

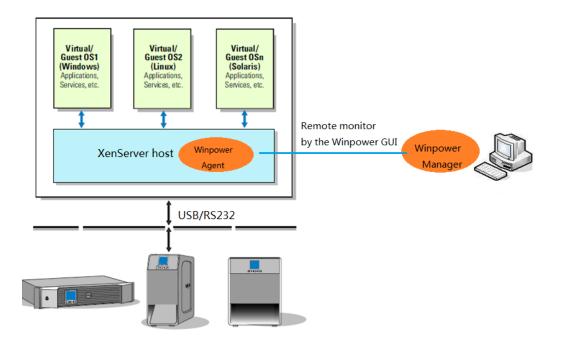
Installation and configuration for PowerWalker-WinPower in Citrix XenServer

PowerWalker-WinPower Test version
XenServer 5.5
XenServer 6.2
XenServer 6.5

## 1. Over Viewer

PowerWalker-WinPower is installed on the XenServer host. When the shutdown condition is met, the PowerWalker-WinPower will notify the XenServer host to shutdown.

The VMs will be shut down automatically before the host shut down. (This action takes effect as default by the XenServer)



# 2 Citrix XenServer Configuration

## 2.1 Installing XenServer tools for each Virtual Machine

• Open the XenServer Client, Choose the VMs, Right click VMs, Click "Install XenServer Tools"

DewerWalker

S XenCenter		
	M Storage Templates Tools Window Help	
🕒 Back 🔹 💮 Forward 🕤 📭 A	Add New Server 🗆 🏪 New Pool 🛅 New Storage 🛅 New VM 🗉 🍥 Shut Down 🛞	Reboot 🕕 Suspend 🛛 🖌 No Sys
Views: Server View	Windows Server 2008 (64-bit) on 'xenserver6'	Logged in as: Local
Search 🔎	General Memory Storage Networking Console Performance Snapshots Logs	
) XenCenter Пар xenserverб	DVD Drive 1: xs-tools.iso	Eject Looking for guest
喝 Windows Server 2008 (64-bit		
DVD drives Local storage		
Removable storage	Perve Citrix XenServer Tools Installer	
	Recycl Citrix XenServer Tools Installer	
	Installing Citrix XenServer Tools	
	Drivers : Installing	
	Vss Provider : Installing Guest Agent : Installing	
	Back Next C	ancel
	🎊 Start 🛛 🚠 💻 🏈 🖉 Citrix XenServer Tools In	💭 🕞 8:46 AM

• The XenServer Tools is installed as below image:

ews: Server View		w Pool 🛅 New Storage 🛅 New VM 🗆 🥑 Shut Down 🛞 Reboot 🕕 r 2008 (64-bit) on 'xenserver6'	Logged in as: Local root acc	
earch		age Networking Console Performance Snapshots Logs	Logged in as. Locarroot acc	ouni
KenCenter • xenserver6	VM General Prop			
Windows Server 2008 (64-bit DVD drives Local storage	Properties	Expand all Collapse a		
Removable storage	General			
	Name:	Windows Server 2008 (64-bit)		
	Description:			
	Tags:	<none></none>		
	Folder:	<none></none>		
	Operating System:	Windows Server® 2008 Standard		
	BIOS strings copied:	No		
	Virtualization state:	Optimized (version 6.2 installed)		
	Time since startup:	3 minutes		
	UUID:	e9d71ca6-8885-a2c4-c975-048140c2bcfa		
	Boot Options			



## 2.2 Open XenServer host ports

- The PowerWalker-WinPower use UDP 2198/2199/2200 as the communication port with remote PowerWalker-WinPower agent
- Open the XenServer Client, click the host console, Open the UDP port by the following command:

For example:

iptables -I INPUT -p udp --dport 2199 -j ACCEPT iptables -I OUTPUT -p udp --dport 2199 -j ACCEPT /etc/rc.d/init.d/iptables save

# **3** Installing and Configuring for PowerWalker-WinPower

## 3.1 Installing PowerWalker-WinPower

- Upload the installation file "PowerWalker\_setup\_LinuxAMD64.tar.gz" to the XenServer host using WinSCP tools
- Unzip the installation file and install the software by the command tar –zxvf PowerWalker\_setup\_LinuxAMD64.tar.gz
- Install the PowerWalker-WinPower by the command": ./setup\_console.bin

## **3.2 Configuring PowerWalker-WinPower**

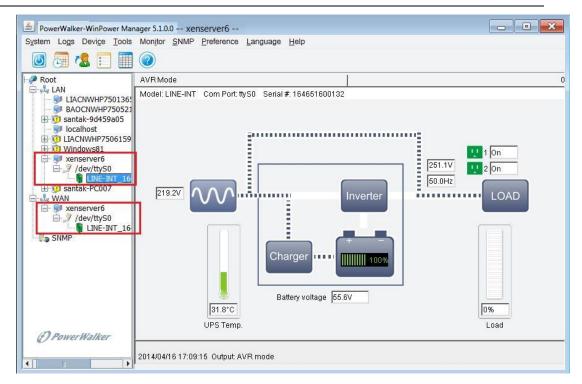
 Connect the UPS with Server via USB/RS232, Enter the "/opt/MonitorSoftware" directory, start the software agent by the command: cd /opt/MonitorSoftware

## ./agent start

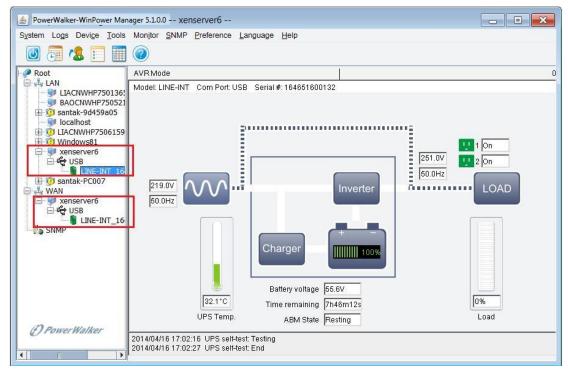
For the software agent of the XenServer is CUI mode, Please set the software agent by remote software Manager (software with GUI) on the windows
 The software will search for the UPS for the first start after installing,
 If the UPS is not detected, please search for the UPS manually as following:
 Choose the software agent on the XenServer host, open the "System"->"Auto Search
 Device", the UPS can be added under the LAN or WAN (xenserver6 is the host name of the

host)





## (RS232 Communication)



### (USB Communication)

The "/dev/ttyS0" (Serial Port 1) is captured by the system for the XenServer 5.5, not including XenServer 6.2, So the USB to RS232 can be used for the XenServer 5.5.
 Choose the software agent on the XenServer host, open the "System"->"Com Port Setting", add the serial port name. The serial port name is "/dev/ttyUSB0" as default.
 Auto search again manually after adding the port name.

Note: Check the /dev/ttyS0 is used or not by the command "setserial /dev/ttyS0".

If the /dev/ttyS0 is available, the serial port parameters can be shown as below picture:

() PowerWalker

[root@xenserver6	MonitorS	oftware]	# setse	rial	∕dev/ttyS0
/dev/ttyS0, UAR1	: 16550A,	Port: 0	x03f8,	IRQ:	4
[root0xenserverf	MonitorS	oftware]	#		

• Choose the software agent on the XenServer host, Set the shutdown Parameter as your desire

PowerWalker-WinPower Manager		8
System Logs Device Tools N	Shutdown Settings	
	Shutdown Options	
	/dev/ttyS0	
Root A	Battery Backup Time	0
	Shutdown File Max Execution Time	
	Shutdown Remote Agents	
	Shutdown Conditions Agent is shutdown Add	
(1) PowerWalker	Modify Remove	
2	Shutdown Alarm Parameters	
	Shutdown Alarm Interval	
[root@x	Scheduled Shutdown Countdown warning	
∠deu/ttı [root@x:		

# 3 Alarm pop up

• The alarms will pop up when the UPS power fail



#### xencenter server console

1	S99Winpower	wpExit.lax	
ibjspAixPpc.so	1 1 1 00	wpRMI	
ibjspBsdx86.so ibjspHpxPaRisc.sl ibjspIrxMips.so root@localhost win	shutdown.sh SMMPCFG.CSU power]#	wpRMI.lax	
roadcast message f	rom root (Sat Se	p 4 18:22:21 2010):	
Message: L	INE-INT in /deu/	ttyUSB0 input power failed!	
roadcast message f	rom root (Sat Se	p 4 18:22:21 2010):	

#### xencenter server console

jspnw.nlm	policy	Winpower_InstallLog.log	
lax.jar	portConfig.rmi	wpExit	
	S99Winpower	wpExit.lax	
lib_jspAixPpc.so		wpRH I	
lib jspBsdx86.so	shutdownOS	wpRMI.lax	
ib_jspHpxPaRisc.sl	shutdown.sh		
libjsplrxHips.so	SNMPCFG.CSU		
root@localhost wir	power]#		
Broadcast message f	ron root (Sat Sep	18:14:31 2010):	