

# So verwenden Sie den SE Modus bei einer DD(VE)

Das Data Domain Betriebssystem DDOS hindert den Administrator standardmäßig daran, an dem System unzulässige Handlungen vorzunehmen. Wollen sie 'tiefergehende' Befehle ausführen, müssen Sie hierzu in den sog. *SE Mode* wechseln. Hier eine kurze Betriebsanleitung für die momentane DDOS Version 6.2.0.30.

- Melden Sie sich zuerst als *sysadmin* user an und finden Sie die Seriennummer Ihre DD(VE) heraus:

```
login as: sysadmin
EMC Data Domain Virtual Edition
Using keyboard-interactive authentication.
Password: kennwort
Last login: Wed Aug 21 01:49:56 PDT 2019 from 195.214.70.1 on gui
```

```
Welcome to Data Domain OS 6.2.0.30-629757
-----
**
** NOTICE: There is 1 outstanding alert. Run "alerts show current"
**         to display outstanding alert(s).
**
sysadmin@ddve1#
sysadmin@ddve1#
sysadmin@ddve1# system show serial
Serial number: AUDVBEWFSGS6GW
System software-id: Not available
Instance software-id: Not available
sysadmin@ddve1#
```

- Wechseln Sie jetzt in den *SE Mode*:

```
sysadmin@ddve1# priv set se
Enter system password: serial_number
SE@ddve1##
SE@ddve1## help
```

Help is available on the following topics:

adminaccess	disk	ntp
alerts	elicense	qos
alias	enclosure	quota
authentication	filesystem	replication
autosupport	ifgroup	smt
cifs	log	snapshot
client-group	mdtag	snmp
cloud	migration	storage
compression	mtree	support
config	net	system
data-movement	nfs	user
ddboost		

Type "help <topic>" to view help for the given topic.

Type "help <keyword>" to search the commands for a specific keyword.  
For example, "help timezone" shows all commands relating to timezones.

```
SE@ddve1##
```

- Die Online Hilfe rufen Sie einfach über einen unbekanntem Befehl auf:

```
SE@ddvel## se help
```

```
Invalid command "se help", showing help:
```

```
Commands matching "se":
```

```

se arp <args>                Manipulate the system ARP cache
se arping <args>             Check for other systems at the mac
                               level
se check-ecc                 Check ECC errors now
se chmod <permissions> <filename> Modify the permissions of the specified
                               file
se chown <ownership> <filename> Modify the ownership of the specified
                               file
se cifs net <net-args>       Run net for CIFS
se cmc_dump <args>           CM (Container Management) container
                               dump program
se cmck <args>               CM (Container Management) layer check
                               program
se cmdb <args>               CM (Container Management) layer debug
                               program
se cmmmap <args>             CM (Container Management) layer mapping
                               container program
se cmstat <args>             CM (Container Management) layer stat
                               program
se cxgbtool <args>           Use cxgbtool to control Chelsio's 10GbE
                               driver
se dd_aclutil [<dd_aclutil-args>] CIFS ACL Utility
se dd_raidtool <args>         Run dd_raidtool
se dd_xcacs [<dd_xcacs-args>]   Get/Set CIFS ACL(s)
se debug-level set <0-99> module {sms}
                               Set debug level for SMS logging
se dhclient <args>           Run dhclient6
se disk port reset <hba port name> Reset hba port name
se dmck <args>               Directory Manager Check
se enclosure reset stats <enclosure id> <controller id>
                               Reset enclosure's controller statistics
se enclosure show {stats <enclosure id> |
                               detailed-status <enclosure id> | detailed-stats <enclosure id>}
                               [and-reset]
                               Show enclosure status or stats
se ethtool <args>           Get network driver configuration and
                               statistics
se fcportdiags <options> <port_index>
                               Run fcportdiags
se findfp <args>             Program to find fingerprints
se firmware show all         Display firmware information of all
                               devices in the system
se firmware upgrade enclosure <enclosure-id>
                               {reset | [force] [noreboot] <file>}
                               Upgrade enclosure firmware to the
                               specified image <file> in the
                               /ddr/var/releases directory, absolute
                               path, or in upgrade dir of USB
se fwcheck <hostname | address> Check for firewall interference
se grep <grep-args>         Run grep
.....

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.....
se ifstat {-h | -f <k|K|m|M> |
           -i <list of interfaces in quotes Ex: 'ethx, ethy, ethz'>}
           {interval}{count}
           Get ethernet port stats

se indict list
           list the persistent indictment
se indict remove <id>
           remove the persistent indictment
se ip <args>
           Run ip
se iperf <args>
           Run iperf
se iptables <args>
           run the iptables command with the
           arguments provided

se ipv6 <enable|disable|status>
           To Enable or Disable the ipv6 addresses
           on all interfaces

se lfd show
           Show Latent Fault Detection IP info
se ls <ls-args>
           List directory contents
se lspci <args>
           Get information about all PCI buses and
           devices connected to them

se mdtag_tool <args>
           Command for manipulating MDTAG objects
se mtr <args>
           Run mtr, which combines the
           functionality of the traceroute and
           ping

se ndisc6 <args>
           Run ndisc6
se net filter add [seq-id <n>]
           operation {allow | block}
           [protocol {tcp [ports <port>] [except-ports <port>]}
           [src-ports <port>] [except-src-ports <port>]] |
           udp [ports <port>] [except-ports <port>]
           [src-ports <port>] [except-src-ports <port>]] |
           iana-protocol]
           [clients {<host-list> | <ipaddr-list>}]
           [except-clients {<host-list> | <ipaddr-list>}]
           [interfaces {<ifname-list> | <ipaddr-list>}]
           [except-interfaces {<ifname-list> | <ipaddr-list>}]
           [ipversion {ipv4 | ipv6}]
           add a set of rules to the iptables, no
           restriction on ports

se net filter reset default-inbound
           Set the chain policy to the default:
           Block

se net filter set default-inbound {allow | block}
           Set the policy for the INPUT chains

se net firmware upgrade force device <partnum> {bootcode|extphy}
           Upgrade network device firmware to the
           specified version under
           /ddr/firmware/net/<partnum>/<bootcode|extphy>
           directory.

se net route show tables [<table-name-list> |
                           ipversion {ipv4 | ipv6}]
           Show the kernel IP routing tables using
           SMS

se net show resolvconf
           Display DNS and searchdomain set in
           /etc/resolv.conf

se nslookup <args>
           Query Internet name servers
           interactively

se nvsfile <args>
           NVS (Non Volatile State) magic
           fixer-upper

.....

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.....
se ps [<ps-args>] Report process status
se qosstats Get QoS statistics
se scan_scsi_err <args> Scan SCSI errors in logs
se sfs_dump [-v | -h | -e | -c | -C | -q | [-B | -l] dump-file |
-M mask | -s secs] <sfs-file> ...
dump detailed SEGFS file space
information
se showmount [-adehv] [--all] [--directories] [--exports]
[--help] [--version] [<host>]
Show mount information for an NFS
server
se slcolor <args> Storage Layer color report tool
se slfsck <args> Storage Layer check program
se slfsdb <args> Storage Layer filesystem debug program
se slls <args> Storage Layer variant of the ls command
se slmap <args> Storage Layer file mapping command
se sms configuration-block start command-type {all | set}
[timeout <mins>] [scope {local | global}]
Block all or a subset of SMS jobs
se sms configuration-block status Show SMS block status
se sms configuration-block stop Remove the block and start accepting
SMS jobs
se sms remote-access disable Disable SMS remote access
se sms remote-access enable Enable SMS remote access
se sms remote-access status Show status of SMS remote access
se sms restart Restart SMS
se sms show stats Show SMS job statistics
se ss_index_scan <args> SSI (Seg Store Index) layer scan
program
se ssh <args> Run ssh
se ssick <args> SSI (Seg Store Index) layer check
program
se ssidb <args> SSI (Seg Store Index) layer debug
program
se sumck <args> Summary Vector check program
se sysparam reset <param_name> Reset system parameter to default
se sysparam set <param_name=value> Set system parameter value
se sysparam show <param_name | all>
Show system parameters
se tcp_connect_info Use tcp_connect_info to get
/proc/net/addr_tcp & /proc/net/addr_tcp6
external connections
se tcpdump <args> Run tcpdump
se tdbdump <args> Run tdbdump
se telnet <args> Run telnet
se tethereal <args> Run network capture for CIFS
translation
se threshold reset component <name>
Reset component correctable error
threshold
se threshold set component <name>
{ [warning-level <value>] [ critical-level <value> ]
[ leak-rate <value> ] | disable}
Set warning level threshold, critical
level threshold, leak rate, or disable
threshold for correctable errors
.....

```

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.....
se threshold show [ component <name> ] { setting | status }
                                Show correctable error threshold
                                setting or status
se top <args>                    Display top CPU processes
se tracepath <args>             Run tracepath
se traceroute <args>           Run traceroute
se upgrade honor {all|version-check|precheck|rollback|kexec}
                                honor upgrade registries
se upgrade ignore {version-check|precheck|rollback|kexec}
                                ignore upgrade registries
se upgrade show                 Show the status of the upgrade
                                registries
se view <filename>              View (using less) any file
se vtck [options] <tapename>   Run vtck
```

SE@ddvel##

- Jetzt können Sie einen *SE Befehl anwenden*, z.B.

```
SE@ddvel##
SE@ddvel## se net show resolvconf
Actual DNS server list in use:
    195.214.70.1
```

```
Actual searchdomain list in use:
    eval.local
```

SE@ddvel##



Einen Befehl zum Verlassen des *SE Mode* gibt es offenbar nicht - zumindest findet sich keiner in der Liste.

`exit` wirkt, kappt jedoch die Verbindung gleich vollständig!