

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)

a.) Odoslanie testovacej správy:

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

b.) Výpis zaslaných správ:

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

```
filer04::> system node autosupport destinations show
Node
  Destinations
-----
filer04-01
  autosupport@netapp.com
  netapp@tuke.sk
  netapp@uvt.tuke.sk
filer04-02
  autosupport@netapp.com
  netapp@uvt.tuke.sk
  sk-netappsupp@alef.com
  netapp@tuke.sk
2 entries were displayed.

filer04::> system node autosupport history show -node filer04-01
      Seq          Attempt  Percent  Last
Node   Num Destination Status       Count Complete Update
-----  -----
filer04-01  2251        smtp    cancelled   -     -  9/24/2018 10:42:52
              http     ignore      1     -  9/24/2018 10:10:36
              noteto   ignore      1     -  9/24/2018 10:10:36
                2250        smtp    cancelled   -     -  9/24/2018 10:42:52
              http     ignore      1     -  9/24/2018 10:05:28
              noteto   ignore      1     -  9/24/2018 10:05:28
                2249        smtp    cancelled  11     -  9/24/2018 10:42:52
              http     ignore      1     -  9/24/2018 10:03:51
              noteto   ignore      1     -  9/24/2018 10:03:44
                2248        smtp transmission-failed 15     -  9/24/2018 10:42:46
              http     ignore      1     -  9/24/2018 08:59:54
              noteto   ignore      1     -  9/24/2018 08:59:48
              retransmit sent-successful 1     100  9/24/2018 10:42:52
```

c.) Výpis mail serverov na zasielanie správ:

system node autosupport show -fields mail-hosts

```
filer04::> system node autosupport show -fields mail-hosts
node      mail-hosts
-----
filer04-01 147.232.3.20
filer04-02 147.232.3.20
2 entries were displayed.
```

d.) Výpis cieľov, kde majú byť zaslané správy:

system node autosupport destinations show

```
filer04::> system node autosupport destinations show
Node
    Destinations
-----
filer04-01
    autosupport@netapp.com
    netapp@tuke.sk
    netapp@uvt.tuke.sk
filer04-02
    autosupport@netapp.com
    netapp@uvt.tuke.sk
    sk-netappsupp@alef.com
    netapp@tuke.sk
2 entries were displayed.
```

e.) Zrušenie odoslania správy:

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

f.) Preposlanie správy na iný email:

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

2. Nastavenie času

a.) Zobrazenie času

cluster date show

b.) Nastavenie časovej zóny

cluster date modify -timezone Europe/Bratislava

c.) Nastavenie časovej zóny a dátumu PLUS čas

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

d.) Nastavenie NTP servera

cluster time-service ntp server show

cluster time-service ntp server create -server 147.232.254.1

3. Príkaz na download súborov cez SCP

scp -P 2022 rc641og@people.tuke.sk:public_html/qual_devices.zip /mroot/etc

4. Výpis nastavenia záloh

- a) set -privilege advanced
 - b) 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

filer03:-> system configuration backup show -node filer03-0* -fields node,backup,backup-type,time,cluster-name,cluster-uuid,size,nodes-in-backup,version,is-auto,schedule										
node	backup	backup-type	time	cluster-name	cluster-uuid	size	nodes-in-backup	version	is-auto	schedule
filer03-01	filer03_8hour.2018-10-16.02_15_00.7z	cluster	10/16 03:15:00	filer03	862908bc-990d-11e5-8b81-00a098802812	61.48MB	filer03-02,filer03-01	9.4P2	true	8hour
filer03-01	filer03_8hour.2018-10-16.10_15_02.7z	cluster	10/16 11:15:00	filer03	862908bc-990d-11e5-8b81-00a098802812	62.61MB	filer03-02,filer03-01	9.4P2	true	8hour
filer03-01	filer03_daily.2018-10-15.00_10_01.7z	cluster	10/15 01:10:01	filer03	862908bc-990d-11e5-8b81-00a098802812	61.56MB	filer03-02,filer03-01	9.4P2	true	daily
filer03-01	filer03_daily.2018-10-16.00_10_01.7z	cluster	10/16 01:10:01	filer03	862908bc-990d-11e5-8b81-00a098802812	62.64MB	filer03-02,filer03-01	9.4P2	true	daily
filer03-01	filer03_weekly.2018-10-07.00_15_00.7z	cluster	10/07 01:15:00	filer03	862908bc-990d-11e5-8b81-00a098802812	57.83MB	filer03-02,filer03-01	9.4P2	true	weekly
filer03-01	filer03_weekly.2018-10-14.00_15_04.7z	cluster	10/14 01:15:04	filer03	862908bc-990d-11e5-8b81-00a098802812	59.44MB	filer03-02,filer03-01	9.4P2	true	weekly
filer03-02	filer03_8hour.2018-10-15.18_15_01.7z	cluster	10/15 19:15:01	filer03	862908bc-990d-11e5-8b81-00a098802812	61.66MB	filer03-02,filer03-01	9.4P2	true	8hour
filer03-02	filer03_8hour.2018-10-16.02_15_00.7z	cluster	10/16 03:15:00	filer03	862908bc-990d-11e5-8b81-00a098802812	61.48MB	filer03-02,filer03-01	9.4P2	true	8hour
filer03-02	filer03_8hour.2018-10-16.10_15_02.7z	cluster	10/16 11:15:02	filer03	862908bc-990d-11e5-8b81-00a098802812	62.61MB	filer03-02,filer03-01	9.4P2	true	8hour
filer03-02	filer03_daily.2018-10-14.00_10_05.7z	cluster	10/14 01:10:05	filer03	862908bc-990d-11e5-8b81-00a098802812	59.42MB	filer03-02,filer03-01	9.4P2	true	daily
filer03-02	filer03_daily.2018-10-15.00_10_01.7z	cluster	10/15 01:10:01	filer03	862908bc-990d-11e5-8b81-00a098802812	61.56MB	filer03-02,filer03-01	9.4P2	true	daily
filer03-02	filer03_daily.2018-10-16.00_10_01.7z	cluster	10/16 01:10:01	filer03	862908bc-990d-11e5-8b81-00a098802812	62.64MB	filer03-02,filer03-01	9.4P2	true	daily
filer03-02	filer03_weekly.2018-09-30.00_15_05.7z	cluster	09/30 01:15:05	filer03	862908bc-990d-11e5-8b81-00a098802812	57.49MB	filer03-02,filer03-01	9.4P2	true	weekly
filer03-02	filer03_weekly.2018-10-07.00_15_00.7z	cluster	10/07 01:15:00	filer03	862908bc-990d-11e5-8b81-00a098802812	57.83MB	filer03-02,filer03-01	9.4P2	true	weekly
filer03-02	filer03_weekly.2018-10-14.00_15_04.7z	cluster	10/14 01:15:04	filer03	862908bc-990d-11e5-8b81-00a098802812	59.44MB	filer03-02,filer03-01	9.4P2	true	weekly

- c) set -privilege advanced

5. Vrátenie LIF portu do HOME (URL).

- a) Zistenie stavu portu – ak je chyba tak tam píše False
network interface show -vserver Filer02

```
147.232.210.140 - PuTTY
Using username "admin".
Filer02::>
Filer02::>
Filer02::> network interface show -vserver Filer02
      Logical      Status      Network          Current      Current  Is
Vserver       Interface   Admin/Oper Address/Mask      Node       Port   Home
-----  -----  -----  -----  -----  -----  -----
Filer02
      Filer02-01_mgmt
                  up/up    147.232.210.142/23 Filer02-01      e0M      true
      Filer02-02_mgmt
                  up/up    147.232.210.144/23 Filer02-02      e0M      true
      cluster_mgmt up/up    147.232.210.140/23 Filer02-01      e0M      true
3 entries were displayed.

Filer02::>
```

- b) Príkaz na vrátenie portu do HOME

```
network interface revert -vserver Filer02 -lif cluster_mgmt
```

6. 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.cecerka/qual_devices.zip
- 3.) skontrolovať príkazom:
 - a. node run -node filer04-01 -command rdffile /etc/qual_devices_v3
 - b. node run -node filer04-02 -command rdffile /etc/qual_devices_v3
- 4.) set -privilege admin

7. Upgrade firmware HDD

- a. Výpis modelov HDD a verzie firmware
storage disk show -fields disk,model,firmware-revision
- b. Zistenie či je novší na WEB NetApp-u, je tam aj popis ako to urobiť
(<https://mysupport.netapp.com/NOW/download/tools/diskfw/>)

8. Zmena certifikátu, popis na https://kb.netapp.com/app/answers/answer_view/a_id/1032196

- a.) set -privilege advanced
- b.) security certificate show – vypíše všetky certifikáty

```
Vserver   Serial Number  Common Name          Type
-----  -----
filer04   50946EC18EAD59C4DD597EFT59FA0AD      X Ramp Global Certification Authority    server-ca
        Certificate Authority: X Ramp Global Certification Authority
        Expiration Date: Mon Jan 01 06:37:19 2035

filer04   200605167002  cert5SIGNROOTCA       server-ca
        Certificate Authority: cert5SIGN
        Expiration Date: Fri Jul 04 19:20:04 2031

filer04   15C8BD65475CAF897005EE406D2BC9D      ePKI Root Certification Authority     server-ca
        Certificate Authority: "Chunghwa Telecom Co., Ltd."
        Expiration Date: Wed Dec 20 03:31:27 2034

filer04   525EC044F0339  filer04             server
        Certificate Authority: filer04
        Expiration Date: Thu Dec 01 16:34:58 2016

filer04   344ED55720DSEDEC49F42FCE37DB2B6D      thawte Primary Root CA                server-ca
        Certificate Authority: thawte Primary Root CA
        Expiration Date: Thu Jul 17 01:59:59 2036

filer04   35FC265CD9844FC93D263DS79BAED756      thawte Primary Root CA-G2           server-ca
        Certificate Authority: thawte Primary Root CA - G2
        Expiration Date: Tue Jan 19 00:59:59 2038

filer04   600197B746A7EAB4B49AD64B2FF790FB      thawte Primary Root CA-G3           server-ca
        Certificate Authority: thawte Primary Root CA - G3
        Expiration Date: Wed Dec 02 00:59:59 2037

filer04-svm 52E4E59CA9D7D  filer04-svm         server
        Certificate Authority: filer04-svm
        Expiration Date: Sat Mar 18 09:15:32 2017

106 entries were displayed.

filer04::*
```

- c.) security ssl show - výpis už neplatných certifikátov

```
filer04::*> security ssl show
      Serial                               Server  Client
Vserver   Number Common Name          Enabled  Enabled
-----  -----
filer04   525EC044F0339
        filer04                         true    false
        Certificate Authority: filer04

filer04-svm
      52E4E59CA9D7D
        filer04-svm                     true    false
        Certificate Authority: filer04-svm

2 entries were displayed.
```

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

```
filer04:/*> security certificate show -instance -vserver filer04 -common-name filer04
      Vserver: filer04
      FQDN or Custom Common Name: filer04
      Serial Number of Certificate: 525EC044F0339
      Certificate Authority: filer04
      Type of Certificate: server
      Size of Requested Certificate(bits): 2048
      Certificate Start Date: Wed Dec 02 16:34:58 2015
      Certificate Expiration Date: Thu Dec 01 16:34:58 2016
      Public Key Certificate: -----BEGIN CERTIFICATE-----
MIIEbjCCAU6gAwIBAgIHBSSx8EB8DOTANBgkqhkiG9w0BAQsFADBcMRAwDgYDVQQD
EwmdawXlcjA0M0QswCQYDVQQGEwJVUzEUMAcGA1UECBMAMQkwsBwYDVQHEwAxCTAH
BgNVBAoTADEJMAcGA1UECXxHAMQw8DQYJKoZIhvCNNAQkBFGxawHhcNMTUxMjAyMTUz
NDU4WhcNMITYxMjAxMTUzNDU4WjBcMRBwDgYDVQODewdmaWxlcjA0M0swCQYDVQOG
EwJVUzEUMAcGA1UECBMAMQkwsBwYDVQHEwAxCTAHBgqvNVAcTADEJMAcGA1UECxMA
MQw8DQYJKoZIhvCNNAQkBFGxawgjeKkAoIB
AQDP/jnRMl4fcTsg17HGQbzKOaqYK/Jctzs0FXNaYRb/w1+L1NyrGlog7H
UIO/60E2o98v2g3YElay25UDy1G3plukKUiRHaldsH2vFBz3RWuYNgdu7G2cp
VKn/+t6wIb0U34zBFv+tVYrlv0BzCn79pAlLb/RehsO61HOCCJ+eWKqgyFAuzWVa
bmF2ySgTg29yFcoVU1NFyujoqLOU+owf1odrgmVV+ArthJ79EAKRLakfcccMU
EguBLMq-Jlqmu91mmaEJCGpVtgDFTuvi/xG9yXlaOOvTNemh7Clb/A8KWBV0gmN
IXwHmuittgRaD4819Jpg3AgMBAAgJgcwgcwkDAYDVRQBauAwEB/zALBqNV
HQSEBAMCAQYWQDYDVR00BYEFFF44uwyQ3WSHrdROHOxGxL5davM1GBgnVHSME
gYQwgYGAfff44uwyQ3WSHrdR0HOxGxL5davWCKxjBcmRawDgYDVQODewdmaWx1
cjA0M0swCQYDVQOGEWJUZEJMAcGA1UECBMAMQkwsBwYDVQHEwAxCTAHBgNVBAoT
ADEJMAcGA1UECxMMQ8wDQYJKoZIhvchNAQkBFGxCKBwUl7ARPazkwDQYJKoZIhvCN
AQELBQADggEBABbeWIlfUjNw+Zhwrl0pgNvhloUKbsDi/oQioUzwttNZ8UxiwZa
NhioDTjogEHnRZ0Nhc60a0F3GCaVftlx09f8uucLfxekzdPAnXXQrDW+3y4F
PgE/9Ym5OpvTxkDgfvOffChVrbhxKMMIV1UgVq1qtqn9FbMY3zmMHy++ZOW
Kh7Gv10w+hDiJqwpA5m9ulGx6zz7AdTFiShoa/hH1+trTVcxVFsW9jBUSw0Ic3TL
Ss7uUleYrtvFcup1ZhCm7frp19Ac70jcdeditjmnMchkvvcpncoULdefKklKai
tM0hBnOYC/Yk0tng2TkWzMxezYOW6eHpaI
-----END CERTIFICATE-----
      Country Name (2 letter code): US
      State or Province Name (full name):
      Locality Name (e.g. city):
      Organization Name (e.g. company):
      Organization Unit (e.g. section):
      Email Address (Contact Name):
          Protocol: SSL
      Hashing Function: SHA256
      Subtype: -
```

e.) security certificate show -instance -vserver filer04_svm -common-name filer04_svm

```
filer04:/*> security certificate show -instance -vserver filer04-svm -common-name filer04-svm
      Vserver: filer04-svm
      FQDN or Custom Common Name: filer04-svm
      Serial Number of Certificate: 52F4E59CA9D7D
      Certificate Authority: filer04-svm
      Type of Certificate: server
      Size of Requested Certificate(bits): 2048
      Certificate Start Date: Fri Mar 18 09:15:32 2016
      Certificate Expiration Date: Sat Mar 18 09:15:32 2017
      Public Key Certificate: -----BEGIN CERTIFICATE-----
MIIEbjCCAvgAwIBAgIHBSS50WcqdfTANBgkqhkiG9w0BAQsFADBqMRQwEgYDVQQD
EwmdawXlcjAO1LN2zbTEIMakGA1UEBhMCVVMxCTAHBgNVBAoTADEJMAcGA1UEBmA
MOkwBwYDVQOKWeAxCTAHBgNVAsTADEPM00GCSgS1b3DQEJARYAM84XDTE2MDMx
ODA4MTUzMidXOTE3MDMxODA4MTUzNlowYEDEUMBGA1UEAxwKLzmlsZXIwNC1zdm0x
CzAOBgNVBAITAIvTMQkwBwYDVQIEwAxCTAHBgNVBacTADEJMAcGA1UEChhMANQkW
BwYDVQLEwaxDzANBgkqhkiG9w0BCQEWAACCS1wDQYJKoZIhvCNQEBBQADggEP
ADCCAAoCggEBAN7/i2CV43U6U7u9j8ccgLuBe2z5Vx1YjseGNsB372zIudDJS
8tRy4FltlizrljqpPeXskdrhk5WgJIKcCD3QkohIRkYBMy44FDdvzjMquU9+
P/pAzR6neYZUyrL91fB+Nv8F56iwiTzt+uNlyeo0ffsLz3RqCxj6Mj651Wc66Oa4
NTFamI7+k0IBSOX2uM5Er2F+fasBm7KGEODkETnjgdC/J5sA5Hbd0LketPRQxJ
QC7shY1BvYeXl+PGsKXNPs5PvRnujeceV0puXtdp/7429AMCYB5g3IC2loj5KRFP
7d6167xOnPF7LB9+UpPeYiSwXChIA6TAhCawEEAaOB0DCBzTAMBnGVHRMEBTAD
AQH/MAsGA1UdDwQEAwIBjAdBgNVHQ4EFgQUAS5Bu16VFud/ciuKAKmNSCsSlayW
gZAGAIu1wsBD1CBhYAu5Bu16VFud/ciuKAKmNSCsSlahZKRIAGxFDAsBgNV
BAMTC2ZpbGVyMDQc3ztMQswCQYDVQOGEWJUZEJMAcGA1UECBMAMQkwsBwYDVQQR
EwAxCTAHBgNVBAoTADEJMAcGA1UECxMMQ8wDQYJKoZIhvCNNAQkBFGxCKBwUtlnc
nX0wDQYJKoZIhvCNNAQELBQADggFBAAK0KKGM011hk8ueGt7zdkuY1+fBZZaM4c
PGqtFCLbvftHzRfsrs+F0C3tvCBvlgKqCb9eEAKBR0Abdnnev0zR42bJ0jwPYaMp
lwNs95itzlC4oA59kKc1KnsVfgu1Vw1k29/yiwf7er0S2M1WmzsrXzErG2lW
xj8waUxhOj9qZKGzb0m04PssuH0Bs+rsvkacacUuceJnxofefytPLIy4/VXLESSQ
7ilArKS3ON096z705cAYmXqr/TENNOsA5u1XiorURuqjM77YY2AYU9/PmFet
RBa7bfba8LZqE20Cd4iyssm3juj7cj6VYdoLjgPyYhcBSCY1XNM8=
-----END CERTIFICATE-----
      Country Name (2 letter code): US
      State or Province Name (full name):
      Locality Name (e.g. city):
      Organization Name (e.g. company):
      Organization Unit (e.g. section):
      Email Address (Contact Name):
          Protocol: SSL
      Hashing Function: SHA256
      Subtype: -
```

f.) vymazanie certifikátu pre filer04

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

Kontrolný výpis

```
filer04::*> security ssl show
      Serial
Vserver   Number Common Name          Server  Client
          Enabled Enabled
----- -----
filer04    -     -                  false   false
Certificate Authority: -
filer04-svm
      52E4E59CA9D7D
          filer04-svm           true    false
Certificate Authority: filer04-svm

2 entries were displayed.
```

g.) vymazanie certifikátu pre filer04_svm

```
security certificate delete -common-name filer04_svm -ca filer04_svm -type server -vserver filer04_svm -serial 52E4E59CA9D7D
```

```
filer04::*> security ssl show
      Serial
Vserver   Number Common Name          Server  Client
          Enabled Enabled
----- -----
filer04    -     -                  false   false
Certificate Authority: -
filer04-svm
      -     -
          Certificate Authority: -
filer04-svm
          -     -
          Certificate Authority: -
2 entries were displayed.
```

h.) 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
```

i.) kontrola vytvoreného certifikátu

```
security certificate show -instance -vserver filer04 -common-name filer04
security certificate show -instance -vserver filer04_svm -common-name filer04_svm
filer04::*> security certificate show -instance -vserver filer04 -common-name filer04
    Vserver: filer04
        FQDN or Custom Common Name: filer04
        Serial Number of Certificate: 1560CADB78F81615
        Certificate Authority: filer04
        Type of Certificate: server
        Size of Requested Certificate(bits): 2048
        Certificate Start Date: Thu Oct 25 09:55:16 2018
        Certificate Expiration Date: Sun Oct 22 09:55:16 2028
        Public Key Certificate: -----BEGIN CERTIFICATE-----
MIIDTjCCAjagAwIBAgIIIFWDK23j4FhUwDQYJKoZIhvCNQELBQAwH2EQA4GAlUE
AxMHZm1sZX1wNDElMAkGA1UEBhMCVVMwHhcNMTgxMDI1MDc1NTExWncNNjgxMDIy
MDc1NTEx2WjAfMRAwDgYDVQDDewdmaWx1cja0MQswCQYDVQQGEwJVUzCCAS1wDQYJ
KoZIhvCNQEBBQADggEPADCCAQoCggEBALBVAUhgtmAjDDiOy+lQiutyP5PvwEQ
dg5m61WF/DECko7zEsuDgUFC6TOCPcuedusMfmmwKSUUAptYiJEiGuLcA3c5j41H
vLSzFnA3WC1wf/TBZsjPHVdHOZQGaTgr+wdROM77dEZy80TKiCE70x9VKWaDbVWH
ySsuqSbCTReC8ACFb93csxDsR5Vh908txFE1XRezqGzKccM1zyJ+BuDnefl4LEUU
+ZVrtaUja2E0730X2q8zBQhewDlegsw1OXzWlgIew4FYLFnGNT6KaxyRqyVUZ1
ERcyhhV2NU1WoqdJ5kZeCV1yI97o5WQ6LrdzLJxiQg5wS/qDUGnTCpMCwEEAaOB
jTCBijsAMBgNVHRMEBTADAQH/MasGAlUdDwQEAwIBBjAdBgNVHQ4EFgQUPTKxJp3
aYgMwkRBjrOwmGrKhKEwTcYDVROjBEcvRYAU/PXkxJp3aYgMwkRBj:owmGrKhkGh
I6QhMB8xEDAOBgNVBAMTB2pbGVyMDQxZaJBgNVBAITAI1VtgggVIMrbePgWFTAN
BgkghkIG9wOBAsFAAOCAOEAXYJSYqrtjLWCNWsTRf44fmpLhhFBkg215B+H9+jE
VYOF6RnT1qRMH81PTeJUnlcC2Y8U1FsPZ2fYpLyI97ZE50qcF4/bDAkrVitSGpV8I
ubRGYjHePALcrCaP5zBFM1vyNTVVkMzBIXQdFA7f7v1RL41hXkARD9m7jJoBhs
ctLF4dQ2wO9bjzsqcJQLJUOmBkgcyoet1jBIwAuv0TN4UKzJ5iYjcYQ3LLfmZsuP
2ewaMw8kxo8nCR2iR1YsR7om0bufIjxvzvEQUZphayhkK8nOpYC7aNWpkmXhCF9i
2oQ3KL3bbzWRwaaEAF1C/66/Ge0F7wJgUxrycbtPQV664A==
-----END CERTIFICATE-----
Country Name (2 letter code): US
State or Province Name (full name):
Locality Name (e.g. city):
Organization Name (e.g. company):
Organization Unit (e.g. section):
Email Address (Contact Name):
Protocol: SSL
Hashing Function: SHA256
Subtype: -
```

j.) povolenie certifikátu:

```
ssl modify -vserver filer04 -server-enabled true
```

```
ssl modify -vserver filer04_svm -server-enabled true
```

```
filer04::*> security ssl show
      Serial                               Server   Client
Vserver   Number Common Name           Enabled   Enabled
-----  -----
filer04   1560CADB78F81615          true     false
                                filer04
Certificate Authority: filer04

filer04-svm
      1560CAED4F21952C               true     false
                                filer04-svm
Certificate Authority: filer04-svm

2 entries were displayed.
```

```
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
```

k.) xxss

9. Vymazanie všetkých spare diskov - prepíšť 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

10. Zistenie stavu pri tvorbe agregátu t.j. mazanie diskov.
storage aggregate show-status

11. Premenovanie agregátu ([URL](#))
storage aggregate rename -aggregate aggr5 -newname sales-aggr

12. Ping
network ping -node filer06-01 -destination 147.232.75.1 -show-detail

13. Nastavenie LIF-u aby sa vrácal 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

14. Vypísanie DNS záznamov:
vserver services dns show

15. Výpis teplôt a stavu zariadenia:

Pre Filer1A a 1B
environment status chassis

Pre ostatné DP
system node run -node filer04-01 -command environment status

16. Výpis senzorov

Pre Filer1A a 1B
environment chassis list-sensors

Pre ostatné DP
system node run -node filer04-01 -command environment chassis list-sensors

17. 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	reallocates	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	wafstop
diskcopy	maxfiles	savecore	wrfile
ems	mt	shelfchk	

Zo shell režimu oddídeme príkazom exit.

18. Vypísanie história Autosupportu

```
autosupport history show  
autosupport history show -node Filer02-01
```

19. Reštart jedného nódus:

```
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

20. 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

21. Výpis spare diskov

storage aggregate show-spares-disks

22. 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

23. Zrušenie FAIL stavu disku

storage disk unfail -disk 1.0.2 -spare

24. Výpis chybných diskov

storage disk show -broken

25. Výpis verzií firmware a výrobcu

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

26. 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 – dat' tomu aspoň 1 minútu
- disk si vieme rozblíkať 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

27. Nastavenie svetla pre daný HDD na 5 minút

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

28. 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
```

29. 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
```

30. 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
```

```
filer03::*> event notification destination show  
Name          Type      Destination  
-----  
netpp-uvt-tuke-sk_server      rest-api    https://netpp.uvt.tuke.sk:9443/acq/ontap/ems  
snmp-traphost    snmp      - (from "system snmp traphost")  
syslog-ems       syslog    147.232.3.180  
syslog-ems2      syslog    147.232.3.179  
4 entries were displayed.
```

31. Nastavenie NFS pre pripojenie do Windows-u

a.) Povoliť mount vo Windows-e.

(<https://graspingtech.com/mount-nfs-share-windows-10>)

b.) Na strane NetApp-u urobiť:

- I. Vytvoriť volumes
- II. Povoliť NFS ver3
- III. Vytvoriť „Export Policies“ pre danú IP adresu
- IV. Zadať v NetApp-e nasledujúce príkazy:

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

```
Vserver: filer03-svm

    General Access: true
                    v3: enabled
                    v4.0: enabled
                     4.1: enabled
                      UDP: enabled
                      TCP: enabled
    Default Windows User:
    Default Windows Group: -
```

vserver nfs modify -vserver filer03-svm -showmount enabled

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

V. NFS sa do Windows pripojí príkazom:

mount \\147.232.210.245\filer03_vol4 z:

32. Using inactive data reporting ([URL](#))

a) Výpis stavu:

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

b) Nastavenie:

```
storage aggregate modify -aggregate filer03_aggr1 -is-inactive-data-reporting-enabled true
```

33. sss