

Getting Started Using Linux DME



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Installation

Since DME is going to need low-level access to all attached SSI/SAS/FC/SATA and other storage devices it is very important that **everything done with DME be done with full administrator privileges.**

In this introduction users guide will we show a few examples of what goes wrong if you do not use full admin rights when running DME.

Copying files

Create a folder named DME to hold all of your DME files. You can create this folder anywhere you want, we recommend that in a production environment you create this folder in the boot drives root.

Copy the DME distribution files into your DME folder.

Copy the file LinuxPSSL.so into your test systems appropriate “/lib” folder. This folder may be:

- /lib
- /lib64
- /user/lib
- /user/lib64

Depending on what Linux distro you are running. It won't hurt anything to copy it into all the /lib folders on your system.

Installing HASP drivers

There are two files needed to install the HASP drivers –

- Sentinel_LDK_Linux_Run-time_Installer_script.tar.gz, and
- install_32bit_compatibility_package_for_x64.tar.gz

Unzip and tar extract everything from these files and follow the installation instructions.

If you are using a network key you will need to be sure that your network/firewall settings allow access to your key server machine.

Basic Running

Important tips

1. Run everything with full admin (su) privileges.
2. The command-line syntax for DME is

`./DME_S_<name of test sequence file to run>_<path to log files>_<device(s) to test> <CR>`

Where “_” means a space.

"HBA=0"

And you may specify all drives on multiple HBAs like

"HBA=0,1"

Showing connected drives

The quickest way to see all connected drives on your system is to specify either a bad test sequence file name or a bad device number – such as

```
“./DME S ./123.seq . device=77-77-77”
```

This will fail to run any tests on any drives but will display a list of all discovered drives –

```
mikejstb@localhost:/home/mikejstb/Desktop/DME
[mikejstb@localhost DME]$ su
Password:
[root@localhost DME]# ./DME S 123.seq . device=77-77-77

dmm_silent Version: 9.3.0.160729

In main, number of drives on system:11Shared Library Version = 160729

Device at HA:Tid:Lun 0:0:0 is of type 0, vendor = ATA      , product = KINGSTON SV300S3, version = BBF0, deviceName=/
ev/sg6, HighBlock = 2000000, BlockSize = 512
Device at HA:Tid:Lun 0:1:0 is of type 0, vendor = TOSHIBA , product = PX02SMF020      , version = 0204, deviceName=/
ev/sg7, HighBlock = 390721967, BlockSize = 512
Device at HA:Tid:Lun 0:2:0 is of type 0, vendor = SEAGATE , product = ST2000NX0263    , version = K002, deviceName=/
ev/sg8, HighBlock = 488378645, BlockSize = 4096
Device at HA:Tid:Lun 0:3:0 is of type 0, vendor = ATA      , product = SSD2SC240G1SA754, version = 0A  , deviceName=/
ev/sg9, HighBlock = 468862127, BlockSize = 512
Device at HA:Tid:Lun 3:0:0 is of type 0, vendor = ATA      , product = CT250BX100SSD1  , version = MU02, deviceName=/
ev/sg2, HighBlock = 488397167, BlockSize = 512
Device at HA:Tid:Lun 4:0:0 is of type 0, vendor = ATA      , product = WDC WD1002FBYS-0, version = 0C06, deviceName=/
ev/sg3, HighBlock = 1953525167, BlockSize = 512
Device at HA:Tid:Lun 5:0:0 is of type 5, vendor = HL-DT-ST , product = DVDROM GH24NS95  , version = RN01, deviceName=/
ev/sg4, HighBlock = 0, BlockSize = 0
Device at HA:Tid:Lun 8:0:0 is of type 0, vendor = ATA      , product = ST10000NM0086-2A, version = ZZZZ, deviceName=/
ev/sg5, HighBlock = 4294967295, BlockSize = 512
Device at HA:Tid:Lun 9:0:0 is of type 0, vendor = WD        , product = My Book 1230     , version = 1065, deviceName=/
ev/sg0, HighBlock = 976746239, BlockSize = 4096
Device at HA:Tid:Lun 9:0:1 is of type 13, vendor = WD       , product = SES Device      , version = 1065, deviceName=
dev/sg1, HighBlock = 0, BlockSize = 0
Done

In main, no testing is being done because g_nNumTests = 0, g_nNumDrives = 0[root@localhost DME]# █
```