

Using VMware View with the Pano System

Solution Brief

What is VMware View?

VMware® View™ is a comprehensive suite of VMware software products and technologies that support a wide range of Virtual Desktop Infrastructure (VDI) architectures. Only two of the products included in View are required or recommended for Panos while most are optional but compatible and can add value.

How Do Panos work on VMware View?

Required:

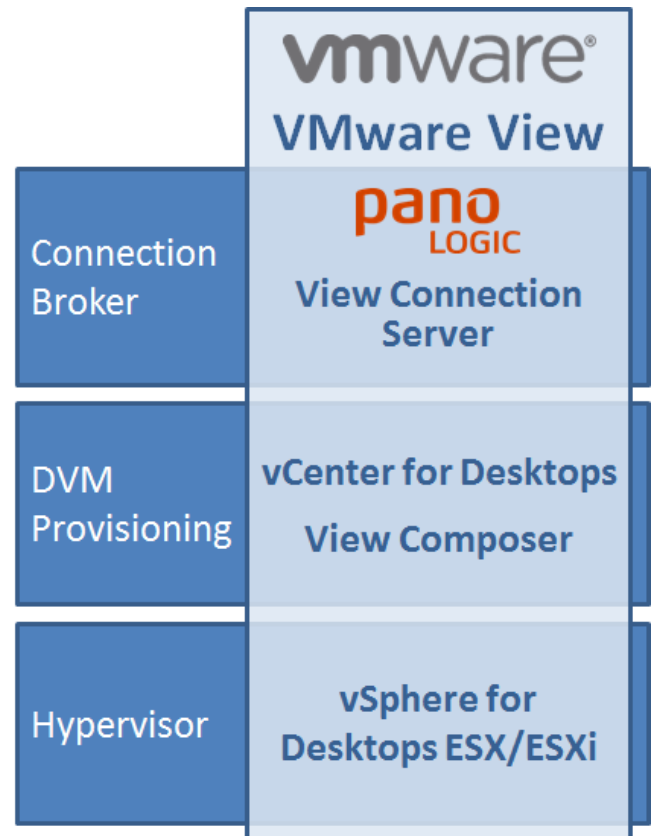
- **VMware vSphere for Desktops – ESX / ESXi:** hypervisor that runs desktop virtual machines (DVMs) – same software as server-based vSphere but licensed by concurrent DVM and restricted to virtualizing desktop operating systems.

Recommended:

- **vCenter for Desktops:** advanced configuration, deployment, and provisioning tool for ESX servers – recommended for all but single ESXi server Pano System deployments, integrates with Pano Controller to support DVM collections and advanced provisioning options for DVMs.

Optional:

- **View Connection Server:** used for connection brokering and DVM management – recommended in very large or mixed (Pano Zero Clients plus PCs/thin clients) deployments.
- **View Composer:** DVM provisioning & storage optimization tool for linked clones - recommended only where 1,000+ DVMs being deployed and IT staff has expertise as management and support issues can otherwise outweigh any storage savings.



When could you use VMware View with Panos?

For many Pano System deployments, the only VMware products strictly needed are vSphere's ESX or ESXi hypervisor and the vCenter DVM provisioning and management tool. However, deploying on VMware View provides added leverage for using for View Connection Server and View Composer with the Pano System:

- You need to manage a mixed or hybrid VDI client device population that includes both Pano Zero Clients and thin clients or PCs running View Client.
- You have 1,000 or more DVMs, storage space is a critical cost factor, and your IT group has the VMware expertise to implement View Composer's linked clones.

Is PCoIP Required?

PCoIP is an optional protocol for View thin clients and isn't required for VDI or for Panos. PCoIP was designed by Teradici for remote computing edge cases rather than virtual desktops – e.g. where a single user is performing graphically intensive work, such as video editing or CAD/CAM design, connected one-to-one to a dedicated workstation or blade server. And PCoIP requires either proprietary chips or excessive allocations of processing power at both the server and the endpoint, driving up hardware and software costs.

Does Pano Support PCoIP?

The Pano System is a paradigm shift in desktop computing. The Pano Direct Protocol®, which is used in Pano Zero Clients and Pano Controller instead of repurposed legacy protocols like PCoIP or RDP, was purpose-built just for VDI and zero clients. It acts as a low-level highly efficient bus extension protocol that assumes there is no processing being done (or even possible) on the zero client device and delivers a VDI session over a local area network that typical users find equivalent to using a desktop PC. It doesn't require any extensions or specialized compression processing on either the server or the endpoint, keeping costs and complexity down.

License VMware View or vSphere/vCenter?

You can license the vSphere/ESX and vCenter components required for Pano deployments either through View seat-based licenses or via server-based licenses. We recommend you look at the following options based on your needs and existing licenses:

- View's per concurrent DVM license model may be the most economical choice if you don't already have any surplus ESX and vCenter licenses and if you need some of View's optional components.
- VMware also offers an add-on View license to convert your existing ESX/vSphere server licenses.
- If you choose not to deploy View's optional components, you can instead purchase additional vSphere/ESX and vCenter Server licenses or even use any surplus licenses you might have.
- The vRAM license limitations introduced with vSphere 5 might limit your deployment plans – View licensing currently does not have any limit on vRAM allocations.

More Information

More information on VMware's products can be found on their website at www.vmware.com – trial versions of most VMware software can also be downloaded from their website. For more information on the Pano System visit www.panologic.com, email sales@panologic.com, or call 650-454-8940 / 877-677-PANO.