Remote Snapshot Control with API of Data Storage Software V6

Software Version: DSS ver. 6.00 up10

Presentation updated: October 2010

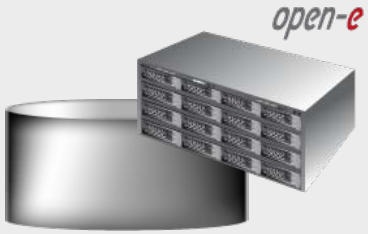
Remote Snapshot Control with API of DSS V6

TO SET UP REMOTE SNAPSHOT CONTROL WITH API, PERFORM THE FOLLOWING STEPS:

1. Download and install OpenSSH for Windows
2. Create an iSCSI Logical Volume with Snapshot
3. Settings API configuration on DSS V6
4. Issue the „snapshot_task" command with „start", „status" and „stop" options

NOTE:
You must use DSS V6 up10 build 3719 or newer

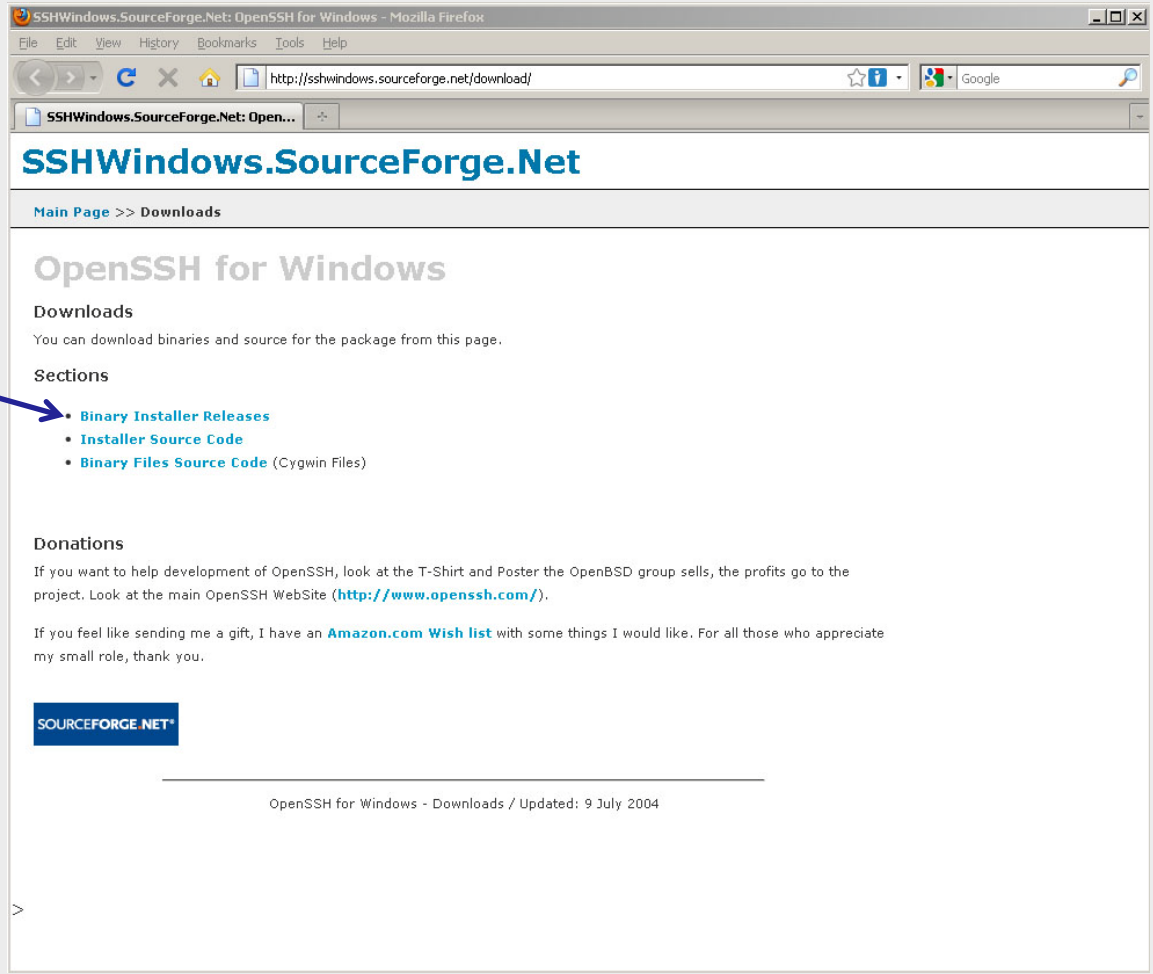
Remote Snapshot Control with API of DSS V6



Data Storage Software (DSS)
Address IP:192.168.0.220

1. Download and install OpenSSH for Windows

Download OpenSSH from http://sshwindows.sourceforge.net/download and install on your PC.



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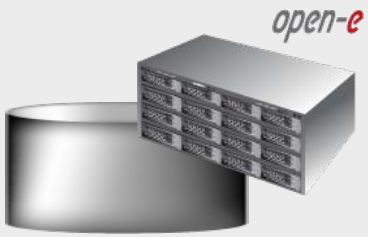

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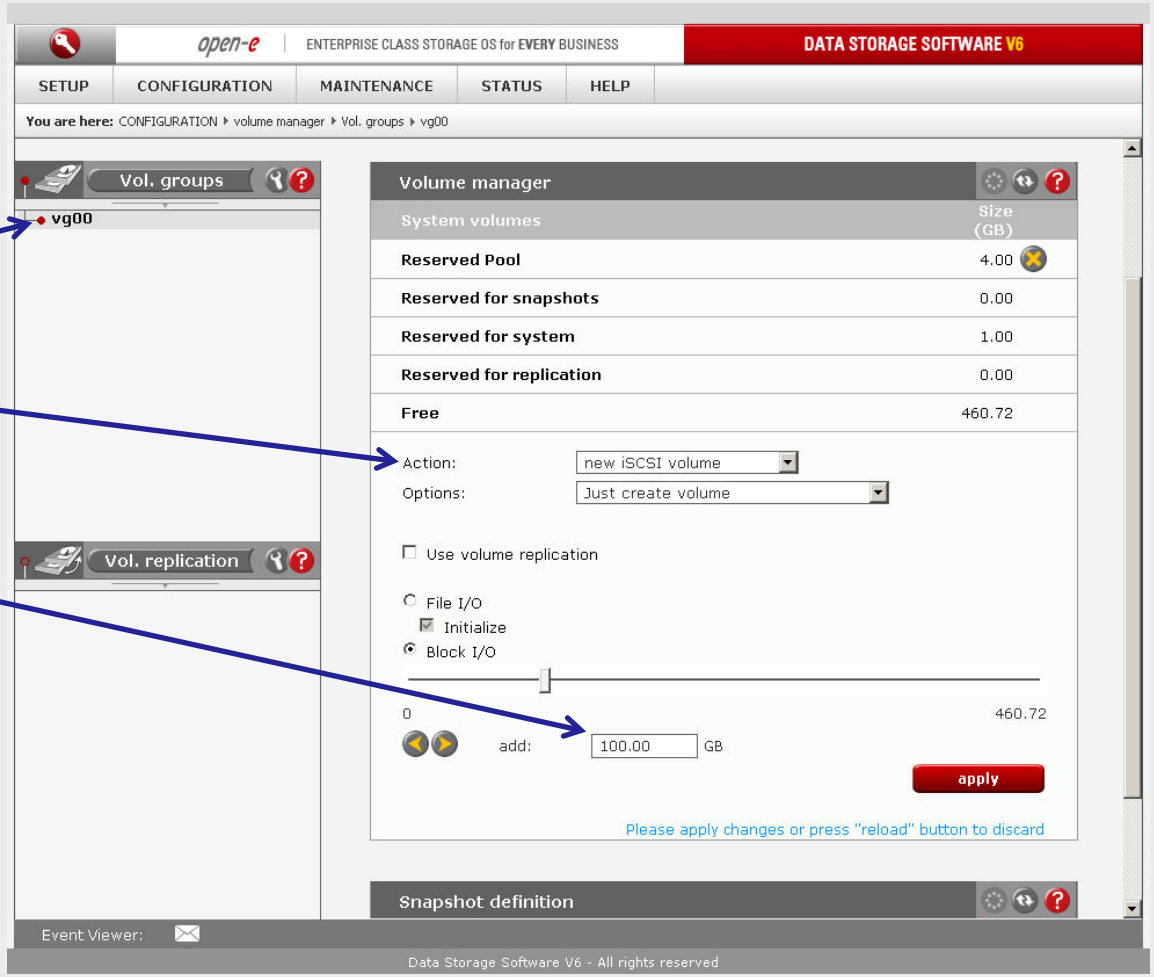
2. Create iSCSI Logical Volume with Snapshot

After logging on the DSS V6 please go to „CONFIGURATION" tab, Volume manager and Vol. groups. Next select the appropriate volume group (vg00) from the list on the left and in Volume manager function create a new iSCSI volume of the required size.
In order to confirm click apply button.



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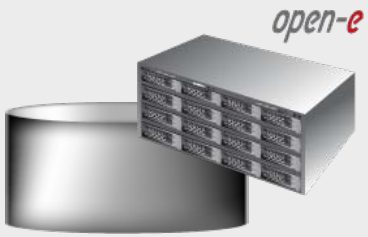

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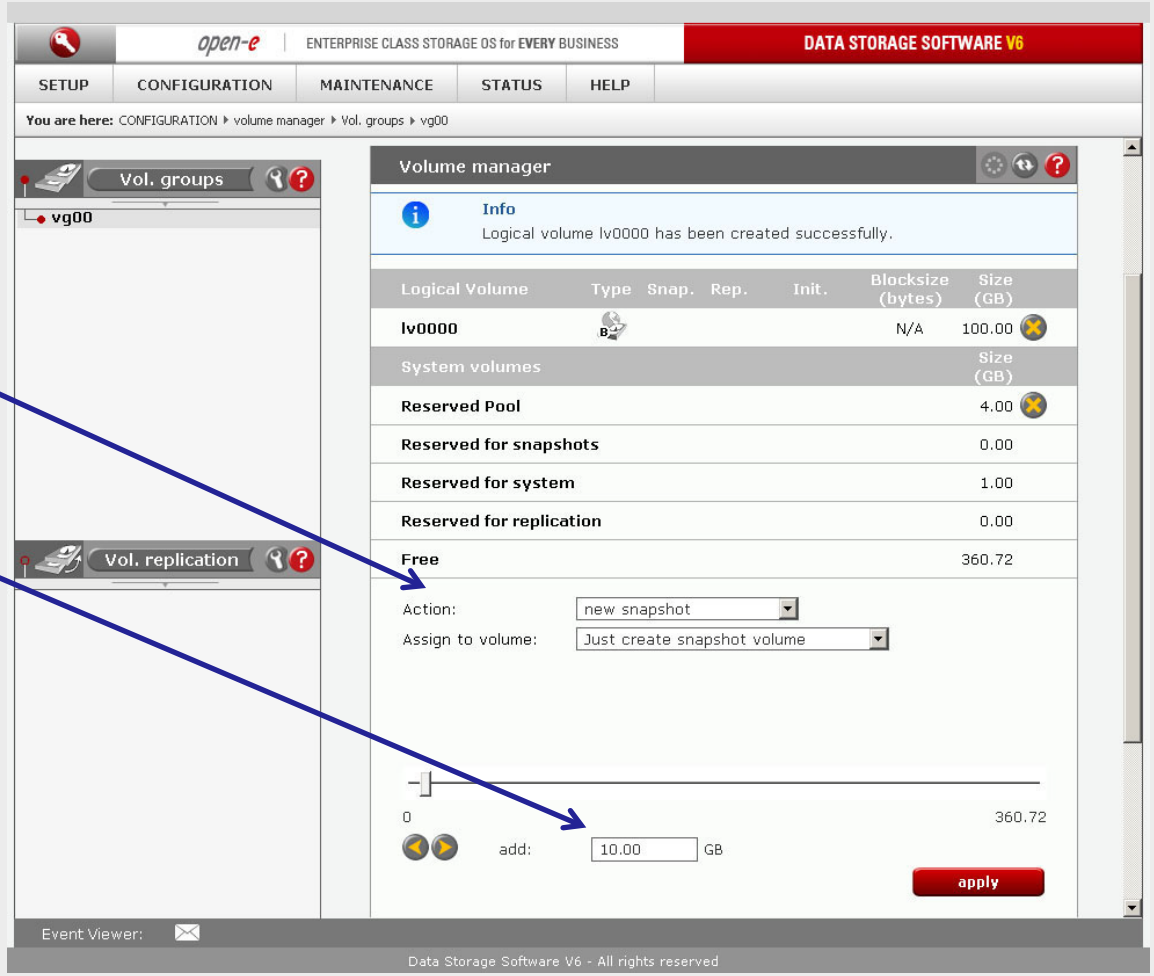
2. Create iSCSI Logical Volume with Snapshot

After reloading the page in the field Action select "new snapshot " of the required size (in this example 10 Gb), and click apply button.



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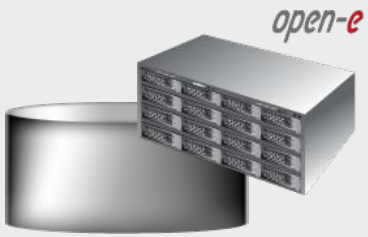

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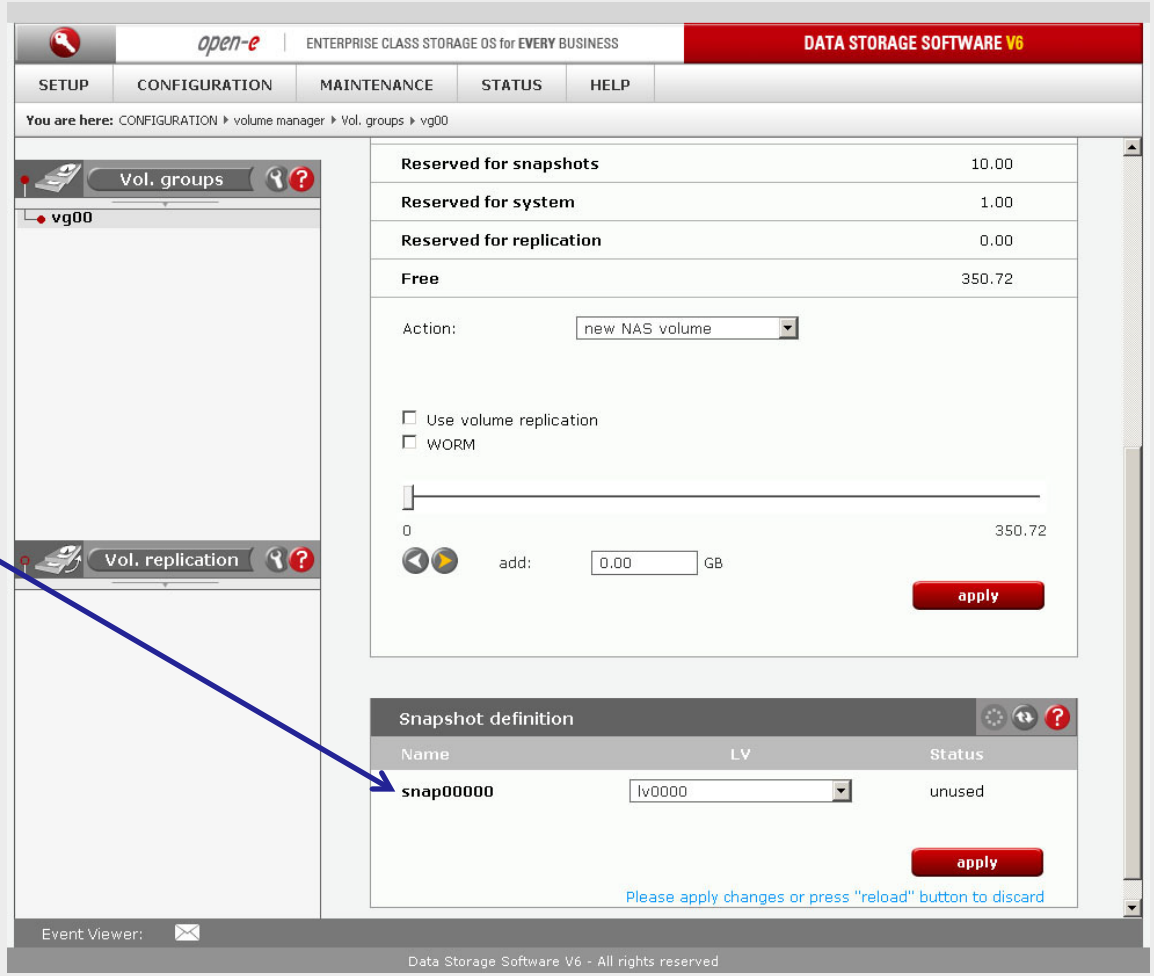
2. Create iSCSI Logical Volume with Snapshot

Next in Snapshot definition function assign appropriate logical volume (in this example lv0000) , and click apply button.



HINT:

For additional details about creating targets for the logical volume and the snapshot volume, please refer to the documents in the How-to Resources section on the web.

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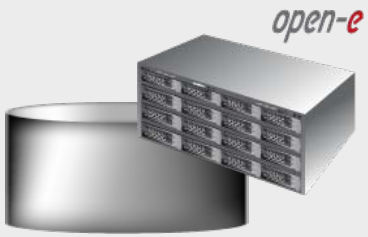

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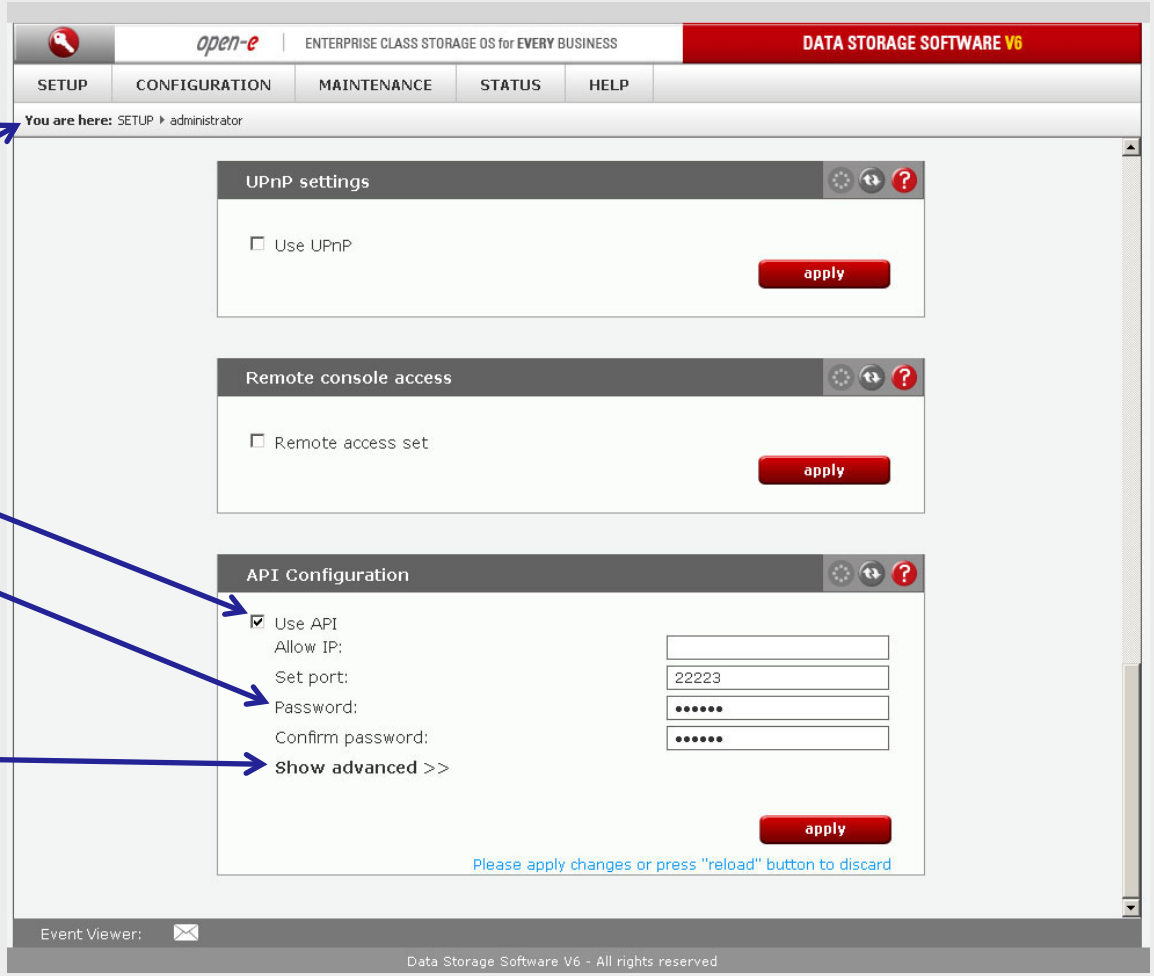
3. Settings API configuration on DSS V6

Next please go to „SETUP" tab, "administrator". In API Configuration function, check box „Use API" and in field „Password", please enter the Password and retype password. In order to confirm click apply button.

After reloading page, click on „Show advanced"



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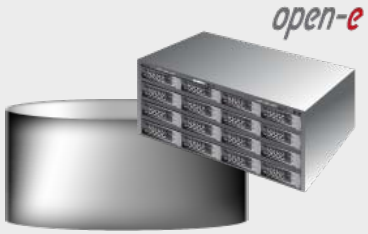

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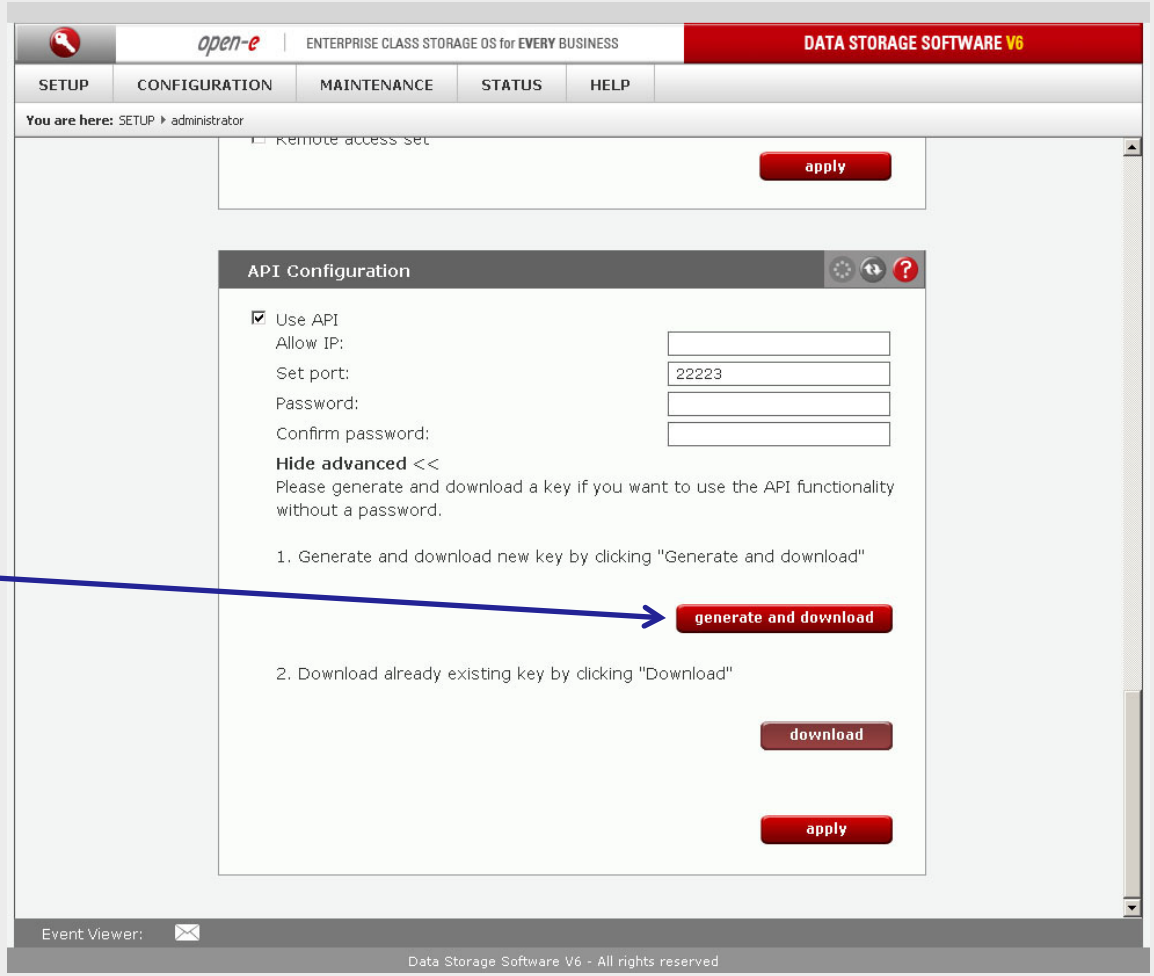
3. Settings API configuration on DSS V6

Please click on generate and download button.



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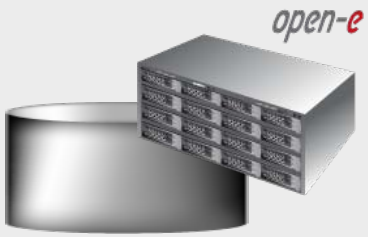

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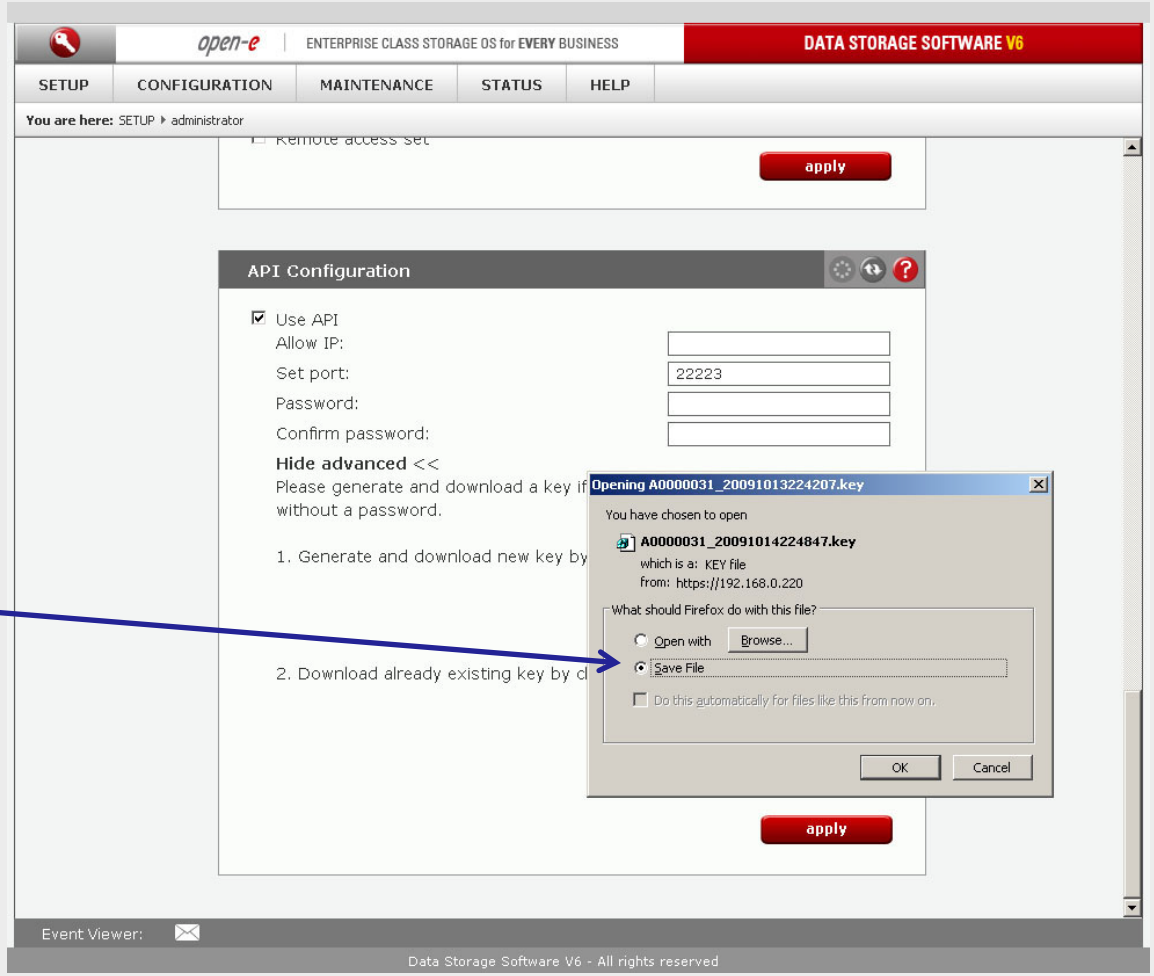
3. Settings API configuration on DSS V6

Next, save the generated key into a local folder, e.g. C:\API.



Syntax examples for the SSH command using the key:

ssh -i path_to_the_downloaded_key -2 -p 22223 -l api ip_address command

- option: -i sets the path to the downloaded key file,
- option: -2 sets the version of the SSH protocol used for the connection,
- option: -p sets the connection port (default: 22223),
- option: -l sets the user (the user must be api),
- option: ip_address sets the IP address of the storage server you want to connect to,
- option: command; the command consist of the command name and optional parameters and optional object names.

HINT:

In order to list the full command set, please issue the 'help' command. If you enter a command with missing parameters or missing object name thy system will prompt with full syntax of the command. Once complete command is entered it will run at once and non- interactive. A user script with API commands must be executed first on a testing system, not on a production system.

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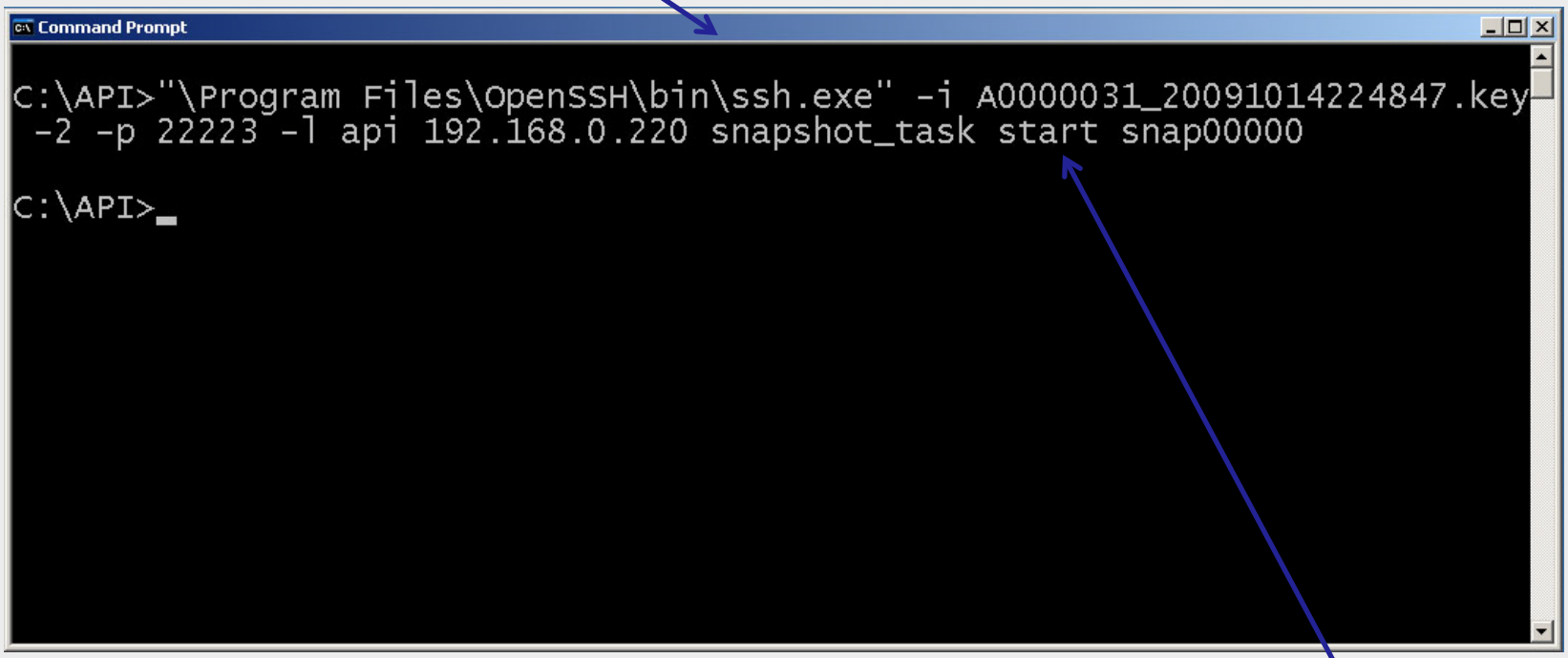
Please run the DOS command prompt box and change directory to the directory where you have saved the key, e.g.: C:\API

4. Issuing „snapshot_task” command with „start”, „status” and „stop” options

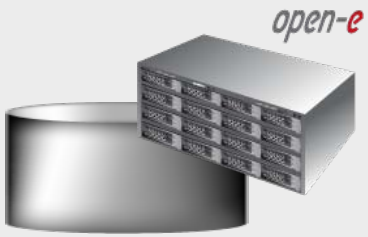


Please enter the "snapshot_task" API command with "start" option

HINT:

Entering the command line, please use the tab key for auto-complete of the program and key path or name

Remote Snapshot Control with API of DSS V6



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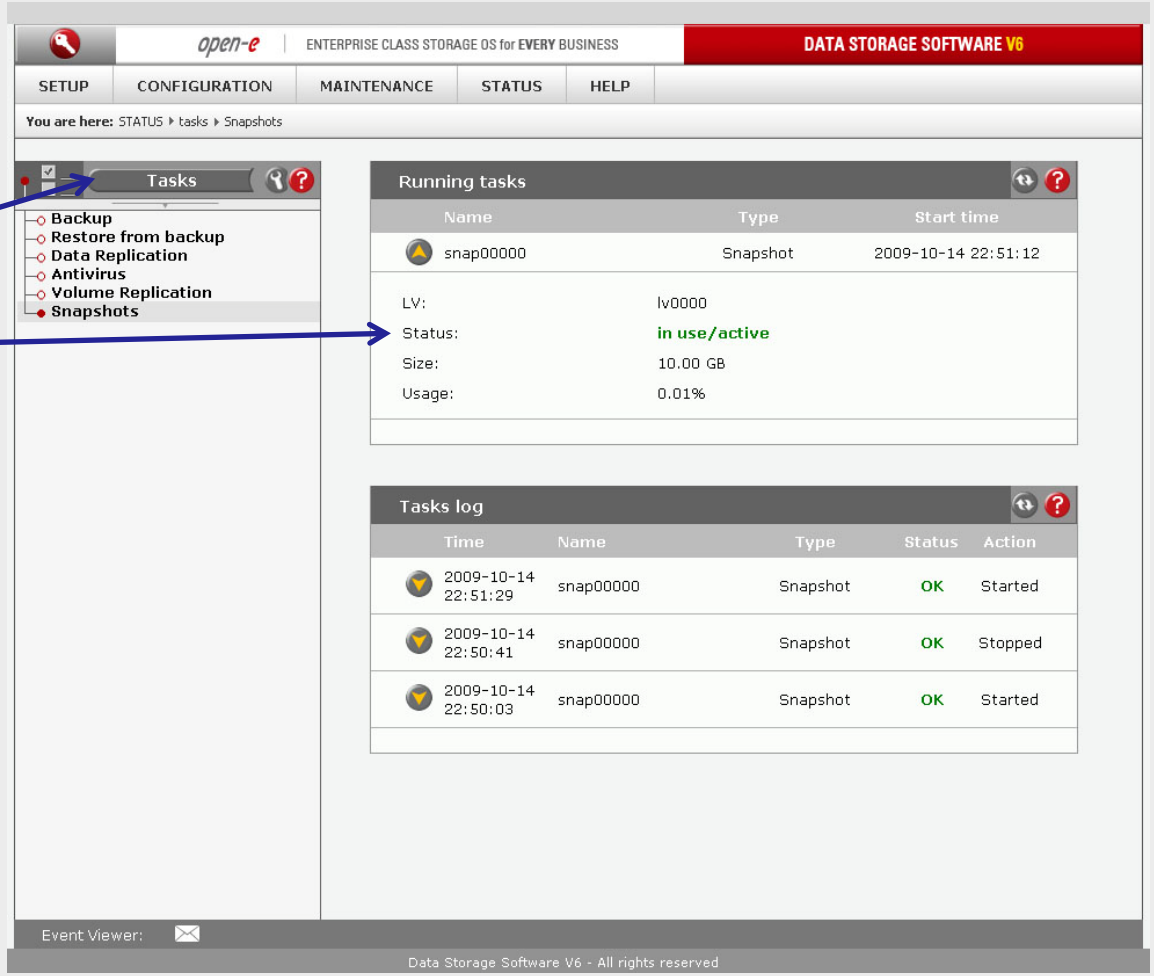
4. Issuing „snapshot_task" command with „start", „status" and „stop" options

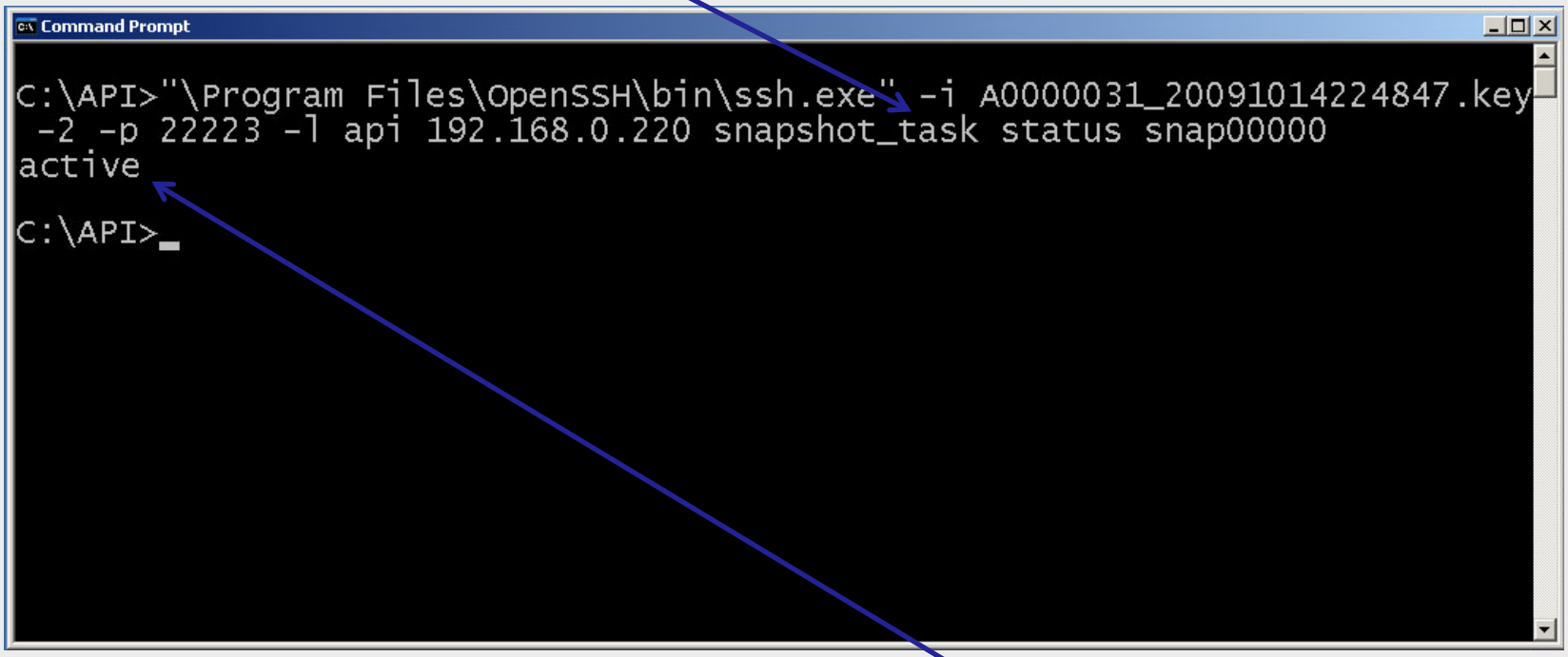
Please check the snapshot status in GUI menu: STATUS tab, Tasks. It must show "in use/active".



Remote Snapshot Control with API of DSS V6

You can check the snapshot status with the following API command: "snapshot_task" with option "status".

4. Issuing „snapshot_task” command with „start”, „status” and „stop” options



The API command "snapshot_task status" returns status: "active"

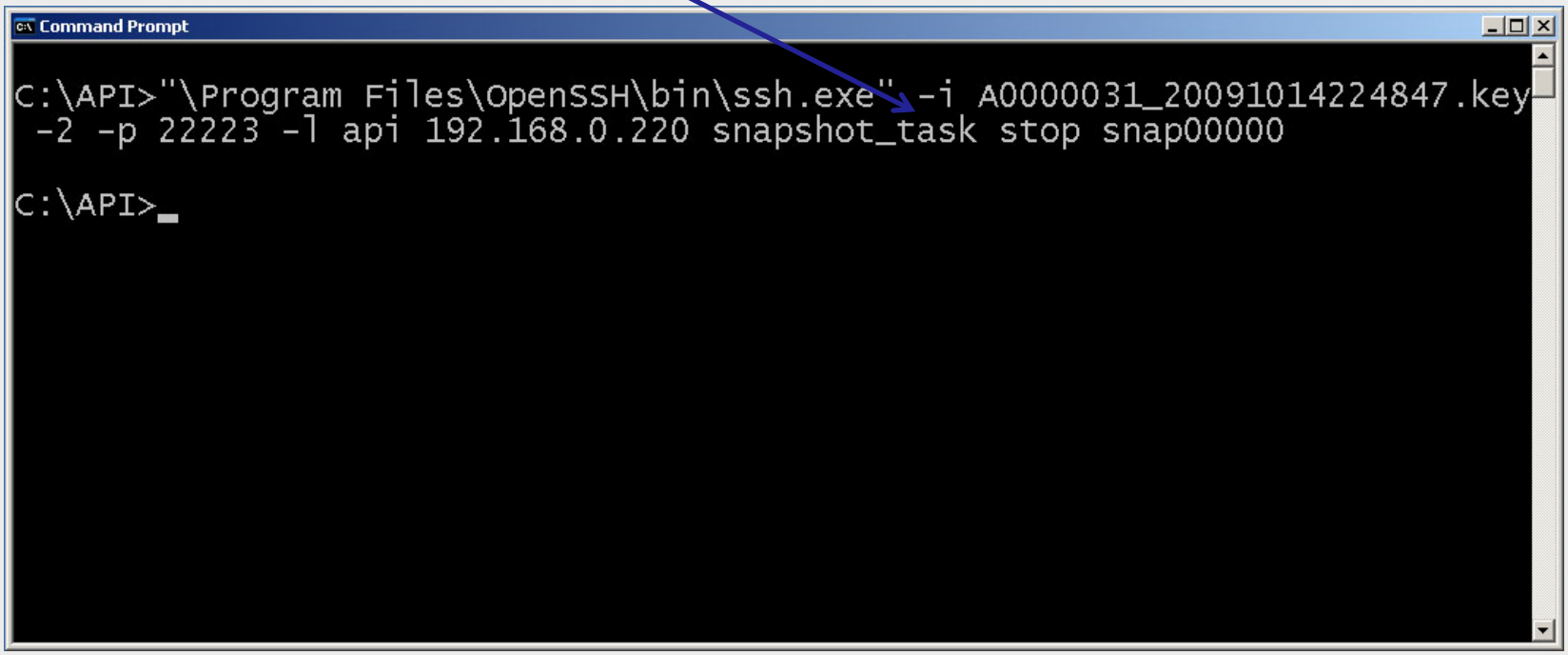
HINT:

Entering the command line please use tab key for auto-complete of the program and key path or name

Remote Snapshot Control with API of DSS V6

In order to stop the snapshot remotely, please issue „snapshot_task" command with option „stop"

4. Issuing „snapshot_task" command with „start", „status" and „stop" options



HINT:

Entering the command line please use tab key for auto-complete of the program and key path or name

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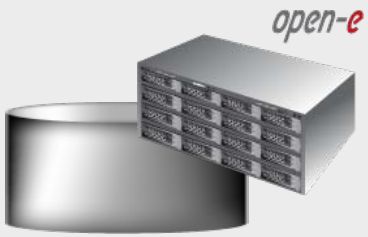

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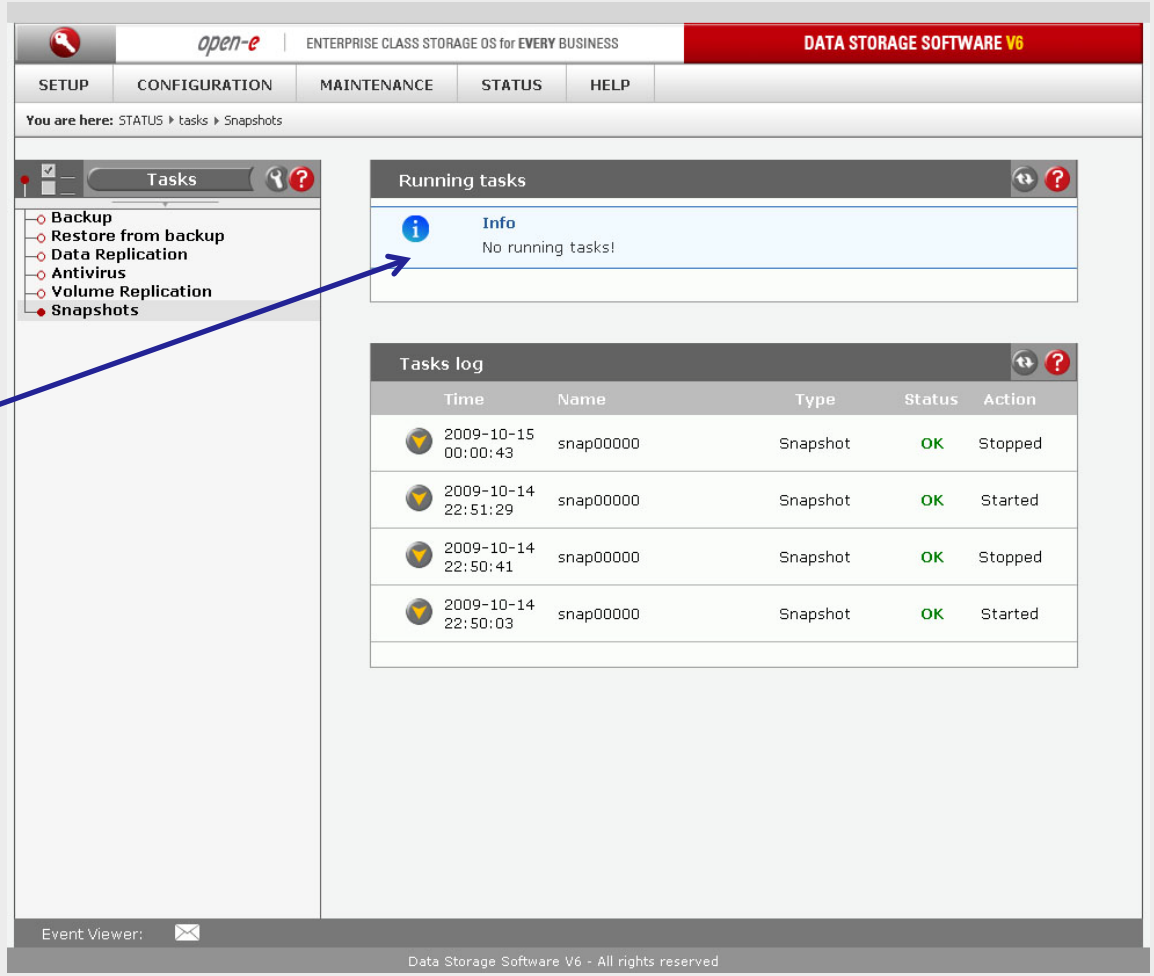
4. Issuing „snapshot_task” command with „start”, „status” and „stop” options

Now the function STATUS tab, Tasks, tasks show no active snapshot.



Thank you!