

SANGFOR aDesk™



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Virtual Desktop Infrastructure for Office

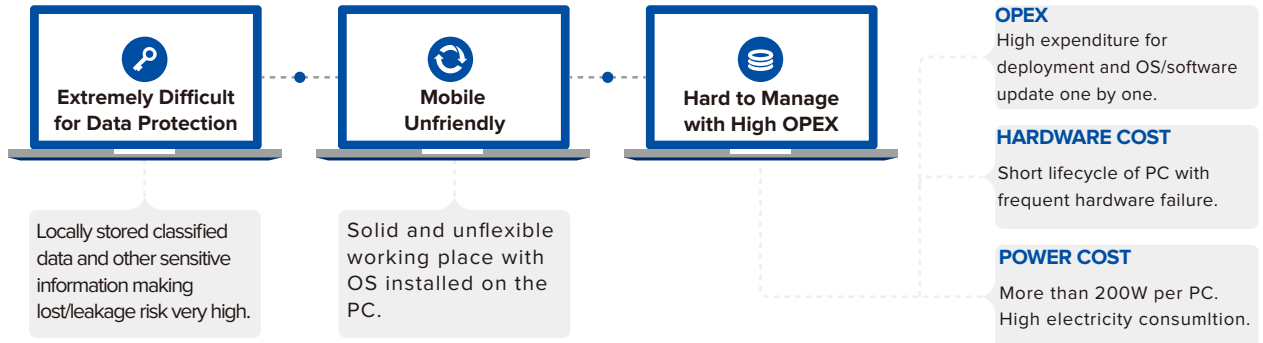


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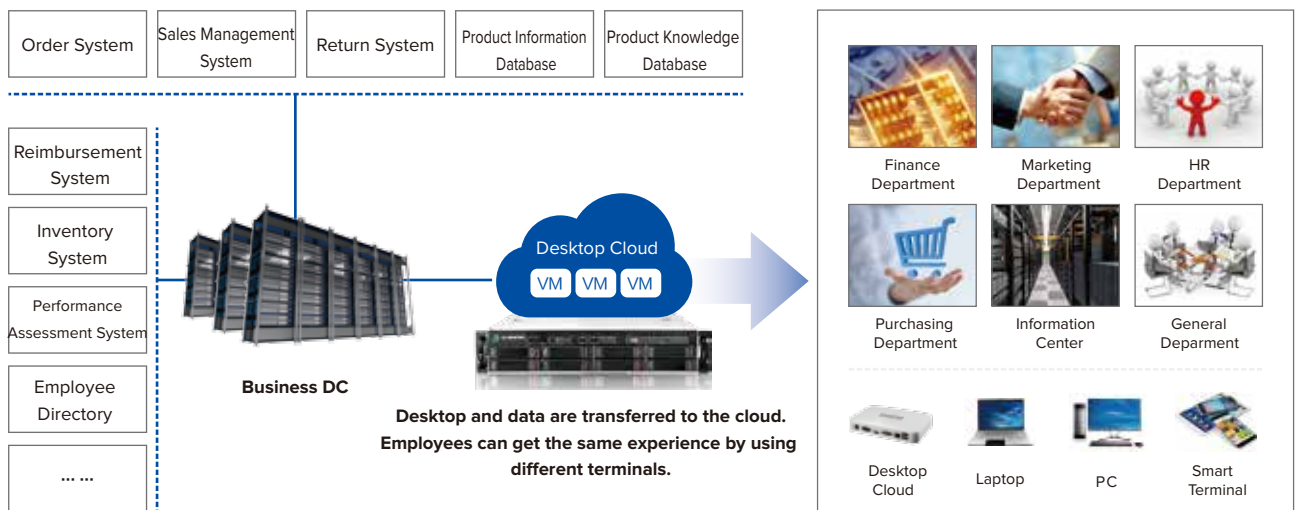
SANGFOR CLOUD





Challenges with Traditional PC



aDesk™ - Virtual Desktop Infrastructure for Office

With Sangfor Desktop Cloud, employees' traditional PC desktops are all migrated to servers in data center and replaced by cloud terminal stations used for desktop access. Thus business data can be securely protected, overall operational cost can be reduced and office works become more flexible.



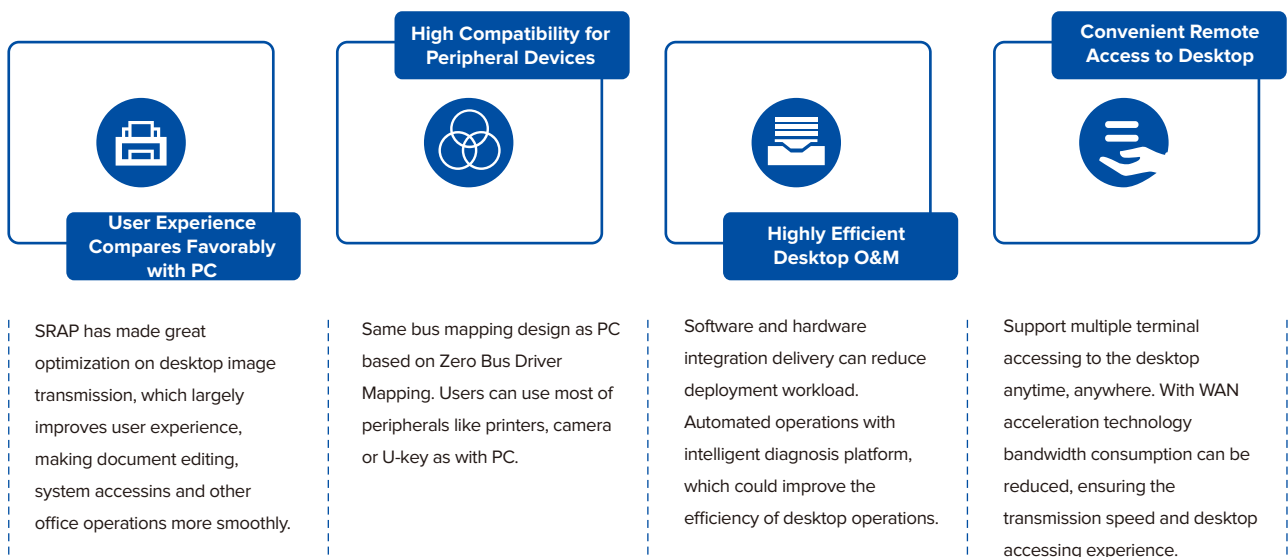
 <p>Security Assurance</p> <ul style="list-style-type: none"> Centralized storage of sensitive data. Employees can only read and write but not TAKE the data. 	 <p>Effective Deployment</p> <ul style="list-style-type: none"> Create hundreds of new desktops in 30 minutes. Distribute desktop resources as required. 	 <p>Convenient Management</p> <ul style="list-style-type: none"> Flexibly adjust CPU, memory or disk space as needed. Update all apps with one click. 	 <p>Energy Conservation</p> <ul style="list-style-type: none"> Power consumption of thin client is less than 10W. Thin client life cycle could be 5-8 year with low failure rate.
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aDesk™ ROI Analysis

Sample Scenario	Desktop Cloud with 100 Endpoint Devices	100 PC
Investment Cost	100 sets (Thin Client+ Liscence) 2*Server	100 Traditional PC
Management Cost	1*IT Admin	2*IT Admin
Operational Cost	Operational cost 75% less Hardware replacement cost 50% less Thin client lifecycle 5~8years	Complex to maintain with low efficiency. High cost of hardware replacement. PC lifecycle around 3~5years
Electricity Cost	Thin client: 5W*10hrs*100Desktop*200Days=1200KWh Server: 770W*240hrs*2 servers*360Days≈ 14500 KWh Assume 0.15 USD per KWh: total electricity cost 2.4 K USD (Monitor not included)	200W*10hrs*100Desktops*200Days = 48000KWh Assume 0.15 USD per KWh: Total electricity cost 7.2 K USD (Monitor not included)
Cost Reduction	1-year OPEX: 17.4K USD 5-year OPEX: 87K USD	1-year OPEX: 37.2K USD 5-year OPEX: 186K USD
Saving 20K USD per year. Saving 100K USD in 5 years !		

Advantages of aDesk™ Solution

Sangfor aDesk solution could help office users build up a desktop cloud infrastructure with deeply converged front-end and back-end hardware, making the desktop user experience more friendly with smooth, stable, secured and efficient operation, which could meet the requirements of business flexibility and better performance-price ratio.





Specifications

► VDS Specification

Server Model	VDS-G680	VDS-G380	VDS-8050	VDS-6550	VDS-5050	VDS-3550	VDS-1350
Chipset Type	C6XX series	C6XX series	C6XX series	C6XX series	C6XX series	C6XX series	C6XX series
CPU	2*Intel Xeon E5-2682 v4 (16 core, 2.5GHz)	2*Intel Xeon E5-2623 v3 (4 core 3.0GHz)	2*Intel Xeon E5-2682 v4 (16 core 2.5GHz)	2*Intel Xeon E5-2640 v4 (10 core 2.4GHz)	2*Intel Xeon E5-2630 v4 (10 core 2.2GHz)	2*Intel Xeon E5-2620 v4 (8 core 2.1GHz)	Intel Xeon E3-1230 v3 (4 core 3.3GHz)
Default Memory	256G (8*32G)	96G (6*16G)	256G (8*32G)	160G (10*16G)	128G (8*16G)	96G (6*16G)	32G (4*8G)
Memory Slot	16	16	16 (Max 512G)	16	16	16	4
Maximum Memory	512G (16*32G)	256G (16*16G)	512G (16*32G)	256G (16*16G)	256G (16*16G)	256G (16*16G)	32G (4*8G)
Storage	System Disk: 1*128GB SSD Cache Disk: 2*480GB SSD	System Disk: 1*128GB SSD Cache Disk: 2*240GB SSD	System Disk: 1*64GB SSD Cache Disk: 1*480GB SSD	System Disk: 1*64GB SSD Cache Disk: 1*240GB SSD	System Disk: 1*64GB SSD Cache Disk: 1*240GB SSD	System Disk: 1*64GB SSD Cache Disk: 1*120GB SSD	System Disk: 1*64GB SSD Cache Disk: 1*120GB SSD
Total Disk Slot	8	8	12	8	8	8	4
Available Disk Slot	6	6	11	7	7	7	3
RAID Card	LSI-9341-8I	LSI-9217-8I	LSI-9341-8I	LSI-9217-8I	LSI-9217-8I	LSI-9217-8I	---
Network Interface	6*GE	6*GE	6*GE+2*10GE (Optical Port)	6*GE	6*GE	6*GE	2*GE
Ports	2*USB, 1*VGA	2*USB, 1*VGA	2*USB, 1*VGA	2*USB, 1*VGA	2*USB, 1*VGA	2*USB, 1*VGA	2*USB, 1*VGA
Power Supply	Redundant Power Supply	Redundant Power Supply	Redundant Power Supply	Redundant Power Supply	Redundant Power Supply	Single Power Supply (Optional redundancy)	Single Power Supply
Product Form Factor	Rack-mountable 2U	Rack-mountable 2U	Rack-mountable 2U	Rack-mountable 2U	Rack-mountable 2U	Rack-mountable 2U	Rack-mountable 1U
Dimensions (D x W x H)	750*445*90	750*445*90	615*445*88	800*435*90 (Need 1000mm length Rack)	800*435*90 (Need 1000mm length Rack)	800*435*90 (Need 1000mm length Rack)	660*435*43
Power	1600W	740W	770W	770W	770W	600W	400W

► Thin-Client Specification

Model	Hardware Specification	Port	Dimensions (D x W x H)	Power (W)	Weight (kg)	Scenario	Notice
STD-200H	ARM A9, CPU: 4 Cores, 1.6Ghz, 1G Memory, 4G Storage, USB*6, Ethernet port*1, Audio Interface*1	1*VGA or 1*HDMI	127*127*25	5	0.35	1. General Office, Computing Room 2. 2D software such as CAD, PS, etc. 3. CCTV/ Video conference	Recommend STD-200, except special scenario

Successful Cases

► Overall Situation



SANGFOR

Your One-Stop Solution Provider for Network Security & Cloud Computing

Global Service Center: +60 12711 7129 (7511)

www.sangfor.com
sales@sangfor.com



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