



## iSCSI - Dell EqualLogic PS5000

?? EMC + VMware ,Dell Equallogic ?????????? XenServer ???,????????? Dell EqualLogic PS5000 ?? XenServer ?  
 ??? SRs(Storage Repositories) ,????????????? "SR\_BACKEND\_FAILURE\_170 - Equallogic Target versio  
 unsupported"!!

????????? EqualLogic ?? XenServer 5.0 ? SRs(Storage Repositories) ??? 4.0.1. ??????????.????????????????????????  
 firmware.

<http://forums.citrix.com/message.jspa?messageID=1373090>

??? **Dell EqualLogic PS5000** ??????????????.Dell EqualLogic PS5000 ??????????!!????? "?" iSCSI ? SAN,?????????????.

<http://www1.ap.dell.com/content/products/compare.aspx/equallogic-ps5000-...>

?????????????????,????????????!!?????????3? Gega Byte Ethernet,??? Serial Port.?????????,????? Dell ? Sales ??????????  
 ??????????????????.?????????????????,????????? Client ? Windows ???????????.(HIT) Host Integration Tools ,?????????  
 ?????????????!!???????????? Windows ??(? Linux)????? Serial port ?????!!

- 9600 baud
- 1 STOP bit
- No parity
- 8 data bits
- No hardware flow control

**Dell EqualLogic - update firmware**

????????? XenServer ???(EqualLogic firmware 4.0.1. ??????????)????????? firmware ??????????,?????????  
 serial port ??? telnet / SSH ??? Ethernet port(Group IP address ???) ?? CLI ???.

firmware ?????? kit-verion.tgz ?????? .zip ???????.

???????? Host ?? ftp client ??? Desktop / Server ?!! EqualLogic ????? FTP Server ???,?????????firmware ???  
 EqualLogic ?????!!????? EqualLogic IP ? 192.8.1.6

```
[root@benjr ~]# ftp 192.8.1.6
#Name ??? grpadmin ??????????.
Connected to 192.8.1.6.
220 192.8.1.6 FTP server (NetBSD-ftpd 20040809) ready.
502 RFC 2228 authentication not implemented.
502 RFC 2228 authentication not implemented.
KERBEROS_V4 rejected as an authentication type
Name (192.8.1.6:root): grpadmin
331 Password required for grpadmin.
Password:
230 User grpadmin logged in.
Remote system type is UNIX.
Using binary mode to transfer files.
### FTP ?????????? ASCII ??????????,????????????? binary ?!!
ftp> binary
200 Type set to I.
```

```
#???? EqualLogic ?? "put" ?? EqualLogic ????? "get" ,???? kit_V4.0.5-R86146_2833425448.tgz ? FTP
client ? firmware ?????????????? EqualLogic ???.
```

```
ftp> put kit_V4.0.5-R86146_2833425448.tgz kit_V4.0.5-R86146_2833425448.tgz
```

```
local: kit_V4.0.5-R86146_2833425448.tgz remote: kit_V4.0.5-R86146_2833425448.tgz
```

```
227 Entering Passive Mode (192,8,1,6,255,254)
```

```
150 Opening BINARY mode data connection for 'kit_V4.0.5-R86146_2833425448.tgz'.
```

```
226 Transfer complete.
```

```
7117 bytes sent in 3.00016 seconds
```

```
ftp> close
```

```
221-
```

```
Data traffic for this session was 0 bytes in 0 files.
```

```
Total traffic for this session was 428 bytes in 0 transfers.
```

```
221 Thank you for using the FTP service on 192.8.1.6.
```

```
ftp> bye
```

?? EqualLogic ?? "update" ?? firmware.EqualLogic ??? Serial port ????

- 9600 baud
- 1 STOP bit
- No parity
- 8 data bits
- No hardware flow control

```
login: grpadmin
```

```
Password:
```

```
Welcome to Group Manager
```

```
Copyright 2001-2008 Dell, Inc.
```

```
SIT> update
```

This command will update the firmware on the array's flash card memory using the update kit file that was copied to the array.

If you choose to proceed, you will be shown the current firmware version and the version to which you will update. You will then be given the choice to proceed again.

The firmware update will not take effect until you restart the array.

Do you want to proceed (y/n) [y]: **y**

```
#?? "y" ?????? update ???.
```

```
10:13:03 Updating from kit file "kit_V4.0.5-R86146_2833425448.tgz"
```

10:13:03 Unpacking kit file and verifying integrity.  
10:13:12 Kit file verification complete, no problems.  
10:13:16  
10:13:16 Please note:  
10:13:16  
10:13:16 Only one control module was detected. If the array has two installed  
10:13:16 control modules, do not perform the update until you correct the problem  
10:13:16 that is preventing the array from detecting both control modules.  
10:13:16 Otherwise, only one control module will be updated.  
10:13:16  
10:13:18  
10:13:18 Currently running version is: Storage Array Firmware V3.3.1 (R68703)  
10:13:18 You will be updating to version: Storage Array Firmware V4.0.5 (R86146)  
10:13:18  
10:13:18  
10:13:18 PLEASE NOTE:  
10:13:18  
10:13:18 You are upgrading from firmware version V3.3.1 to version V4.0.5.  
10:13:18 You will NOT be able to downgrade back to V3.3.1 once the  
10:13:18 upgrade is finished.  
10:13:18  
Do you want to proceed (y/n) [n]: **y**

**### "y" ### update ###.**

10:13:24 Preparing to update active controller.  
10:15:11 Updating flash memory on active controller.  
10:15:11 This will take several minutes.  
1+0 records in  
1+0 records out  
512 bytes transferred in 0.001 secs (512000 bytes/sec)  
10:17:18 Update of flash memory on active controller completed.  
10:17:18  
10:17:18 Update completed successfully.  
10:17:18  
10:17:18  
10:17:18 PLEASE NOTE:  
10:17:18 After the array restarts, I/O and group management operations  
10:17:18 resume. However, ongoing upgrade operations will delay the  
10:17:18 login prompt on the console. Do not shut down or restart  
10:17:18 the array until the login prompt appears on the console.  
10:17:18 This should take approximately 10 minutes.  
10:17:18  
10:17:18 The firmware update will take effect when the array is restarted. To

10:17:18 restart the array, enter the restart command at the CLI prompt.

SIT> 787:0:logevent: 5-May-2009 22:17:18.400001:logevent.c:242:INFO:30.2.4:Array firmware update from version V3.3.1 to V4.0.

**SIT> restart**

Do you really want to restart the system? (yes/no) [no]:yes

firmware ?????????????????????? "restart",???????????????????? iSCSI Initiator ??????? group volumes.iSCSI  
Initiator ????????????????????? EqualLogic

? GUI Web ??? leftmost panel ? members list / member name ? right panel Controllers tab ??? firmware ?  
?!!

? CLI ?????? member select member\_name show controllers ??? firmware ?!!

**SIT> member select member\_name show controllers**

```

----- Controller Information -----
SlotID: 0                               Status: active
Model: 70-0111(TYPE 4)                  BatteryStatus: ok
ProcessorTemperature: 59                 ChipsetTemperature: 27
LastBootTime: 2009-05-06:10:19:51       SerialNumber: RMS83308A03559B
Manufactured: 2408                       ECOLevel: C02
CM Rev.: R07                             FW Rev.: Storage Array Firmware V4.0.5 (R86146)
NVRAM Battery: good

```

BootRomVersion: 7.0.0  
2007

BootRomBuilDate: Wed Dec 19 01:50:35 EST

-----  
Cache Information  
-----

CacheMode: write-back

Controller-Safe: disabled

Low-Battery-Safe: enabled  
-----

firmware ???????? XenServer ??? Dell EqualLogic

**Dell EqualLogic + XenServer**

????? XenServer ???????? Storage Repository ???????????? "Dell EqualLogic" ?????? iSCSI ???,????????????????,??

XenServer + EqualLogic ??????????????.???? 3 ???????? EqualLogic ??? XenServer ?????!??????? Web ???????????????

?? Initiator ?,??????? XenCenter ??????.

???? "New Storage" ?? "virtual Disk Storage" ?? Dell EqualLogic.

?? Dell EqualLogic ? IP / Username / Password.Username ??? grpadmin , IP/Password ???????????

???????????? "Create a new SR"

????? Thin Provisioning ????????,?????? Volume ????????????????? Dell EqualLogic ???.,????????????????????  
?? Volume ,?????????????????????  
??? Disk ????????????? " Dell EqualLogic virtual disk storage"

??????? Dell EqualLogic ?????????????????? XenServer + EqualLogic ?????,?????????????.  
[http://www.equallogic.com/partnerships/CitrixDemo/xenserver\\_equallogic d...](http://www.equallogic.com/partnerships/CitrixDemo/xenserver_equallogic_d...)