

# Connect P150C with iSCSI initiator in Citrix XenServer

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<http://www.qsan.com.tw>  
White Paper# **QWP200908-P150C**

## Introduction

In this document, it introduces how to use the software iSCSI initiator in **Citrix XenServer** to connect to **QSAN P150C** controller as the iSCSI target. The **multipathing** is also supported by **Citrix XenServer** and will be included in the following operation. This configuration can also apply to all **QSAN P series** models.

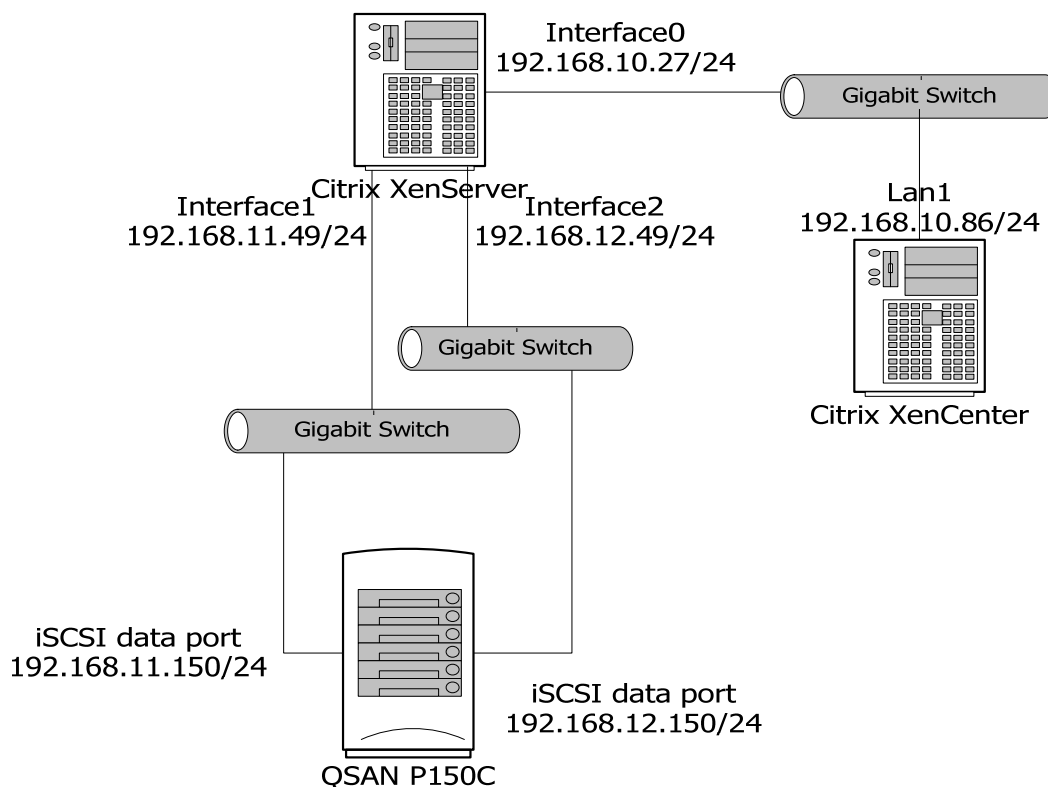
## Environment

**Host OS:** Citrix XenServer 5.0.0  
**NICs:** Interface 0 (for management)  
 Interface 1 (for iSCSI traffic)  
 Interface 2 (for iSCSI traffic)

**Host OS for management console:** Windows Server 2003 Enterprise  
**NIC:** Lan1 (connect to XenServer management port)

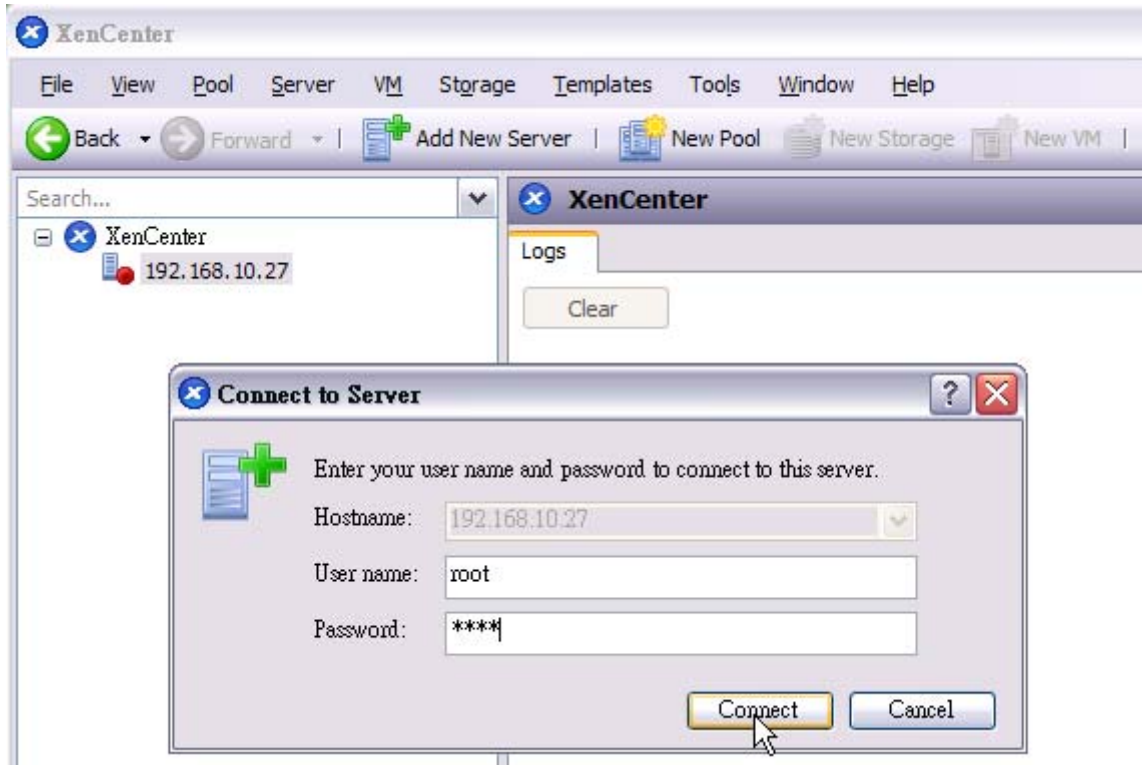
**iSCSI target:** QSAN P150C  
**RAM:** 1GB DDR2-533  
**Firmware:** 1.1.4 (20081212\_1700)  
**iSCSI data port:** 192.168.11.150/24, 192.168.12.150/24  
**LUN attached:** LUN 0 for 10GB

## Diagram

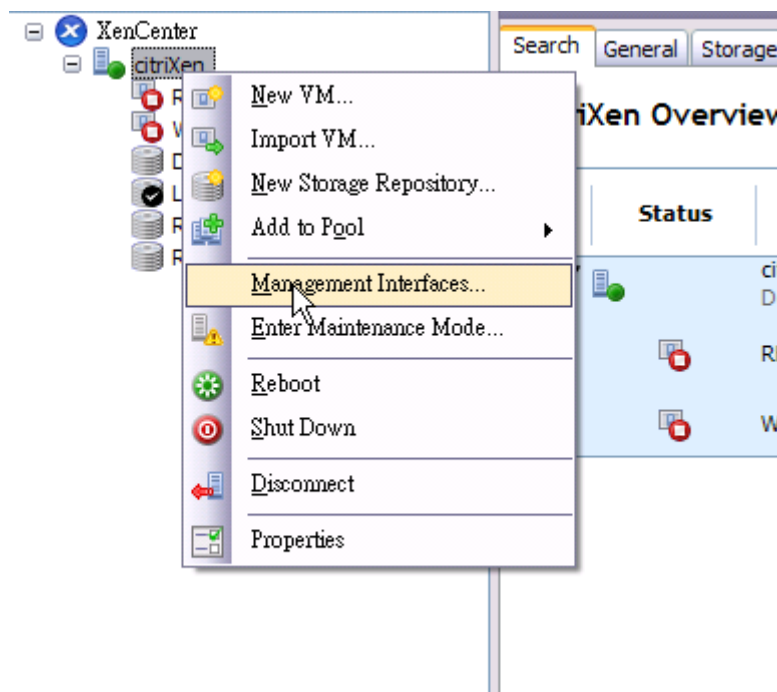


## Configuration

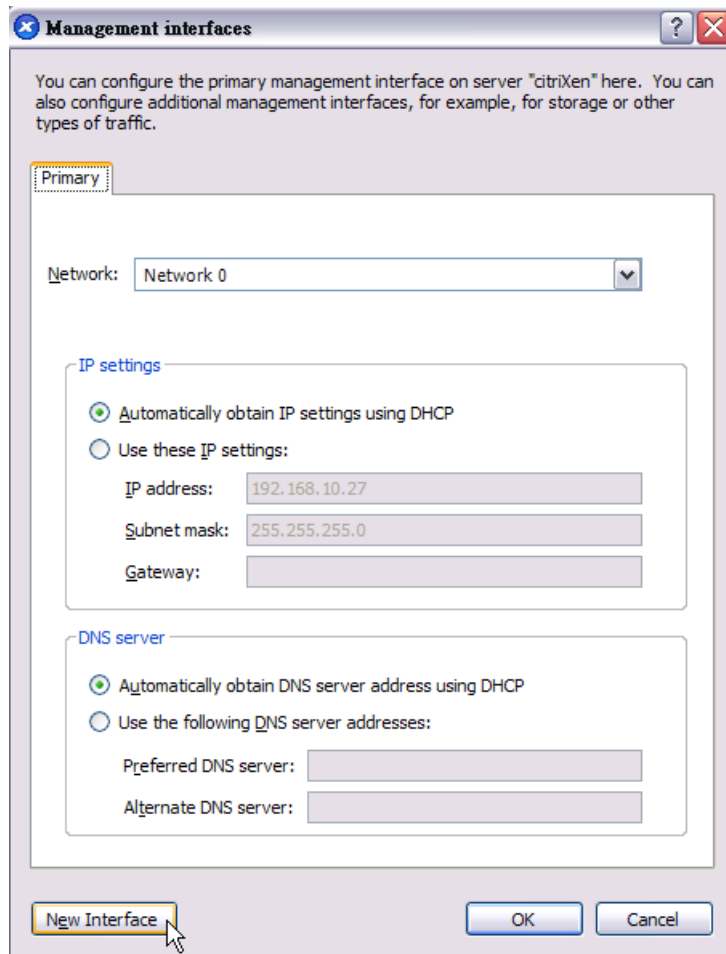
1. Login the XenServer from Citrix XenCenter.



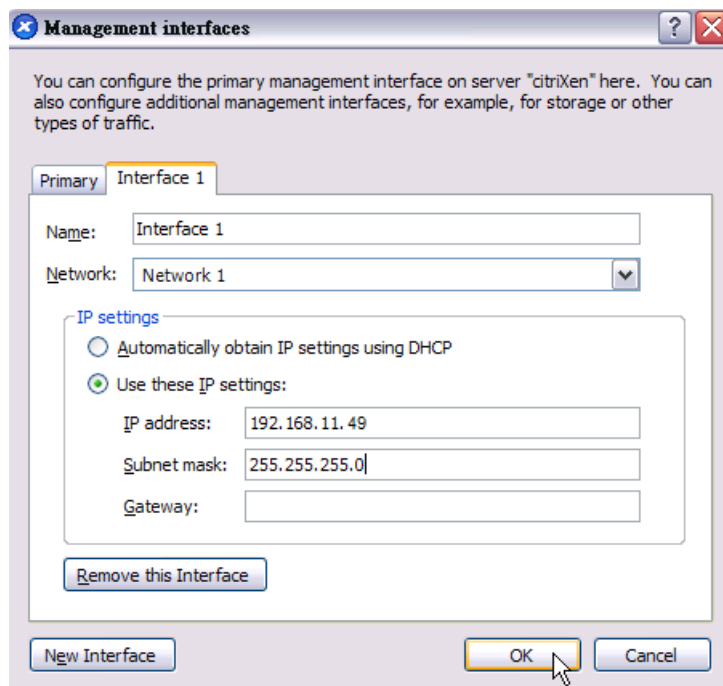
2. Create new interfaces 1 and 2 for iSCSI traffic. Right-click the server and click the **Management Interfaces** on the shortcut menu.

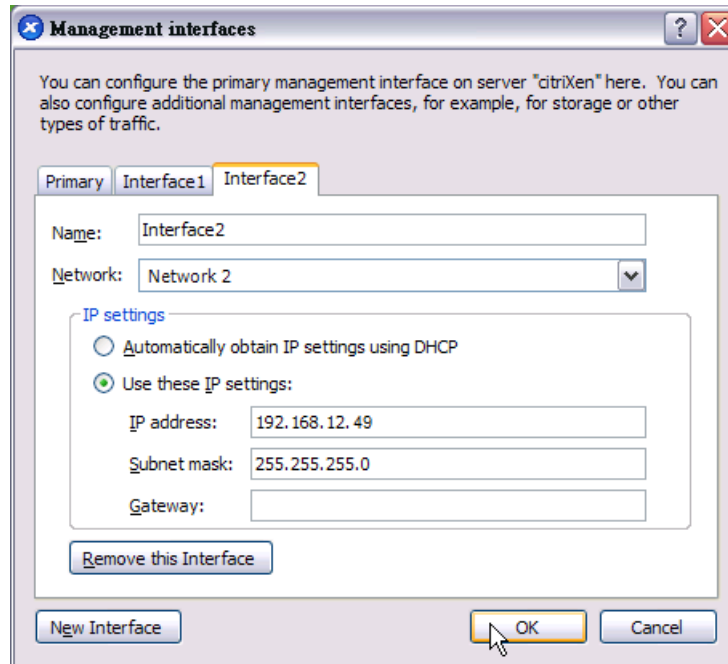


Click **New Interface** button to create new interfaces.

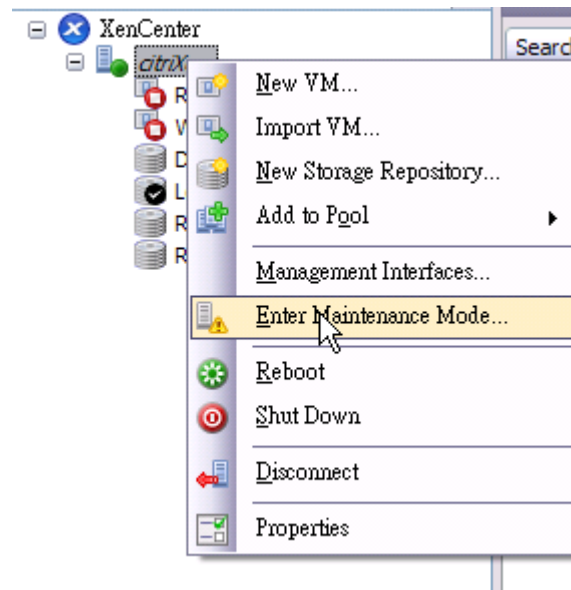


Create Interface1 and Interface2 for the iSCSI network traffic.

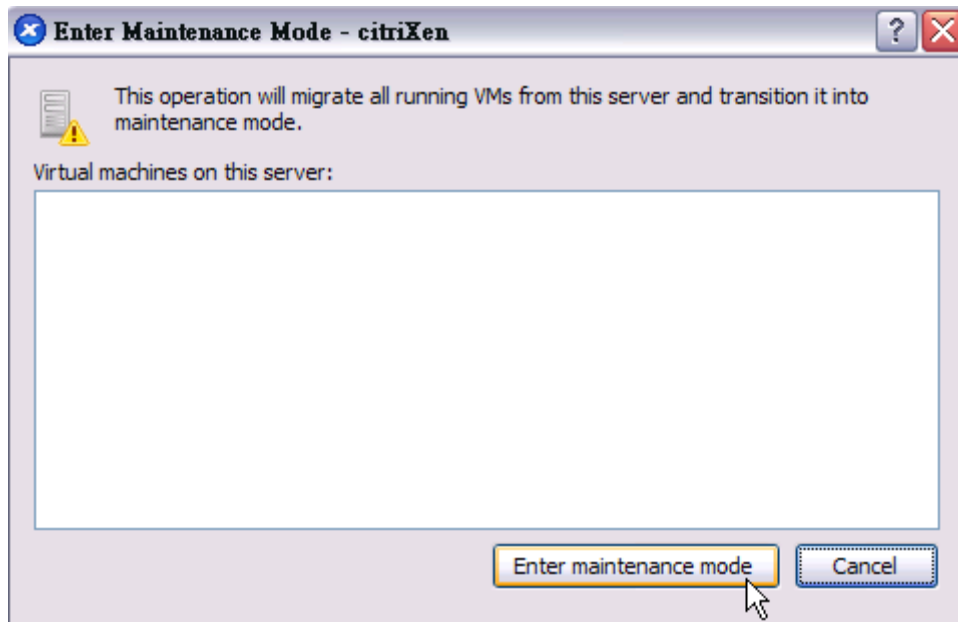




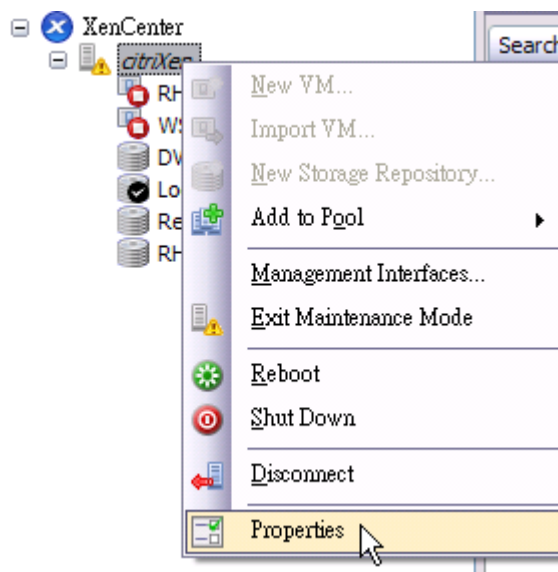
3. Under the maintenance mode of XenServer, enable the multipathing support on iSCSI traffic. Right-click the server and click **Enter Maintenance Mode** on the shortcut menu.



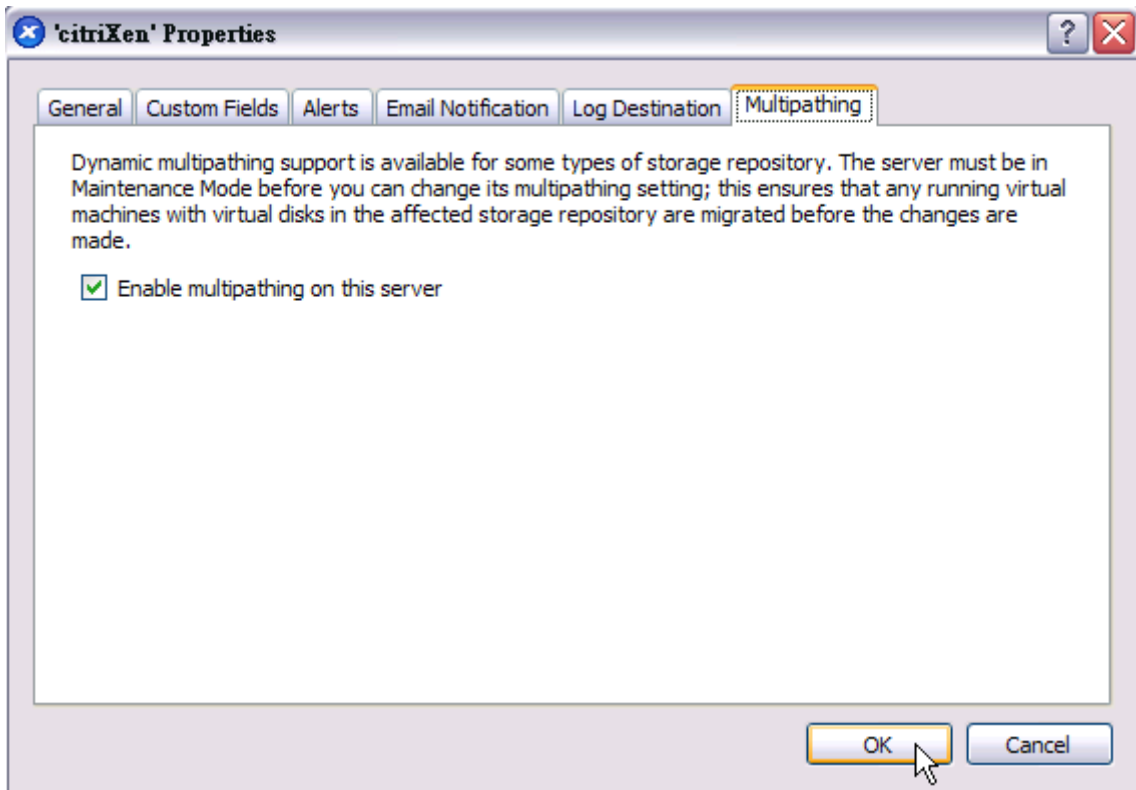
Click **Enter Maintenance Mode** button.



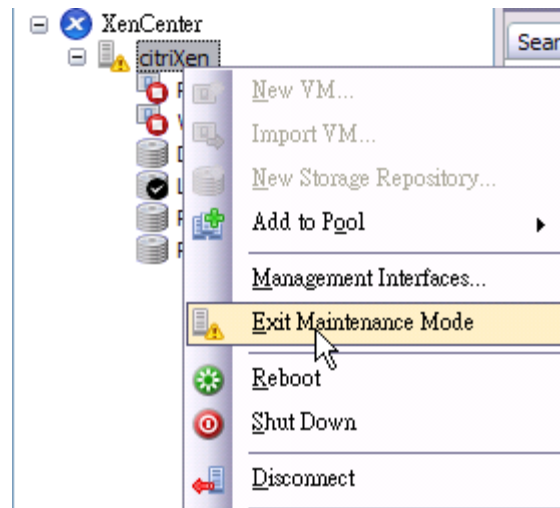
After the server enters the maintenance mode, right-click the server and click the **Properties** on the shortcut menu.



In the **Multipathing** label, check the **Enable multipathing on this server**, and then click **OK** button.



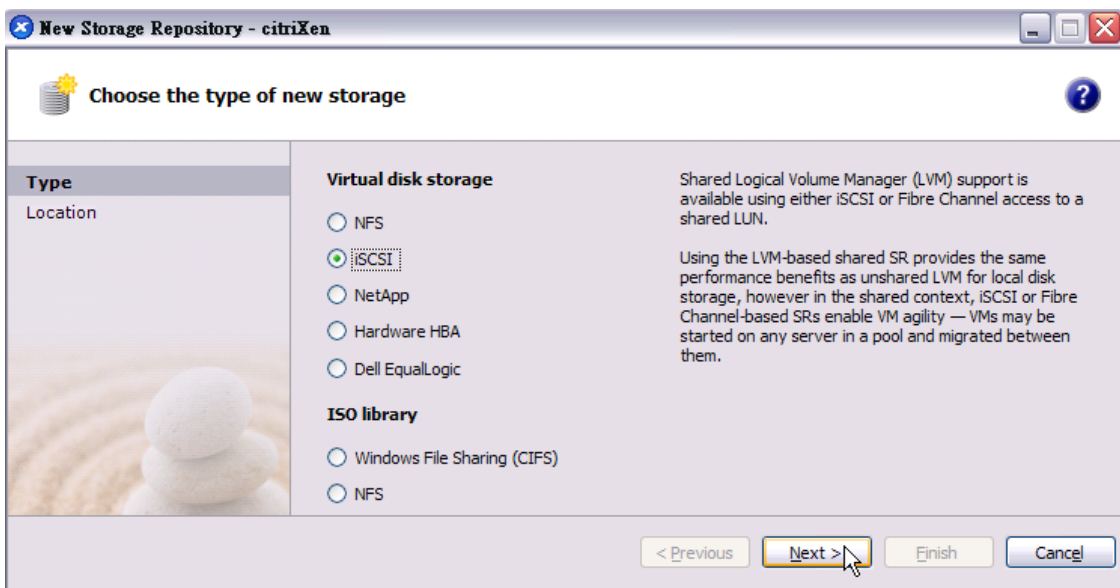
Right-click the server and click the **Exit Maintenance Mode** on the shortcut menu.



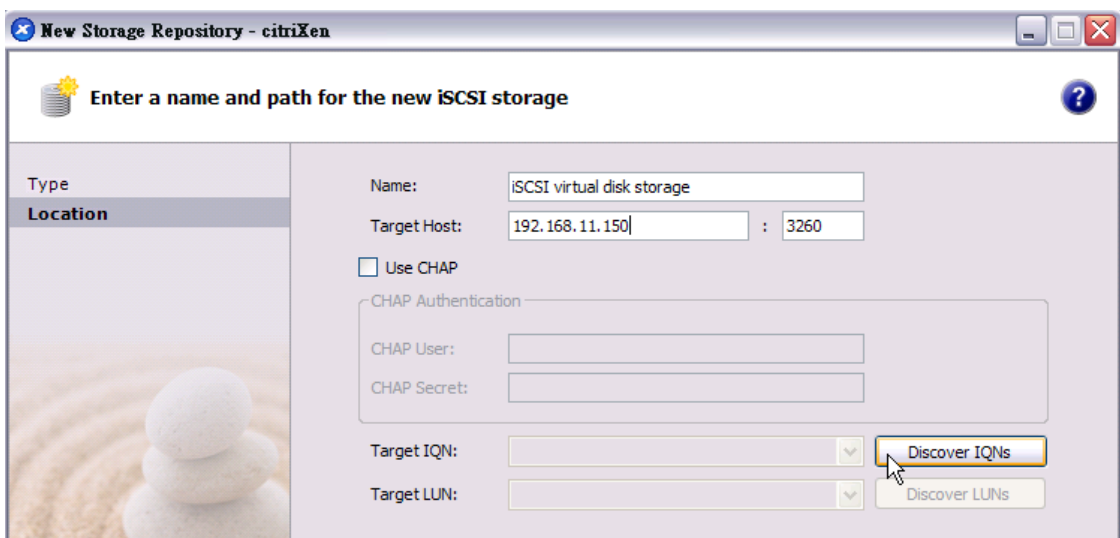
4. Create new SR (Storage Repository) with the type of iSCSI. Select the server and switch to **Storage** label. Click **New SR** button.



In the **New Storage Repository** window, select **iSCSI** in virtual disk storage and click **Next** button.

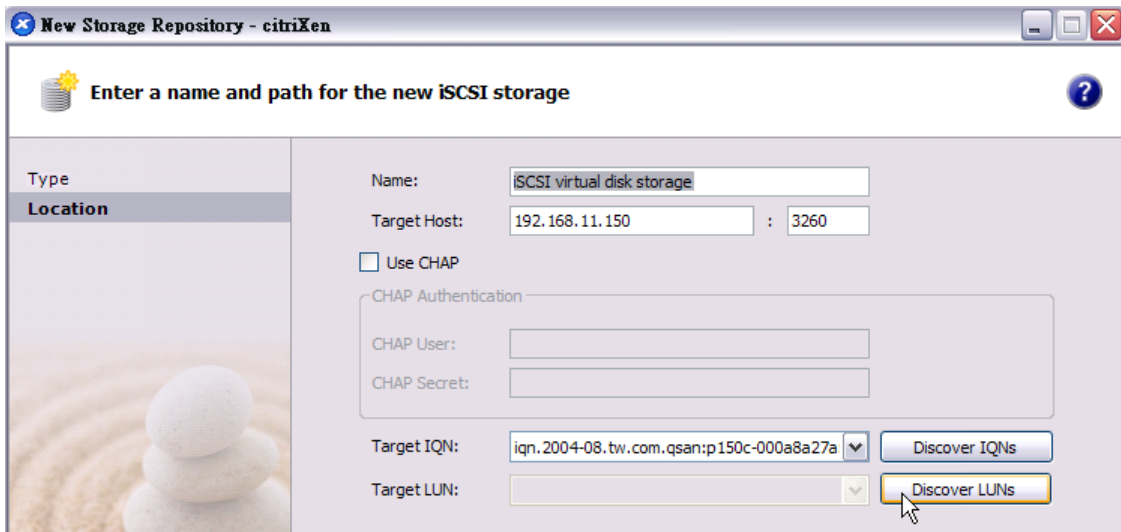


Specify the IP address of iSCSI target and the CHAP information if necessary. Click **Discovery IQNs** button.

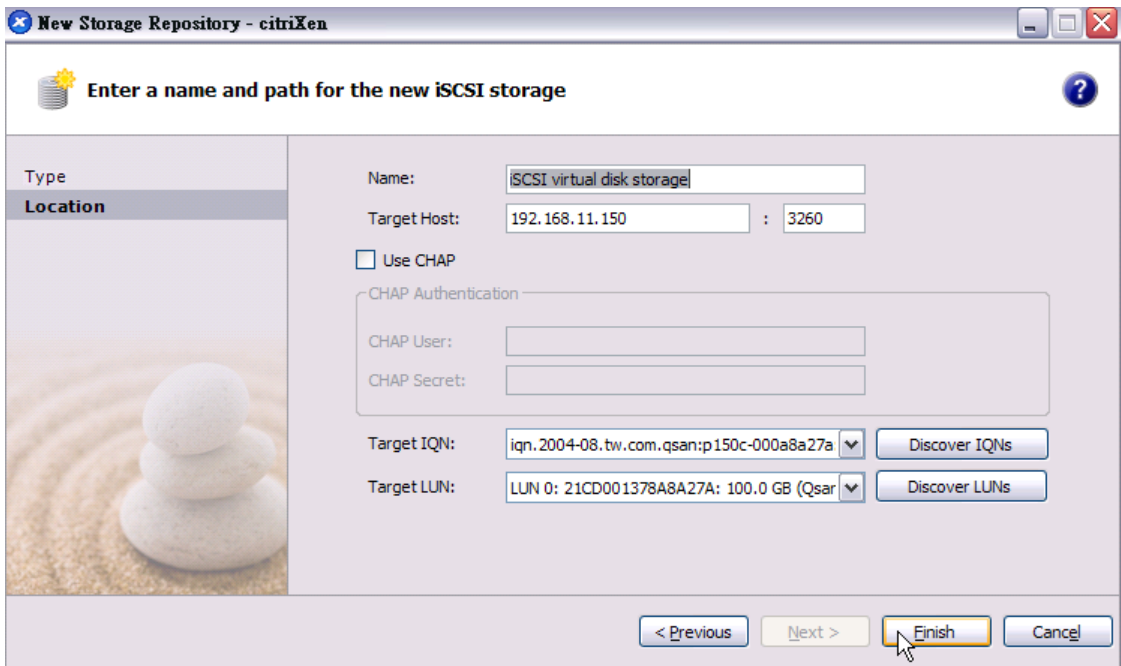




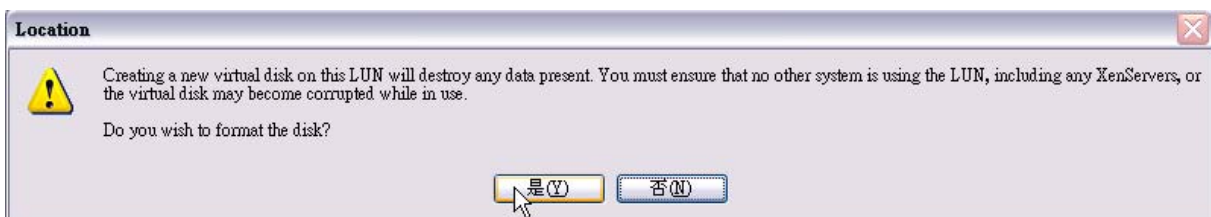
After iSCSI connection is created successfully, the target IQN will be displayed. Then click **Discover LUNs** button.



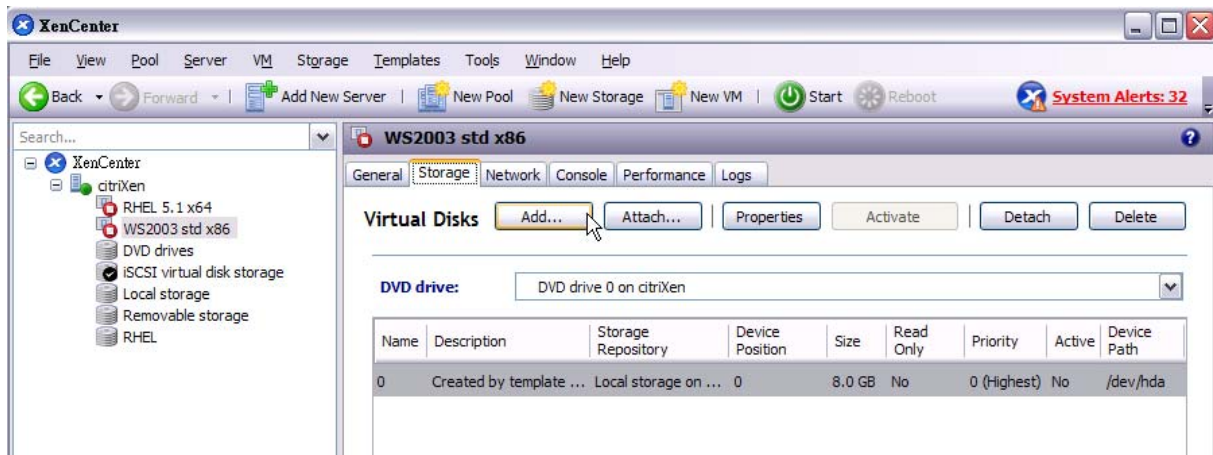
After the LUNs are discovered, select one of them to be a virtual disk storage.



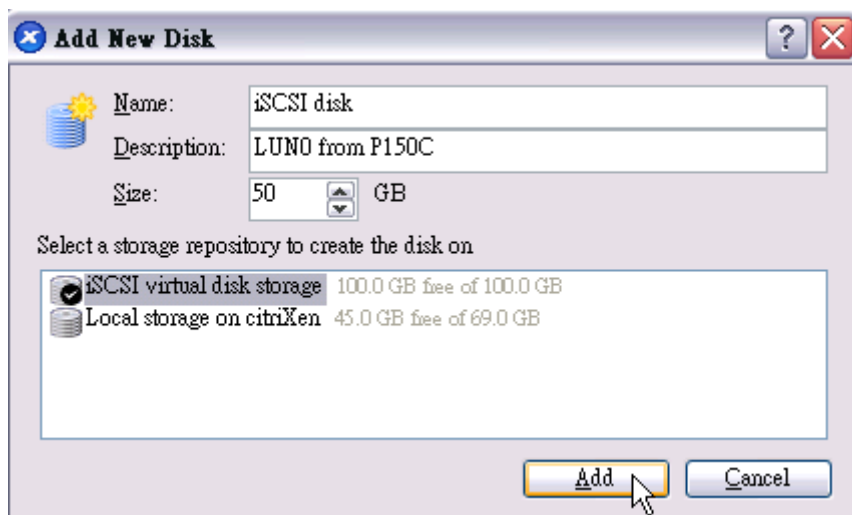
To format a new virtual disk storage is necessary.



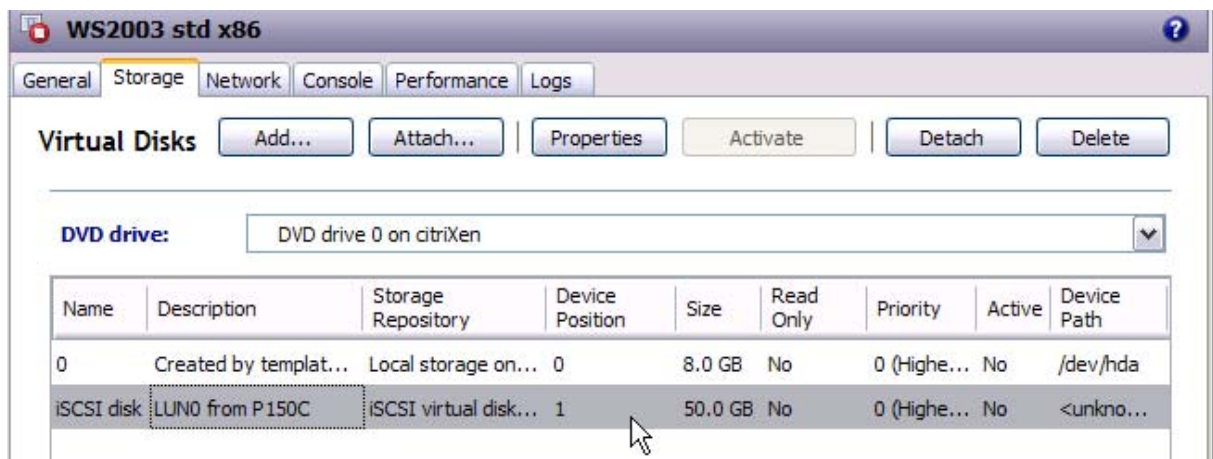
5. Create Virtual Disk which is used by guest OS. Select a guest OS and switch to **Storage** label. Click **Add** button to create a new virtual disk.



In **Add New Disk** window, specify the name, description and size. All available storage repository will be listed below. Select the iSCSI virtual disk storage and click **Add** button.



A new created virtual disk is listed in the virtual disks table now.



## Summary

**QSAN P series** controller provides high performance I/O and disk fault tolerance with RAID function. It can provide a safety storage for the virtual disks of guest OS in Citrix XenServer.

## Applies to

- All **QSAN P series** controllers FW (20081212\_1700)

## References

- XenServer Administrator's Guide  
[http://docs.xensource.com/XenServer/5.0.0/1.0/en\\_gb/reference.html](http://docs.xensource.com/XenServer/5.0.0/1.0/en_gb/reference.html)
- Help manual in XenCenter application