Príkazy NetApp-u

1. **SMTP autosuport**  
   (<https://docs.netapp.com/ontap-9/index.jsp?topic=%2Fcom.netapp.doc.dot-cm-cmpr-940%2Fsystem__node__autosupport__modify.html>)

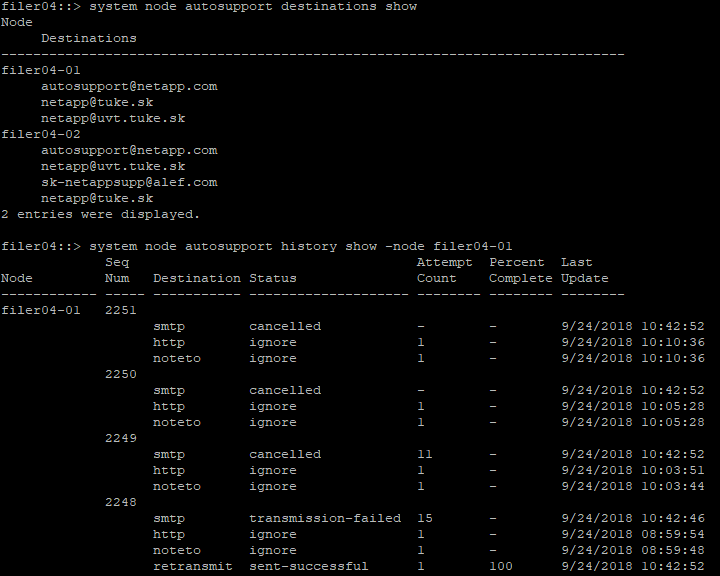
(<https://mysupport.netapp.com/NOW/knowledge/docs/olio/autosupport/how_to.shtml>)

1. Odoslanie testovacej správy:

system node autosupport invoke -node **filer04-01** -type test

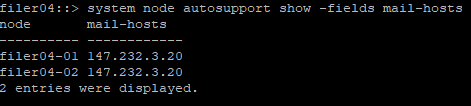
1. Výpis zaslaných správ:

system node autosupport history show -node **filer04-01**



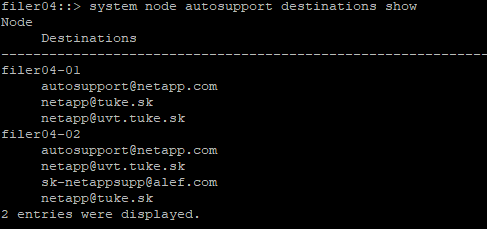
1. Výpis mail serverov na zasielanie správ:

system node autosupport show -fields mail-hosts



1. Výpis cieľov, kde majú byť zaslané správy:

system node autosupport destinations show



1. Zrušenie odoslania správy:

system node autosupport history cancel -node **filer04-01** -seq-num **2248** -destination **smtp**

1. Preposlanie správy na iný email:

system node autosupport history retransmit -node **Filer02-01** -seq-num **240** -uri **mailto:netapp@tuke.sk**

1. **Nastavenie času**
2. Zobrazenie času

cluster date show

1. Nastavenie časovej zóny

cluster date modify -timezone Europe/Bratislava

1. Nastavenie časovej zóny a dátumu PLUS čas

cluster date modify -timezone Europe/Bratislava -date "1/12/2016 12:17:25"

1. Nastavenie NTP servera

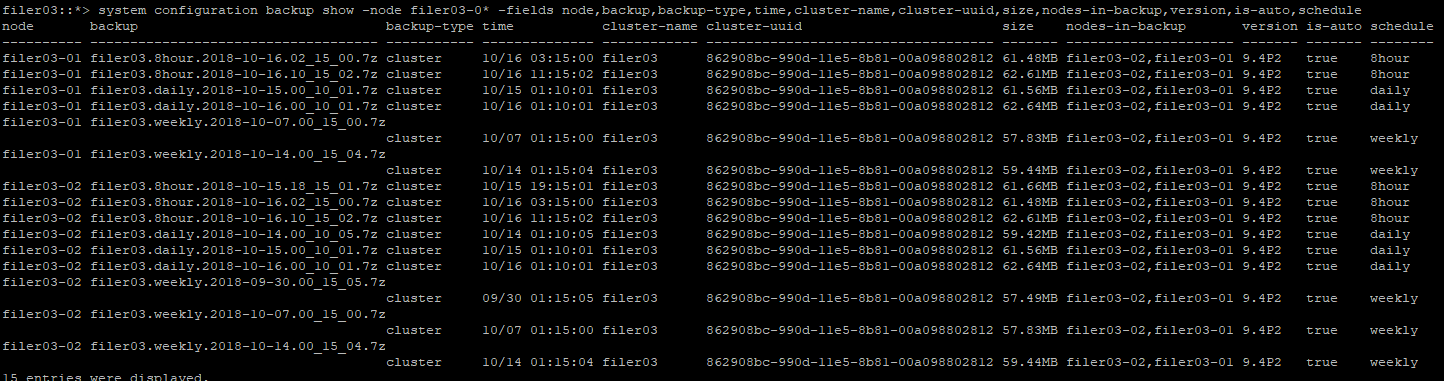
cluster time-service ntp server show

cluster time-service ntp server create -server 147.232.254.1

1. **Príkaz na download súborov cez SCP**

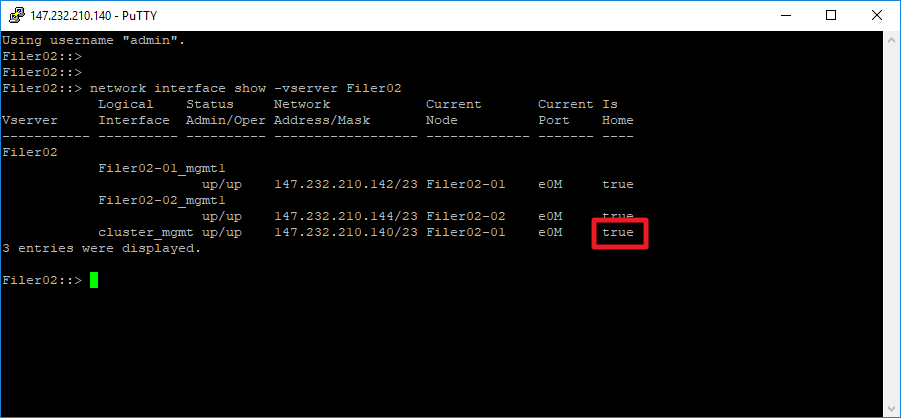
scp -P 2022 rc641og@people.tuke.sk:public\_html/qual\_devices.zip /mroot/etc

1. **Výpis nastavenia záloh**
2. set -privilege advanced
3. system configuration backup show -node Fler03-0\* -fields node,backup,backup-type, time , cluster-name , cluster-uuid , size , nodes-in-backup , version , is-auto , schedule



1. set -privilege advanced
2. **Vrátenie LIF portu do HOME** ([URL](https://library.netapp.com/ecmdocs/ECMP1196891/html/GUID-BFC37A34-BFC6-42DD-A5B1-701DBDECF7F3.html)).
3. Zistenie stavu portu – ak je chyba tak tam píše False

network interface show -vserver Filer02



1. Príkaz na vrátenie portu do HOME

network interface revert -vserver Filer02 -lif cluster\_mgmt

1. **Disk Qualification Package Instructions – doinštalovanie SW verzia 3 a doplní aj verziu 2**

(<https://mysupport.netapp.com/NOW/download/tools/diskqual/>)

Postup:

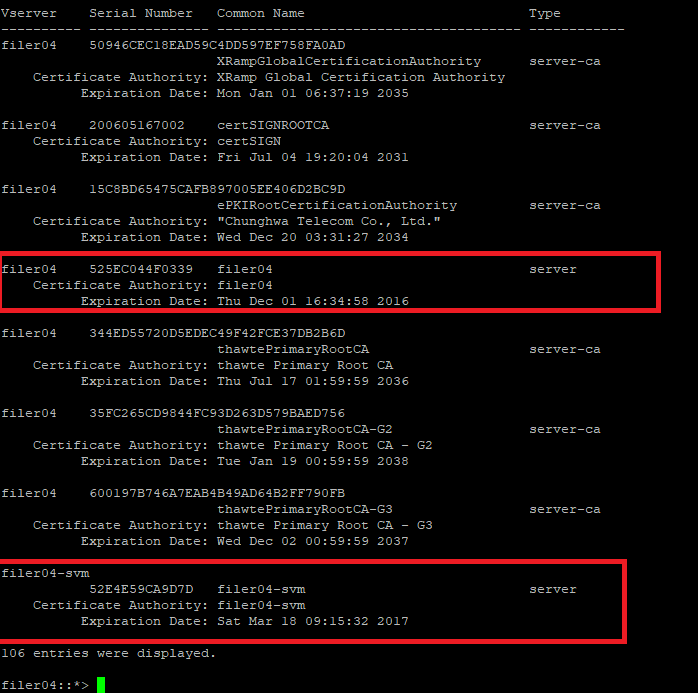
1. set -privilege advanced
2. storage firmware download -node \* -package-url <http://people.tuke.sk/robert.cecetka/qual_devices.zip>
3. skontrolovať príkazom:
   1. node run -node filer04-01 -command rdfile /etc/qual\_devices\_v3
   2. node run -node filer04-02 -command rdfile /etc/qual\_devices\_v3
4. set -privilege admin
5. **Upgrade firmware HDD**
   1. Výpis modelov HDD a verzie firmware

storage disk show -fields disk,model,firmware-revision

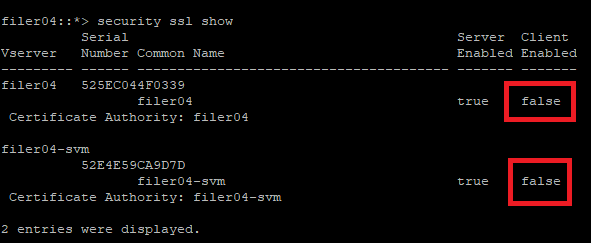
* 1. Zistenie či je novší na WEB NetApp-u, je tam aj popis ako to urobiť

(<https://mysupport.netapp.com/NOW/download/tools/diskfw/>)

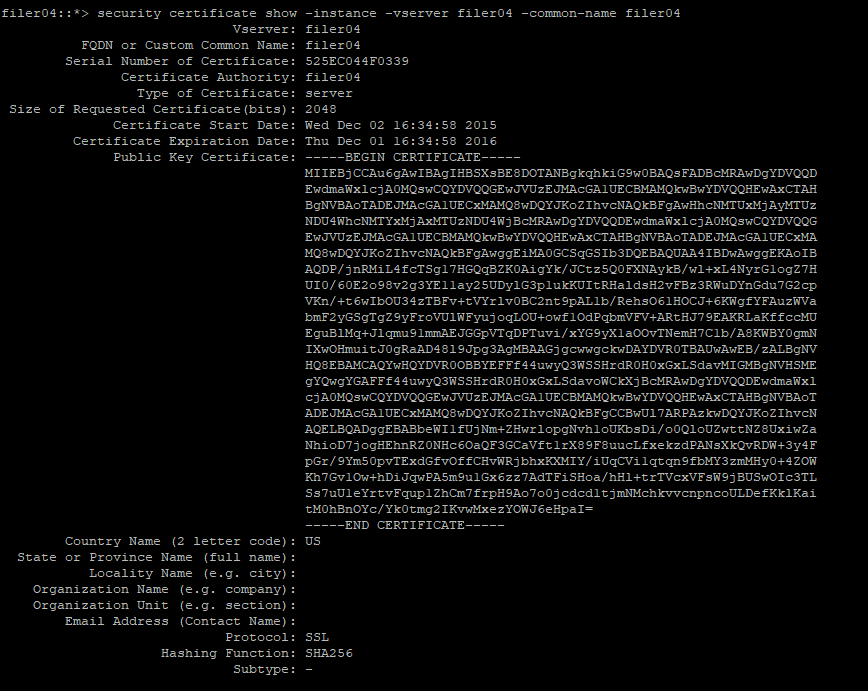
1. **Zmena certifikátu**, popis na <https://kb.netapp.com/app/answers/answer_view/a_id/1032196>
2. set -privilege advanced
3. security certificate show – vypíše všetky certifikáty



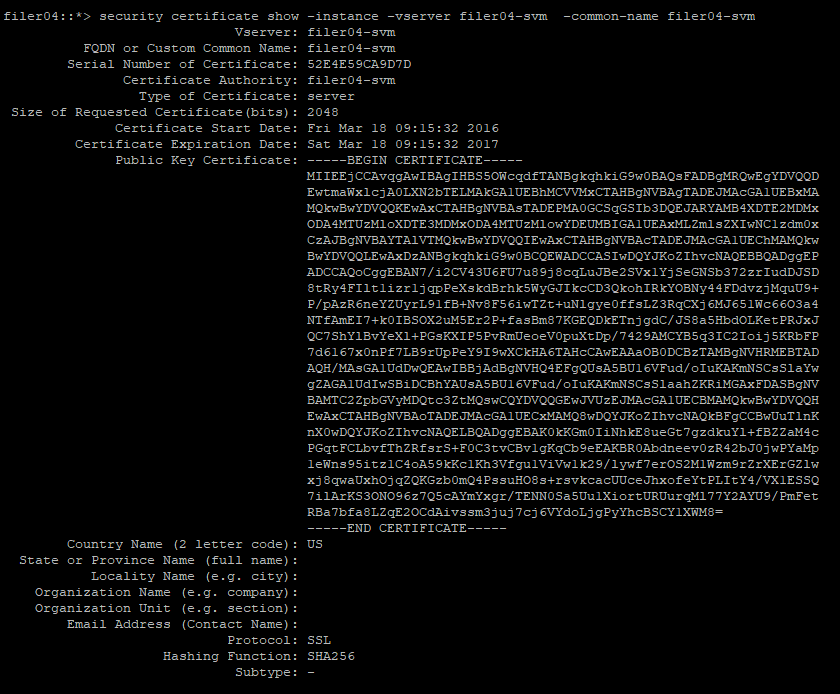
1. security ssl show - výpis už neplatných certifikátov



1. security certificate show -instance -vserver filer04 -common-name filer04 – vypýše celý certifikát



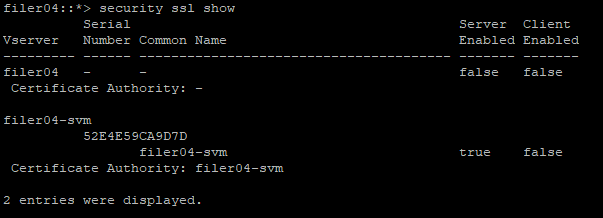
1. security certificate show -instance -vserver filer04\_svm -common-name filer04\_svm



1. vymazanie certifikátu pre filer04

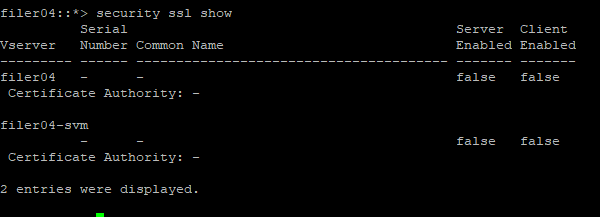
security certificate delete -common-name filer04 -ca filer04 -type server -vserver filer04 -serial 525EC044F0339

Kontrolný výpis



1. vymazanie certifikátu pre filer04\_svm

security certificate delete -common-name filer04\_svm -ca filer04\_svm -type server -vserver filer04\_svm -serial 52E4E59CA9D7D



1. vytvorenie certifikátu

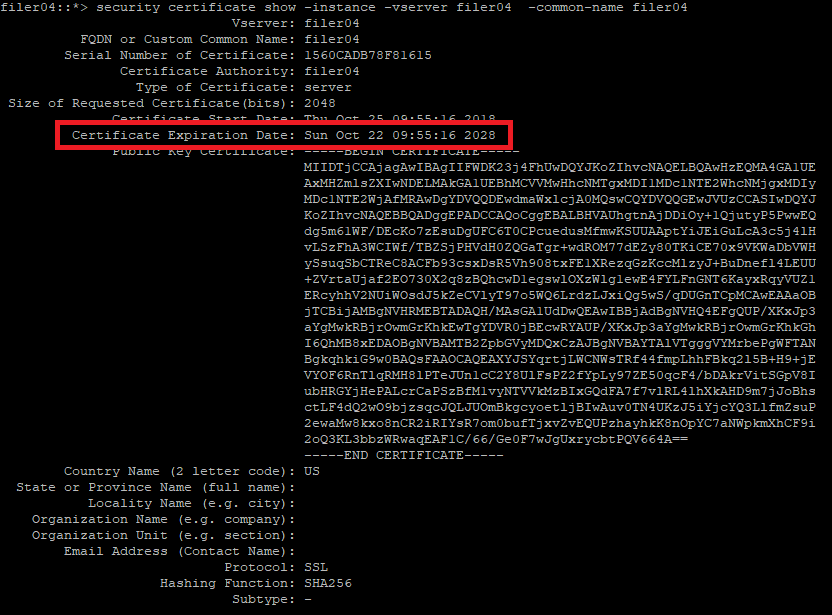
security certificate create -vserver filer04 -common-name filer04 -size 2048 -type server -country US -expire-days 3650 -hash-function SHA256

security certificate create -vserver filer04\_svm -common-name filer04\_svm -size 2048 -type server -country US -expire-days 3650 -hash-function SHA256

1. kontrola vytvoreného certifikátu

security certificate show -instance -vserver filer04 -common-name filer04

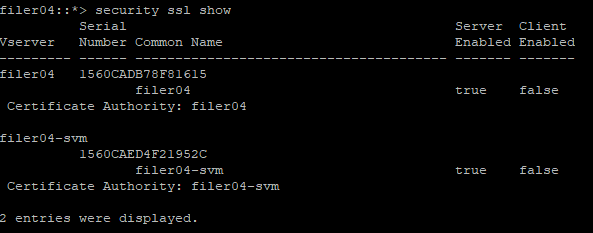
security certificate show -instance -vserver filer04\_svm -common-name filer04\_svm



1. povolenie certifikátu:

ssl modify -vserver filer04 -server-enabled true

ssl modify -vserver filer04\_svm -server-enabled true



ssl modify -vserver filer03 -ca filer03.cert -serial 158738A7A4D18C9C -server-enabled true

ssl modify -vserver filer03-svm -ca filer03-svm.cert -serial 158738ACEC215B23 -server-enabled true

1. xxss
2. **Vymazanie všetkých spare diskov** - prepíše ich nulami

storage disk zerospares -owner node1b

Vypísanie stavu mazania

storage disk show -fields zeroing-percent

vypísanie nevymazaných spare diskov

storage disk show -fields zeroed

Na FAS8040 vymazanie spare diskov, ktoré nie sú zero:

disk zero spares

Na FAS8040 vypísanie stavu vymazania spare:

aggr status -s

1. **Zistenie stavu pri tvorbe agregátu t.j. mazanie diskov.**

storage aggregate show-status

1. **Premenovanie agregátu** ([URL](https://docs.netapp.com/ontap-9/index.jsp?topic=%2Fcom.netapp.doc.dot-cm-cmpr-940%2Fstorage__aggregate__show-status.html))

storage aggregate rename -aggregate aggr5 -newname sales-aggr

1. **Ping**

network ping -node filer06-01 -destination 147.232.75.1 -show-detail

1. **Nastavenie LIF-u aby sa vracal späť do svojho HOME portu**

network interface modify -vserver filer06\_svm -lif filer06\_svm\_nfs\_lif1 -auto-revert true

network interface modify -vserver filer06\_svm -lif filer06\_svm\_nfs\_lif2 -auto-revert true

1. **Vypísanie DNS záznamov:**

vserver services dns show

1. **Výpis teplôt a stavu zariadenia:**

Pre Filer1A a 1B

environment status chassis

Pre ostatné DP

system node run -node filer04-01 -command environment status

1. **Výpis senzorov**

Pre Filer1A a 1B

environment chassis list-sensors

Pre ostatné DP

system node run -node filer04-01 -command environment chassis list-sensors

1. **Príkaz na prístup ku shell úrovne NetApp-u**

system node run -node filer04-01

potom sa dá dať príkaz napr.: rdfile /etc/mib/netapp.mib

Zoznam dostupných príkazov:

|  |  |  |  |
| --- | --- | --- | --- |
| ? | environment | ndmpcopy | sis |
| acpadmin | fcadmin | netstat | snap |
| aggr | fcstat | options | snapmirror |
| backup | file | partner | stats |
| cdpd | help | priority | storage |
| cf | hostname | priv | sysconfig |
| clib | ic | psmadmin | sysstat |
| cna\_flash | ifconfig | rdfile | timezone |
| coredump | ifgrp | reallocate | uptime |
| date | ifstat | restore\_backup | version |
| dcb | key\_manager | revert\_to | vfiler |
| df | lldp | rshstat | vmservices |
| disk | logger | sasadmin | vol |
| disk\_fw\_update | man | sasstat | wafltop |
| diskcopy | maxfiles | savecore | wrfile |
| ems | mt | shelfchk |  |

Zo shell režimu oddídeme príkazom exit.

1. **Vypísanie histórie Autosupportu**

autosupport history show

autosupport history show -node Filer02-01

1. **Reštart jedného nódu:**

system node reboot -node Filer02-01 -reason "only node reboot "

potom sa dá zadať príkaz cez SP (service port) na úplné vypnutie

system power off

1. **Presun dát z disku 1.0.12 na disk 1.0.2 (1.0.2 bol spare)**

storage disk replace -disk 1.0.12 -replacement 1.0.2 -action start

disk show -fields replacing

disk show -fields replacing,copy-percent, copy-destination

job show -id 15895

1. **Výpis spare diskov**

storage aggregate show-spare-disks

1. **Uvedenie disku do FAIL stavu**

storage disk fail -disk 1.0.12

* Nanútenie výpadku na silu.

storage disk fail -disk 1.0.12 -immediate true

1. **Zrušenie FAIL stavu disku**

storage disk unfail -disk 1.0.2 -spare

1. **Výpis chybných diskov**

storage disk show -broken

1. **Výpis verzií firmware a výrobcu**

storage disk show -fields firmware-revision,vendor,model

1. **Výmena disku pri Filer1A alebo Filer1B**

(<https://kb.netapp.com/app/answers/answer_view/a_id/1035597>)

* najprv si nastaviť vyššie práva priv set advanced
* fyzicky vymeniť disk – dať tomu aspoň 1 minútu
* disk si vieme rozblikať blink\_on 0c.27.11

blink off 0c.27.11

* pridať disk pre daný NODE disk assign 0c.27.11
* zmeniť práva späť priv set

1. **Nastavenie svetla pre daný HDD na 5 minút**

storage disk set-led -disk 1.2.21 -action on -duration 5

1. **Zmazanie pôvodného ownera na HDD, ak sa disk prekladal z iného NetApp-u**

storage disk removeowner -disk 1.0.2

alebo

set -privilege advanced

storage disk removeowner -disk 1.0.22 -data true

storage disk removeowner -disk 1.0.22 -root true

1. **Pridanie disku konkrétnemu OWNER-ovi**

set -privilege advanced

storage disk assign -disk 1.0.22 -owner filer03-02 -data true

storage disk assign -disk 1.0.22 -owner filer03-02 -root true

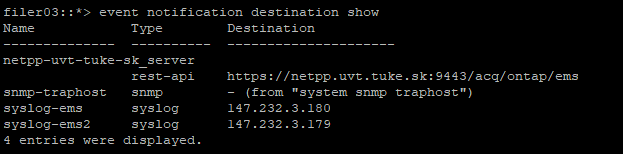
1. **Nastavenie SYS Log-u**

Vytvorenie pravidla syslog-ems na server 147.232.3.180 :

event notification destination create -name syslog-ems -syslog 147.232.3.180

Povolenie zasielania notifikácií pre pravidlo syslog-ems:

event notification create -filter-name important-events -destinations syslog-ems

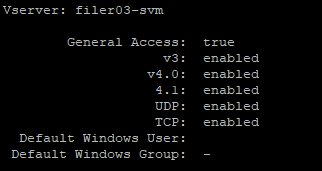


1. Nastavenie NFS pre pripojenie do Windows-u
2. Povoliť mount vo Windows-e.

([https://graspingtech.com/mount-nfs-share-windows-10](https://graspingtech.com/mount-nfs-share-windows-10/))

1. Na strane NetApp-u urobiť:
   1. Vytvoriť volumes
   2. Povoliť NFS ver3
   3. Vytvoriť „Export Policies“ pre danú IP adresu
   4. Zadať v NetApp-e nasledujúce príkazy:

(<https://library.netapp.com/ecmdocs/ECMP12454943/html/GUID-EA9CFAD6-7F78-4997-A6C7-D2EC42EBD3A3.html>)



vserver nfs modify -vserver filer03-svm -showmount enabled

vserver nfs modify -vserver filer03-svm -v3-ms-dos-client enabled

* 1. NFS sa do Windows pripojí príkazom:

mount \\147.232.210.245\filer03\_vol4 z:

1. Using inactive data reporting ([URL](https://docs.netapp.com/ontap-9/index.jsp?topic=%2Fcom.netapp.doc.dot-cm-psmg%2FGUID-78C09B0C-9508-4CEC-96FE-7ED73F7F5120.html))
2. Výpis stavu:

volume show -fields performance-tier-inactive-user-data, performance-tier-inactive-user-data-percent

1. Nastavenie:

storage aggregate modify -aggregate filer03\_aggr1 -is-inactive-data-reporting-enabled true

1. sss