

FIRST TECH®

Construindo relações duradouras

nShield - Geral

MATRIZ: Av. Angélica, 2248 - 4º andar Higienópolis · São Paulo · SP Fone: 11 3024-3200

FILIAL: Rua da Quitanda, 60 12° andar - Centro - RJ

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1. Security World

- Tipos de cartão
- Administrator Card Set (ACS) controle de acesso para recuperar ou substituir funcionalidade
 - Operator Card Sets (OCSs) controle de acesso a chaves de criptografia
- Quorum

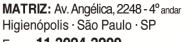
N = número total de cartão

K = número minimo de cartão para realizar a tarefa

N/K; K>N

- Viewing Security World using the command line

```
$ /opt/nfast/bin/nfkminfo --key-list
Key list - 9 keys
AppName simple
                             Ident c4
                              Ident c2
AppName simple
AppName simple
                              Ident c3
 AppName simple
                              Ident c5
                             Ident uc8b7c43bcdad9c9de0b1deed737c4e0f088c5(...)
 AppName pkcs11
AppName simple
                             Ident chave01
 AppName simple
                              Ident c1
                              Ident e4c1b3b11499a5ec701b5437ddf73a2cd61dbff6
 AppName custom
 AppName simple
                              Ident c10
```



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2. OCS

- Creating an Operator Card Set (OCS) using the nShield Connect front panel

```
- 3 > 5 > 1
- [NOME_OCS]
- 2/3; K/N
- 0 (no time out)
- Not persistent - Persistent - Remoteable/Persistent
- Blank card > OK > Set Card Protection Passphrase > [SENHA]
```

- Viewing card sets using the command line

```
$ /opt/nfast/bin/nfkminfo --cardset-list
Cardset list - 1 cardsets: (P)ersistent/(N)ot, (R)emoteable/(L)ocal-only
Operator logical token hash k/n timeout name
8b7c43bcdad9c9de0b1deed737c4e0f088c5e4ce 2/3 none-NL labocs
```



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3. Chave

- Generating keys using the command line

```
\ sudo /opt/nfast/bin/generatekey --generate simple cardset=labocs plainname=chave ident=chave protect=token recovery=yes
```

- Viewing keys using the command line

```
$ /opt/nfast/bin/nfkminfo --key-list
Key list - 10 keys
AppName simple
                              Ident c4
                              Ident c2
AppName simple
                              Ident c3
AppName simple
                              Ident chave
AppName simple
AppName simple
                             Ident c5
AppName pkcs11
                             Ident uc8b7c43bcdad9c9de0b1deed737c4e0f088c5(...)
                              Ident chave01
AppName simple
AppName simple
                              Ident c1
                              Ident e4c1b3b11499a5ec701b5437ddf73a2cd61dbff6
AppName custom
                              Ident c10
AppName simple
```

Visualizar chave de acordo com o tipo de proteção

```
$ /opt/nfast/bin/nfkminfo --name-list
Keys with module protection:
   key_simple_c1 `c1'
   key_simple_c3 `c3'
   key_simple_c5 `c5'

Keys protected by cardsets:
   key_custom_e4c1b3b11499a5ec701b5437ddf73a2cd61dbff6 `DES3'
   key_pkcs11_uc8b7c43bcdad9c9de0b1deed737c4e0f088c5(...) `chave02'
   key_simple_c10 `c10'
   key_simple_c2 `c2'
   key_simple_c4 `c4'
   key_simple_chave `chave'
   key_simple_chave01 `chave01'
```

Apagar chave

```
- Erase the OCS that is used to protect it
- Erase the Security World completely
```



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- Utilizando ROCS para mudar o tipo de proteção da chave

```
$ sudo /opt/nfast/bin/rocs
`rocs' key recovery tool
Useful commands: `help', `help intro', `quit'.
rocs> list cardsets
No. Name
                           Keys (recov) Sharing
   module
                           4 (4)
 1 labocs
                           5 (5)
                                       2 of 3
rocs> list keys
No. Name
                                    Protected by
                           App
 1 c4
                           simple
                                     labocs
                                    module
 2 c2
                           simple
 3 c3
                          simple
                                    module
 4 c5
                          simple
                                    module
                         pkcs11
 5 chave02
                                    labocs
                                    labocs
module
                          simple
simple
 6 chave01
 7 c1
                           custom labocs
 8 DES3
 9 c10
                           simple labocs
rocs> set changeprot
rocs> module 1
rocs> list cardsets
No. Name
                           Keys (recov) Sharing
   module
                           4 (4) ---
 1 labocs
                           5 (5)
                                       2 of 3
rocs> target labocs
rocs> mark 2
rocs> recover
      admin card
      1/3 and 2/3 card
rocs> save
rocs> list keys
                                 Protected by
 No. Name
                        App
                                 labocs
   1 c4
                        simple
                        simple
   2 c2
                                   labocs
                                 module
   3 c3
                        simple
                       simple
                                 module
   4 c5
   5 chave02
                       pkcs11
                                  labocs
   6 chave01
                       simple
                                 labocs
                       simple
                                 module
   7 c1
   8 DES3
                        custom
                                   labocs
                                 labocs
   9 c10
                        simple
rocs> exit
```

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4. Release Notes

Autor	Descrição	Data
Caio Ferreira	Primeira versão do documento	12/08/2020

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