



SANGFOR aDesk VDI vGPU Graphics Card Virtualization Solution

Simplicity. Productivity.

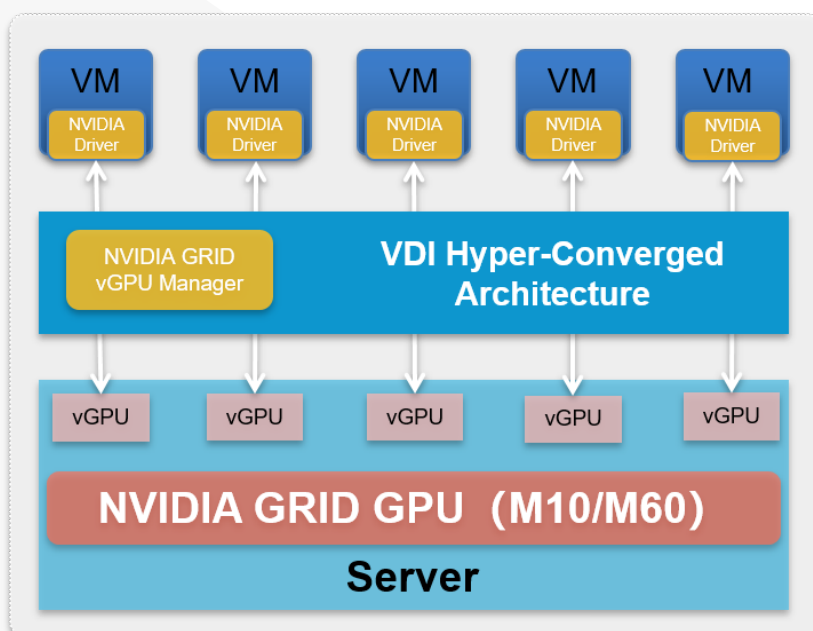
Application Background

Desktop cloud is the mainstream solution for building terminal infrastructure. It can be used in 3D design scenario to achieve "blueprint leakage prevention" and centralized operation and maintenance. However, if there is no graphics virtualization technology, using CPU to simulate GPU to achieve image rendering - either can only support a simple 2D CAD or PS; or be unstable or error prone. By no means can it meet the requirements of design business.

Sangfor vGPU Graphics Card Virtualization Solution

To meet the needs of professional design, Sangfor and NVIDIA have launched the industry's first end-to-end, KVM based vGPU (Virtual GPU) graphics card virtualization solution. Through deep integration of vGPU software, a lot of comprehensive optimizations of have been carried out by Sangfor. While providing customers with extreme user experience, it helps them realize a virtual pool of GPU resources, and more effectively allocate and manage hardware resources. Meet customers' GPU needs in the fields of graphics acceleration, rendering, 3D modeling, simulation, and computer artificial intelligence, and at the same time continually optimize the management features; truly realizes simplification, visualization and controllability of GPU resource deployment.

The implementation principles of Sangfor's virtual desktop cloud vGPU solution are as follow:



Key Benefits

You can speed up your business with Sangfor aDesk virtual desktop graphic acceleration cloud solution.

- Build up solution from small scale without any unnecessary extra cost.
- Linear dynamical expansion according to client's business requirement.
- All in one solution with Sangfor clone technology shrink deploy period up to 80%.
- Deliver fantastic user experience with aDesk vGPU solution.
- One click management boost management efficiency up to 80%.
- Multi security function to ensure the data is secured in the system.

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Solution Advantages

Sangfor Virtual GPU graphic card virtualization solution segments server graphic card resources through virtualization layer. For different scenarios, targeted optimization is carried out to dynamically adjust resources. GPU resource visualization helps enterprise information departments to make better decisions and achieve higher efficiency.

- **GPU Resource Visualization:** Display the current graphics card's load in real time. Through business load visualization, achieve on-demand investment. It can also dynamically display the distribution of current graphics card, so as to achieve flexible scheduling of graphics card and the best allocation of resources.
- **GPU Pool Scheduling:** Virtual GPU resources and authorization are automatically released after cloud desktop is turned off. It can achieve multi-user sharing of GPU resources and reduce user investment.
- **Improve Resource Utilization:** Virtual GPU brings higher performance to users through flexible segmentation methods, enabling users to improve their resource utilization in a more ideal way with higher flexibility.
- **Simplify O&M:** Information department can centrally manage all users in the data center. Manage users, and apply patch installation & troubleshooting on the virtual image from a single console.

**1 Man
1 Platform
Manages Everything**



- **Outstanding Experience:** In order to provide superior 3D fluency and meet the needs of design business, Sangfor has established a special R&D team to keep optimizing for the graphic design scenario.

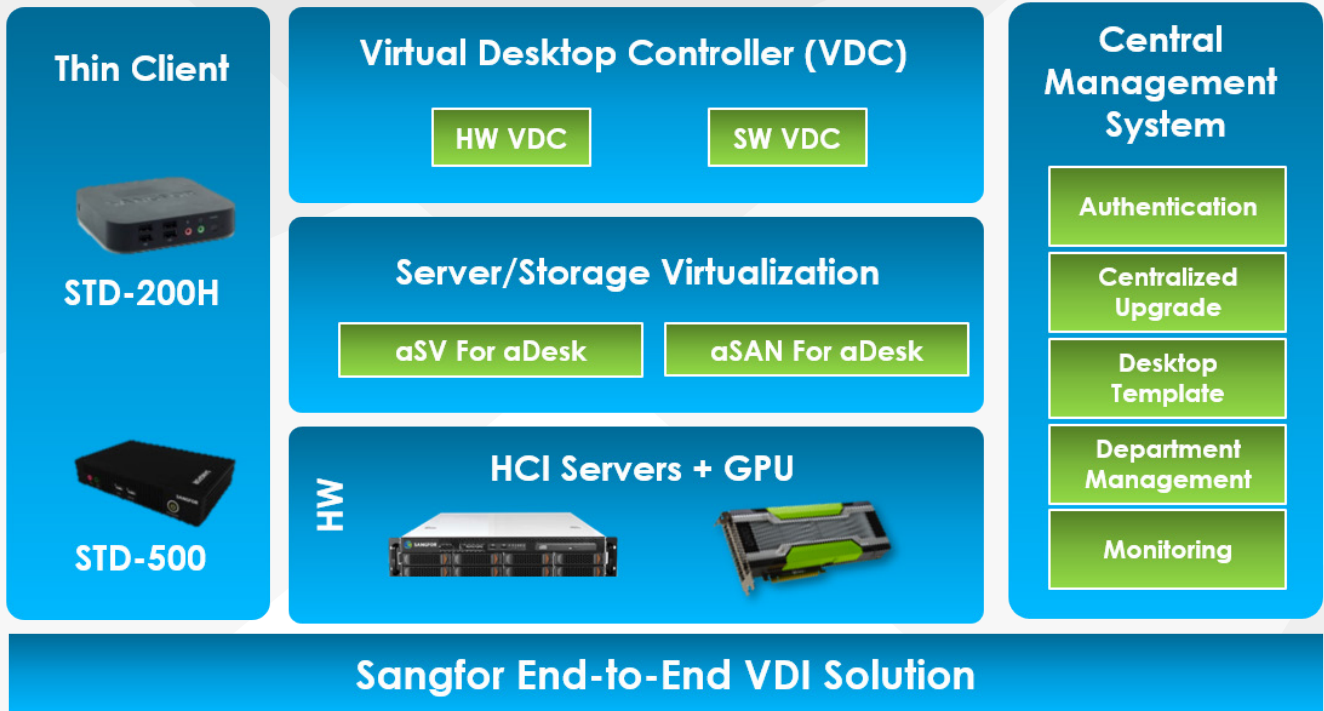
Applicable Scenarios

Sangfor's Virtual GPU graphics card virtualization solution supports graphics cards such as NVIDIA TESLA M10, NVIDIA TESLA M60, etc. It's also compatible with Catia, UG NX, Solidworks, ProE (Cero), AutoCAD, Maya, 3DMax and other common 2D/3D graphic design software. It can be widely applied to the design scenario of automobile parts, precision devices and electrical equipment, as well as to design institutes and research institutes. At the same time, it also meets the needs of desktop cloud construction for design majors and 3D student rooms in universities.





Cloud Architecture



Appendix: Hardware configuration of 3D desktop cloud appliance.

Server Model		VDS-P-G320	VDS-P-G620
CPU		2*Intel(R) Xeon(R) Processor E5-2640 V4 (10c 2.40GHz)	2*Intel(R) Xeon(R) Processor E5-2667 V4 (8c 3.20GHz)
Memory Capacity		160G	160G
Total Memory Slot		24	24
Graphics Card		1*NVIDIA TESLA M10	1-2*NVIDIA TESLA M10 or 1-2* NVIDIA TESLA M60 (Do not support M10/M60 mixing)
Graphics Card Slicing		M10-1B/2B/1Q/2Q/4Q/8Q/Direct Connection	M10-1B/2B/1Q/2Q/4Q/8Q/ Direct Connection M60-1B/2B/1Q/2Q/4Q/8Q/ Direct Connection
Storage Solution	System Disk	1*128GB SSD	1*128GB SSD
	Cache Disk	2*240GB SSD	2*240GB SSD
	Data Disk	6*1T SATA (On-demand configuration)	6*1T SATA (On-demand configuration)
Total Hard Disk Slot		14	14
Power		1300W dual power supply unit	1300W dual power supply unit
Applicable Scenarios		Win10/ Light Load 3D Design	Medium/Heavy Load 3D Design