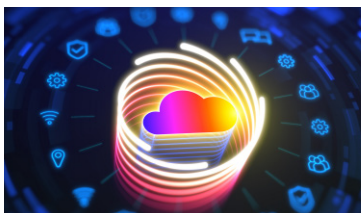# Sangfor aDesk VDI Virtual App Solution

Sangfor Virtual App Solution Overview

Sangfor Virtual App is a high-performance application virtualization solution designed to securely and efficiently deliver business applications to users. By transmitting only the application interface from the remote desktop services (RDS) server to the user's device rather than the full virtual desktop, it significantly reduces resource consumption and boosts productivity.

Ideal for lightweight office and production environments, the Sangfor Virtual App solution provides cross-platform support and simplified management. Its streamlined architecture ensures easy deployment and maintenance, delivering a smoother user experience compared to traditional virtualization solutions, while its granular control features ensure robust data security.

PAD

PC

Phone

PC

PC

VDC

RDS Server

Vitual App Agent

Windows Server OS
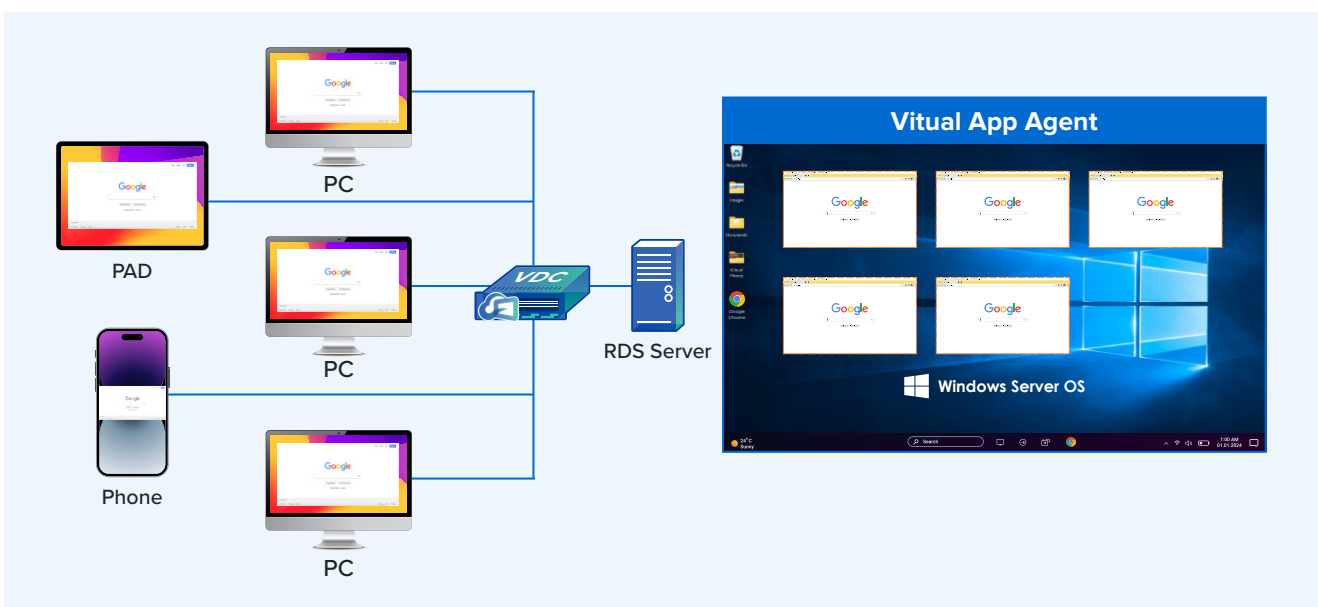
Scenarios and Values

Reduced Hardware Costs

Instead of equipping each user with a full PC, you only need to provide a monitor and a thin client or mobile device. Multiple users share a centralized RDS server for their computing needs, significantly lowering hardware costs compared to traditional setups where every user requires their own PC.

Lower Software Licensing Costs

Since all users share the same RDS server, you only need a single software license per application for the entire server. This removes the need to purchase individual licenses for each user, leading to substantial savings on software costs.

Enhanced Security

All application data is processed and stored on the RDS server, with only the app user interface displayed on the user's device. This ensures sensitive data remains secure on the server. Sangfor VDI adds further security features like clipboard control and screen watermarks to reduce the risk of data leaks.

Isolated Network Access

In cases where users need to operate in different networks that must remain isolated from each other, the Virtual App solution is ideal. It allows users to work on one network using their local device while virtual apps run on a separate network. This removes the need for multiple computers or switching between devices.

Cross-Platform Compatibility

As businesses evolve, users may need to work on different devices, such as Macs and iPhones. However, traditional Windows applications may not support these platforms or newer versions of Windows. With Sangfor's Virtual App solution, companies can use legacy Windows apps on different devices since the application is installed on the RDS servers, saving costly upgrades or reconfigurations.

Simplified Application Management

Managing applications for a large number of users can be complex and time-consuming. With Sangfor's Virtual App solution, IT teams only need to configure the application once on the RDS server. This configuration is then applied to all users, greatly improving IT efficiency by reducing the need for individual setups and troubleshooting.

Use Cases

Winter Refrigeration Industrial Equipment Manufacturing LLC

Winter Refrigeration Industrial Equipment Manufacturing LLC, based in Dubai, UAE, is a global leader in designing, fabricating, and delivering industrial refrigeration solutions.

Challenge

Winter Refrigeration had been using Citrix XenApp to deliver office applications to employees. However, Citrix's transition from a perpetual licensing model to a subscription-based model significantly increased costs, prompting Winter to find a more cost-effective alternative that maintained performance and reliability.

Solution

After evaluating options, Winter chose the Sangfor Virtual App solution. Sangfor's platform provided a seamless transition for publishing office applications in both office and production environments, replacing Citrix XenApp for Outlook and their ERP system.

Bank of Communications (BOCOM)

Founded in 1908, the Bank of Communications (BOCOM) is one of the six largest and oldest banks in China. The bank operates a 24/7 call center with staff working in shifts, making data security and operational efficiency critical requirements.

Challenge

To protect customer privacy and optimize operational costs, BOCOM initially implemented Citrix XenApp as its office solution for the call center. However, regulatory policies now require the bank to prioritize domestic technology solutions over foreign brands to strengthen data security and enhance system autonomy.

Solution

After rigorous POC testing, BOCOM chose the Sangfor Virtual App solution for its stability, security, and performance. Its success in the call center led to broader adoption across branch offices, development and testing, regulatory supervision, operations and maintenance, and secure mobile access, serving around 20,000 concurrent users.

License Guideline

SANGFOR	Microsoft
Virtual Desktop Controller (VDC): appliance or software edition	**Windows Server OS License**
Sangfor User Access License: • **Silver** - 2D Apps • **Platinum** - 3D Apps or Virtual App SSO/Shortcut	**Windows Client Access License (CAL)**

Note: The RDS server can be a physical server or VM running on the Sangfor hypervisor platform. The license doesn't include the hypervisor license.

Feature List and Limitations

Version	V2 (≧VDC 5.9.6)	V1
Protocol	SDX (Sangfor Desktop X)	SRAP (Sangfor Remote Access Protocol)
Client Type	Windows/Linux/macOS	Windows/Linux/macOS/iOS/Android/Thin Client (aDesk-STD-200H-s)
RDS Server OS	2016, 2019, 2022	2008R2, 2012, 2016, 2019, 2022
RDS License Model	Per User	Per User/Per Device
3D Apps	Supported	N/A
WAN Fluency	Good	Moderate
Future Evolution	Supported	N/A

Version	V2			V1		
Client	Windows	Linux	macOS	Windows	Linux	macOS
Monitor Resolution	4K	1K	1K	1K	1K	1K
Dual Screen	✓	✗	✗	✓	✗	✗
DPI Synchronization	✓	✓	✓	✓	✗	✗
RDS Session Persistence	✓	✓	✓	✓	✓	✓
RDS Session Reuse	✓	✓	✓	✓	✓	✓
RDS Load Balancing	✓	✓	✓	✓	✓	✓
RDS Overload Protection	✓	✓	✓	✓	✓	✓
Application Whitelist	✓	✓	✓	✓	✓	✓
RDS Advanced Privilege Control	✓	✓	✓	✓	✓	✓
Network Access Control	✗	✗	✗	✓	✓	✓
Clipboard Control	✓	✓	✓	✓	✓	✓
Anti-Screenshot/recording	✓	✗	✓	✓	✗	✓
Screen Watermark	✓	✓	✓	✓	✓	✓
Local Disk & USB Disk	✓	✓	✗	✓	✓	✗
Storage Directory	✓	✓	✓	✓	✓	✗
Client IME	✓	✓	✗	✓	✗	✗
Virtual Printer	✓	✓	✗	✓	✓	✗
Shortcut Icon SSO	✓	✓	✗	✓	✓	✗
Play and Record Audio	✓	✓	✓	✓	✓	✓
Peripherals Support	✓	✗	✗	✗	✓	✗
Serial Port	✗	✗	✗	✓	✗	✗
USB Key Whitelist/Blacklist	✗	✗	✗	✗	✓	✗
Remote Support	✓	✗	✗	✓	✗	✗

- Supported Linux client OS include Ubuntu 20.04/18.04 and CentOS.
- The application must support multi-sessions and run on a server OS.
- 3D apps require Nvidia GPU on the RDS server.
- An agent will be installed on the RDS server. We recommend adding it to the application whitelist.