functional Windows desktops and applications as a desktop-as-a-service (DaaS) offering hosted in the Microsoft Azure cloud. As an alternative to using Windows running locally on a laptop or desktop PC, WVD allows you to replace Windows on your endpoint device with another operating system as long as that OS supports client software that can communicate with the WVD service. IGEL offers Linux-based IGEL OS, the next-gen edge OS for cloud workspaces that is verified by Microsoft to work with WVD.



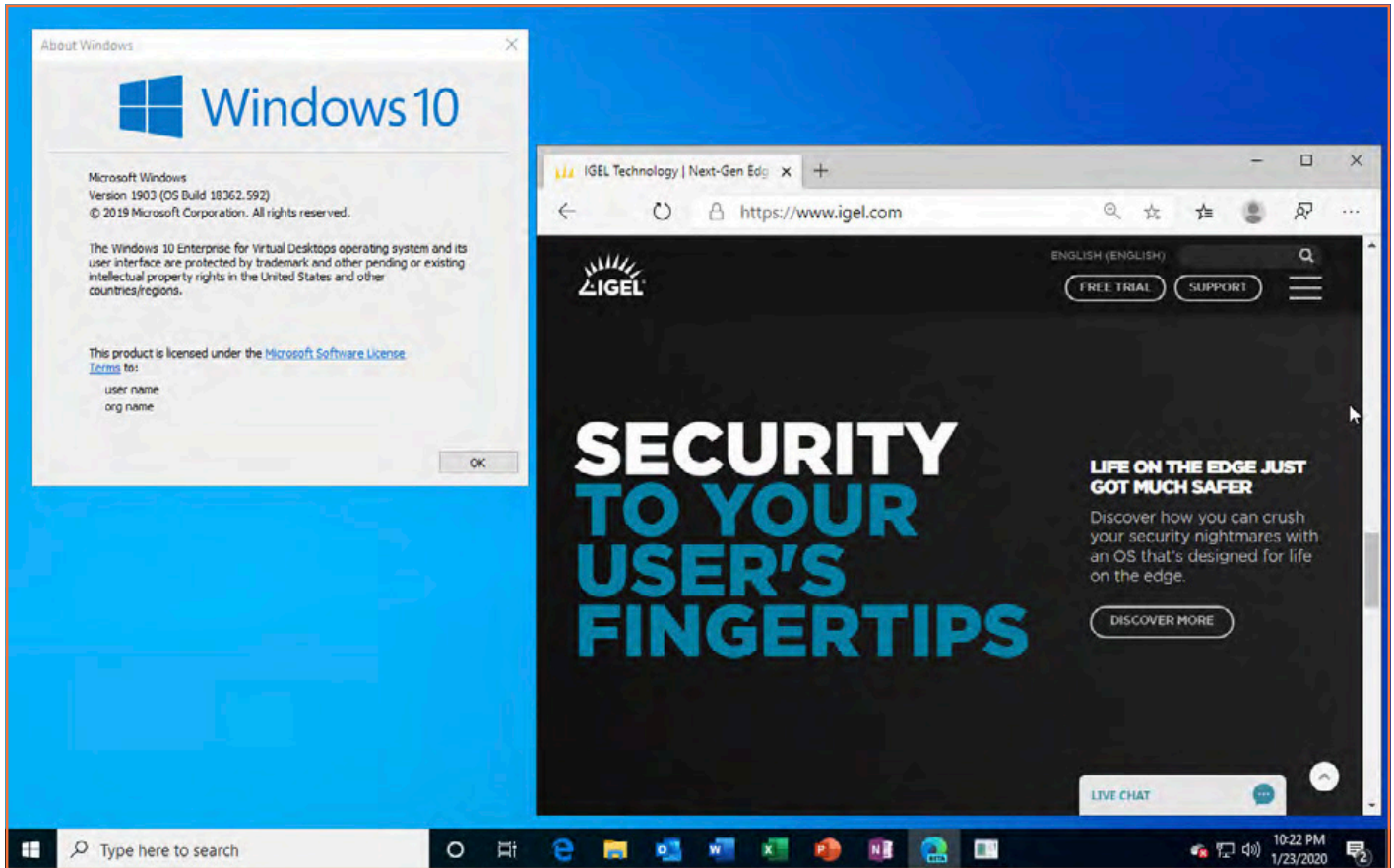
WHY WVD? LET'S TAKE A LOOK

Announced on March 1, 2019, WVD is gaining momentum for a number of reasons:

- WVD is the first broadly available DaaS offer from Microsoft via the Azure cloud.
- WVD is designed for businesses of all sizes, including large enterprises.
- WVD license subscriptions are included in most Microsoft enterprise license agreements (ELAs), making the transition to WVD as easy as paying for WVD consumption out of the Azure cloud.
- WVD includes Windows 10 Enterprise multi-session, a new Remote Desktop Session (RDS) Host that allows multiple concurrent interactive sessions, a feature available only on Windows Server previously. This capability, optimised for the Azure cloud, gives users a familiar Windows 10 experience while providing IT teams with the cost advantages of multi-session, including use of existing per-user Windows licensing instead of RDS Client Access Licenses (CALs). Multi-session thus makes it very efficient and cost-effective for enterprises to move users to Windows Virtual Desktop.
- WVD is an easy way to move users from Windows 7 to Windows 10 – simply migrate Windows 7 licenses to WVD Windows 10 desktop subscriptions on Azure. Now that Windows 7 has reached end-of-support, this easy migration to Windows 10 is especially attractive to those organisations who have yet to make the migration.
- WVD helps streamline enterprise IT, since the task of managing Windows on hundreds or thousands of physical desktops is minimised to managing WVD DaaS subscriptions.
- WVD can offer the best Microsoft Office 365 experience with Office Professional Plus delivered from the Azure cloud.
- WVD is secure. Extensive security measures are available via the secure Azure cloud, including identity management, access control, network security, data protection, certificate and key management, and centralised visibility and attack prevention.

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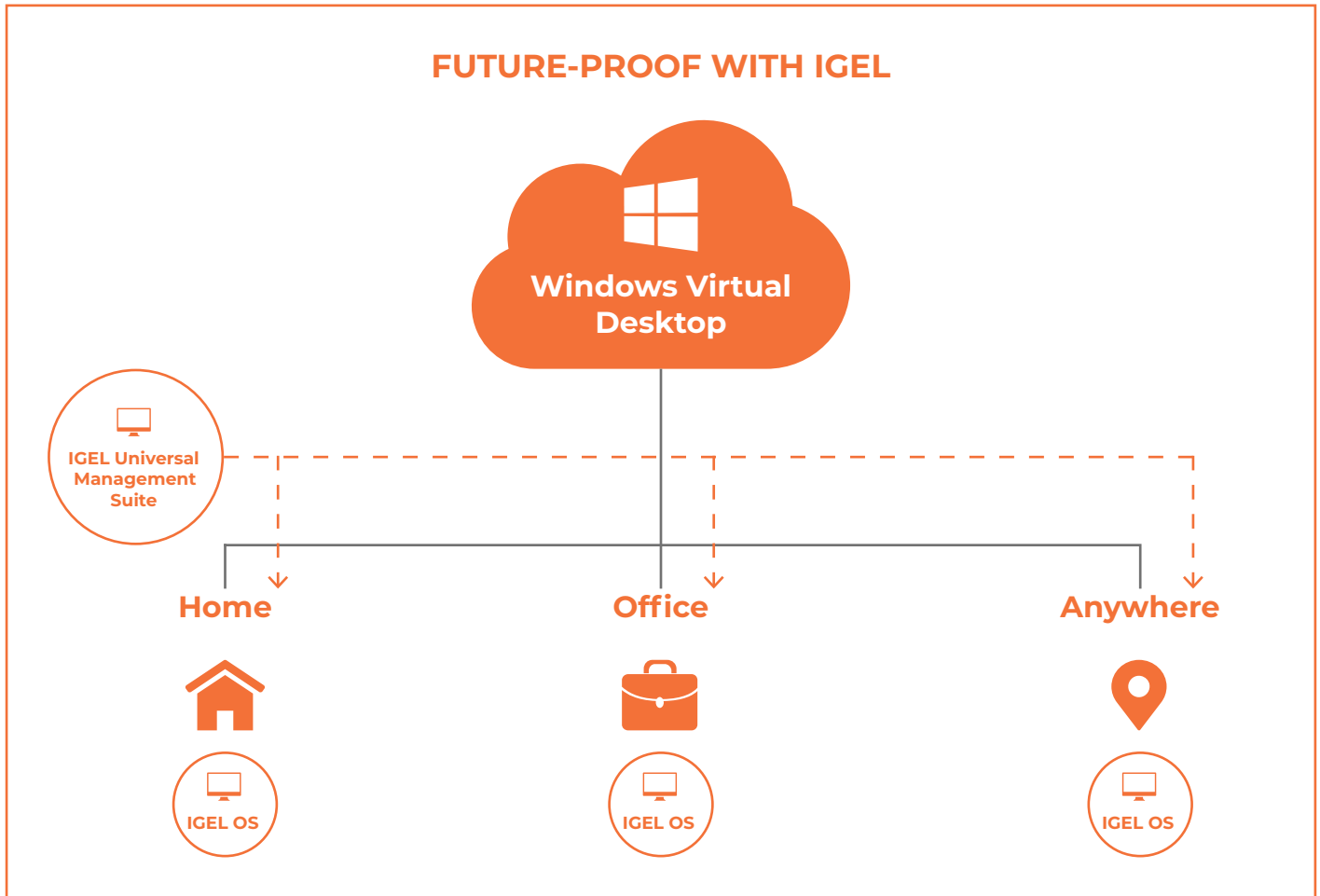


THE PERFECT PAIRING: WVD AND IGEL OS

It's clear that WVD brings a host of capabilities that promise to make enterprise end user computing more powerful, convenient, and economical for organisations around the globe. And IGEL adds the perfect complement to WVD with IGEL OS, the next-gen edge OS for cloud workspaces. As a lightweight, simple, and secure Linux-based endpoint, IGEL OS is designed for secure access to WVD- delivered virtual apps, desktops, and cloud workspaces. Approved and verified for Microsoft Azure and Windows Virtual Desktop, IGEL OS is platform-independent software that runs on any compatible 64-bit x86 endpoint device. Its server-based management and control software, IGEL Universal Management Suite (UMS), comprise a highly scalable endpoint management and control solution that frees enterprises to take full advantage of Azure-based cloud instances and WVD apps and desktops, including Windows 10 Enterprise multi-session. Together, WVD and IGEL OS can vastly reduce endpoint hardware and endpoint device management and operations costs. IGEL OS is therefore the ideal endpoint OS complement to WVD.

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WELL CONNECTED

IGEL OS supports and stays current with all popular virtual apps, desktops, and cloud workspace client protocols from Citrix, Microsoft, and VMware via four primary software releases per year. A broad technology partner ecosystem of more than 85 leading partners ensures integration of the latest technologies: authentication, dictation, e-signature, unified communications, printing, USB management and many more. Organisations can move to WVD knowing they don't need to dramatically change their users' work environment. The growing list of shared IGEL and Microsoft WVD partners includes:

- Citrix
- VMware
- CloudJumper
- ControlUp
- deviceTRUST
- Lakeside Software
- Liquidware
- Login VSI
- PrinterLogic
- Tricerat

This extensive and growing group of technology ecosystem partners helps organisations to quickly adopt Windows Virtual Desktop services into their own unique user environments.

WINDOWS VIRTUAL DESKTOP AND IGEL OS

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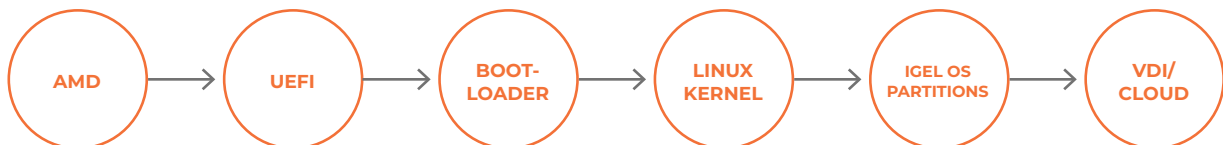
EXTENDING SECURITY FROM THE AZURE CLOUD TO YOUR USERS' ENDPOINTS

IGEL OS bolsters the many security features inherent with the Azure cloud and WVD with its own range of security features to extend your security blueprint all the way from the WVD services in the Azure cloud to each user's endpoint device. Specifically, IGEL OS is:

- Minimal in size for a very small "footprint" and thus minimised malware attack surface
- Read-only
- Modular by design, keeping endpoints as "lean" as possible and minimising the attack surface of the device by providing the ability to turn off unused features.
- Capable of delivering built-in enterprise level security with features like two-factor authentication, smart card readers, and trusted execution.
- Equipped with a unique "chain of trust" security architecture. Starting with the endpoint processor (select IGEL/AMD endpoint models) or UEFI, each key validation phase within the system boot process is checked and verified for integrity before the next phase in the process can begin. This helps ensure the system integrity from the hardware/UEFI all the way to the WVD cloud. As a result, IGEL OS makes accessing WVD even more tamper-resistant and hence safer!

THE CHAIN OF TRUST

- Ensures all components of your VDI/cloud workspace scenario are secure and trustworthy
- As each component starts it checks the cryptographic signature of the next, only starting it if it is signed by a trusted party (e.g., IGEL, UEFI Forum)



THE PROCESS

0. On the new AMD-driven endpoint model UD7-LX 11 a dedicated security processor checks the cryptographic signature of the UEFI
1. Other IGEL devices: Chain starts at UEFI
2. UEFI checks the bootloader for a UEFI Secure Boot signature
3. Bootloader then checks the IGEL OS Linux kernel
4. If the OS partitions' signatures are correct (starting with IGEL OS 11.03), IGEL OS is started and the partitions are mounted
5. For users connecting to a VDI or cloud environment, access software such as Citrix Workspace App or VMware Horizon checks the certificate of the connected server

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EASY AND ECONOMICAL

IGEL OS further complements WVD by being extremely easy to manage and operate while driving down expenses. Consider the following factors:

- IGEL OS **saves money** to help ease the transition to WVD by minimising capital expenditures (CAPEX). By extending the life of existing hardware, it postpones, in some cases for years, the cost and disruption of the dreaded “PC hardware refresh”.
- IGEL OS is **simple!** Easy to use, it features no-touch deployment and drag-and-drop profiling that can make any IT admin’s task of connecting user endpoints to WVD significantly less time consuming.
- IGEL OS is **flexible**. Firmware licenses are portable and can be assigned to other devices.
- If a WVD user acquires or decides to change their endpoint device, that user’s IGEL OS license can be quickly and easily transferred to the new device.
- IGEL OS is designed to be **highly customisable**. For example, corporate branding or unique screensavers for corporate messaging can make endpoint devices look and perform exactly as desired in accordance with a customer’s requirements. So, organisations of almost any size can move their desktops to WVD and retain the familiar and consistent desktop “look and feel” their users prefer.

With a vast installed base of over 3 million IGEL OS-powered clients used by over 17,000 customers, organisations can be confident that with IGEL OS, they already have a great endpoint OS for accessing WVD! Enterprises can subscribe to Windows Virtual Desktop from the Azure cloud with full confidence in the integrity, security, and manageability of their users’ endpoint devices. For those organisations with many desktops still running Windows 7 desktops (there are many millions out there), there is no easier way to migrate to Windows 10 via WVD from the Azure cloud by simply loading IGEL OS onto their endpoints. It’s Windows 10 migration that’s quick and easy!



You can learn more about how IGEL OS and WVD make the “perfect pair” for easy, safe, and economical end user computing at:

www.igel.com/wvd