

# Ultimate Guide to Implementing Digital Workspaces with HP Anyware

Unlock the productivity of your hybrid workforce with HP Anyware to seamlessly and securely connect users to their remote or virtual workstations, no matter where they work – in the office, at home, or on-the-go



Over the past few years, more businesses have adopted digital workspaces to enable a seamless and productive hybrid work experience. As a result, chief information officers (CIOs) and IT Decision Makers (ITDMs) have had to pivot their strategies so they can choose software to securely deploy and manage digital workspaces at scale.

This is an IT reality that is unlikely to change. According to HP's Work Relationship Index and [The Future of Work Study](#) published with The New York Times in January 2024, only 16% of respondents surveyed prefer a traditional office work schedule.

**“Technology factors here, too. Work is not about location; it’s about being equipped to be flexible, productive and secure whatever the “work from” policy is today.”**

There are many benefits to using digital workspaces to enable hybrid policies. In this e-guide, CIOs and ITDMs will learn about the key considerations when planning digital workspaces, and the infrastructure and security requirements of digital workspaces. We'll also be sharing tips to help make your digital workspaces deployment a success using HP Anyware\* so employees can be productive and collaborative in a hybrid environment, with secured access to their workspaces and corporate applications, no matter where they're logging in from.



## Digital workspaces defined

A hybrid worker may work a few days on-premises, other days at home, sometimes at client offices or event sites, and even while they're travelling. Due to the constantly changing locations, users need to be able to access their workspaces securely and reliably from wherever they are.

Digital workspaces are highly secured, work-from-anywhere, integrated technology frameworks and can thus deliver, manage and control centralized company assets, such as data, business applications, and desktops.

Digital workspaces encompass a variety of devices and infrastructure, including virtual desktop infrastructure (VDI), data centers, edge technology, and workstations.

Additionally, digital workspaces can be hosted on-premises, or in the cloud. Digital workspaces also extend to different endpoints and collaboration technologies, as well as IT administrative and management tools and secure access policies and tools.

## The difference between 'digital workspaces' and 'digital workplaces'

Recent global events have introduced several new business terms, many of them used interchangeably or sometimes, incorrectly. 'Digital workspaces' and 'digital workplaces' are two terms that are often confused. But they do not mean the same thing, and it's important for ITDMs to know the difference.

### Digital workplace

A digital workplace is a company's entire portfolio of applications, devices, facilities, and enabling services that elevate digital dexterity and power new ways of working. It contributes to employee experience and engagement.

### Digital workspace

A digital workspace is a subset of the digital workplace. Digital workspaces are dynamic and tailored to the needs of the user and can exist on private or public clouds, as well as on on-premises server stacks. They offer a personalized experience to the individual employee with the applications and services each user requires. Employees can also use a variety of devices, including laptops, desktops, Zero Clients and Thin Clients, tablets and mobile phones to access the digital workspace from wherever they have network connectivity.



# Planning for digital workspaces implementation

A digital workspace is a necessary solution to many hybrid problems. Common issues with hybrid work, including performance and technology problems, collaboration challenges and increasing security threats, can all be solved by implementing digital workspaces.

However, before making the leap to investing in digital workspaces and software solutions, ITDMs need to consider several key factors. While the decision to adopt digital workspaces is a collective one including HR, finance, operations, and the C-suite, IT has a huge say in how to do it.

Here are a few key considerations when moving to digital workspaces and how HP Anyware can help businesses decide.

## 1. Staff and company considerations

If employees don't want to adapt to new technology, forcing them to change will only breed resentment, and productivity will be negatively impacted.

Open communication in the early stages of hybrid planning is crucial. C-suite executives need to outline their business strategy and budgets. Management can survey employees to understand their requirements regarding performance. And ITDMs will need to assess the company's security and technology requirements and make suggestions for software and hardware needed to implement digital workspaces.

**How HP Anyware helps:** Remove barriers to accepting digital workspaces with HP Anyware, which is easy to deploy on virtually any mix of host environments and end-user devices. HP Anyware is compatible with a variety of network infrastructure including LAN, WAN, LTE, or 5G, and doesn't need a VPN connection. For users, HP Anyware offers a great deal of flexibility so they can work on virtually any type of device, attach multiple 4K monitors and peripherals to be their productive best even under varying network conditions.



### 2. Weigh performance and collaboration needs

Hybrid businesses have shared several concerns around productivity and collaboration. If employees aren't getting the same user experience in a hybrid environment as they would while working in the office, they aren't going to be as productive. The same goes for collaboration, which has been a challenge for a few years now. It's harder to collaborate when colleagues aren't in the same place at the same time.

Understanding user needs before implementing digital workspaces is a crucial step. Are the users primarily knowledge workers or do they work on graphics-intensive applications? How often do users need to collaborate internally and/or externally? How can they securely share content?

IT will be able to make recommendations for how to implement digital workspaces and what kind of access software to invest in depending on the needs of the users.

**How HP Anyware helps:** With HP Anyware, users can achieve a similar experience of being in the office even when they're working from home, at an event, or when they're using a tablet or mobile phone. HP Anyware is built on **PC-over-IP (PCoIP®)** technology that ensures a color-accurate, lossless, and distortion-free user experience with low latency. Even for graphics-intensive users such as visual effects (VFX) artists, animators or video editors, HP Anyware offers smooth frame video playback, coupled with precision A/V synchronization to ensure creative freedom from everywhere.

Collaboration is also easier with HP Anyware. Share your screen and invite others to take control of the keyboard and mouse for highly

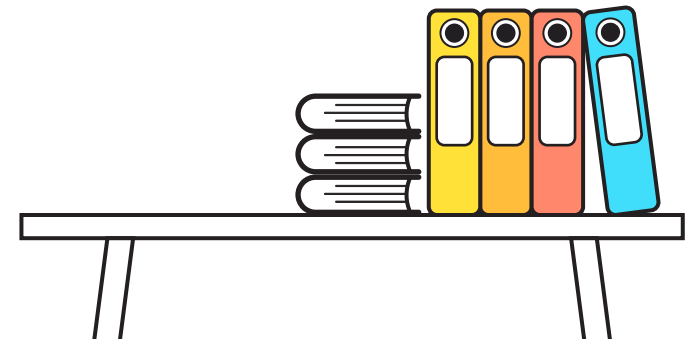
interactive real-time collaboration sessions. Additionally, HP Anyware supports USB webcams for video conferencing apps like Microsoft Teams and Zoom.

### 3. Implement training and automation

Once it's decided that digital workspaces are the best way to improve productivity and collaboration for the business, there's still more work to be done. Implementation isn't the final step. It's arguably the first. Employees, both existing and new, will require training in how to access their digital workspaces so that they have autonomy and don't need to rely on the IT team too heavily.

Automations will also need to be set up so that workflows are triggered without IT intervention. IT should be required only for troubleshooting and iterating on technology, not for manually onboarding every employee or new hire.

**How HP Anyware helps:** The HP Anyware team has created help and support documents that IT teams can use to create in-house guidelines and training materials according to their business vertical. Need more advice on internal training for digital workspaces and HP Anyware? [Connect with an HP Anyware expert.](#)



## 4. Digital workspaces KPIs

Digital workspaces are evolving, as are the access software options in the market. IT will need to keep abreast of changing technology and relate it to the needs of the business and employees.

Below are seven key performance indicators (KPIs) that IT should track regularly:

---

### 1. Accelerated time to value

The amount of friction faced when developing and deploying the digital workspaces solution before it delivers value to users and the company.

### 2. Service availability

This KPI is for tracking the frequency and length of time that employees, vendors or customers are able to access digital workspaces.

### 3. User experience

Track the amount of troubleshooting required for logging in, level of performance and productivity, access to applications, rates of satisfaction and churn.

### 4. Future-ready micro-services

The scalability of smaller components of the digital workspaces solution and how well they cover redundancies.

### 5. Cost of resources

How expensive has the implementation of digital workspaces been as compared to before they were deployed?

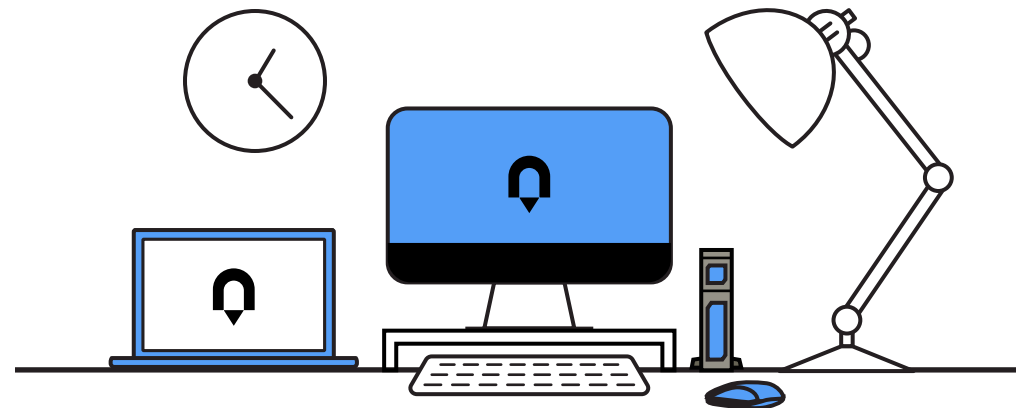
### 6. Security metrics

Improved operational efficiencies that can be attributed to a more robust security footprint, as well as how quickly IT is able to detect, quarantine or eliminate threats.

### 7. Sustainability

Decrease in the company's carbon footprint, how long endpoints can be reused and repurposed by deploying a digital workspaces solution.

**How HP Anyware helps:** Tracking digital workspaces KPIs becomes easier with HP Anyware Manager, which can be installed in the host environment. Alternatively, Anyware Manager can be accessed as a service by IT Administrators to easily provision sessions and manage user-access to shared digital workspaces.



# Infrastructure requirements for digital workspaces

Digital workspaces offer a great deal of flexibility in terms of infrastructure and deployments. Since digital workspaces are virtual, they can be hosted on a variety of infrastructure, cloud or hardware, and accessed using numerous devices, both on-prem and online. All the user needs is their HP Anyware subscription and a network connection to access the digital workspace.

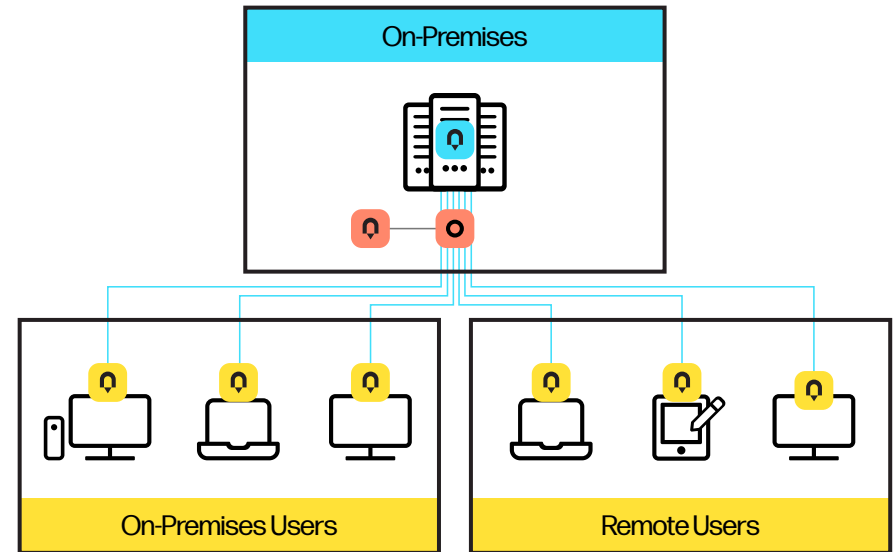
Below are four technology options for implementing digital workspaces for a business.

## 1. On-prem data centers

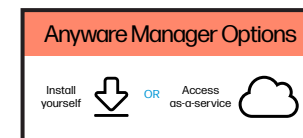
Data centers can be hosted onsite or offsite, with on-prem data centers generally being privately owned and managed by businesses. Digital workspaces can be installed on physical towers and rack mounted servers. Since on-prem infrastructure is kept in a secure area that the company manages, IT teams can administer digital workspaces safely.

On-premises digital workspaces ensure a level of control for the company as the physical technology that houses the digital workspace is only accessible by select individuals in the organization.

Businesses can employ HP Anyware software to maintain flexible hybrid work models even when their data center is on-prem. HP Anyware offers collaboration features for employees to invite others to sessions where they can share screens and work together or with customers and partners, much as they would if they were in an office together.



- Anyware Agent
- Anyware Clients
- Manager
- Connector
- PCoIP® Session



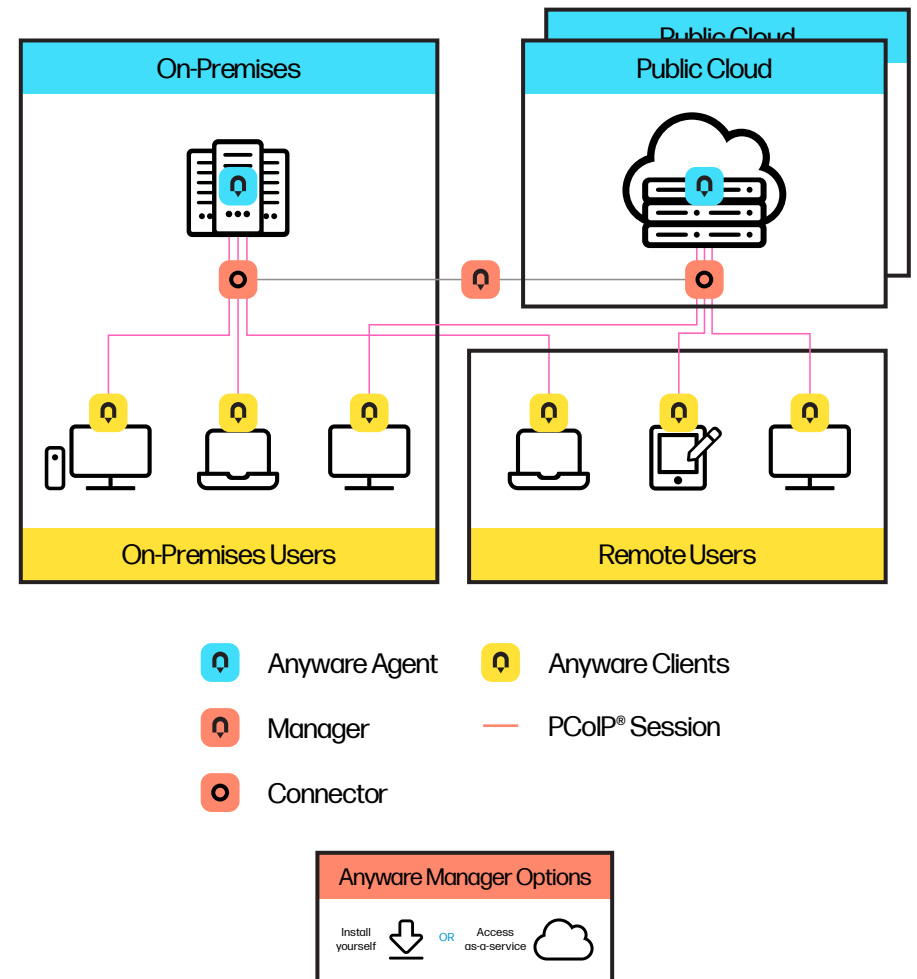
## 2. Cloud infrastructure

Not all businesses want the responsibility and CAPEX overheads associated with data center ownership. It can be a costly investment and rack servers have specific maintenance needs.

Instead, companies can opt for a truly hybrid workflow by hosting digital workspaces on a cloud, multi-cloud, or hybrid infrastructure that includes both cloud and on-prem technology.

Whether private or public, cloud infrastructure is a scalable option for businesses, while also being highly accessible from various locations simultaneously. Employees can access their digital workspace from any device and any location and pick up exactly where they left off. This is a massive benefit as it cuts down on overheads for businesses and allows users the flexibility to use their own devices or company-managed devices.

HP Anyware is deployed on major public clouds including Amazon Workspaces (AWS), Google Cloud (GCP), and Microsoft Azure. Organizations that want to host their digital workspace on a public or private cloud can easily use HP Anyware to securely access their workspace on the cloud.

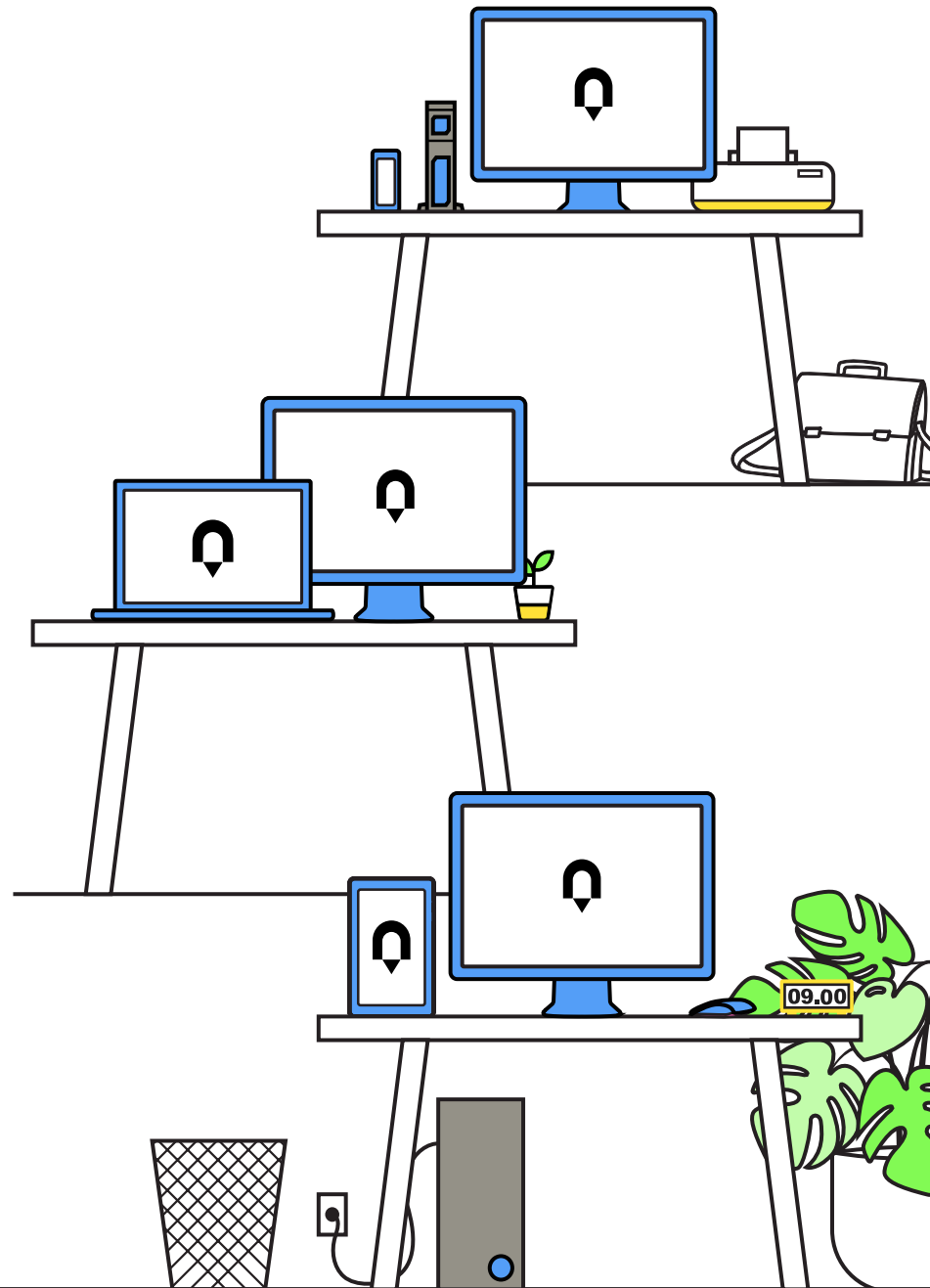


## 3. Endpoints and workstations

Digital workspaces offer businesses a great deal of flexibility in terms of endpoints. Whether the digital workspace is hosted on on-prem servers or on the cloud, businesses can equip users with various types of endpoint devices, including laptops, desktops, Zero Clients, Thin Clients, tablets, or standalone physical desktop machines. Since business data is centralized, employees can access the digital workspace from any type of device.

HP Anyware includes three components—1) Anyware Agents, 2) HP Anyware Manager, and 3) Anyware Clients. Anyware Agents are compatible with hosts running Windows, Linux, or MacOS including standalone or virtualized desktops and workstations, on-prem data centers, edge, cloud, multi-cloud, or hybrid environments. Anyware Clients can be installed on any type of device, such as a PC, Mac, laptop, Chromebook, or tablet, and comes pre-installed on integrated monitors, Zero Clients, or Thin Clients. Anyware Clients are compatible with end-user devices running Windows, Linux, MacOS, ChromeOS, iOS, or Android.

Employees will rely on IT for the initial installation of the HP Anyware digital workspaces solution. But once the Anyware Agent is installed, IT can include the Anyware Client onto any device so employees can securely login to the digital workspace and work from anywhere.

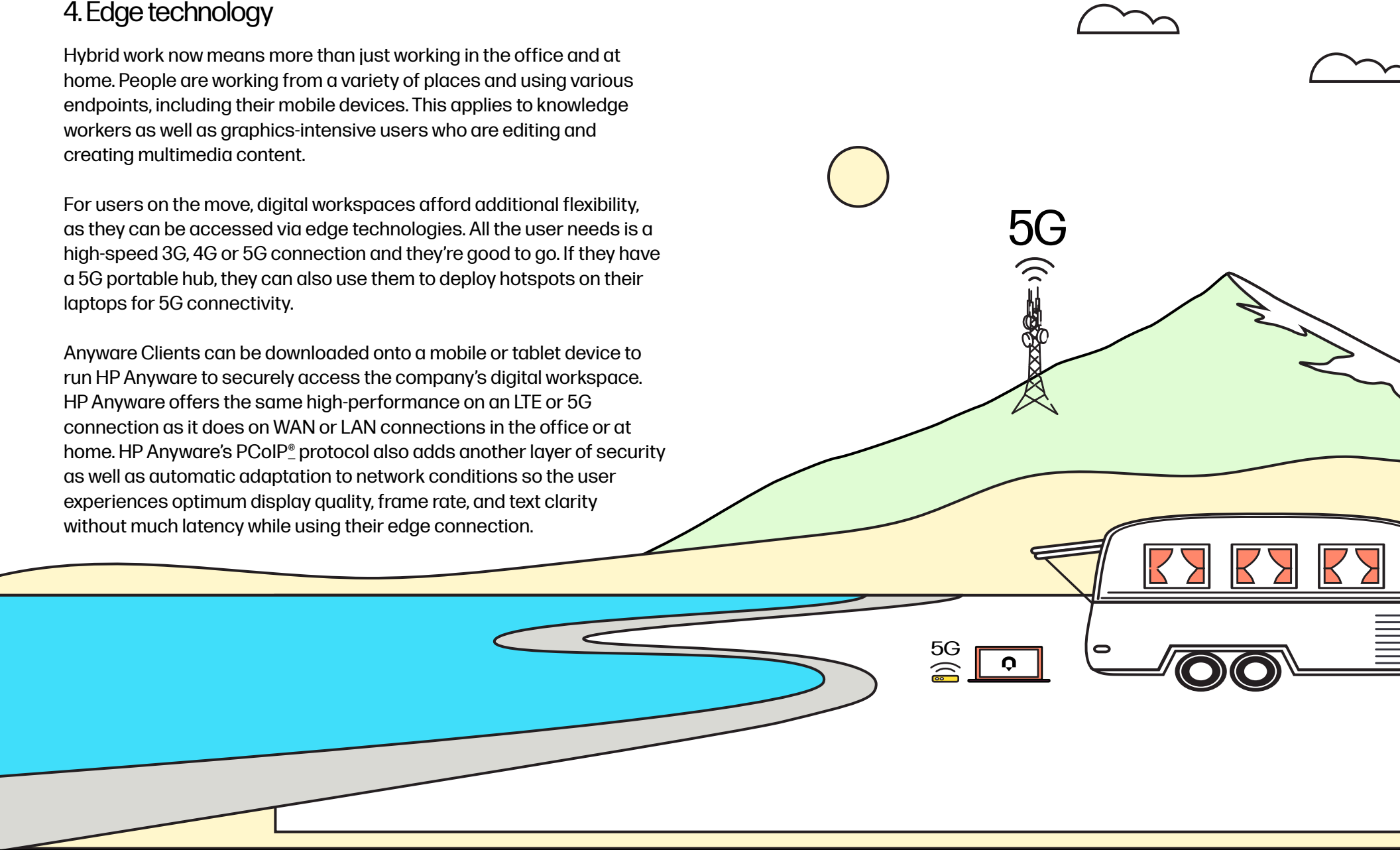


## 4. Edge technology

Hybrid work now means more than just working in the office and at home. People are working from a variety of places and using various endpoints, including their mobile devices. This applies to knowledge workers as well as graphics-intensive users who are editing and creating multimedia content.

For users on the move, digital workspaces afford additional flexibility, as they can be accessed via edge technologies. All the user needs is a high-speed 3G, 4G or 5G connection and they're good to go. If they have a 5G portable hub, they can also use them to deploy hotspots on their laptops for 5G connectivity.

Anyware Clients can be downloaded onto a mobile or tablet device to run HP Anyware to securely access the company's digital workspace. HP Anyware offers the same high-performance on an LTE or 5G connection as it does on WAN or LAN connections in the office or at home. HP Anyware's PCoIP® protocol also adds another layer of security as well as automatic adaptation to network conditions so the user experiences optimum display quality, frame rate, and text clarity without much latency while using their edge connection.



# Security requirements for digital workspaces

As more organizations pivot to incorporating digital workspaces, IT will have to make important decisions around security.

There has been an increase in cybersecurity incidents over the last few years. IT can't rely on traditional or established security protocols. They need to be aware of the latest threats and the best ways to mitigate them.

Below are the best ways to ensure digital workspaces are secure when employees access them from wherever they work.

## 1. PCoIP® technology

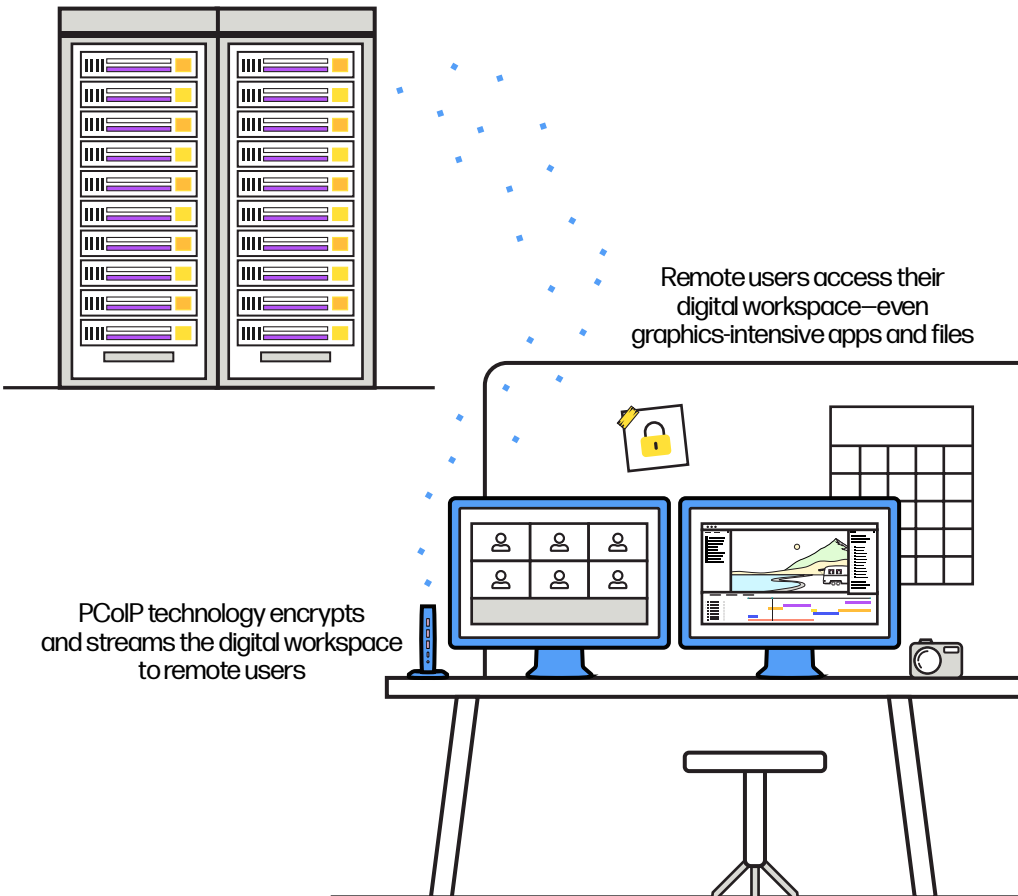
One of the best ways to secure digital workspaces is through software solutions that include their own additional security parameters.

HP Anyware is based on the patented PCoIP® remote display protocol that connects users to the resources they need to work wherever they are. Designed for security and performance, PCoIP® technology is secured with AES 256 encryption which allows PCoIP traffic to meet the stringent security requirements set by governments.

HP Anyware's PCoIP® technology streams highly-encrypted content from the digital workspace, which then gets decrypted on the client device, which is why no business data ever leaves the data center, thus ensuring that confidential information can stay safe [Download this whitepaper for an in-depth understanding of PCoIP.®](#)

PCoIP® also offers a powerful user experience for knowledge workers and graphics-intensive users alike. With PCoIP® technology, users achieve nearly 100% color accuracy and text clarity, as well as low latency when interacting with data from the digital workspace on one's endpoint device.

Business data in the digital workspace never leaves the data center



## 2. Multi-factor authentication and Single Sign-On

IT can install multi-factor authentication (MFA) protocols to protect access to digital workspaces. MFA adds multiple levels of protection when a user tries to access company data or applications. By verifying the identity of the user through login credentials and a third-party authentication app, MFA can safeguard against cybersecurity threats.

HP Anyware is equipped with MFA protocols, as well as Single Sign-On, for additional verifications and to keep access to digital workspaces more secure.

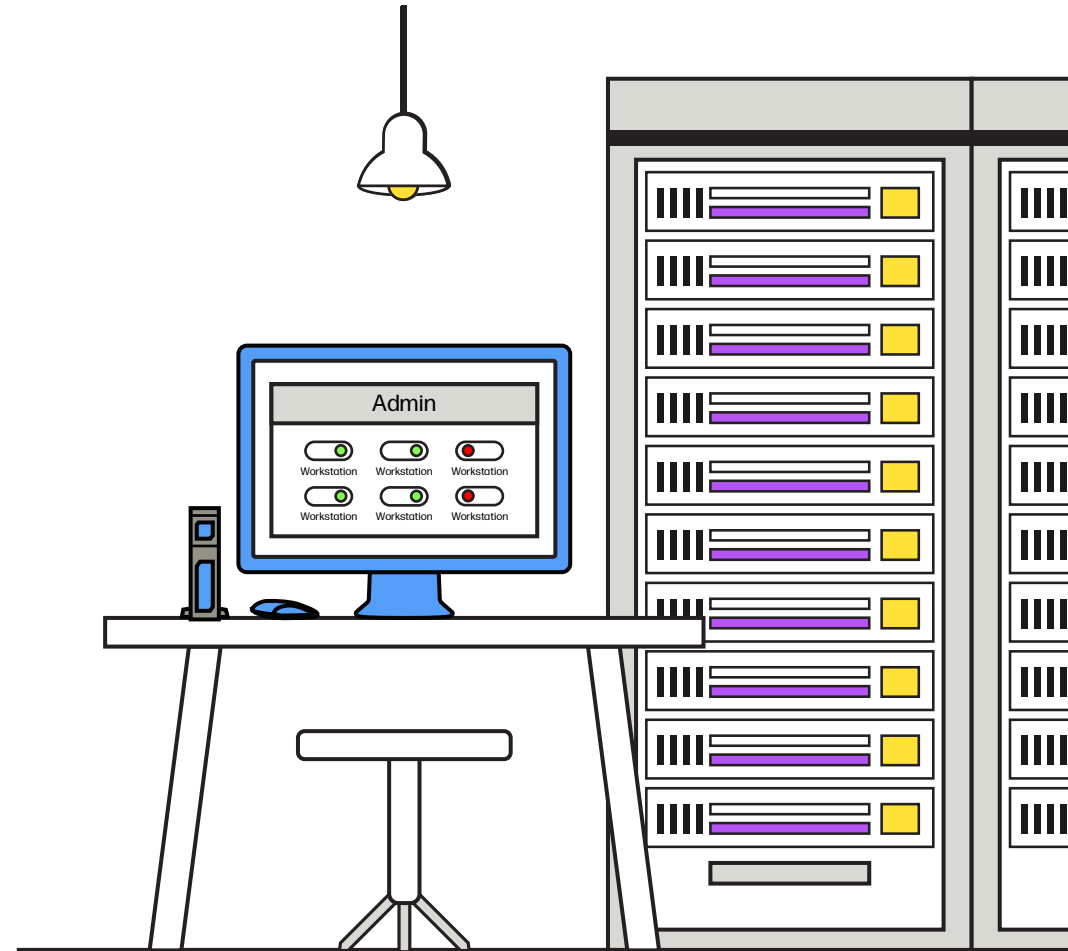
## 3. Remote digital workspace administration

A number of organizations now have employees spread around the world. Which means there are constant requests to access the company digital workspace. But what happens when employees finish their workday? Is access from their endpoint still open?

IT has a critical role in managing the security of digital workspaces. Alongside tracking updates to PCoIP® technology and ensuring that MFA regulations are set, IT also needs to ensure that digital workspaces aren't open to vulnerabilities. Turning off inactive connections, even if IT is working away from the digital workspace, is an important aspect of this role.

IT teams also need to have a connection management policy in place that will allow them to assign digital workspace resources according to the specific needs of employees. Not all employees need access to every business application, nor all parts of the data center. There is no reason to give carte blanche access to everyone.

With HP Anyware Manager, IT can efficiently provision and monitor PCoIP® connections for employees and manage user-access to shared digital workspaces so connections aren't idle long enough to be exploited by bad actors.



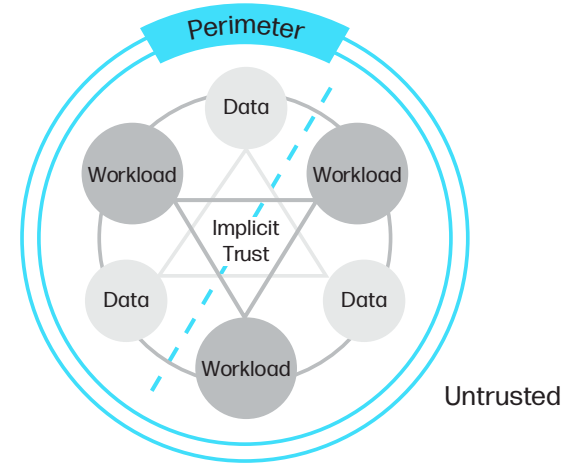
## 4. Zero Trust Architecture

Zero Trust is a philosophy of 'never trust, always verify'. It is a model for security that limits access to only verified users, devices, workloads, and data. The Zero Trust strategy, by default, distrusts all entities and technologies, affords all entities the least privilege, and constantly monitors access to digital workspaces.

Government organizations are already adopting Zero Trust principles into their security structures. But all industries can benefit from a Zero Trust strategy where nobody and no device gets complete access to data, devices, or applications.

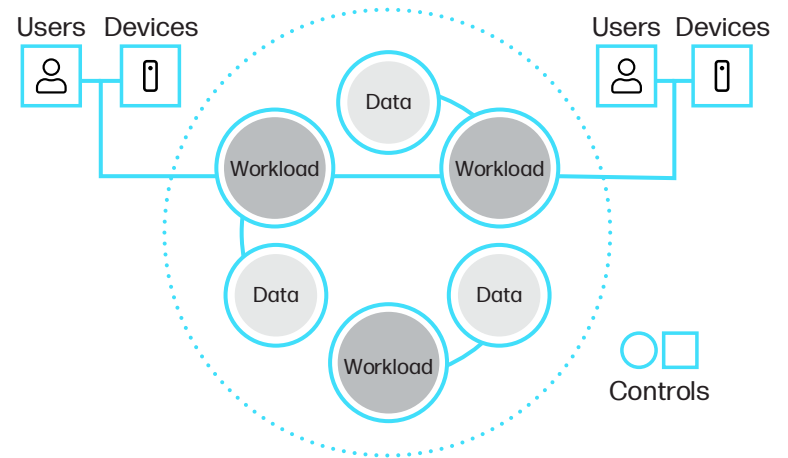
By limiting available resources and continuous monitoring, Zero Trust ensures that businesses keep their data safe in the digital workspace at all times. HP Anyware is already adopting Zero Trust principles around verification of user identities. [Download the whitepaper, How to Implement Zero Trust Device Security with Trusted Zero Clients and the HP Anyware Trust Center, to find out more.](#)

Traditional Perimeter Security Architecture



Security focus shifts from perimeter to users, devices, assets, and applications

Zero Trust Security Architecture



# HP Anyware offers secure access to digital workspaces

Hybrid workforces need the freedom to create, collaborate and work securely from virtually anywhere. That's where digital workspaces powered by HP Anyware\* come in.

HP Anyware is a high-performance software solution to transform PCs and workstations into digital workspaces and provide users with secured access to their remote or virtual desktops without a VPN, no matter where they work - in the office, at home, or on-the-go.

Future proof your IT strategy against ever-evolving infrastructure, network, and hybrid workforce demands with deployment flexibility for virtually any host environment or workload. Replacing slow and outdated VPN file transfers, HP Anyware leverages the PCoIP remote display protocol to stream highly interactive desktop displays between virtually any host (cloud, data center, edge, workstation) and end-user device (PC, Mac®, laptop, tablet), without any data ever leaving the safety of your network.

HP Anyware is a lightweight software available as a Standard subscription for everyday workloads running on standard CPUs, and as a Professional subscription for power users working with graphic- or data-intensive applications requiring GPUs.



Contact an [HP Anyware sales representative](#) to learn more about how HP Anyware for digital workspaces can work for your business.



**\*Disclaimers:**

- HP Anyware requires network access.
- HP Anyware supports Windows®, Linux® and MacOS® host environments and Window, Linux, MacOS, iOS®, Android®, and ChromeOS® end-user devices. For more on the system requirements for installing HP Anyware, refer to the Admin Guides at: <https://docs.teradici.com/find/product/hp-anyware>
- HP Anyware is based on the Teradici CAS software and licensing platform and is available through a 1- and 3-year subscription. HP Anyware subscriptions are based on the number of concurrent PCoIP connections used (pay for the number of host connections, not the software) with a minimum order quantity of 5. HP Anyware subscriptions gives you a license key to activate a connection to a hosted desktop as well as support and updates to the PCoIP Agents, PCoIP Clients and the Anyware Manager available for download here: <https://docs.teradici.com/find/product/hp-anyware>. For a limited time, an HP Anyware subscription also includes access and support for ZCentral Remote Boost and ZCentral Connect and is available for purchase through an HP seller or by contacting sales at: [hp.com/Anyware](http://hp.com/Anyware)