



Sangfor aDesk v5.1 Feature List

Category	Feature	Description
Terminal and Operation System	Terminal	Thin Client PC, iPad, iPhone, Android smartphone (above version 2.5)
	OS	Windows 7 (32 bit & 64 bit), Windows XP(32 bit), Windows 8 (32 bit & 64 bit), Windows XPE、iOS、Android
Peripherals	USB Mapping	Scanning gun, scanner, camera, key board, card reader, printer etc.
	Virtual Printing	Thin Client PC can print directly without local printer driver installation if selecting virtual print
	Audio Mapping	Support audio input/output remotely
Transmission	SRAP	High efficiency transmission protocol via flow compression, lossy compression. Image caching, dynamic content filtering, context/image intelligent compression
	Media Redirection	Support 1080P HD video playing with redirecting media stream to local client, decode by local hardware with software optimization
Virtual Desktop	Dedicate Desktop	User get one independent, fully permission, dedicated virtual desktop, the desktop is one VM allocated in server (support Windows XP, Windows 7 etc.)
VDC Deployment	Appliance	VDC can be deployed by both hardware or virtual machine. Client can directly connect to desktop VM after VDC authentication in internal network; or client need VDC proxy after VDC authentication in external network
	Gateway Mode	Physical VDC support NAT, Router, DHCP etc. in gateway mode
	Single Arm	No network configuration amendment in single arm deployment
	Cluster	Cluster deployment for both physical VDC or virtualized or hybrid
	Asymmetric Cluster	Different level hardware can be configured based on weight factors for better load allocation
Access	Client Access	Support default VDI desktop display for new client; support control of client application installation
	VDI Client	Support automatic connection after disconnected, support account & password save
Security Policy	Authentication Method	support local password, SMS, dynamic code, CA, 3rd party integration, hardware code etc., support combination of authentication
	Password Management	Support: password cannot include account name, new password must be different with old one, mandatorily change password in first login, change password regularly, password strength check, graphic code, software keyboard, violence broken protection

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	SSO	Support SSO between Windows desktop and BS/CS applications, user no need retype password
	Integration with IAM	User no need retype password for Internet authentication after login to desktop, and Internet policy from IAM is enforced in mean time.
	Traffic Encryption	support AES, DES,3DES, SHA, RSA
	Client Security Check	Setup client access policy based on client software version, access IP, access time, Anti-Virus software etc.
	Software Whitelist	Only software in list can be installed
	Access Control	Permission based on user, networks, service, device, system etc.
	Server Access Control	Control networks which user can access
	Personal Data Encryption	Advanced feature to protect personal data stored in server
User Authentication	Hardware Code	Support manual approval, automatic approval, code management; support configure hardware code quantity for user group/user
	USB KEY	Support key type both with driver or without driver
	SMS	Support integrate with SMS modem and SMS gateway; support SMS configuration; support SMS resend; support web service authentication
	LDAP	Support LDAP integration; support access to LDAP IP list and allocate virtual IP to user; support integration between mobile phone number and SMS; Support LDAP multi domain/multi IP; support LDAP group/role mapping; support LDAP resource access and allocation
	RADIUS	Support access RADIUS IP list and allocate virtual IP to user; support access mobile phone number and integrate with SMS; support multi domain/IP; support RADIUS mapping
	CA	Support private CA or integration with 3rd party; support OCSP; Support manually import CRL, update via HTTP, FTP; support mapping with 3rd party DN group; Support multi CA
	3rd Party Database Integration	Support access 3rd party user authentication information via Sradius, support Access, MS SQL, SQL Server, Oracle DB
Desktop Deployment Mode	Template Clone	In dedicate desktop mode, support convert VM to template, and clone to multi desktops
	Restore Mode	Support restore to default status after system reboot in dedicate desktop mode
	Snapshot Mode	Support system snapshot in dedicate desktop mode, system can be rolled back to previous status, including data and configuration

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	Professional Mode	Support deliver professional desktop VM by template in dedicate desktop mode, all user operations including software installation, modifying file, modifying configuration will be saved, and kept in restore and upgrade process.
Desktop Session Management	Multi Session Management	Support snapshot management and session persistence in desktop multi session scenario; support session migration, session can be switched between vary devices without operation interruption.
	Remote Diagnose	Admin can remotely diagnose desktop session for troubleshooting
	Session Query	Support query session details including basic information and performance, manage specific session such as disconnect or access
	Auto Reconnect	Support automatic reconnect, temporary disconnection will not impact previous desktop operation; support automatically discard current session
Resource Management	Peripherals Management	Support policy control for user group/user, such us printer, USB flash permission
	One-Way Transmission	Support redirect USB mapping from Thin Client PC to desktop, support redirect Thin Client PC file access to virtual desktop; support one-way transmission control
VMSP Configuration	VMP Management	Support add, delete, edit VMP, and test connectivity.
	Status Query	Support query details including CPU, RAM, ROM, template info, node, VM etc.
Virtual Desktop Management	Naming Policy	Support automatically clone virtual desktop from template, and setup naming policy
	Desktop Resource	Support configure VM location, storage location, virtual desktop, VM quantity for new virtual desktops
	Disk Space	Support allocate personal data disk or not, support configure disk size
	Desktop Resource Link	Support configure if delete linked desktop resource when deleting user.
	Resource Allocation	Support link/unlink between VM and user; support allocate existing VM to current user when last user deleted.
	Resource Status Query	Support query in management console for VM details including status, utilization, diagnose log.
VM Instance Management	VM Management	Support power on, power off, pause, reboot in management console.
	Batch Management	Support power on, power off, pause, reboot, modify IP, mask, gateway, DNS for VMs
	Group Management	Support group setting up, and manage based on group
	VM Query	Query based on VM name, resource, IP, linked user, or combination of them.

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	VM Status	View VM's CPU, RAM, hard disk information, support sort by CPU, RAM, hard disk utilization.
VM Management	Shared VM	Support users share one template, user data is stored in personal hard disk; Admin can update & maintain template and deliver to user VM without impacting personal data.
	IO Acceleration	Support accelerate repeated IO for same type OS with server RAM or cache disk, to improve desktop startup speed and prevent from startup storm
	RAM Page Combination	To save server RAM usage by reduce repeat read only data in RAM (e.g. OS execute code)
	HA	Support transfer multiple nodes into cluster, with VMS HA and hot migration technology
Thin Client PC Management	VDC Management	Support Thin Client PC monitor and management directly from VDC, without additional manager
	ROM Management	Support upload/download ROM, automatic update, display current ROM information
	Thin Client PC Information	Support display Thin Client PC hardware information
	Desktop Control	Support desktop power off, reboot, lock screen, logout etc. in virtual desktop
	Software Installation Permission	Support configure if user can install software
	Maintenance Mode	Support maintenance mode when connection issue happened between Thin Client PC and server. User can do simple trouble shooting
	Concurrent Power Off	When Windows desktop is turned off on Thin Client PC, Thin Client PC will be automatically turned off as well
	Configuration Lock	Thin Client PC configuration can only be modified after password
	Auto Login	Automatic login after user account/password saved
Maintenance	Hierarchic Management	Higher level admin is permitted to manage lower admin; higher level admin can authorize resource to lower level admin
	Configuration File Backup	Support automatically backup configuration file via FTP server
	VMS Management Log	System support warn and log record when VDC failed connecting to VMP server, user failed access desktop resource.
	SNMP	Support integrate with 3rd party network management via SNMP
	Syslog	Support integration with 3rd party log server via syslog format
VDS Deployment	Deployment Wizard	Support intuitive wizard, user can simply follow wizard for VDI configuration

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	Cluster	Support cluster deployment with multi servers
	Virtual Storage	Support virtualize multi servers into one storage pool and embedded HA
Data Management	Storage Node Balance	Support balance data to different physical nodes after adding new nodes
	Data Restore	Support restore data to another node after previous node offline
	Data Migration Back	Data will be migrated back to new hard disk when old one changed
	Copies	Support configure how many copies will be saved in storage, optional 1/2/3
Storage Mechanism	Hybrid Storage	Support SSD+HDD hybrid storage
	Hot Content Caching	Support cache hot content in SSD for better IO performance
Data Network	Networking	Support single link, single switch aggregation, dual switches aggregation, multiplex VMP management port
	Connectivity Testing IP	Support test if physical node disconnected by network failure with testing IP



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