



Cluster Power Cloud Desktop

A flexible solution to empower your
business

April 2022



Why ClusterPower Cloud Desktop?

Innovation

- ✓ More innovation at faster pace



Costs

- ✓ Take advantage of cloud scale and economics



Agility

- ✓ Business agility and flexibility



Repeatability, Predictability, Availability

- ✓ Fast and predictable response to change and zero downtime



On-prem Desktop Virtualization Presents Challenges

1/3

Inconsistent User & IT
Administrator Experience



Variable user experience across device types and clients



High effort to setup, configure, and monitor security



Complex remote desktops management

On-prem Desktop Virtualization Presents Challenges

2/3

Unattractive
Economics



Poor scalability and **flexibility** of on-prem infrastructure



High upfront Capex costs not aligned to business use



High cost of delivering experience



High client and management licensing costs



High labor costs

On-prem Desktop Virtualization Presents Challenges

3/3

Non-standard Deployments
& Environments



Variability across multi-site, global deployments



High investment in security



Non-standard deployments limit available talent to
deploy/manage

Difference Between Traditional VDI/RDS and ClusterPower Cloud Desktop

TRADITIONAL VDI/RDS

- ✓ Entitlement
- ✓ Brokering
- ✓ Image Management
- ✓ Licensing
- ✓ Maintainance
- ✓ Network
- ✓ Servers / Storage
- ✓ Hosting

CLUSTER POWER CLOUD DESKTOP

- ✓ Entitlement
- ✓ Image Management
- ✓ Brokering
- ✓ Licensing
- ✓ Maintainance
- ✓ Network
- ✓ Servers / Storage
- ✓ Hosting

Managed by
Partner

Managed by
Cluster Power

Benefits of Cluster Power Cloud Desktop (1/2)

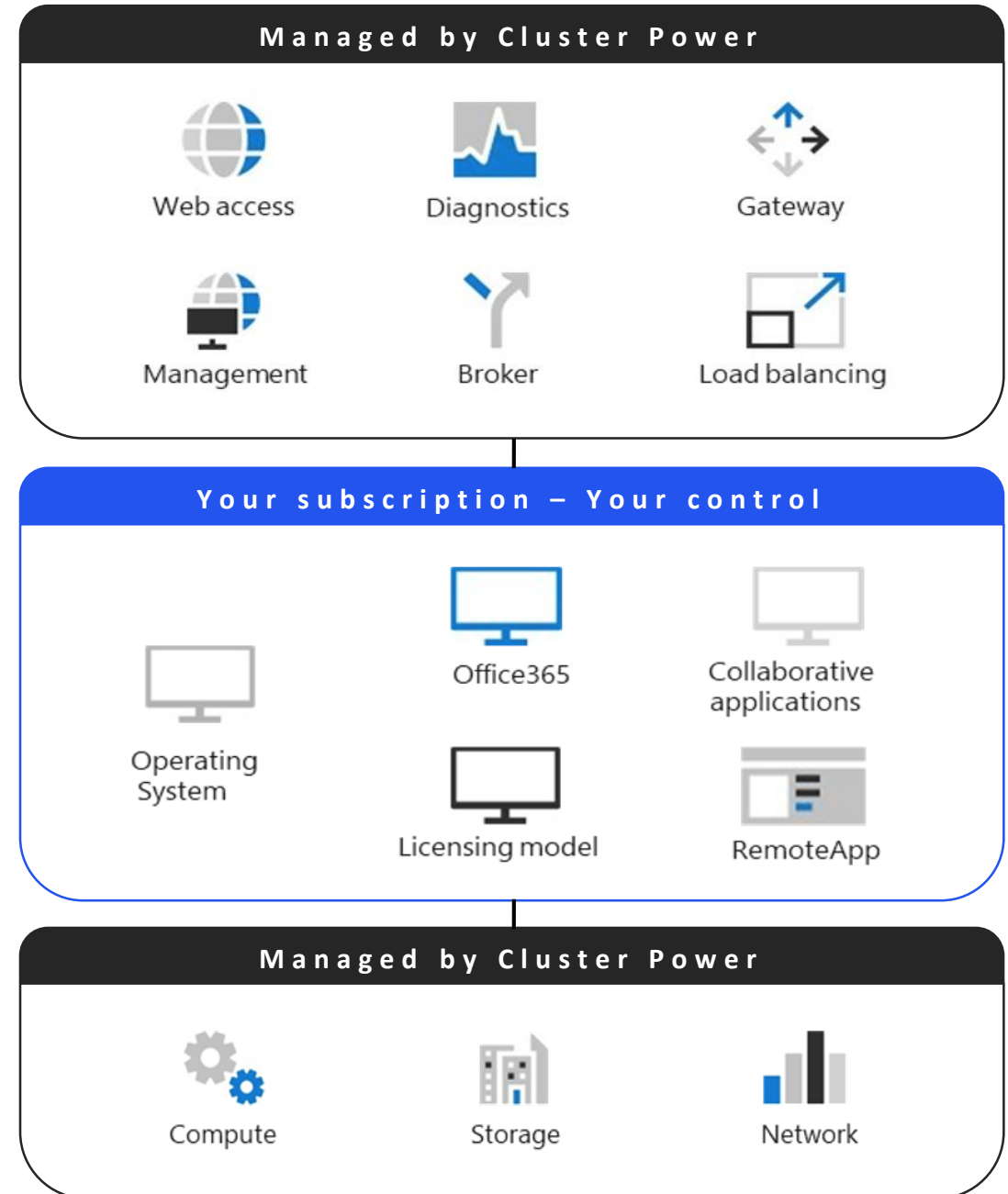
- **Security** – One way in which our virtual desktops can be superior to physical desktop machines is security. Data is stored in the CP Data Center and not on individual endpoint machines, which can allow for greater data security. If an endpoint device is stolen, it does not contain any data for thieves to access.
- **Flexibility** – For organizations with a flexible workforce, virtual desktops have a clear advantage. IT administrators can quickly and easily allocate virtual desktops without the need to provision expensive physical machines to users who might only need them for a short time.

Benefits of Cluster Power Cloud Desktop (2/2)

- **Cost** – Because virtual desktops require less physical equipment and maintenance, they can be more cost-effective than physical desktops.
- **Easy management** – An IT department can easily manage a large number of far-flung virtual desktops from a central location. Software updates are faster and easier because they can be done all at once instead of machine by machine.
- **Computing power** – Thin clients are all that are needed for virtual desktops because the computing power for the desktops is coming from a powerful data center.

High Level Architecture

- Provide virtualization infrastructure as a managed service
- Deploy and manage virtual machines in Cluster Power Cloud
- Connect easily to on-premises resources





Compliance & Latency Considerations



General

- ✓ Users can be anywhere on the Internet
- ✓ VMs will be hosted in Cluster Power Datacenter in Romania



Data Sovereignty

- ✓ Customer/user data locale is controlled by administrator based on VMs, File Shares
- ✓ Service metadata (e.g. which user is connected to which VM) is stored in Romania



Connection Latency

- ✓ Latency will vary based on the location of user, VM, and CP Cloud Desktop services
- ✓ Latency will continuously improve as CP Cloud Desktop services are deployed to new geographies
- ✓ Web-based tool provided to estimate latency from user location to Cluster Power Datacenter

Secured and Well-Managed IT Environment



Productive



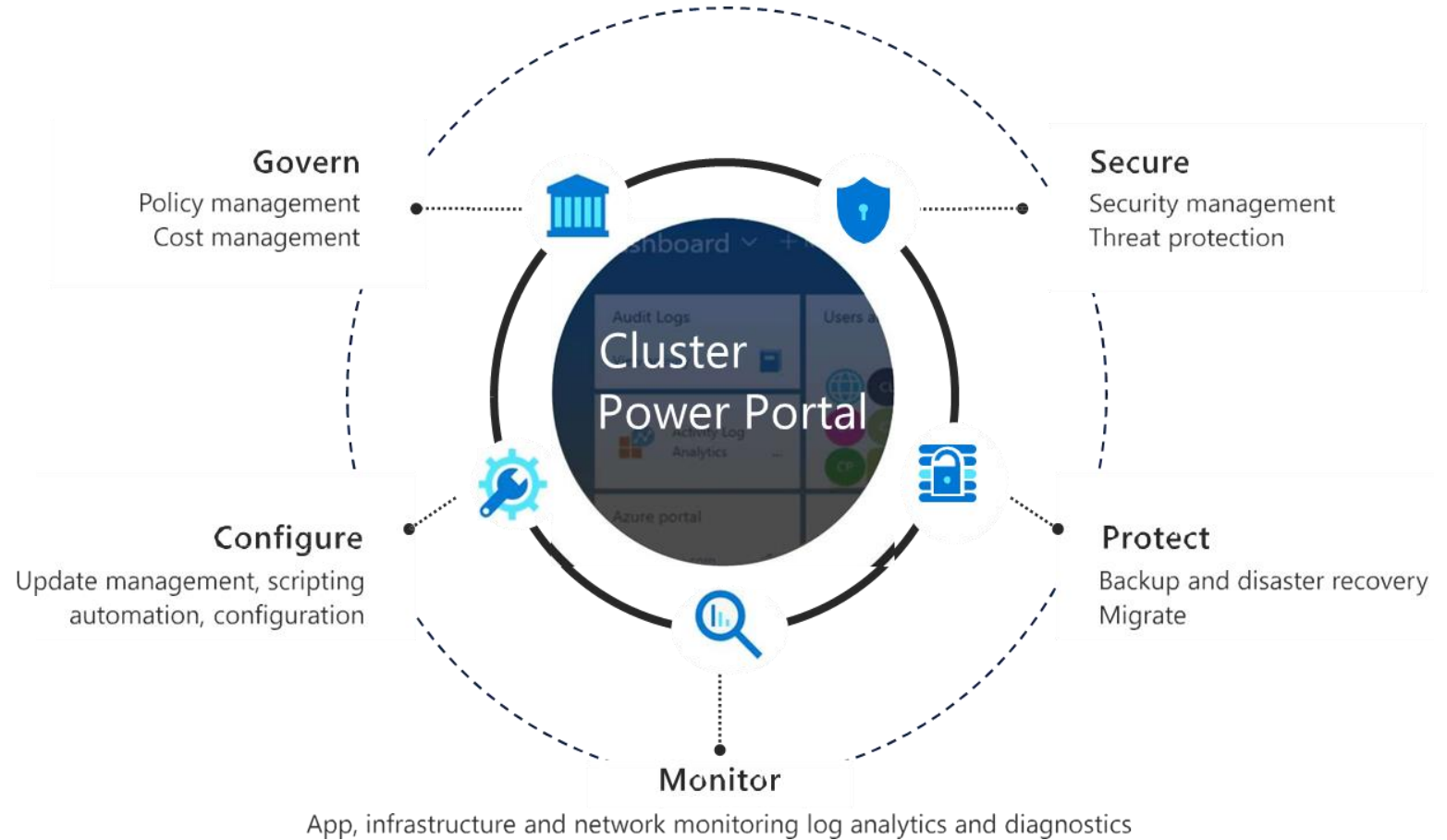
Hybrid



Intelligent



Trusted



Cluster Power Desktop Services (1/2)

Powered by NVIDIA

Native-PC Experience

Utilize NVIDIA software with GPUs to deliver responsive, virtual workspaces that perform like native PCs, for every user. Now, mobile professionals and knowledge workers can enjoy virtual desktops that are optimized for web conferencing and productivity applications.

Multiple Monitor

Support multiple HD displays and up to two 4K or one 5K-resolution displays to expand your workspace, enhance multi-tasking, and increase productivity.

Video Performance

Optimize video performance and scalability through hardware encode/decode via NVIDIA NVENC. Support the latest video-compression standards, including HEVC/H.265 codec.

Cluster Power Desktop Services (2/2)

Powered by NVIDIA

Better Server Density

Bypass the challenges of modern applications and operating systems such as Windows 10 that are more graphics intensive and result in lower server density of VDI deployments. Increase user density and deliver a better user experience with NVIDIA virtual GPU solutions.

Linux OS Applications

Deliver the benefits of like-native performance of VDI environments to software developers and EDA designers who rely on a Linux-based development environment.

Investment Protection

Support increasing graphical requirements of Windows 10 and modern productivity applications, with continuous innovation delivered through every vGPU software release.

Cluster Power Desktop Services - Packages

Service name	Office User	Office PRO User	Power User	Engineering User
GPU Frame Buffer Profile	1GB	2GB	2GB	2-8 GB
vCPU	2	4	8	16
RAM	4GB	8GB	16GB	32-122GB
Storage	80GB	80GB	160GB	320GB
Number of displays	2 @ FullHD	4 @ FullHD	4 @ FullHD	4 @ FullHD
	1 @ 4K	2 @ 4K	2 @ 4K	2 @ 4K



Thank you for your attention!

Let's connect!

HQ: Cluster Power, 29-31 Telescopului Street, Bucharest
Tech Campus: Cluster Power, 2 Viitorului Street, 207405 Mischii,
Dolj

www.clusterpower.ro | office@clusterpower.ro