

SERVER BACKUP SISTEM KOMPUTER (FREENAS, CIFS, ZFS RAID1, ACRONIS)

Note :

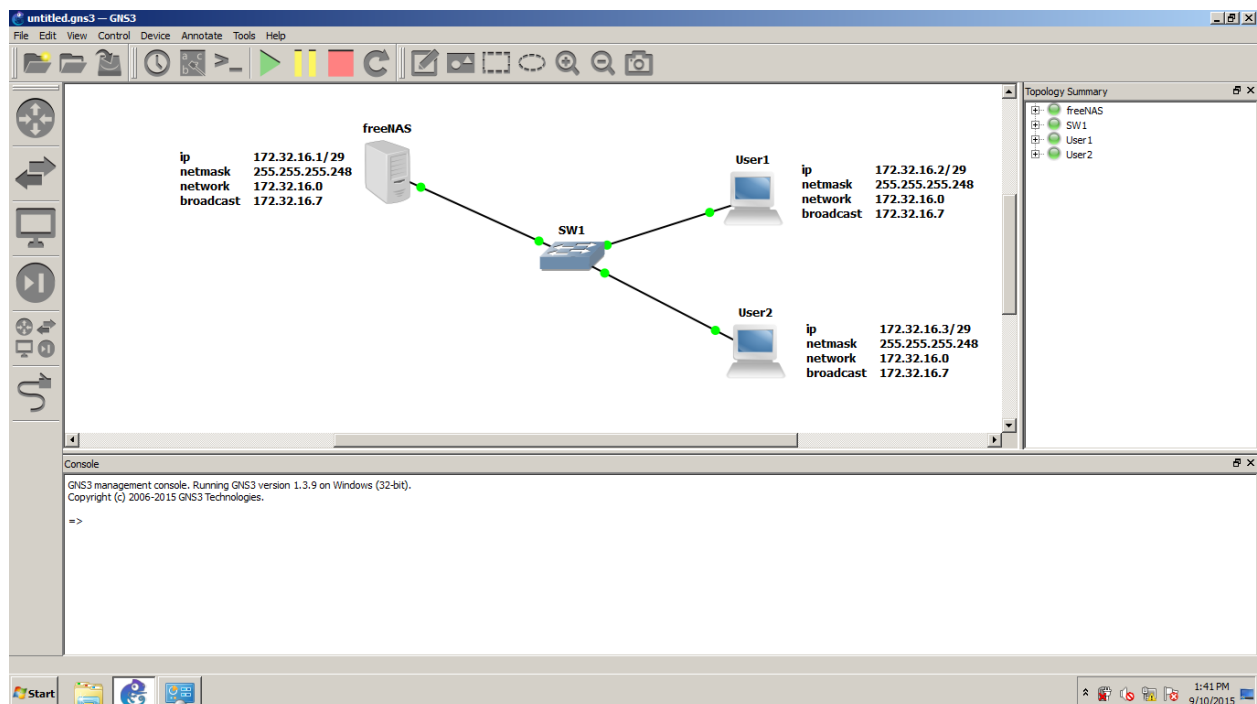
Komputer : Server (FreeNAS), User1 (Windows 7), User2 (Ubuntu).

Tujuan :

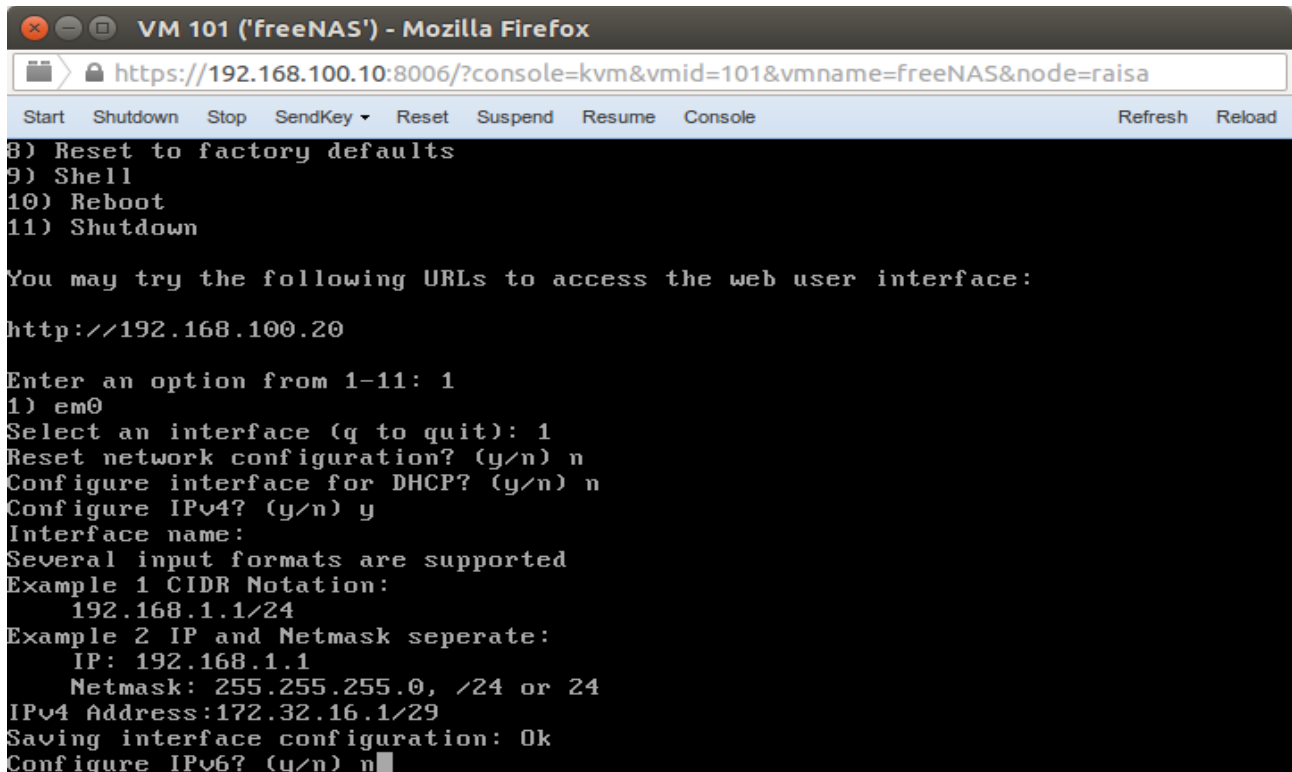
1. (manajemen sistem/partisi komputer di warnet, lab komputer, kantor)
freeNAS sebagai server backup file image.
2. jika ada sistem komputer client rusak/crash tidak perlu install ulang, cukup recovery sistem via network.
3. acronis support patisi windows dan linux.

Alat & bahan : Software freeNAS, Acronis.

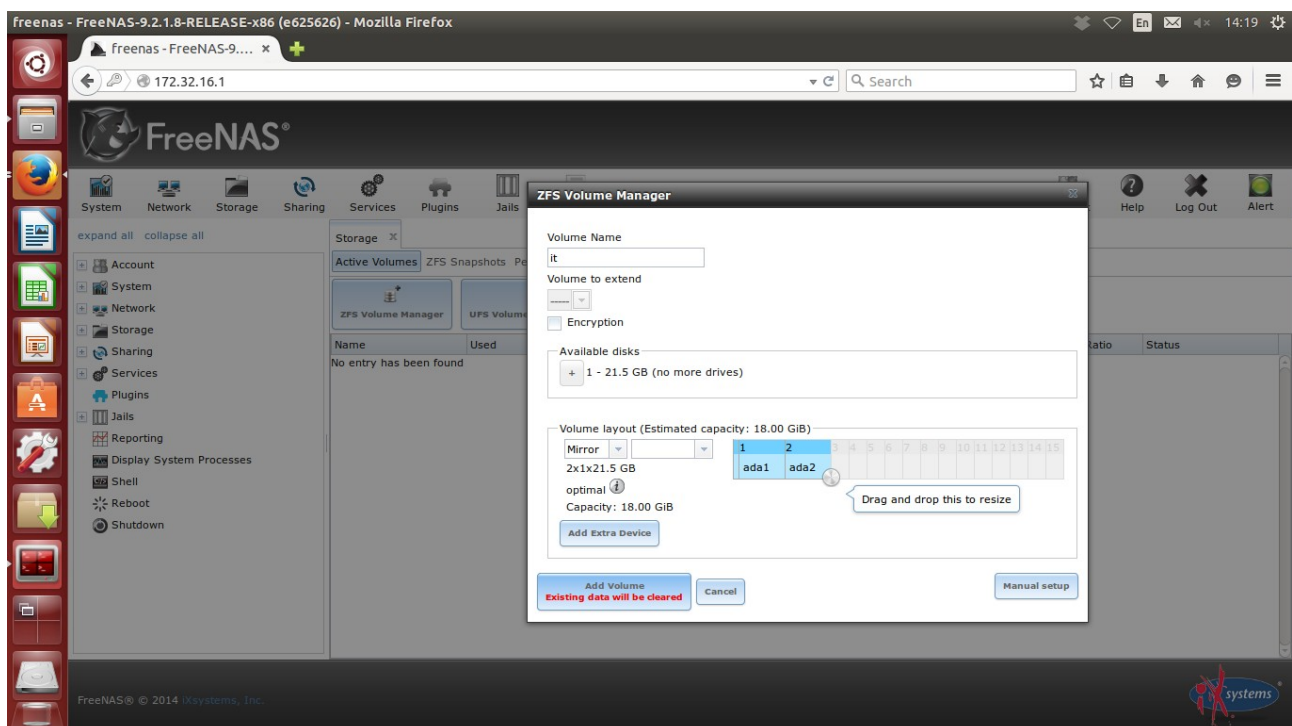
Topology jaringan



1. set ip address freenas, lalu akses via web browser.



2. set storage->ZFS vol manager, tambahkan 2 hdd yg identik (pada contoh 2hdd 20 GB), set raid1 mirror (hdd2 sebagai backup hdd1 dan sebaliknya jika terjadi kerusakan pada hdd), volume name set it akan terbentuk di /mnt/it.



3. cek active volumes (akan terlihat volume it telah aktif).

The screenshot shows the FreeNAS web interface in a Mozilla Firefox browser. The 'Storage' tab is selected, and the 'Active Volumes' sub-tab is active. A table displays the status of the 'it' volume.

Name	Used	Available	Size	Compression	Compression Ratio	Status
it	152.0 KiB (0%)	17.6 GiB	17.6 GiB	lz4	2.55x	HEALTHY

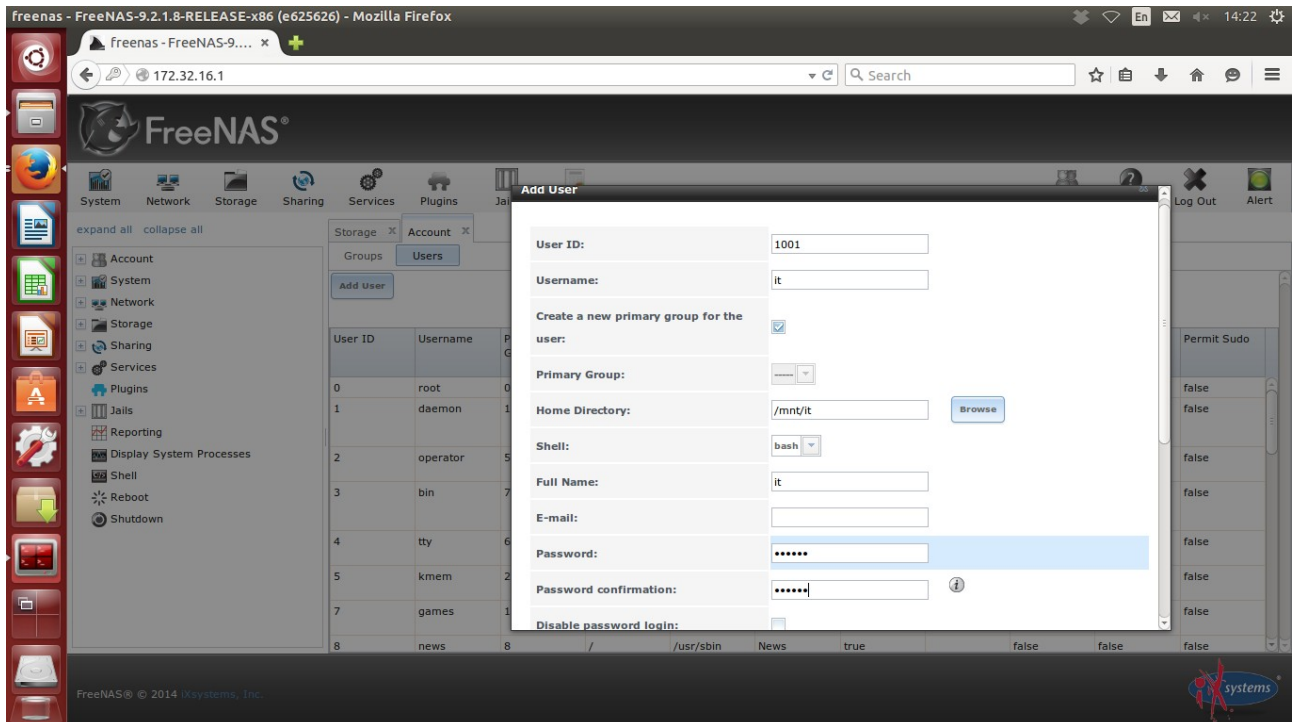
4. cek volume status (dapat dilihat volume it terbentuk mirror dengan 2 hdd).

The screenshot shows the FreeNAS web interface with the 'Volume Status' sub-tab selected. It displays the 'Scrub' status and a table of the 'it' volume's mirror components.

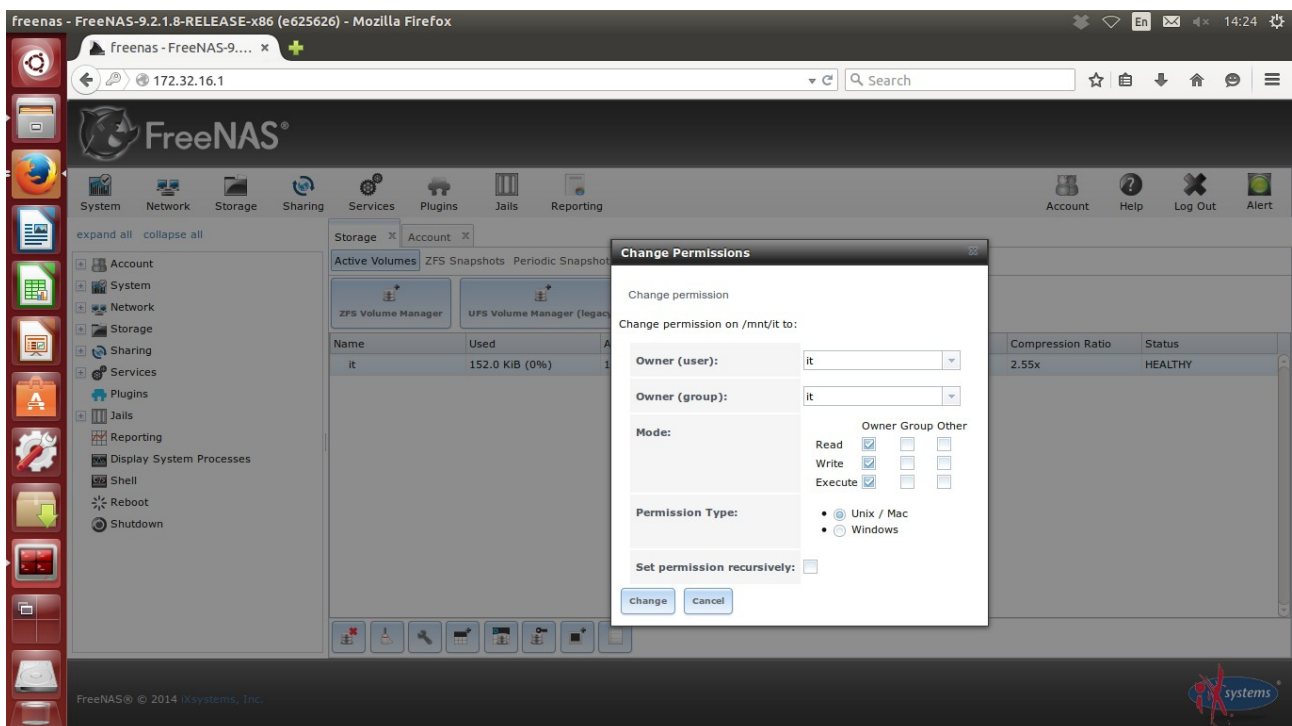
Scrub
Status: None requested

Name	Read	Write	Checksum	Status
it	0	0	0	ONLINE
mirror-0	0	0	0	ONLINE
ada2p2	0	0	0	ONLINE
ada1p2	0	0	0	ONLINE

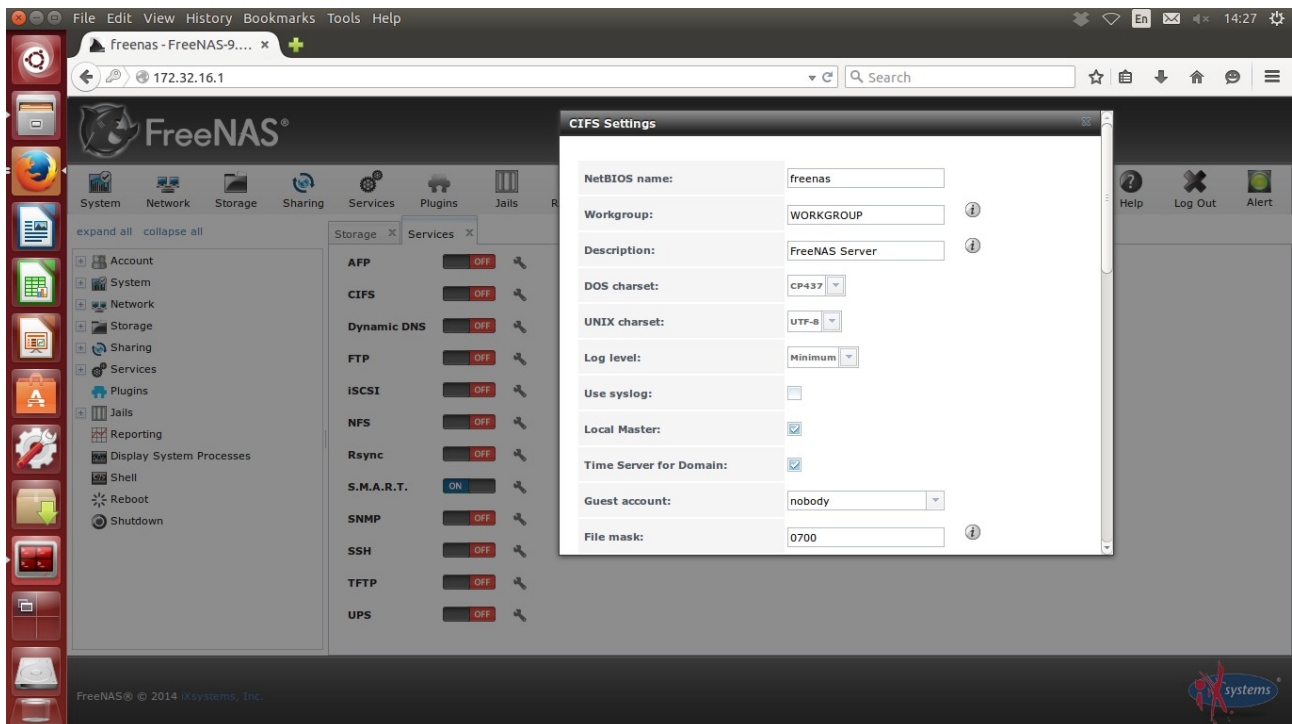
5. tambahkan user it, home dir /mnt/it.



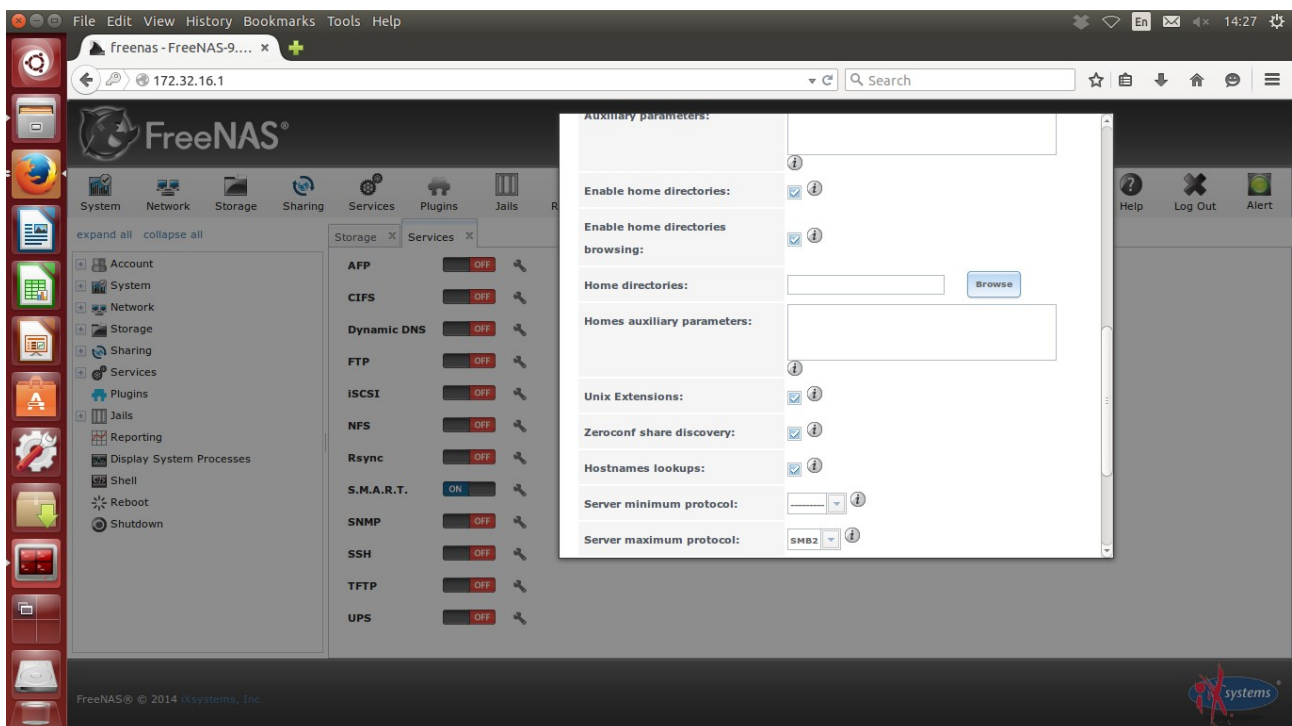
6. ubah hak akses volume it 700, hanya user it yg dapat akses ke /mnt/it.



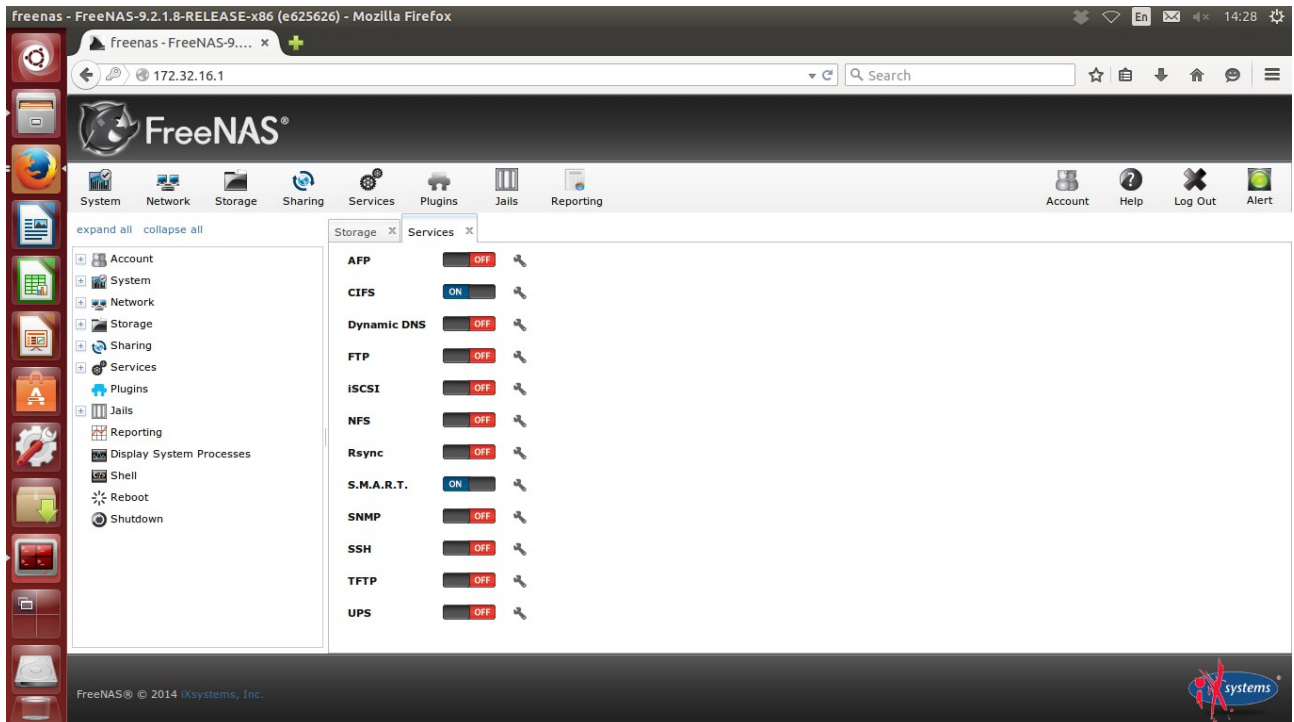
7. set services, config CIFS set netBios name, file&dir mask 0700.



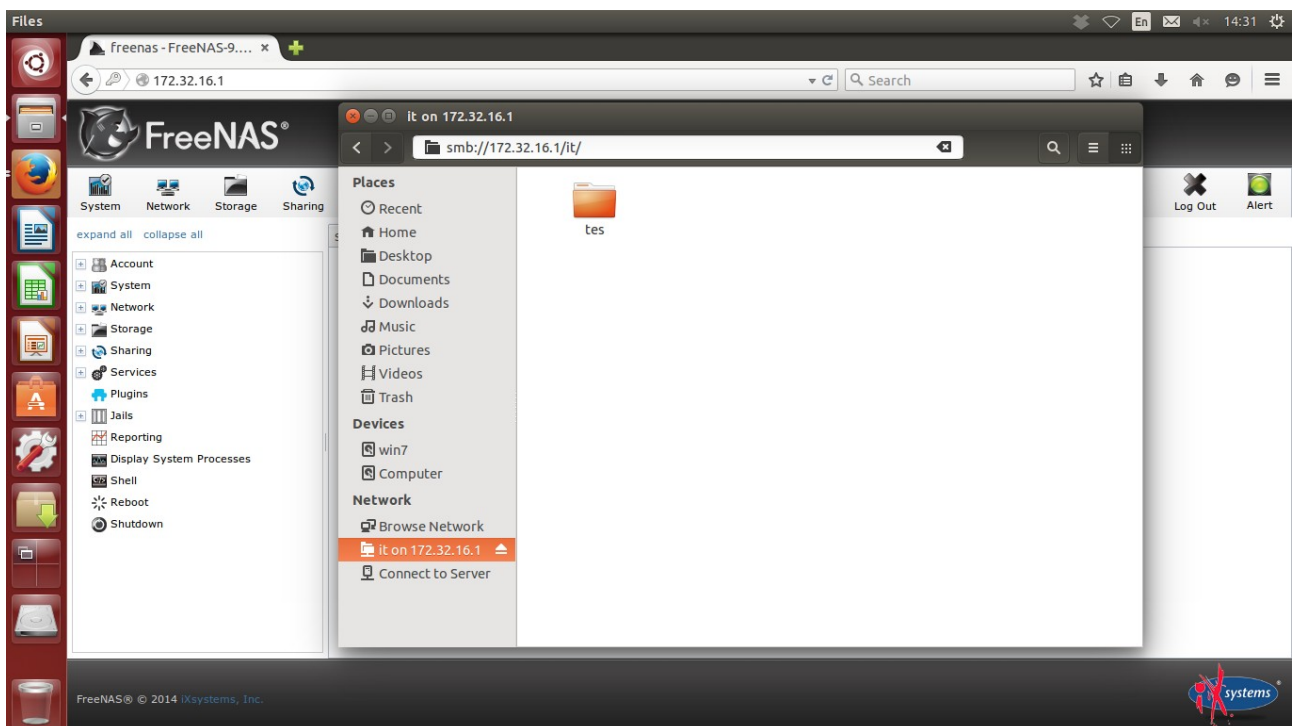
8. set services, enable home dir dan browsing.



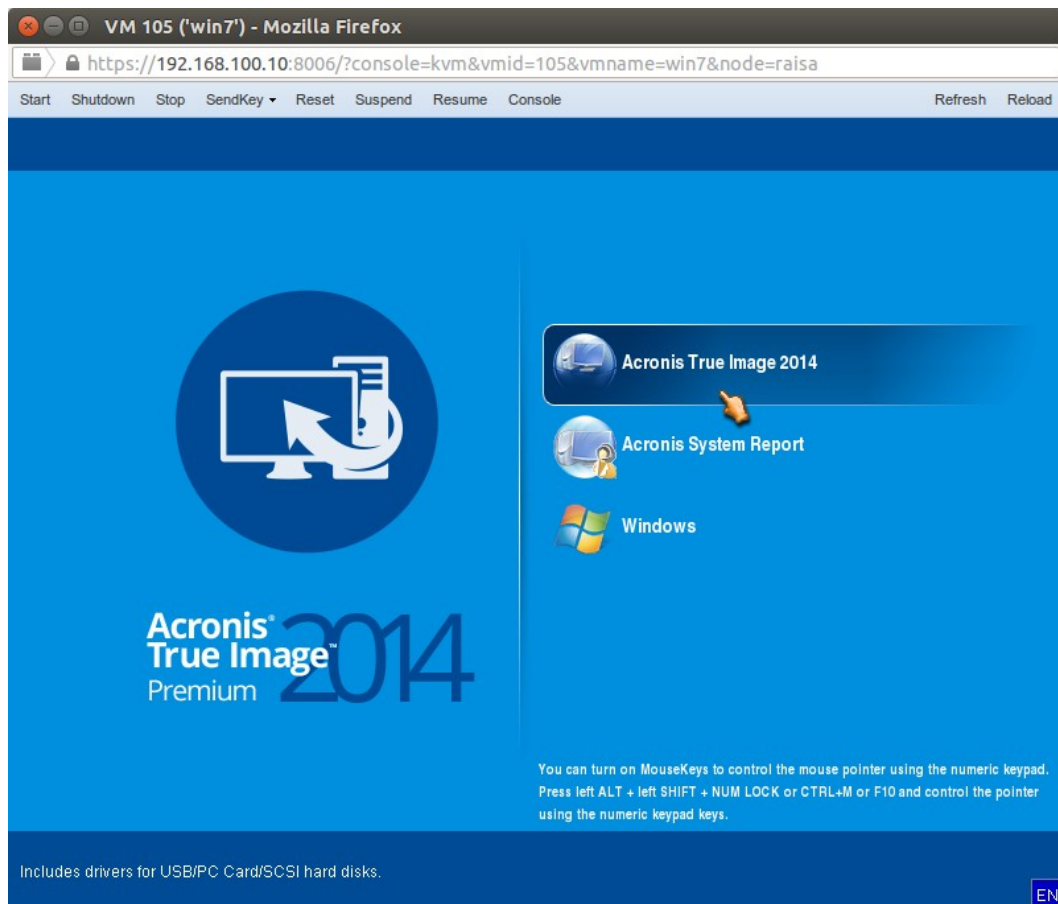
9. aktifkan servis CIFS.



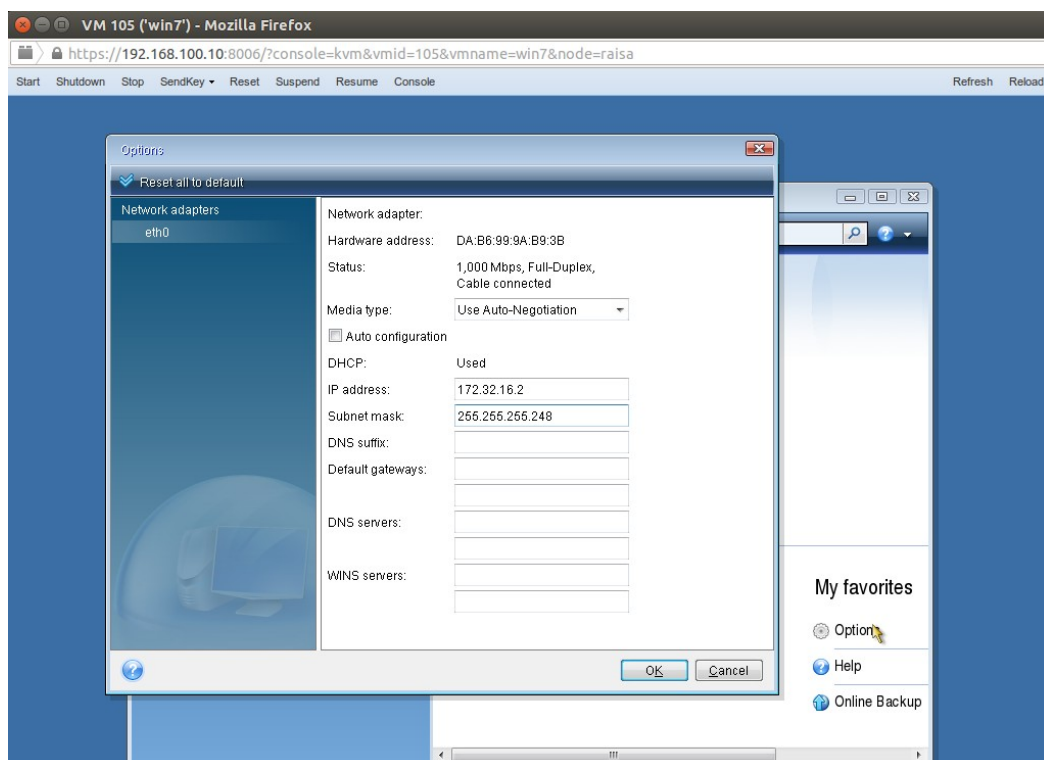
10. cek User2, akses data ke server freenas ok.



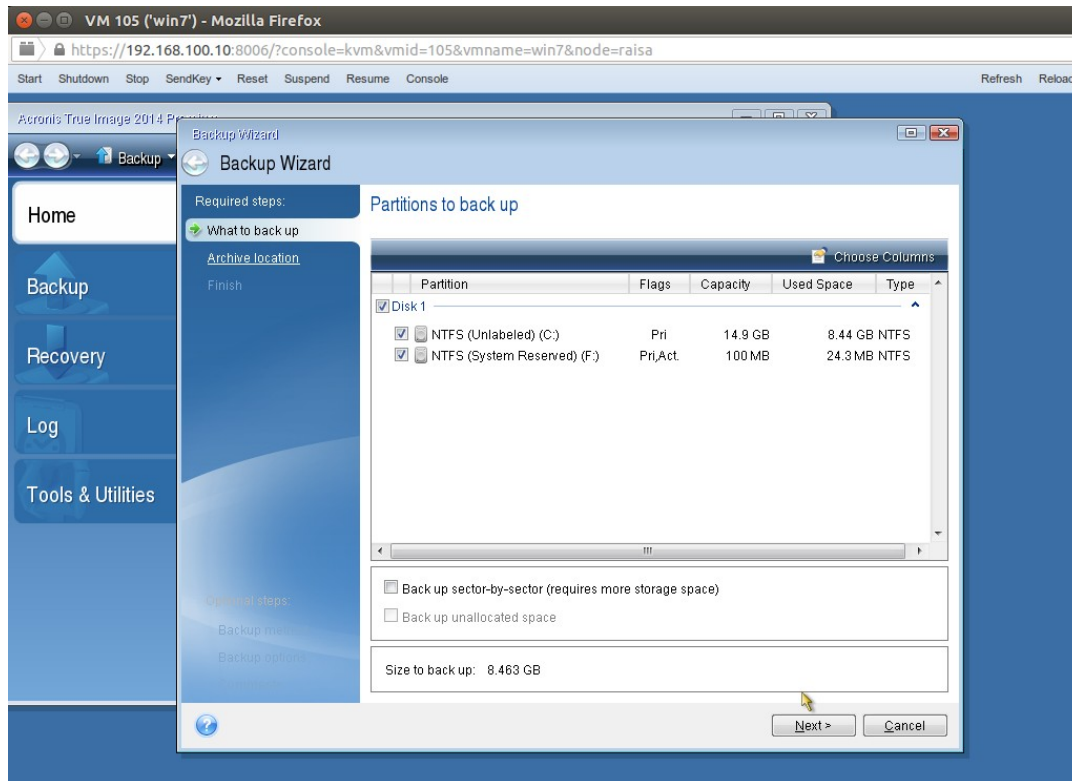
11. tes user1, backup sistem c, booting acronis.



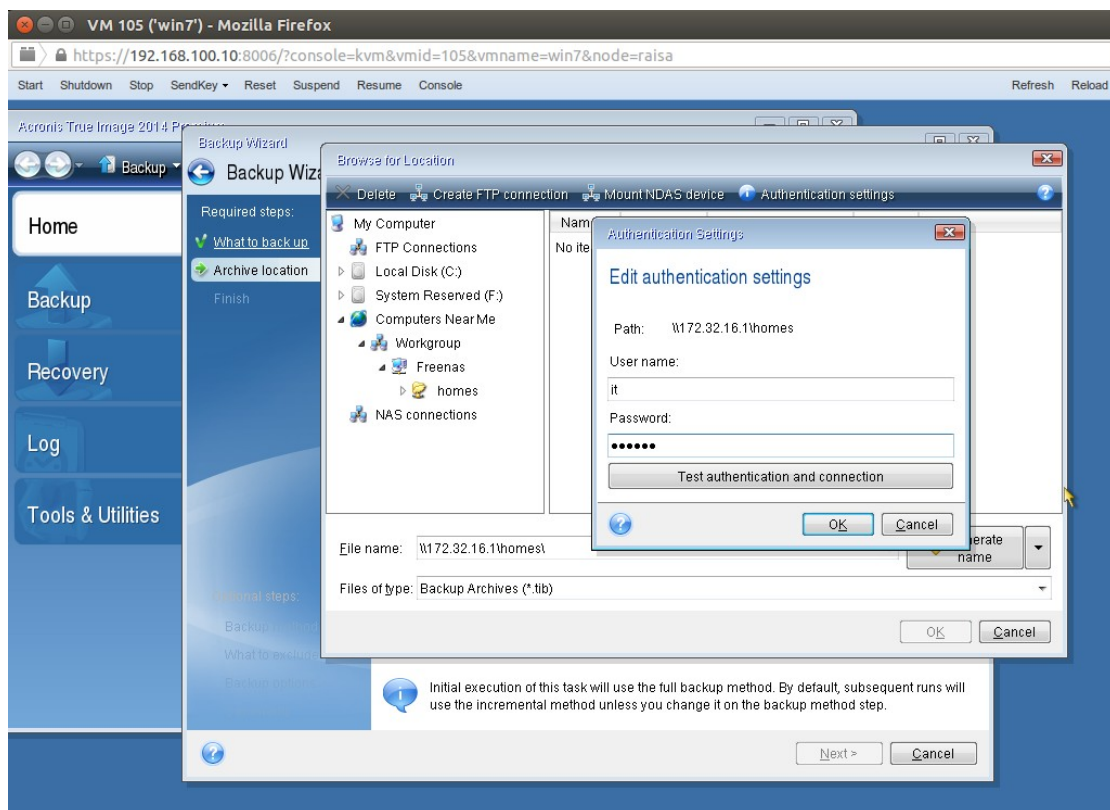
12. set option->ip address.



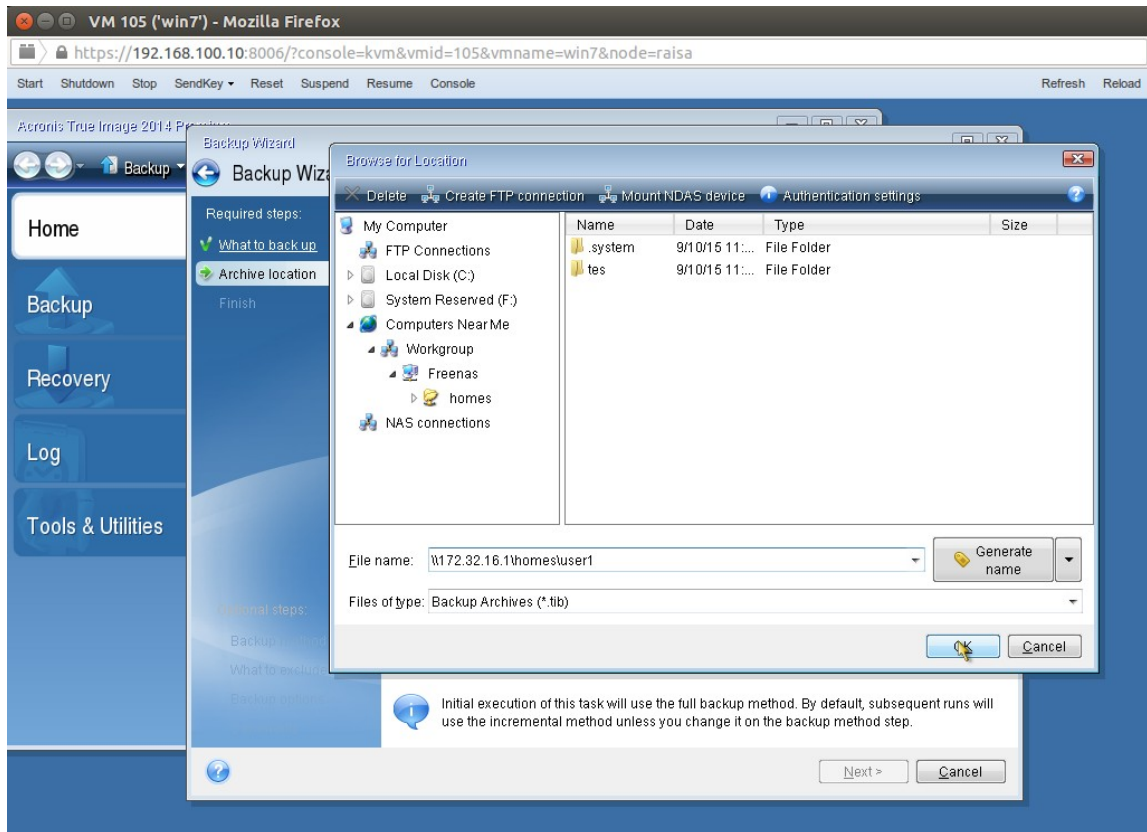
13. pilih backup partisi, cek list partisi yg akan di backup.



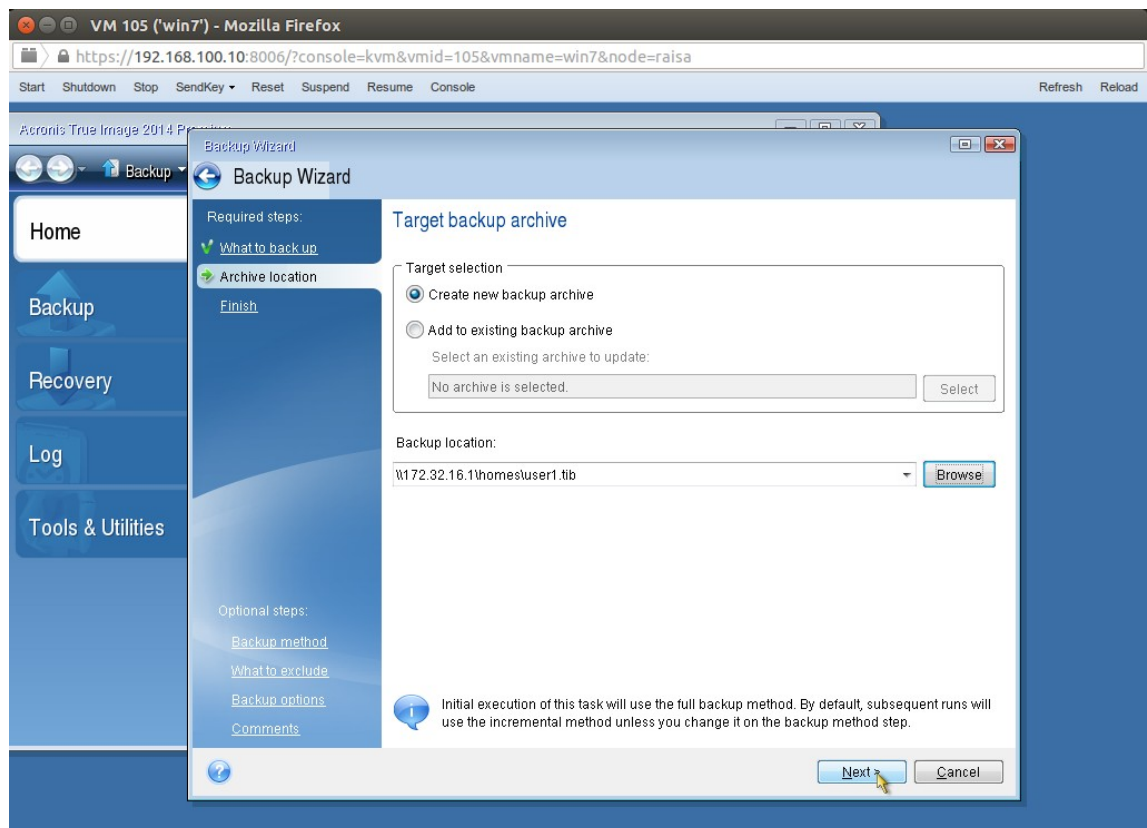
14. set path tujuan file backup ke server freenas "\\172.31.16.1\it" login dengan user & passwd yg telah di buat.



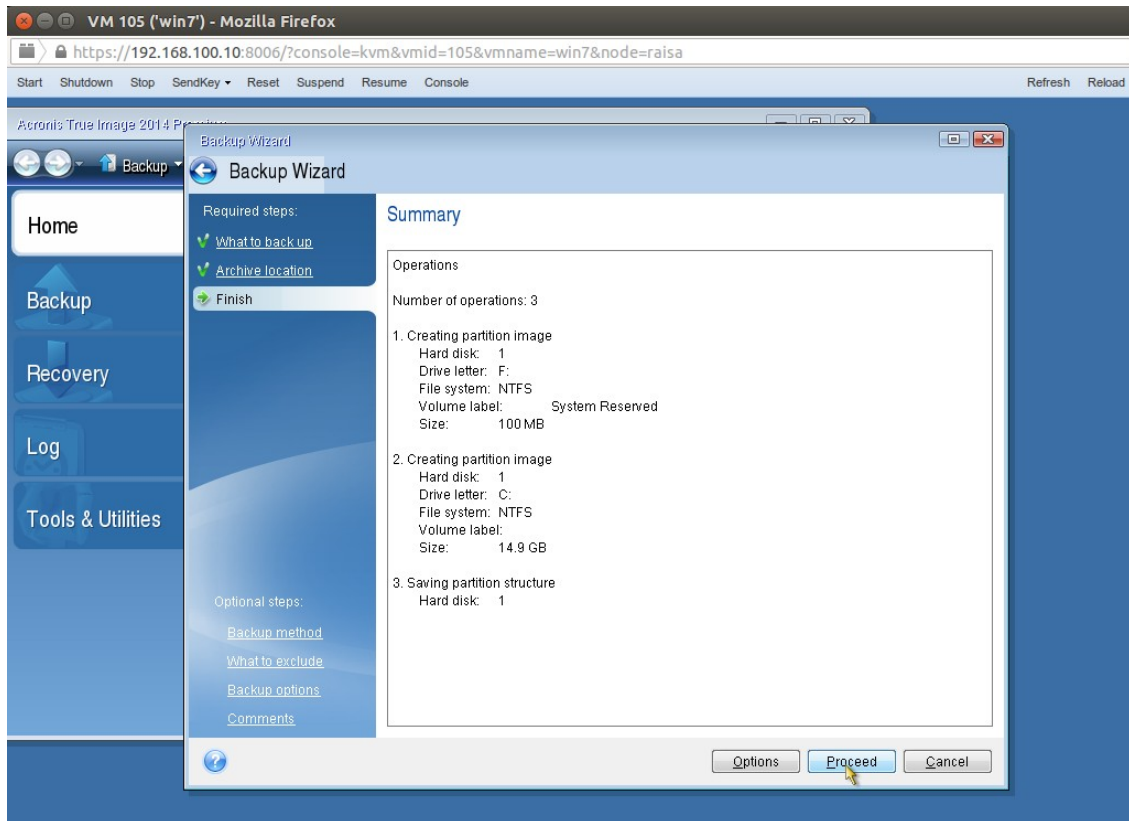
15. beri nama file backup user1 lalu ok.



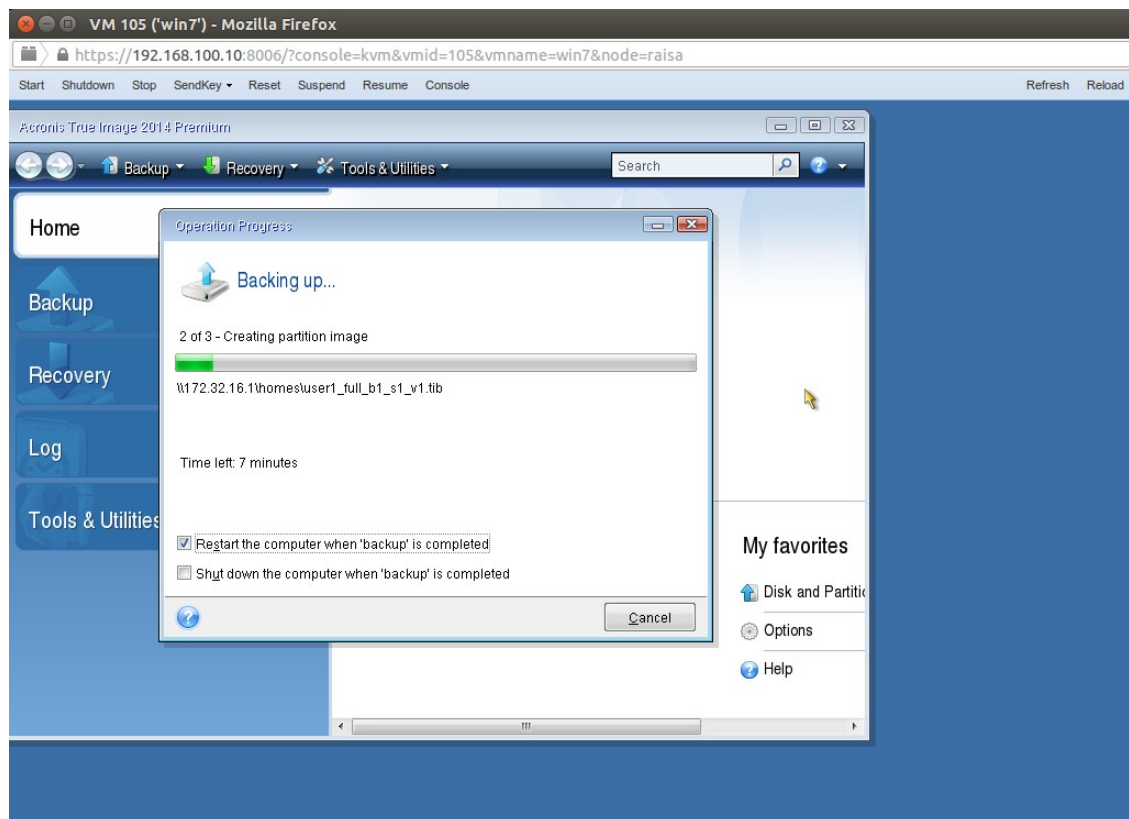
16. next.



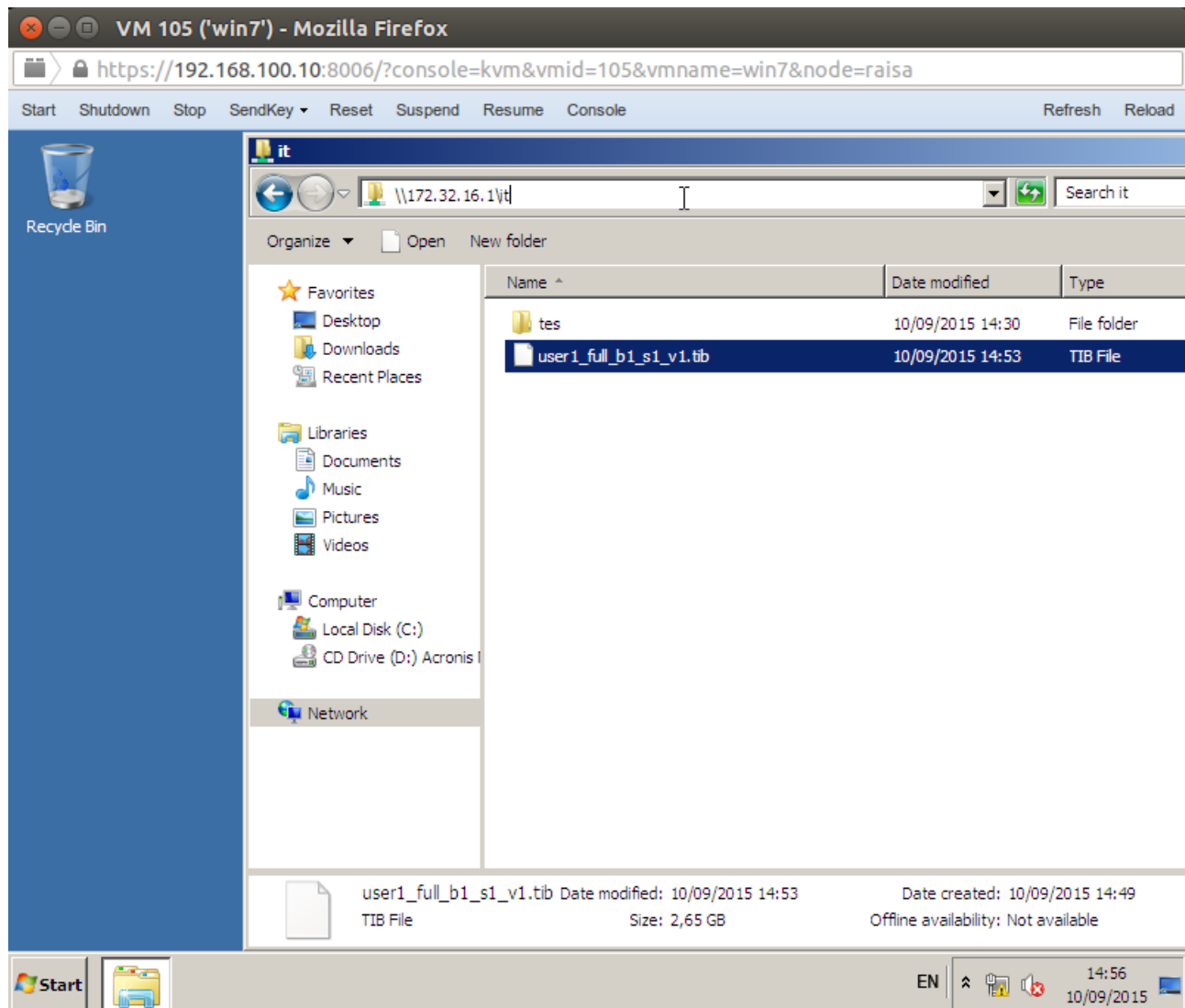
17. proses.



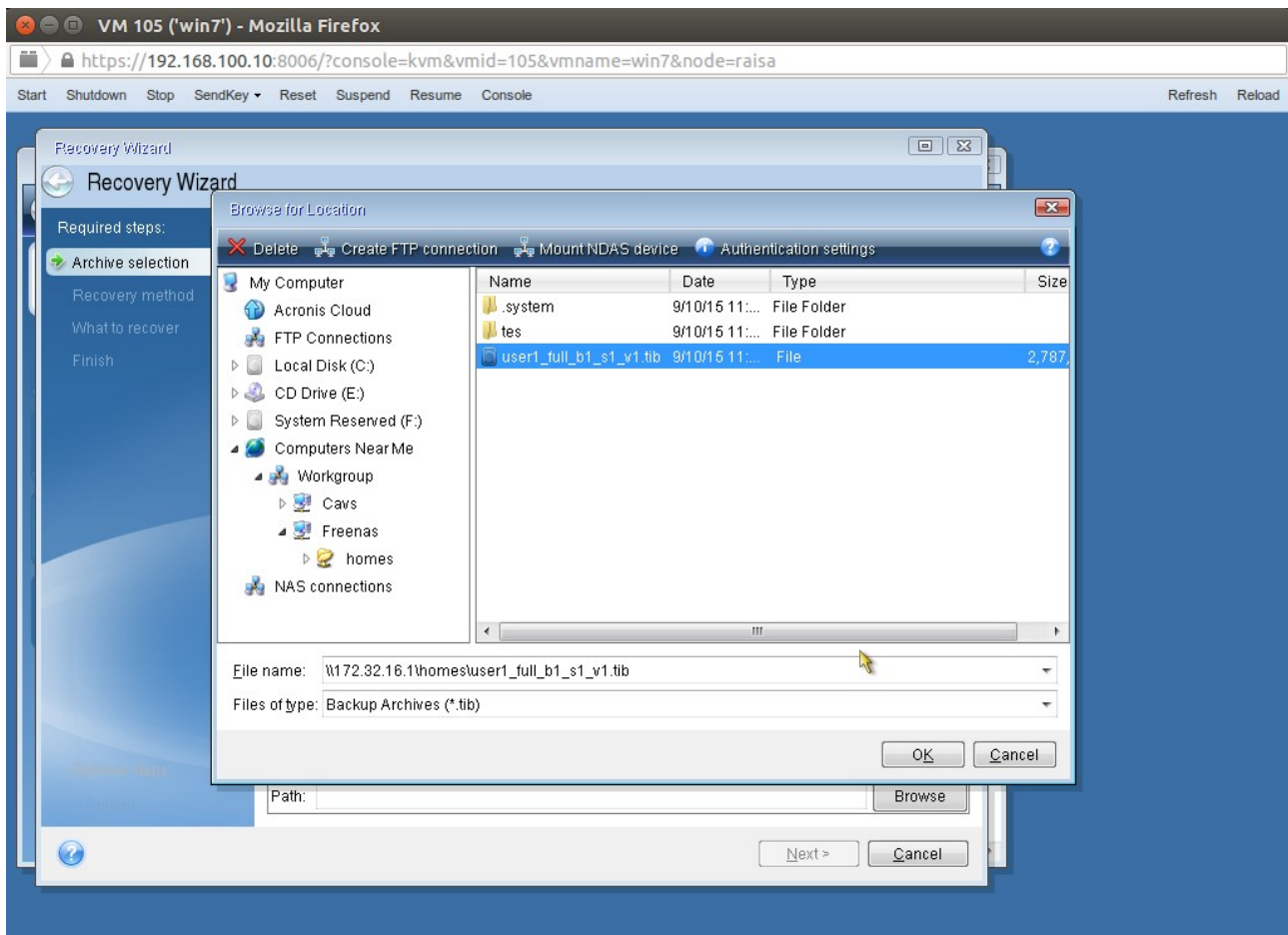
18. proses backup.



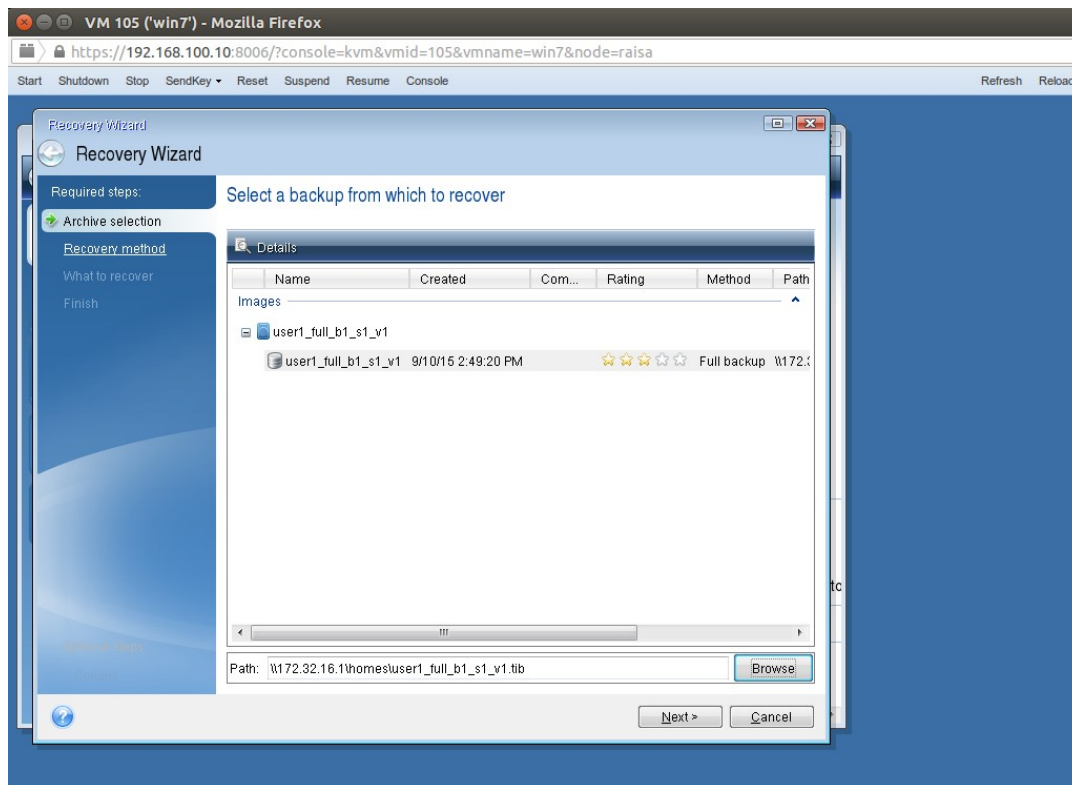
19. restart user1, cek hasil backup dengan akses ke server freenas.



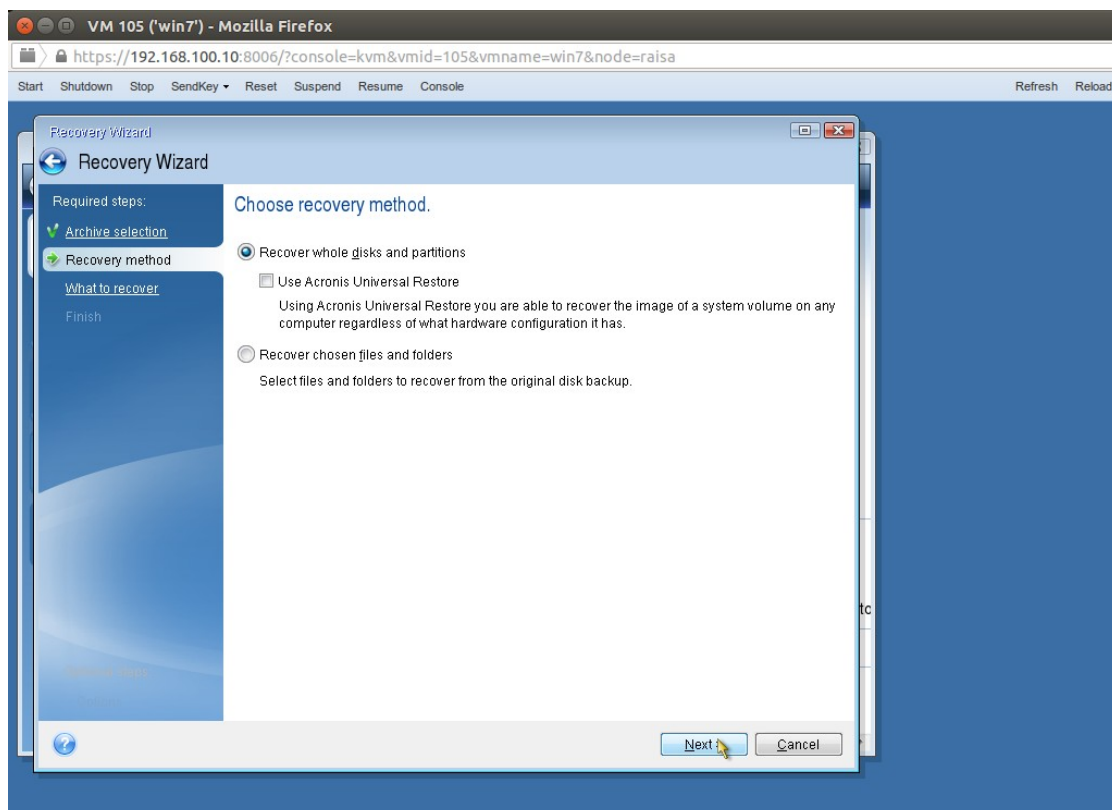
20. jika suatu waktu terjadi kerusakan sistem, kehilangan data pada partisis c, d, etc lakukan recovery sistem/partisis. Booting cd acronis set ip, pilih recovery, set path server freenas, login, pilih file image lalu ok.



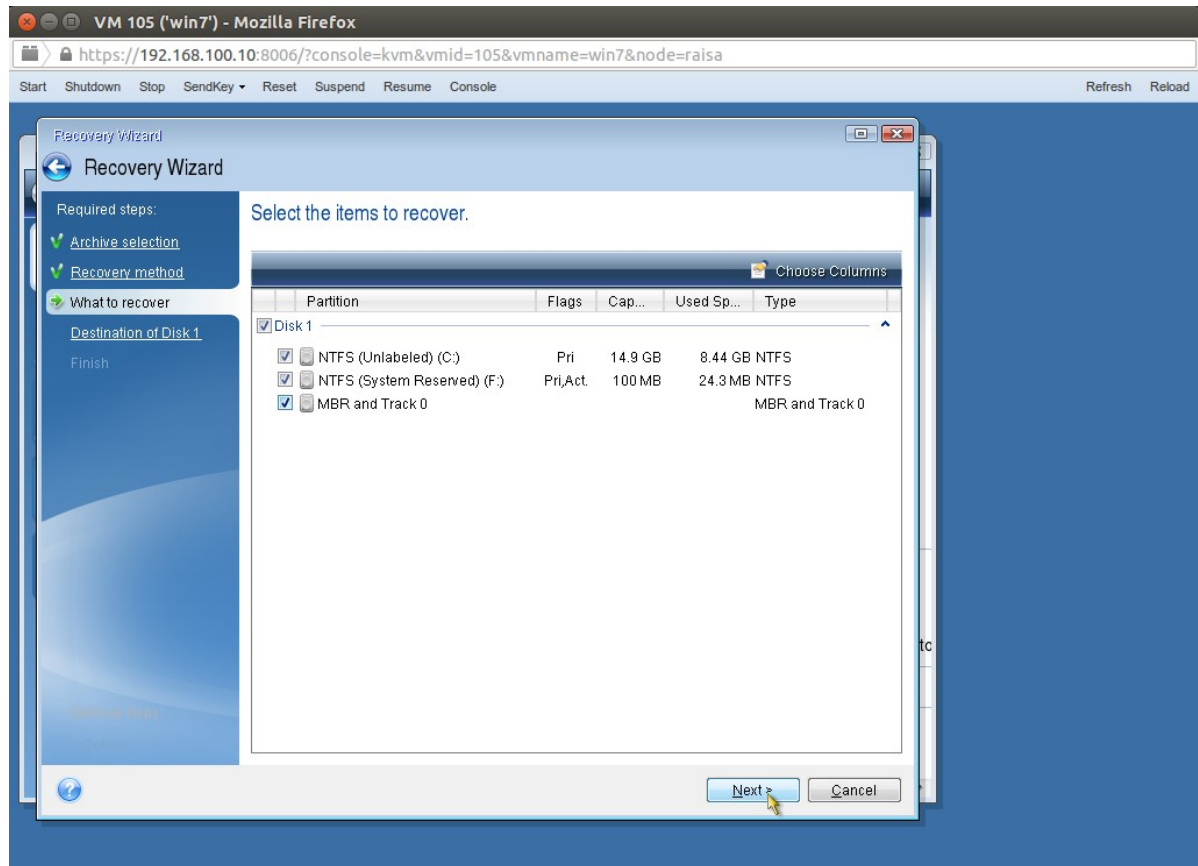
21. next.



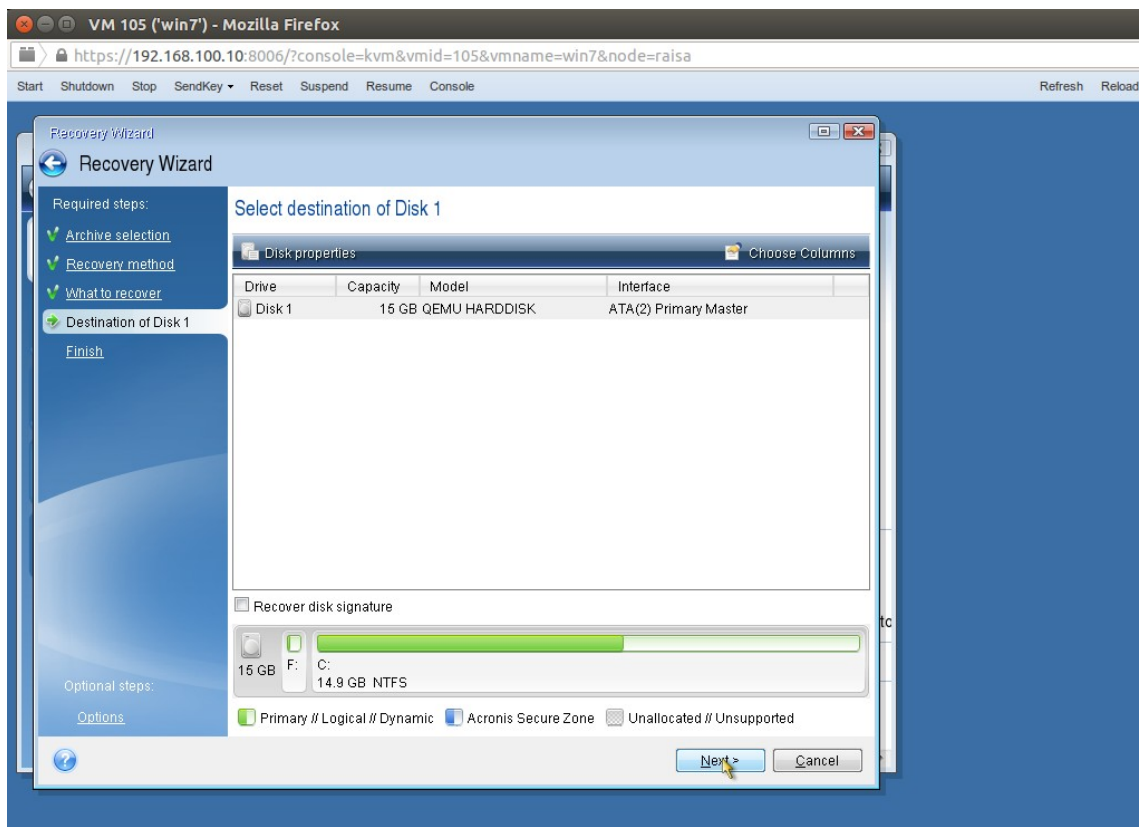
22. next.



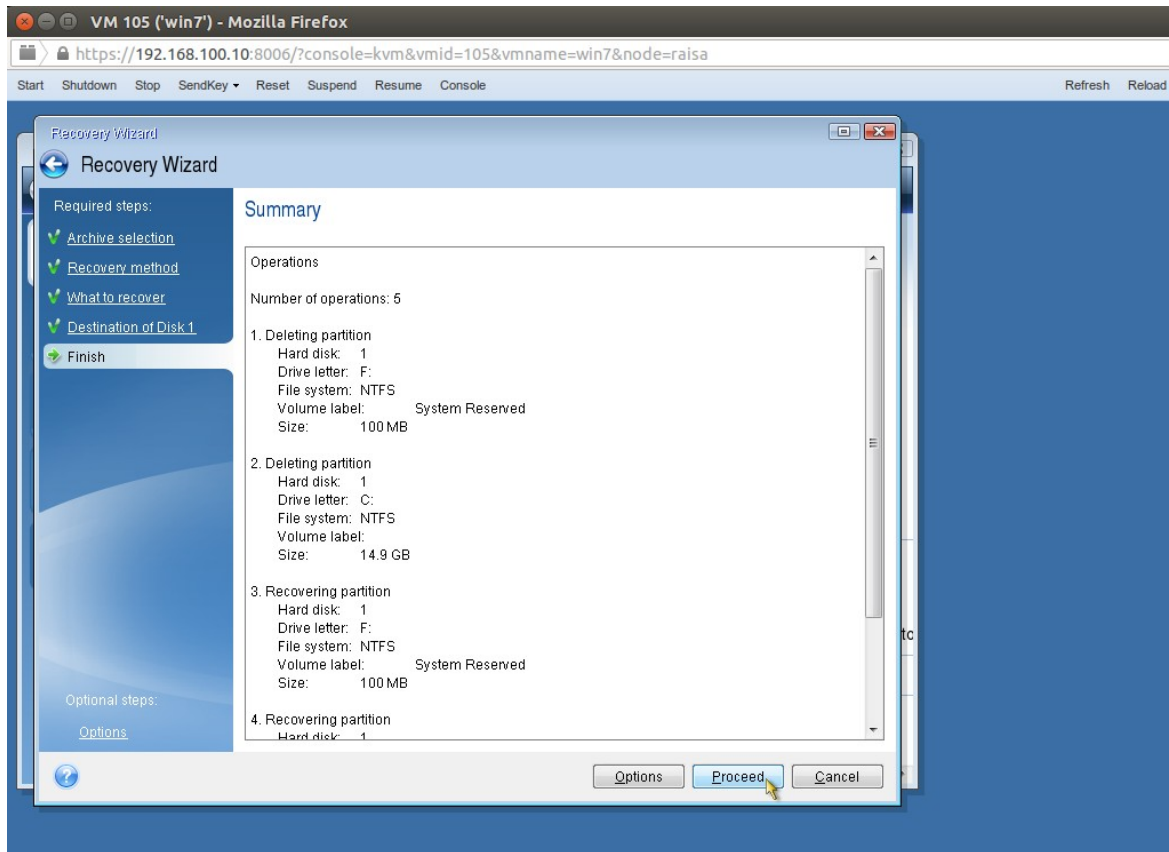
23. pilih partisi yg akan di recovery, lalu next.



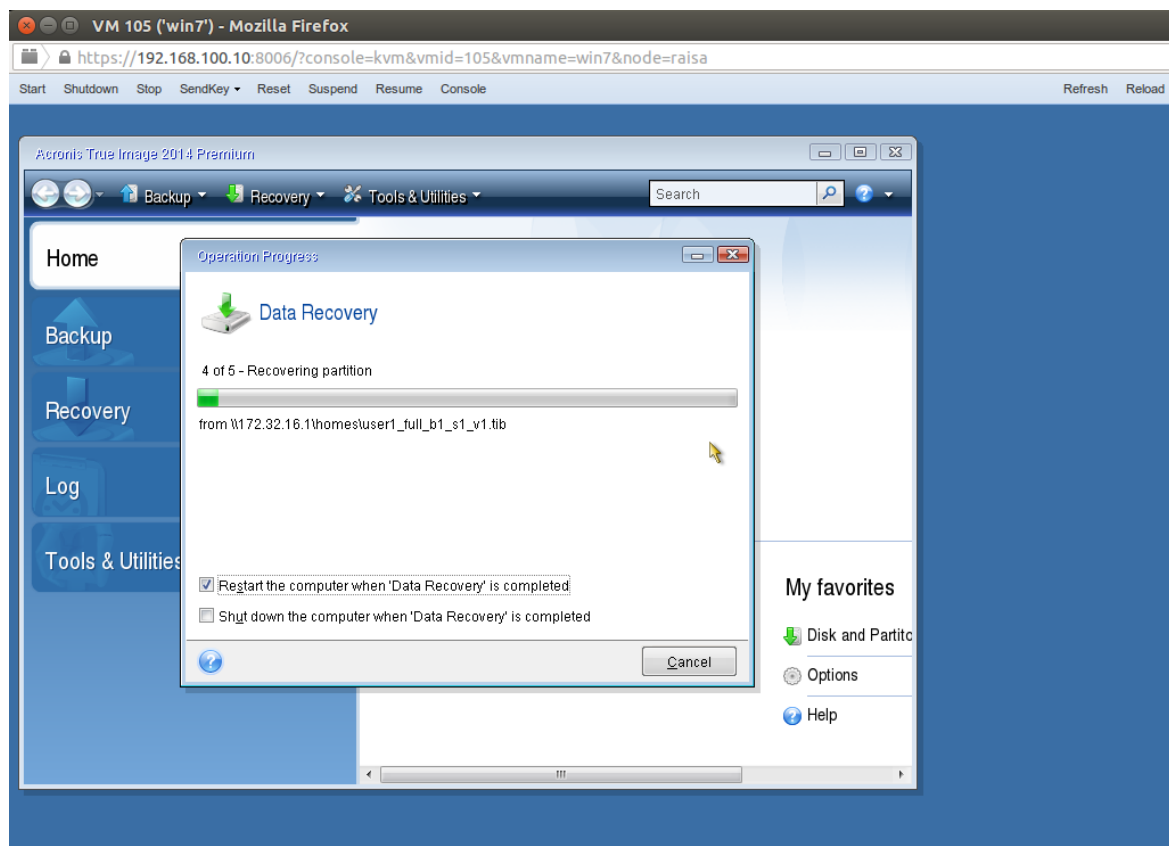
24. next.



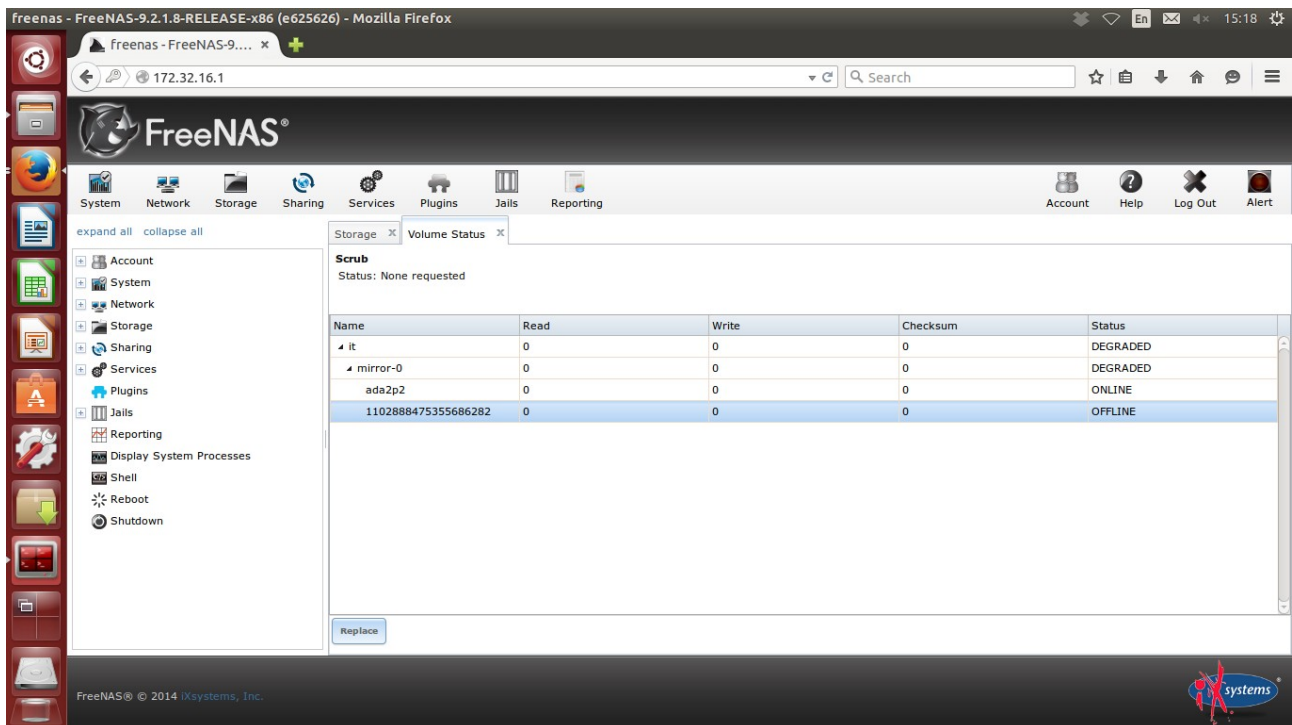
25. proses.



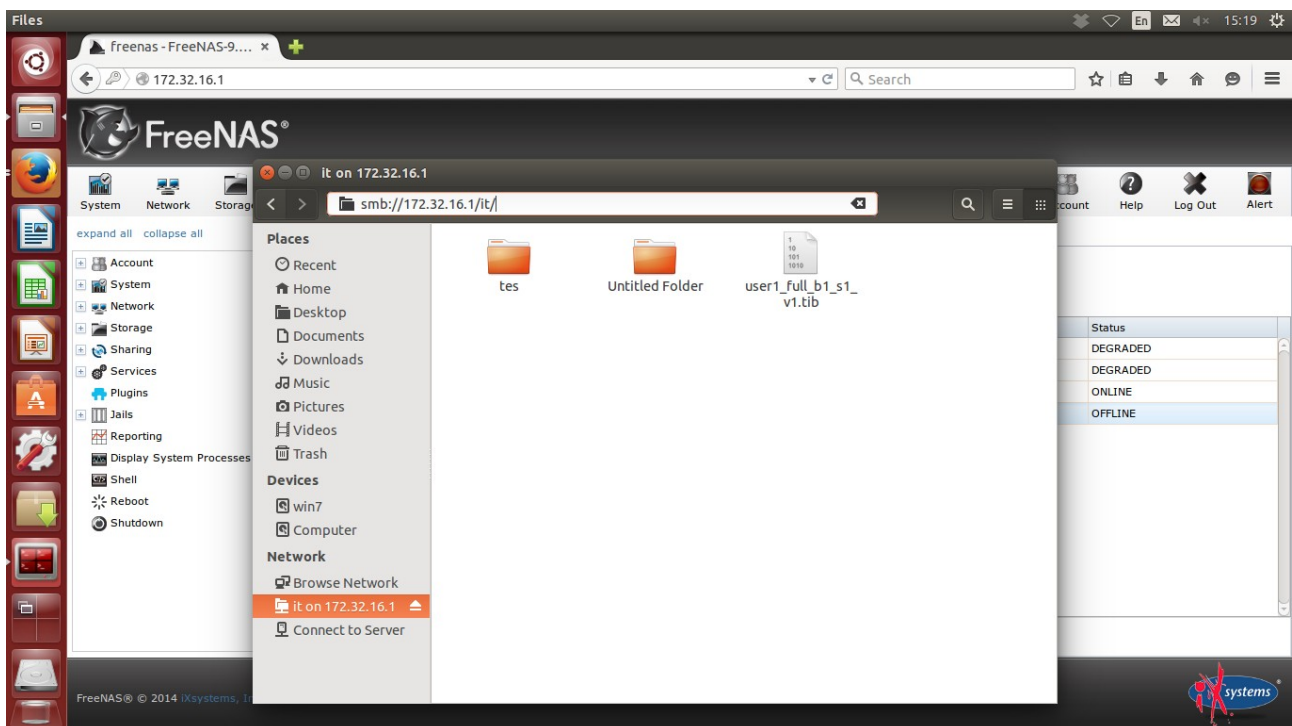
26. proses recovery.



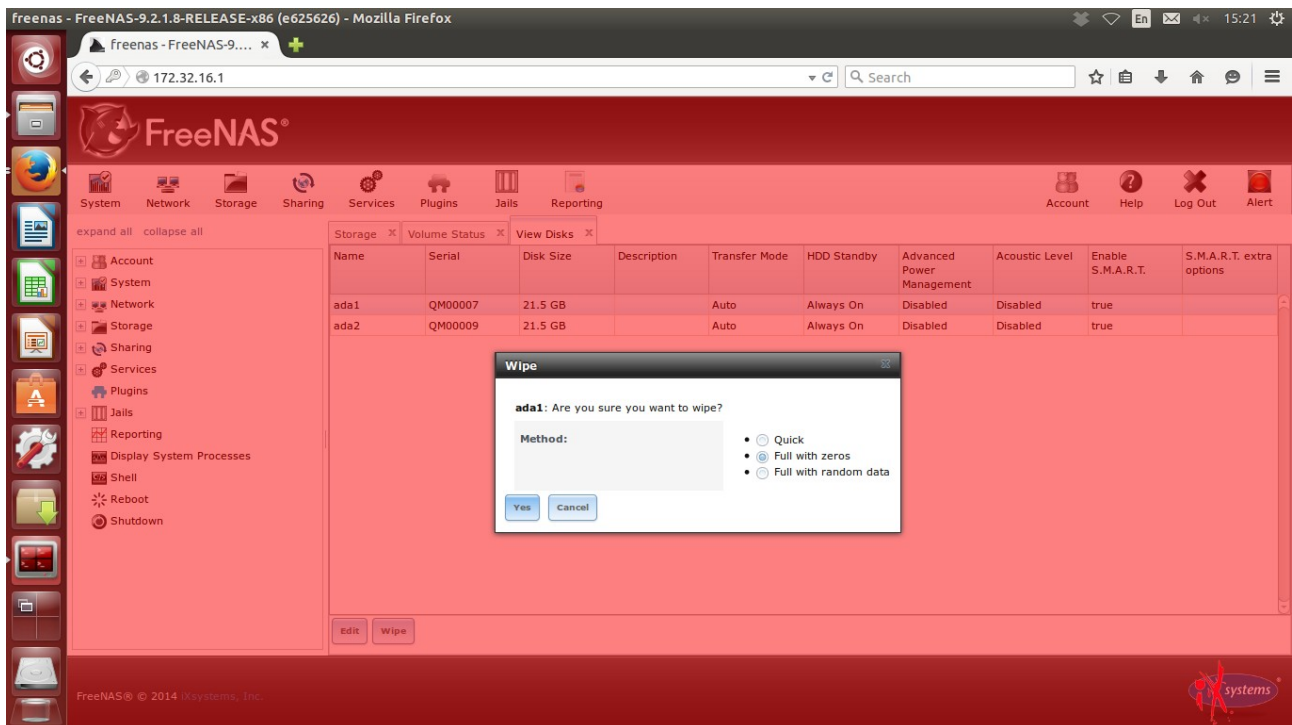
27. tes raid1 mirror, set offline hdd 1 (notifikasi alert akan berwarna merah untuk mengingatkan admin terdapat masalah pada storage it).



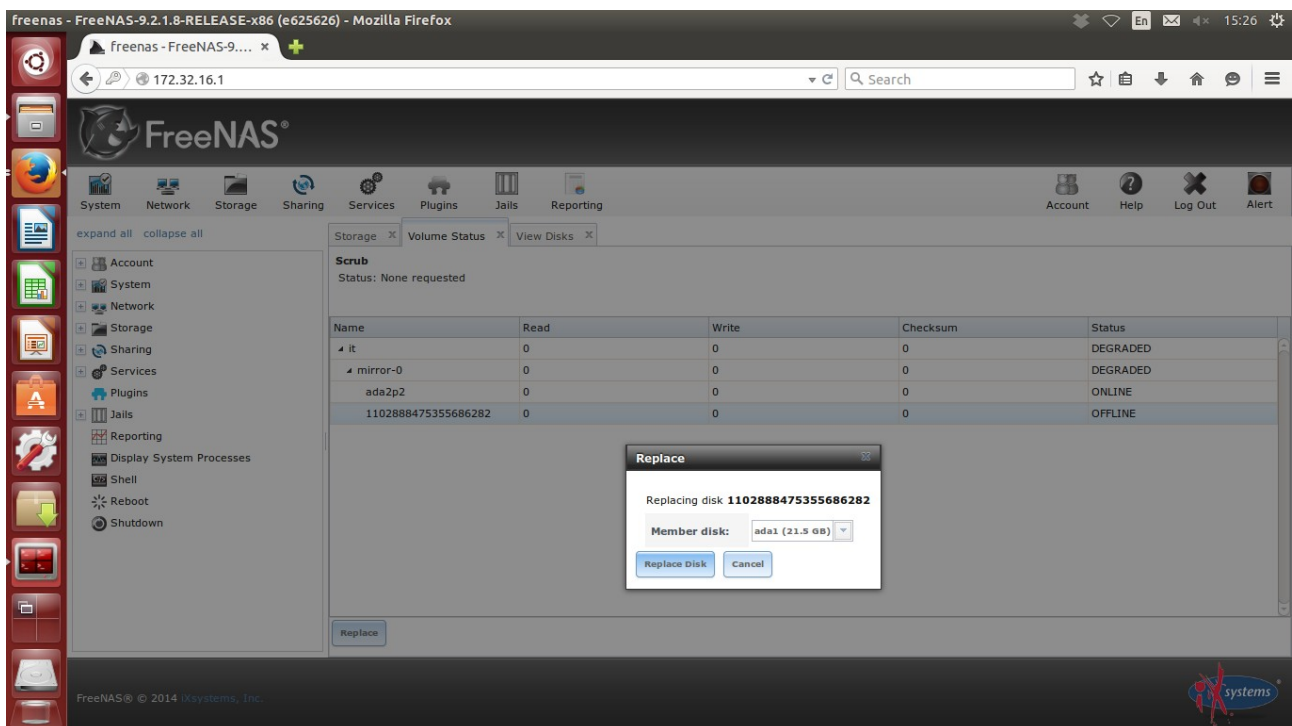
28. tes user2 tetap dapat akses ke server freenas dengan 1 hdd.



29. ganti atau format hdd yg rusak/corrupt, lalu pasang kembali hdd, set storage->viewDisk, set wipe hdd.



30. pada volume status, set replace hdd yg rusak/crash dengan hdd yg baru.



31. storage it kembali up dengan 2 hdd (lampu peringatan kembali hijau).

The screenshot shows the FreeNAS web interface in a Mozilla Firefox browser. The address bar shows the URL 172.32.16.1. The interface has a sidebar on the left with icons for various system functions. The top menu includes System, Network, Storage, Sharing, Services, Plugins, Jails, and Reporting. The main content area is titled 'Volume Status' and shows a table of storage volumes.

Name	Read	Write	Checksum	Status
it	0	0	0	ONLINE
mirror-0	0	0	0	ONLINE
ada2p2	0	0	0	ONLINE
ada1p2	0	0	0	ONLINE

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