Thinlnx OS Thin Client User Manual

Table of Contents

prod	duct description	3
1.	Remote desktop	3
2.	Virtual desktop	3
3.	Thin client system	3
Conr	nection configuration	5
1.	MS RDP settings	5
	(1) RDP protocol settings	5
	(2) Function setting instructions	7
	2.1: Network-level authentication	7
	2.2: USB storage redirection	8
	2.3: Sound output redirection	
	2.4: Voice input redirection	
	2.5: Multimedia redirection	
	2.6: Printer mapping	
2.	Redhat SPICE settings	
	(1) SPICE protocol settings	
	(2) Function setting instructions	20
	2.1: USB redirection settings	20
	2.2: SRP protocol and SSO single sign-on	21
3.	VMware settings	
	(1) Vmware PCOIP client settings	22
	(2) Vmware horizon client login verification	
4.	Citrix Receiver settings	25
	(1) Citrix HDX client settings	25
	(2) Citrix receiver login verification	
	(3) Certificate import	
5.	Huawei settings	
	(1) Huawei connection settings	29
6.	Firefox settings	
Syste	em settings	
1.	System settings	
n		25
۷.		
3.	Management settings	
4.	Network Ping Testing	40

product description

1: Remote desktop

Remote Desktop ------ People engaged in IT technology should have used. Built-in Windows, XP Remote Desktop RDP (Remote Desktop Protocol) protocol, So that users can log in, access to and use of target Desktop from other computers remotely. The RDP protocol was originally used by Microsoft as an access protocol for terminal services on Windows servers, Implemented multi-user mode on Windows server, Enable users to remotely use various applications on the server without installing any applications locally. This technology is to transfer the running interface on the target machine to the user's actual operating machine screen, A series of peripherals such as keyboard and mouse are transmitted to the target machine to realize the interaction.

2: Virtual desktop

Virtual desktop ------ Also known as desktop virtualization (VDI), It refers to the computer's desktop virtualization, in order to achieve security and flexibility for desktop use. Is a server-based computer model, And with the help of cloud terminals, administrators and users can get the advantages of both methods at the same time; All desktop virtual machine hosted unified management of the data center; At the same time, users can get a complete PC experience. Users can access the same user experience as traditional PCs through thin clients or similar devices on LAN or remote access.

3: Thin client system

The operating system currently used by thin clients is embedded Linux, Safe and reliable, has good stability, Provide simple and fast operation interface, Simple maintenance, easy upgrade, energy saving and power saving, Help users to quickly implement virtual desktop solutions. The following is the desktop of the thin client after entering the system; As shown below:

Virtual Desktop Client	
Remote desktop client Version 3.0 (120119)	
VDI Item: 172.16.128.8	
Connect Client Setup Exit	

Thin Client Support VMware Horizon View, Citrix XenDesktop / XenApp, Microsoft RDP10 / RemoteFX, Redhat RHEV / oVirt / OpenStack, Huawei FusionCloud, ThinWork virtual desktops and other solutions. In the "virtual desktop client" interface, click "Connection Settings" Users can choose the corresponding protocol type according to the virtual desktop environment used; As shown below:

VMware	Citrix	Microsoft	SPICE Redhat	W Huawei	Firefox	Modify	Delete	Exit
Item Name		VDI Type	S	erver Address			AutoC	Connect
172,16,128,:	LOO	VMware PCOIP	1	72,16,128,100			No	
172,16,128,2	200	Citrix ICA	1	172,16,128,200		No	No	
172,16,128,0	3	MS RDP	1	172,16,128,8		Yes		
172,16,128,:	199	Redhat SPICE	1	72,16,128,199			No	

Connection configuration

1: MS RDP settings

Suitable for Microsoft Remote Desktop Users, The remote desktop client supports win7 / 8/10, Win2003 / 2008/2012/2016/2019 systems, and provides RDP7.1 / 8.0 / 8.1 / 10 support.

(1) RDP protocol settings

In the "Virtual Desktop Client" window, click "Connection Settings" to enter the settings window. Click to select the "Microsoft" icon to create a new connection, Create "MS RDP Connection", The following figure shows the MS RDP connection setting window.

				Connect Setting	S			
P VMware	Citrix	Microsoft	SPICE Redhat	W Huawei	Eirefox	Modify	Delete	Exit
Item Name		t		MS RDP Client	Settings			
172,16,128	— RDP Cli	ent Setting						
172,16,128	Item N	lame:			📃 Auto	Connet		
172,16,128	RDS Ad	dress:						
112,10,120	RDS Typ	⊳e: ◯ WinX	P/2003	● Win7/200)8	🔵 Win8/10/2	2012/2016	
	Userna	me:			Autologin	📃 NLA		
	Passwo	ord:		Doma	ain:			
	Color Q	uality: 💿	32 Bit	🔘 24 Bit	🔵 16 Bit	0 25	6 Color	
	Image	Options: 🗹	theme and	background	Compress	sed data	📄 Bitmap Ca	ache
	Redirec	t: 📃 Remotel	ŦΧ	🗌 Audio-out	📄 Se	rial		
		📃 Multime	edia	📃 Audio-in	📄 Pr	arllel		
		🔲 USB Ste	orage	Permission: [💿 Read	🔵 Read ar	nd Write	1
		🗌 USB Dev	vice					-
		📄 Printer	~					-
		Remotef	h qqf	AppProgram:				
						Save	Cano	cel

Function option description:

- **Connection name:** The connection name can be set according to user requirements.
- **auto connect:** When Auto Connect is checked, the configuration will automatically run when the thin client starts to connect to the remote desktop.
- **Terminal server address:** RDS or terminal server address; The default communication port is 3389, The user can customize the connection. [Such as: The address for accessing the virtual desktop is 172.16.0.211; You can enter 172.16.0.211 or 172.16.0.211:3389]

• Agreement version: According to the system that will access the server version of choice.

Such as: When you want to access the remote system is win7 or win2008 is chosen Win7 / 2008.

RDS Type: 🔘 WinXP/2003

💽 Win7/2008

🔘 Win8/10/2012/2016

- user name: User name to access the remote server.
- **password:** Password for accessing the remote server.
- **domain name:** The default is empty. (Note: When the remote server has an AD domain, you must fill in the corresponding domain name; If you have not joined the domain, you can set internal or leave it blank)
- Color quality: The default is 32 bits.
- Image options:
- Desktop themes and backgrounds: Desktop backgrounds and themes, But it will increase server load. (The default is selected)
- **Compressed data transmission:** Connect with the server to compress and transfer the data.
- **Bitmap cache:** Use the bitmap cache to optimize the display effect on the client.
- Mapping options:
- **RemoteFX**: Achieve working in remote Windows Aero environment, watch videos, and Silverlight animations, vGPU, applications run smoothly (required)
- **Sound output:** Realize the server sound redirection output to the client for playback.
- **Sound Input:** Implement client sound redirection to the server.
- Serial and parallel ports: The client serial port and parallel port are redirected to the server. (With serial or parallel port product support)
- **multimedia:** Implement server-side multimedia player redirection to the client.
- **USB storage:** Redirection of U disk or mobile hard disk to the server, Permissions can be set to read-only or read-write.
- **USB device:** Implement USB device redirection, Such as printers, scanners, etc. USB devices, Supports the RemoteFX enabled virtual machine environment.
- printer: To enable the thin client to connect the printer to the server for mapping; (Need to add the printer model in "System Settings", Only then can the mapped printer be selected in the Printer List. As shown below: "System Settings" Add Printer Setup)

Printe	er Settings	_	
PS1	Port: LPT	Mode	
PS2	Port: USB	Mode	

(2) Function setting instructions

2.1: Network-level authentication

100

Microsoft RDP supports network-level authentication.

If "Network-level authentication" has been set on the server, You need to check "NLA Authentication" in the "MS RDP Connection Settings" interface, To keep consistent with the configuration of the server. Finally click "Save and Exit"

RDP Client Setting		
Item Name: 172.16.128.8	🗹 AutoConnet	
RDS Address: 172,16,128,8		
RDS Type: 🔘 WinXP/2003	💿 Win7/2008 🛛 🔾 Win8/1	0/2012/2016
Username:	🗌 Autologin 🛒 NLI	A
Password:	Domain:	
Color Quality: 💿 32 Bit	🔘 24 Bit 🛛 💭 16 Bit	256 Color
Image Options: 🗹 theme a	d background 📃 Compressed data	📃 Bitmap Cache
Redirect: 🦲 RemoteFX	🗌 Audio-out 📄 Serial	
🦲 Multimedia	🗌 Audio-in 🛛 🗌 Prarllel	
🔲 USB Storage	Permission: [💿 Read 🔵 Read	1 and Write]
USB Device		~
🗌 Printer		*
RemoteApp	AppProgram:	
	Save	Cancel

After completing the NLA authentication setup, Return to the "Virtual Desktop Client" interface and click "Connect"; A login window will appear with "Username" and "Password", "Domain", After entering the login information, click "login" to log in. As shown below:

	REMOTE LOGIN	
R	Welcome Login vDes	sktop
Username:	administrator	
Password:	•••••	
Domain:	internal	
	Login	Cancel

2.2: USB storage redirection

Microsoft RDP supports USB storage settings redirection [Mount U disk to remote computer by network disk]. Set up USB storage redirection, Enter the "MS RDP Connection Settings" interface and check "USB Storage" [At present, the client can implement "read-only" and "read-write" functions.] Click "Save and Exit".

RDP Client Setting	
Item Name: 172,16,128,8	🗹 AutoConnet
RDS Address: 172,16,128,8	
RDS Type: 🔘 WinXP/2003	● Win7/2008 ○ Win8/10/2012/2016
Username:	🗌 Autologin 🗹 NLA
Password:	Domain:
Color Quality: 💿 32 Bit	○ 24 Bit ○ 16 Bit ○ 256 Color
Image Options: 🗹 theme a	nd background 📃 Compressed data 📃 Bitmap Cache
Redirect: 📃 RemoteFX	🗌 Audio-out 📄 Serial
📃 Multimedia	Audio-in Prarllel
USB Storage	Permission: [💿 Read 🔾 Read and Write]
USB Device	·
Printer	▼
RemoteApp	AppProgram:

Log in to the access device after setup, Open "Computer" or "My Computer" and you will see the network disk named by the thin client. As shown below:

~					0	<u></u>	
Comp	uter 🕨			✓ Search Computer			\$
Organize 🔻 🔓 System	properties	Uninstall or change a program	Map network drive	Open Control Panel		•	0
☆ Favorites ■ Desktop	▲ Hard	Disk Drives (1) Local Disk (C:)	_				
🚺 Downloads 🔄 Recent Places	 Devic 	11.8 GB free of 19.8 GB es with Removable Storage ((1)				
Libraries Documents Music	4	CD Drive (D:)					
Pictures Videos	Other	(1) usb on TC001 System Folder					
🖳 Computer	-	System rolder					
🏭 Local Disk (C:)							

For example: when connected to a USB flash drive, click on the "usb on TC001" network disk to see the contents of the USB flash drive.



2.3: Sound output redirection

Microsoft RDP supports sound output redirection.

Set sound output redirection, Go to "MS RDP Connection Settings", check "Sound Output" and click "Save and Exit". As shown below:

RDP Client Setting	
Item Name: 172,16,128,8	🗹 AutoConnet
RDS Address: 172,16,128,8	8
RDS Type: 🔘 WinXP/2003	• Win7/2008
Username:	🗌 Autologin 🗹 NLA
Password:	Domain:
Color Quality: 💿 32 Bit	🔿 24 Bit 🧼 16 Bit 🔅 256 Color
Image Options: 🗹 theme a	nd background 📃 Compressed data 🛛 🔲 Bitmap Cach
Redirect: 📃 RemoteFX	🖌 Audio-out 📄 Serial
🦲 Multimedia	🔄 Audio-in 📄 Prarllel
🖌 USB Storage	Permission: [💿 Read 🔾 Read and Write]
USB Device	-
🗌 Printer	v
RemoteApp	AppProgram:

When you check "Sound Output", enter "Control Panel" in the remote server, open "Sound" and click "Play". You will see "Remote Audio" or "Remote Audio". As shown below:

Adjust your comp	9 Sound	View
Aujust your compt	Playback Recording Sounds Communications	VIEW
 Action Center Backup and Restore Date and Time Device Manager 	Select a playback device below to modify its settings:	y ial Manager Gadgets
 Ease of Access Center Getting Started Internet Options 		g Options h and Other Sensors
Mouse		tion Area Icons

2.4: Voice input redirection

Microsoft RDP supports voice input redirection.

Set up sound input redirection, Enter "MS RDP Connection Settings", check "Sound Input" and click "Save and Exit". As shown below:

	MS RDP Client Settings
RDP Client Setting Item Name: 172.16.128.8	🗹 AutoConnet
RDS Address: 172,16,128,8	3
RDS Type: 🔘 WinXP/2003	• Win7/2008
Username:	🗌 Autologin 🗹 NLA
Password:	Domain:
Color Quality: 💿 32 Bit	🔵 24 Bit 🥥 16 Bit 💿 256 Color
Image Options: 🗹 theme a	nd background 🛛 📄 Compressed data 🛛 📄 Bitmap Cache
Redirect: 🦲 RemoteFX	🗹 Audio-out 📄 Serial
🦲 Multimedia	🗹 Audio-in 📄 Prarllel
🗹 USB Storage	Permission: [💿 Read 🔾 Read and Write]
USB Device	•
🗌 Printer	•
RemoteApp	AppProgram:
	Save Cancel

When you check "Sound Input", enter "Control Panel" in the remote server, open "Sound", and click "Record" to see "Remote Audio" or "Remote Audio". As shown below:

	Control Panel All Control Panel Items	
Adjust you	Sound Playback Recording Sounds Communications	
	Select a recording device below to modify its sett	ings:
🏲 Action Ce 🐌 Backup a	Remote Audio	
骨 Date and	Default Device	1
🚔 Device M		<u></u>
🕒 Ease of A		

2.5: Multimedia redirection

Microsoft RDP supports multimedia redirection.

Set up multimedia redirection, Enter "MS RDP Connection Settings", check "Multimedia" and click "Save and Exit". As shown below:

MS RDP Client Setting	95
RDP Client Setting Item Name: 172.16.128.8	AutoConnet
RDS Address: 172.16.128.8	
RDS Type: 🔵 WinXP/2003 💿 Win7/2008	Win8/10/2012/2016
Username: Autolo	gin 🗹 NLA
Password: Domain:	
Color Quality: 💿 32 Bit 🔷 24 Bit 🔷 1	6 Bit 🔘 256 Color
Image Options: 🗹 theme and background 📃 Com	npressed data 📃 Bitmap Cache
Redirect: 🤤 RemoteFX 🛛 🗹 Audio-out	Serial
Multimedia 🗹 Audio-in	🔄 Prarllel
🗹 USB Storage 🛛 Permission: [💿 F	Read 🔘 Read and Write 🛛]
USB Device	*
Printer	-
RemoteApp AppProgram:	
	Save Cancel

[Note: When "Sound Output" is not checked, then "Multimedia" is checked. This option will be checked automatically.]

Log in to the remote server, Running Windows media player to play multimedia (such as MP3 movies) will automatically redirect to local playback. As shown below:



2.6: Printer mapping

Microsoft RDP supports printer redirection.

Set the printer mapping operation process:

1: The printer driver that needs to be mapped has been installed on the remote server; Note: The name of the printer on the server cannot be changed. Use the default name.

2: Click "System Settings" on the "Virtual Desktop Client" interface and click "Modify"; 【After clicking "Modify", the display settings, printer settings, sound management, configuration password, network settings, etc. in the system settings can be edited】; Check "Printer PS1" or "Printer PS2" in "Printer Device", The port type of the printer supports "LPT, COM, USB"; Type the model of the connected printer in the Model box, Such as Conan ip1800 series. As shown below:

	Setup	
Display Settings		Network Settings
Resolution: Auto	← Color Quality: 32 Bit ←	Device Name: TC001 NetType: • Enternet - Wireless
J TouchScreen	Dual Screen: MIRROR EXTEND	MAC Address: 00301859D897
Power Settings		Address Type: 🔘 Static 💿 Dynamic
Standby: 0	minute Suspend: 0 🕶 minute	IP Address: 172.16.17.96
Audio		Subnet: 255.255.0.0
audio-out: Built-i	n sour ▼ audio-in: Built-in sour ▼	Gateway: 172.16.128.254
Printer Settings	_	DNS Server1: 172,16,128,221
PS1 Port: LPT	Mode	DNS Server2: 8,8,8,8
PS2 Port: USB	Mode	Wifi Settings
		SSID:
Language:	Set Password () Not Password	Encrypt: WPA/WPA2(6-13 letter) -
	Password:	User:
• English	Re-Enter:	Password:
Manage	Net-tools Time Moo	dify Save Exit

After setting, click "Apply", When prompted if you want to restart the system, click "Yes". [Note 1: After setting the system configuration, you need to restart the thin client to take effect; Note 2: The printer must be turned on first, otherwise the printer mapping cannot be successful]

3: After restarting the thin client, enter the "MS RDP Connection Settings" interface, check "Printer" and click "Save and Exit". As shown below:

MS RDP Client Settings						
RDP Client Setting Item Name: 172,16,128,8						
RDS Address: 172,16,128,8						
RDS Type: 🔘 WinXP/2003 💿 Win7/2008 🔘 Win8/10/2012/2016						
Username: 🗌 Autologin 🗹 NLA						
Password: Domain:						
Color Quality: 32 Bit 24 Bit 16 Bit 256 Color 						
Image Options: 🗹 theme and background 🛛 Compressed data 📄 Bitmap Cache						
Redirect: RemoteFX Audio-out Serial						
Multimedia Audio-in Prarllel						
🔲 USB Storage Permission: [💿 Read 🔾 Read and Write]						
USB Device						
Conan ip1800 series						
RemoteApp AppProgram:						
Save Cancel						

[Note: If no printer is added in the system settings, the following prompt will appear; As shown below:]

Password	1:		I)omain:			_		
Color Qua			message			×	:	lor	
Image Op		Not find pr	inter,pleas	e goto [9	Getup]	add printer!		Bitmap	Cache
Redirect:									
						серок		ite]
	USB Dev	vice							-
	Printer								Ŧ
	📄 RemoteÂ	IPP AF	pProgram:						
						Save		Ca	ancel

4: Login to the remote server, Enter the system control panel, View printer mapping connections, You can see the printer redirected connection, "printer1". As shown below:

00- & «	Hardware and So	und Devices and Prir	nters	•	4j	Search De
Add a device	Add a printer	See what's printing	Prir	nt server properties	R	emove devi
Devices (1)						
ADMIN-PC • Printers and P Fax	Faxes (2)	1				

2: Redhat SPICE settings

For KVM (kernel virtual machine) virtualization environments, Support Spice protocol: HD video, USB redirection, audio output input redirection, etc .; currently supports Redhat RHEV / oVirt, thinWork, OpenStack and other virtualization platforms.

(1) SPICE protocol settings

Click "Connection Settings" on the "Virtual Desktop Client" interface and click "Redhat" to enter "Redhat SPICE Connection Settings". As shown below:

			Co	nnect Setting)S			
P VMware	Citrix	Microsoft	SPICE Redhat	W Huawei	Eirefox	Modify	Delete	Exit
Item Name			Redr	nat SPICE Cli	ent Settings			
172,16,128, 172,16,128,	- SPICE (Item Na	Client Settir	19s			Auto	Connect.	
172,16,128,	Up1 odde	waat I			_	0 11400		
	Opt User	tions: Platform: rname:	◯ oVirt or F	RHEV • Pas	ThinWork sword:	🔘 Browser	•	
	D	omain:				Port: 5900		
	- Thi	☑ USB Redire inVirt Option	ect 🗹	🛚 Audio Redir	ect (Single Sig	n On	
	0] Image Acce] USB Storag	eler 🗌)SRP Options	Read 🔾 R	Shut VMS Read and Write	9]	
	USB	Rules:	USB Class	Venr	lor ID Pr	oduct. III	Action	

The above interface users can add new login settings.

Login configuration instructions:

For example, the accessed SPICE server address is: 172.16.128.199.

When accessing a virtual machine in the server, the settings on the SPICE connection interface are as follows:

- **Connection name:** Set by users as required. Example: 172.16.128.199
- Connection address: The address of the Spice server to be accessed. Example: 172.16.128.199
- Virtualization management platform: There are three options "based on ovirt or RHEV, libvirt based, browser based".

(a) Based on ovirt or RHEV settings:

When "based on ovirt or RHEV" is selected, the user name, password, and full domain name will be entered.

- **username:** Login account, that is, authorized user.
- **password:** Password corresponding to the login account.
- Full domain name: The default domain name is "internal", Or full AD domain name, Example: abc.com After configuration is complete, click "Save". As shown below:

16 / 37

Thin Client User Manual

	Redhat SPIC	E Client Setti	ings	
SPICE Client Setti	ngs			
Item Name: 172,16	.128.20		🗌 AutoConnect	;
Url address: 172.16	.128.222			
Options: Platform:	OVirt or RHEV	• ThinWork	k 🔵 Browser	
Username:		Password:		
Domain:			Port: 5900	
✓ USB Redir ThinVirt Option	ect 🗹 Audio	Redirect	🦲 Single Sign On	
🗹 Image Acc	eler 🗹 SRP Op	tions	📄 Shut VMS	
📃 USB Stora	ge: Permission:[• Read	🔵 Read and Write 🛛]	1

Exit "SPICE Connection Settings" to "Virtual Desktop Client" and click "Connect" to enter the virtual desktop list interface. As shown below:

SPI	CE vDesktop list	×
win		
Please click to co	nnect	Exit
Select operation:	wer07	Force Shut

[Note: When an authorized user has only one available virtual desktop, the client will automatically connect to

the virtual machine. If a user has multiple virtual desktops, the user's virtual desktop list window will pop up for the user to select a virtual desktop and log in **]** The following figure shows a user with multiple virtual desktops. As shown below:

SPICE vDesktop list					
win1	win				
Please click to co	nnect	Exit			
Select operation:	wer07	Force Shut			

(b) Based on libvirt settings:

Supports virt-manager or libvirt management platform settings.

		Redhat SPIC	E Client S	etting	js
SPICE Client S	Settings				
Item Name: 1	72,16,44,20				🗹 AutoConnect
Url address: 1	72,16,44,222				
Options: Platfor	rm: ○ oVirt	or RHEV	• Thin	Work	🔵 Browser
Domain:			1 333001 4	•	Port: 5900
☑ USB I — ThinVirt C	Redirect Dption:	🗹 Audio	Redirect		🦲 Single Sign On
Image	e Acceler	📄 SRP O _F	ptions	_	Shut VMS

18	/	37
----	---	----

After setting, click "Save" and "Exit" to the virtual desktop; Click on "Connect" system is directly connected to the virtual machine.

(2) Function setting instructions

2.1: USB redirection settings

The default setting is to enable USB redirection and sound redirection. As shown below:

USB Redirec	t 🗹 Audio Redirect	🗌 Single Sign On	SRP
USB Storage	(RDP): Permission:	∎ ■ ■ Read ○ Read a	and Write]
USB Device(RDP):		-

The user logs in to the virtual desktop using the SPICE protocol, After connecting the USB flash drive, you can check the USB device redirection by moving the cursor to the middle position above the computer desktop. As shown below:



Click the "USB Device Selection" button, A USB redirection option window will pop up, showing the name of the inserted USB flash drive, while also checking the available, exit the USB device management window, enter "Computer" and the inserted USB flash drive will be displayed. As shown below:



The above figure shows the USB devices that have been successfully redirected;

In a production environment, users often need to disable USB storage devices.

Enter "SPICE connection settings", select "Policy 1" in "USB policy", and select the corresponding USB storage device in "USB Class"; "Vender ID" and "Product ID" enter "any"; "Action" choose "Deny" Click Save. As shown below:

USB Rules	:				
	USB Class		Vendor ID	Product ID	Action
Rules1:	0x08 Mass Storage	-	any	any	Allow 💌
Rules2:		•			•
🗌 Rules3:		▼			-
🗌 Rules4:		▼			•
🗌 Rules5:		-			•

Log in to the virtual desktop again and click "USB Device Selection". The USB device will not be displayed.

2.2: SRP protocol and SSO single sign-on(only support oVirt or RHEV)

The SRP protocol is directly converting the SPICE protocol to the RDP protocol. If you select "SRP Protocol" to save and log in to the virtual desktop again, you will use the RDP protocol to connect to the virtual desktop, but still use the SPICE USB redirection function. This RDP version RDP7.1/8.0/8.1/10

SSO single sign-on is when you use the SPICE protocol to log in, you automatically enter the account password to log in, and there is no need to log in twice.



3: VMware settings

For Horizon view virtual desktop users, Horizon View Client supports virtual desktops released with VMmare Horizon view 6 or above.

(1) Vmware PCOIP client settings

Click "Connection Settings" and click "VMware" to enter the "VMware PCOIP Connection Settings" interface to create a new connection. As shown below:

		Connect Settings		
	Citrix	SPICE Redhat	Modify Firefox	Delete
Item Name	VDI Type	Server Address		AutoConne
172,16, 172,16, 172,16,	- PCOIP Client Settings	VMware PCOIP Client Se	əttings	
172,16.	Item Name:		📄 AutoCom	nnect
	ViewServer:		AutoLog	gin
	Username:	Hide	Toolbar	
	Password:	Domain:		
	Blast Config: 🗹 Enable	H264 Network: 🔾	Excellent 💿 Typica	al 🔵 Poor
	USB Redirect: 🔾 Enable	💿 Disable 🛛 View Ver	rsion: 🔾 5,2/5,3 (•) 6.x/7.x
	USB Rules	B Class Vendor 1	ID Product ID	Action
	Rules1:	v		v
	Rules2	Ŧ		.
	Rules3	•		-
	Rules4	v		_
			Save	Cancel

Function option description:

- **Connection name:** The user sets the name as required.
- connect to the server: IP address of the server to be accessed.
- **Hide the view menu bar:** Hide the view menu bar above the desktop. This menu bar provides functions such as resetting the desktop, viewing USB redirection, and disconnecting.
- USB redirection: In addition to disabling USB redirection on the VMware horizon view platform, USB redirection can also be disabled on the client. You can also use USB policies to do whitelist management of USB devices. [Note: If USB redirection is not available, you need to check whether USB redirection is

enabled on the Horizon view server, whether USB redirection is enabled on the client, and whether USB redirection software is installed when the virtual machine is installed with the view agent

- Blast configuration: Configure H264 connection parameters, If it is particularly useful for Internet access, it requires horizon view 7 or above to support it;
- **horizon view version:** View 5.x support is still retained;

(2) Vmware horizon client login verification

By setting up a new vmware connection, After entering the server, account, domain name and other information, click "Save" and exit, Return to the desktop and click the "Connect" button. The login interface window shown below appears. Enter your account and password and click "OK". As shown below:

N			
	Server Login		×
VmW	/are Horizon		
Server:	脑 https://172.16.128.25		
Username:	administrator		
Password:			
Domain:	THINSYS		•
		Cancel	ОК

After successfully logging in, users can get a list of available virtual desktops; If the user has access to multiple desktops, a list of multiple virtual desktops is displayed. As shown below:

	VMware Horizon Client	×
File Connection View Help		
💉 💫 https://172.16.128.25		🕁 🛱
		<u> </u>
Win7		

After the View client logs in, if the user has only one available virtual desktop, the client will automatically choose to log in to the virtual desktop. As shown below:



4: Citrix Receiver settings

For Citrix virtual desktops, Citrix Receiver supports virtual desktops released with XenDesktop 7.0 or above.

(1) Citrix HDX client settings

Enter "Connection Settings" Click "Citrix" to enter "Citrix HDX Connection Settings" .As shown below:

Item name:		AutoCor	nnet
Jrl address:	I		
Access: 💿	Native Client 🛛 🔘 B	howser	
lsername:		mousetimer:	
Password:		Domain:	_
Options:			
🗹 HDX Fla	ash Redirect	🗹 Autologin to desktop	
🗹 Webcam	Video compress	🗹 Allow audio-in	
USB Rules:			
	Example: ALLOW: F	PID=001F VID=04B8	
🗌 Rules1:			
🗌 Rules2:			1
🔲 Rules3:			D.

Function option description:

- Connection address: The default is http: // IP or domain name / Citrix / Store / PNAgent / config.xml
- Login Method: Support "Local Client" and "Browser" two login methods.
- Local client connection address: [http or https]: // IP or domain name / Citrix / Store / PNAgent / config.xml
- Browser connection address: [http or https]://IP or domain name /Citrix/Storeweb

If you need to log in to the Citrix NetScale Gateway to access the virtual desktop, please log in using a browser; [Note: When using a browser to log in, you can use the shortcut key: Ctrl + F11 to exit the browser]

[Note: USB redirection, flash redirection, multimedia redirection and other functions require the corresponding policies to be enabled on the XenDesktop server to take effect.]

(2) Citrix receiver login verification

Citrix receiver Login verification improves user desktop security, In the "Citrix HDX Connection Settings" window, the password can be left blank. The user will be prompted to enter the password before logging in. If you want to log in automatically every time you turn on the computer, you only need to enter the login account in the "Citrix HDX Connection Settings" interface. Password, domain name click "Save"; The following figure sets the password to be empty. Click "Connect" on the desktop, and the login verification window will pop up. As shown below:

R	Welcome Login vDesktop
Username:	
Password:	
Domain*	hdcol

After successful login, the virtual desktop shown below will be displayed.



(3) Certificate import

Client certificate import

Click "Client Certificate" on the "Citrix HDX Connection Settings" interface to display the "Certificate Import

Interface". As shown below:

rl addresst		- Hacoconn		
	import Cert	2		×
		k		
Item	Cert Name		Action	
1.	BTCTRoot.crt		Delete	
2.	Class3PCA_G2_v2.crt		Delete	
3.	Class4PCA_G2_v2.crt		Delete	
4.	GTECTG1oba1Root.crt		Delete	
5.	Pcs3ss_v4.crt		Delete	
		import	Exit	

• Notes on importing certificates:

1: U disk must be formatted as Fat32 before use, not NTFS. [If the U disk has a boot function, please format the entire disk or restore all U disk space by making the boot disk. The U disk only retains one partition]

2: The certificate should be stored in the root directory of the USB flash drive.

3: Modify the extension of the certificate. [For example: test.cer needs to be changed to test.crt] Insert the USB flash drive and click "USB flash drive import".

	import Cert			×
Item	Cert Name		Action	
1.	1.crt		Delete	
2.			Delete	
3.			Delete	
4.			Delete	
5.			Delete	
		import	Exit	

5: Huawei settings

Applicable to Huawei virtual desktop.

(1) Huawei connection settings

Click "Huawei" on the desktop to enter the "Huawei Connection Settings" interface, and enter the address of the server that accesses the Huawei Cloud Desktop Connection.

			Co	onnect Setting	9S			
V Mware	Citrix	Microsoft	SPICE Redhat	W Huawei	Firefo	Modify	Delete	Exit
Item Name 172,16,128				Huawei Set	ting			
172,16,128	Huawei	Setting						
172,16,128	Item na	ame: Huawei				🝸 Auto	Connet	
172,16,128	Url addr	ress: http://	/172.16.128.4	ļ			_	
	Acces	s: 💿 Nat	ive Client					
						Save	Cancel	

Select the new connection setting and click "Connect". The Huawei client login verification window will appear. As shown below:



After logging in to the virtual desktop, move the cursor to the middle position above the computer desktop to view the client USB redirection connection and select the USB redirection device

	l Hom	e page MA	2. K2 Ctr1+Alt	t+Del Device	Network	Settings	X Disconnect
				Device			×
USB	(v)	irtual machine)	USB (Client)				
V	USE	} share				🔽 Plug	-and-Play
U:	5B 	Device Redirected To	USB Device	Status	Vendor No.	Product No	
	1		AX88×72A	Connected	B95	772A	
	Γ		1		1	1	
							Close

In the login window, check the configuration in "Address Management"

			Ĥ	ddress Manager				×
Server Name	Server Name Server Address Backup Addres						ss	
[default] Huawei	http://172.16.128.4							
			Edit	Server Information			×	
	Ser	ver Name:	Huawei			🔽 Set a	s default	
	Server	· Address:	http://172.16	5.128.4				
	بر	Advanced]		OK		Cancel	
L								
Launch	Ĥd	ł	<u>E</u> dit	Remove	Option	IS	Help	Quit

6: Firefox settings

Suitable for browser connection to access virtual desktop or BS-based applications.

Click "Firefox" to enter the "Browser Connection Settings" interface; enter the connection address to be logged in.

V Mware	Citrix	Microsoft	SPICE Redhat	W Huawei	Firefox	Modify	Delete	Exi
Item Na 172.16. 172.16. 172.16. 172.16.	Firefox So Item name	etting e:		Firefox Setti	ng	🗌 AutoConn	et	t
112+10+		Import Ce	rt		Save		Cancel	1

[Note: When using a browser to log in, you can use the shortcut key: Ctrl + F11 to exit the browser]

System settings

1: System settings

Provide system setting options for users to adjust the system configuration for the application environment. Click "System Settings" in "Virtual Desktop Client" to adjust application environment. As shown below:

Thin Client User Manual

— Display Settings —		Network Settings
Resolution: Auto	▼ Color Quality: 32 Bit ▼	Device Name: TC001
		NetType: 💿 Enternet 🔘 Wireles
I TouchScreen	Jual Screen: MIRRUR EXTEND	MAC Address: 00301859D897
Power Settings		Address Type: 🔿 Static 💿 Dynamic
Standby: 0	▼ minute Suspend: 0 ▼ minute	IP Address: 172,16,17,96
Audio		Subnet: 255,255,0,0
audio-out: Built-	in sour 💌 audio-in: Built-in sour 💌	Gateway: 172,16,128,254
Printer Settings		DNS Server1: 172,16,128,221
PS1 Port: LPT	▼ Mode	INS Server2: 8.8.8.8
PS2 Port: LPT	▼ Mode	Wifi Settings
		SSID:
- Language:	Password Settings	Encrypt: WPA/WPA2(6-13 letter)
	O set rassword	User:
○ 中又緊体	Password:	Password*
💽 English	Re-Enter:	1 035001 0.

System option description:

display setting:



- Enable dual monitors: Support screen copy and screen expansion, that is, dual screen display output;
- Activate the touch screen: Certain models support machines with touch screens.

Support color quality:

- Power settings:
- standby mode: Setting the standby time allows the system to automatically enter the standby state when the user has not operated for N minutes, and the system and the monitor enter the power saving mode.
 (Generally defaults to 0)
- **Turn off the monitor:** Setting the time to turn off the monitor can realize that when the user has no operation for N minutes, the system will automatically stop the display output and the monitor will enter

the power savir	ng mode. (Ge	enerally o	defa	ults to 0)				
	Power Set	ttings						
	Standby:	0	-	minute	Suspend:	0	-	minute

- Sound management:
- **Sound output:** Support built-in sound card output and HDMI output (For example when using an external HDMI TV)
- Voice input: Only "built-in sound card" is supported.

Audio -			
audio-out:	Built-in sour 🕶	audio-in:	Built-in sour 🕶

Printer settings:

Thin clients can connect to printers, Supported ports are: "USB", "LPT (Parallel)", "COM (Serial Port)" printers; used for thin clients to map local printers to servers; In addition, support for setting thin clients to print sharing with print sharing capabilities A server that allows multiple users to share the printer. [Note: The printer driver needs to be installed on the server. The printer on the server cannot be modified by default.]

Printer S	bettings	
🛃 PS1 🛛 Po	rt: LPT	Mode
PS2 Po	rt: USB	Mode

Ianguage settings:

The system supports "Simplified Chinese", "Traditional Chinese", and "English" languages.



password setting:

This password setting option effectively prevents users from modifying system settings and connection settings at will. The default setting is "No password required." When a configuration password appears but you forget it, you can use a universal password: Unlockme

Password	l Setti	ings —	
🔵 Set Passu	vord	💿 Not	Password
Password:			
Re-Enter:			

> Network settings:

- **Device name:** Is the thin client device name, used to identify the device ID used by the user; Printer mapping or USB flash disk redirection must have a separate device name for each thin client; remote to the thin client on the unified management platform must have a separate device name for each thin client.
- Net Type: Support "Enternet" and "wireless " similar. "Wireless network" is limited by the wireless network card driver, currently only supports some Intel and Realtek models.
- MAC address: The thin client must have a separate physical address.
- Address Type: Support "static IP address" and "dynamic IP address" assignment.

【Users can set a static IP address or automatically assign an IP address for the thin client according to the application environment】

Network Set	tings
Device Name	: TC001
NetType: 🧕) Enternet 🛛 🔘 Wireless
MAC Address	: 00301859D897
Address Type	e: 🔵 Static 💽 Dynamic
IP Address:	172,16,17,96
Subnet:	255,255,0,0
Gateway:	172,16,128,254
DNS Server1:	172,16,128,221
DNS Server2:	8.8.8.8

- wireless setting:
- Select the wireless setting, you need to enter the SSID and password of the wireless network to be connected, and you can choose the encryption method.
- Encryption mode support:WEP64、WEP128、WPA/WAP2。

[Note: Must activate or enable "Broadcast SSID", otherwise you cannot connect to the wireless network]

2: Device Time

Click "Device Time" to display the system time interface to modify the time. After the modification is completed, click "Save".

< Dec	cember	•			4	2019 🕨
Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	- 23	24	25	26	27	28
29	30	31	1	2	3	4
5	6	- 7 -		9	10	11
Time	Zone;	UTC	C+8 As	ia/Sh	anghai	i 🖵
	Set	: time	: 10	:	43 :	11
No	:wc	201	.9年12	月23日	10:4	3:18

3: Management settings

Click "Management Settings" in the "System Settings" interface will display the following figure:

Manage Settings	
Manage Svr: AutoConfig	TimeSync sync
Start Wait time: second (1-30 Second, default 3)	Time Server:
Firmware (Version: ix 2012111606)	✓ VNC Remote Control
Type: 🔿 Usb Disk 💿 network update	Password:
Update Server:	Re-Enter:
PPTP Server: AutoDialing User: Password:	Secondly NIC: Not find network Address type: O Static O Dynamic IP Address:
dns record to hosts file	Subnet:
Record1:	Gateway:
Record?	DNS Server1:
Example: 172,16,128,1 node.thinvirt.dg	INS Server2:
sysinfo	Save Modify Exit
Manage Net-tools Time Mod	dify Save Exit

Function option description:

• Start wait time : Wait time for running login after thin client startup.

Apply to be delayed or using a VPN connection to log on to the virtual desktop server, you can modify the 33/37

connection time of 15 seconds or more.

- **TimeSync:** The thin client automatically synchronizes with the time server after booting, Such as AD server or NTP server.
- **Firmware:** The thin client can be upgraded online through the network. It can support manual or automatic upgrades, and the unified management platform issues upgrades.
- VNC remote control: Remote control of thin clients through VNC viewer tool or unified management platform; After changing the VNC password, you need to restart the device to take effect. X86 terminal default password is:12345678; ARM terminal default password is:888888; Default communication port:8100.

Control via VNC client software: Need to download VNC client software first, Double-click to run VNC client software; The following window appears.

V2 VNC Viewer	— ×
VNC® Viewer	Ve
VNC Server:	•
About Options	Connect

Enter the IP address of the thin client. You can view it in "Local IP Address" in the "System Settings" interface; Enter the IP address and add the port number after the address (The default port number is 8100); After setting, click "connect". As shown below:

V2 VNC Viewer	23
VNC® Viewer	VS
<u>V</u> NC Server: 172.16.17.96	•
Encryption: Let VNC Server choose	•
About Options	Connect

Click "connect" to pop up another window and click "continue". After login password appears, you can access the thin client after entering the password.

Connecting t	0: 172.16.17.9	6:8100		
his connection w ransmitted secu n progress may l	vil not be encrypted rely, but all subsequ be susceptible to inte	. Your auther ent data exch erception by t	tication crede anged while hird parties.	entials will be the connection is
f VNC Server is l lease upgrade y	icensed to use this p your VNC Server licer	remium featu nse.	re, consider (enabling it. If not,
Do not warn r	ne about this for 17.	2.16.17.96:8	100 again	
			Continue	Cancel
	/iewer - Authe	ntication		8
VO	VNC Server: 1	72.16.17.9	6:8100	
VC	Username:			



• PPTP Server:

Currently, only PPTP VPN is used to log in to the intranet. (That is, the access method of logging in to the LAN through the Internet through a VPN.)

Click Modify in the "Management Settings" interface, select "PPTP Server Address", and enter the server address, account, and password in the corresponding boxes; Check the "Auto Dial" setting is complete, and then click "Save"; As shown below:

PPTP Server:		📄 AutoDialing
User:	Password:	

After selecting "Auto dial", the thin client will automatically run the VPN connection when it is turned on; Or press Ctrl + Alt + A to invoke VPN connection; As shown below:

		PPTP VPN Dialing		
PPT	P VPN Dialing :		*	
1				

Dns record to hosts file:

It is suitable for use without a DNS server to interpret the host name.

[Example: Host domain name:engine.thinvirt.dg、IP address:172.16.128.200; Click "Modify" and select "Record 1". Enter in the corresponding box :172.16.128.200 engine.thinvirt.dg **]** You need to restart the client after the setting is completed to take effect

dns record t	o hosts file		9
🗹 Record1:	172.16.128.200 engine.thinvirt.dg		Gat
Record2:			DNS Ser
	Example: 172,16,128,1 node.thinvi	rt.dg	DNS Ser
		sysinfo	Save

• System info:

Display the current hardware parameters and system version, Mac address, IP address, resolution and other information. As shown below:

	system info	×
	r.	
OS Version:	Enterprise Edition	
Processor:	Intel(R) Celeron(R) CPU N2805 @ 1.46GHz	
RAM:	1957880kB	
Frequency:	DDRIII 1600Mhz init freq	
Graphics:	Intel Corporation Device Of31 (rev Oa)	
Storage:	Disk /dev/sda: 16.0 GB	
NIC:	Realtek Semiconductor Co., Ltd. RTL8111/8168B PCI	
Sound:	Intel Corporation Device OfO4 (rev Oa)	
Opt:	sse2, sse3, ssse3, sse4.1, sse4.2	
OS:	Thinlnx Linux	
Kernel:	Linux 4.16.18	
Firmware:	2012111611	
DevName:	TC001	
Resolution:	1920×1080	
IP Address	: 172,16,128,188	
MAC Address;	00E26922E2F1	
Activate:	activated	
vDesktop Lice	enes: authorized	
	Exit	

4: Network Ping Testing

The tool mainly tests the current network communication situation, Such as testing the network communication between the thin client and the server.

Network Ping Testing			
Host or IP Address: 127.0.0.1		time(Seconds):5	Ping Exit
	I		