

Procedimiento básico para instalar Disk Suite 4.2.1 en Solaris 8 desde la línea de comandos

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Objetivo

El presente documento tiene la finalidad de auxiliar en la instalación de Disk Suite desde la línea de comandos.

Alcance

El presente documento se enfoca en la instalación de Disk Suite 4.2.1 desde la línea de comandos en un equipo Sunfire 15K con Solaris 8 release 2/02. En ningún momento pretende sustituir al manual del producto.

Temario

- Antecedentes
- Obtener el producto
- Instalación del producto
 - Iniciar la instalación
 - Orden de los paquetes
 - La instalación de paquetes
 - Concluye el proceso de instalación
- Reiniciar el equipo
- Lo que sigue...

Antecedentes

En ocasiones nos encontraremos ante el reto de instalar Disk Suite desde una ubicación remota, por lo que no estamos frente a la consola y no podemos ejecutar el ambiente gráfico.

Disk Suite tiene por default un entorno gráfico para la instalación, sin embargo, podemos instalar el producto desde la línea de comandos, pero con el cuidado de instalar en el orden correcto.

Obtener el producto

Disk Suite lo podemos obtener del CD o DVD de instalación de Solaris, específicamente en la ruta siguiente:

```
/cdrom/sol_8_202_sparc/s0/Solaris_8/EA/products/DiskSuite_4.2.1
```

Para llegar a los paquetes nos cambiamos de directorio.

```
root@scmain # cd /cdrom/sol_8_202_sparc/s0
root@scmain # ls
Asian_Doc_CD  Copyright      Euro_Doc_CD   installer     Solaris_8
root@scmain # cd Solaris_8/
root@scmain # ls
Docs      EA      Misc      Patches  Product  Tools
root@scmain # cd EA/
root@scmain # ls
installer  products
root@scmain # cd products/
root@scmain # ls
DiskSuite_4.2.1  SunScreen_3.1_Lite
root@scmain # cd DiskSuite_4.2.1/
```

Si se diera el caso de que no tenemos acceso al CD o DVD, es sencillo construir un archivo TAR que contenga el producto Disk Suite. Transferimos por FTP el archivo TAR al equipo donde lo vamos a instalar y procedemos a extraer los archivos.

```
# tar xvf DiskSuite_421.tar
```

Vemos que se crea un directorio:

```
drwxr-xr-x  5 root      staff          512 Jan 18  2002 DiskSuite_4.2.1
-rw-r--r--  1 root      other        11831808 Oct  9 21:14 DiskSuite_421.tar
```

Ya sea en el DVD o en directorio creado al extraer los archivos del TAR, el contenido será el mismo, por lo que procedemos a ingresar al directorio sparc primero y al directorio Packages después:

```
# cd DiskSuite_4.2.1
# ls -lrt
total 14
-rwxr-xr-x  1 root      staff          4948 Dec  2  2001 installer
drwxr-xr-x  3 root      staff           512 Jan 18  2002 README
drwxr-xr-x  5 root      staff           512 Jan 18  2002 sparc
# cd sparc
# ls -lrt
total 6
drwxr-xr-x  3 root      staff           512 Jan 18  2002 Docs
drwxr-xr-x  3 root      staff           512 Jan 18  2002 Tools
drwxr-xr-x 12 root      staff           512 Jan 18  2002 Packages
```

Nos cambiamos al directorio donde están los paquetes y verificamos el contenido:

```
# cd sparc/Packages/
# ls -lrt
total 20
drwxrwxr-x  5 root      staff           512 Jan 18  2002 SUNWlvma
drwxr-xr-x  5 root      staff           512 Jan 18  2002 SUNWmdu
drwxr-xr-x  5 root      staff           512 Jan 18  2002 SUNWmdr
drwxrwxr-x  4 root      staff           512 Jan 18  2002 SUNWlvmr
drwxrwxr-x  5 root      staff           512 Jan 18  2002 SUNWlvmg
drwxr-xr-x  5 root      staff           512 Jan 18  2002 SUNWmdx
drwxr-xr-x  5 root      staff           512 Jan 18  2002 SUNWmdg
drwxr-xr-x  5 root      staff           512 Jan 18  2002 SUNWmdnu
```

```
drwxr-xr-x  5 root      staff      512 Jan 18  2002 SUNWmdnr
drwxr-xr-x  5 root      staff      512 Jan 18  2002 SUNWmdja
```

Instalación de Disk Suite

Ya que tenemos los paquetes bien identificados y en nuestro equipo, procedemos con el proceso de instalación.

Iniciar la instalación

Una vez que ya estamos ubicados en el directorio `DiskSuite_4.2.1/sparc/Packages`, iniciamos con la instalación, con lo cual veremos la lista de paquetes disponibles, así como la descripción de cada uno de ellos, mientras que el sistema espera que le indiquemos cuáles paquetes vamos a instalar:

```
# pkgadd -d .

The following packages are available:
 1  SUNWlvma      Solaris Volume Management API's
                   (sparc) 1.0,REV=2001.11.02.03.17
 2  SUNWlvmg      Solaris Volume Management Application
                   (sparc) 1.0,REV=2001.11.14.03.19
 3  SUNWlvmr      Solaris Volume Management (root)
                   (sparc) 1.0,REV=2001.11.14.03.19
 4  SUNWmdg      Solstice DiskSuite Tool
                   (sparc) 4.2.1,REV=1999.11.04.18.29
 5  SUNWmdja      Solstice DiskSuite Japanese localization
                   (sparc) 4.2.1,REV=1999.12.09.15.37
 6  SUNWmdnr      Solstice DiskSuite Log Daemon Configuration Files
                   (sparc) 4.2.1,REV=1999.11.04.18.29
 7  SUNWmdnu      Solstice DiskSuite Log Daemon
                   (sparc) 4.2.1,REV=1999.11.04.18.29
 8  SUNWmdr      Solstice DiskSuite Drivers
                   (sparc) 4.2.1,REV=1999.12.03.10.00
 9  SUNWmdu      Solstice DiskSuite Commands
                   (sparc) 4.2.1,REV=1999.11.04.18.29
10  SUNWmdx      Solstice DiskSuite Drivers (64-bit)
                   (sparc) 4.2.1,REV=1999.11.04.18.29

Select package(s) you wish to process (or 'all' to process
all packages). (default: all) [?,??,q]:
```

Orden de los paquetes

No podemos instalar los paquetes eligiendo la opción `all`, por lo que debemos indicar el orden de instalación de los paquetes.

Elegimos el orden siguiente:

```
Select package(s) you wish to process (or 'all' to process
all packages). (default: all) [?,??,q]: 8 9 10 4 3 2 1 7 6
```

La instalación de paquetes

El orden elegido corresponde a los paquetes del producto en primer lugar, luego lo correspondiente al manejo de volúmenes, posteriormente la API y finalmente los logs.

El paquete 5 no se instala ya que es para el lenguaje japonés.

Una vez que presionamos la tecla ENTER inicia la copia de los paquetes al sistema, y en algunos casos, muy pocos, tendremos que contestar 'yes' al sistema:

```
Processing package instance <SUNWmdr> from
</var/tmp/sun/DiskSuite_4.2.1/sparc/Packages>

Solstice DiskSuite Drivers
(sparc) 4.2.1,REV=1999.12.03.10.00
Copyright 2000 Sun Microsystems, Inc. All rights reserved.
## Executing checkinstall script.
Using </> as the package base directory.
## Processing package information.
## Processing system information.
    7 package pathnames are already properly installed.
## Verifying package dependencies.
## Verifying disk space requirements.
## Checking for conflicts with packages already installed.
## Checking for setuid/setgid programs.

This package contains scripts which will be executed with super-user
permission during the process of installing this package.

Do you want to continue with the installation of <SUNWmdr> [y,n,?] y

Installing Solstice DiskSuite Drivers as <SUNWmdr>

## Executing preinstall script.
## Installing part 1 of 1.
1015 blocks
/etc/lvm/devpath
/etc/lvm/md.cf
/etc/lvm/md.ctrlmap
/etc/lvm/md.tab
/etc/lvm/mddb.cf
/etc/lvm/runtime.cf
cp
/var/tmp/sun/DiskSuite_4.2.1/sparc/Packages/SUNWmdr/reloc/kernel/drv/md
.conf /kernel/drv/md.conf
[ verifying class <preserve> ]
```

```

## Executing postinstall script.
postinstall: configure driver

                (This may take a while.)
devfsadm: driver failed to attach: md

Installation of <SUNWmdr> was successful.

Processing package instance <SUNWmdu> from
</var/tmp/sun/DiskSuite_4.2.1/sparc/Packages>

Solstice DiskSuite Commands
(sparc) 4.2.1,REV=1999.11.04.18.29
Copyright 2000 Sun Microsystems, Inc. All rights reserved.
## Executing checkinstall script.
Using </> as the package base directory.
## Processing package information.
## Processing system information.
    9 package pathnames are already properly installed.
## Verifying package dependencies.
## Verifying disk space requirements.
## Checking for conflicts with packages already installed.
## Checking for setuid/setgid programs.

This package contains scripts which will be executed with super-user
permission during the process of installing this package.

Do you want to continue with the installation of <SUNWmdu> [y,n,?] y

Installing Solstice DiskSuite Commands as <SUNWmdu>

## Executing preinstall script.
## Installing part 1 of 1.
12882 blocks
## Executing postinstall script.

Installation of <SUNWmdu> was successful.

Processing package instance <SUNWmdx> from
</var/tmp/sun/DiskSuite_4.2.1/sparc/Packages>

Solstice DiskSuite Drivers(64-bit)
(sparc) 4.2.1,REV=1999.11.04.18.29
Copyright 2000 Sun Microsystems, Inc. All rights reserved.
## Executing checkinstall script.
Using </> as the package base directory.
## Processing package information.
## Processing system information.
    5 package pathnames are already properly installed.
## Verifying package dependencies.
## Verifying disk space requirements.
## Checking for conflicts with packages already installed.
## Checking for setuid/setgid programs.

This package contains scripts which will be executed with super-user
permission during the process of installing this package.

```

Do you want to continue with the installation of <SUNWmdx> [y,n,?] y

Installing Solstice DiskSuite Drivers(64-bit) as <SUNWmdx>

```
## Executing preinstall script.
## Installing part 1 of 1.
1346 blocks
## Executing postinstall script.
postinstall: configure driver
```

(This may take a while.)

Installation of <SUNWmdx> was successful.

Processing package instance <SUNWmdg> from
</var/tmp/sun/DiskSuite_4.2.1/sparc/Packages>

```
Solstice DiskSuite Tool
(sparc) 4.2.1,REV=1999.11.04.18.29
Copyright 2000 Sun Microsystems, Inc. All rights reserved.
## Executing checkinstall script.
Using </> as the package base directory.
## Processing package information.
## Processing system information.
 6 package pathnames are already properly installed.
## Verifying package dependencies.
## Verifying disk space requirements.
## Checking for conflicts with packages already installed.
## Checking for setuid/setgid programs.
```

This package contains scripts which will be executed with super-user permission during the process of installing this package.

Do you want to continue with the installation of <SUNWmdg> [y,n,?] y

Installing Solstice DiskSuite Tool as <SUNWmdg>

```
## Executing preinstall script.
## Installing part 1 of 1.
7285 blocks
/usr/lib/lvm/X11/app-defaults/Metatool
/usr/lib/lvm/metatool-toolsmenu
[ verifying class <preserve> ]
## Executing postinstall script.
```

Installation of <SUNWmdg> was successful.

Processing package instance <SUNWlvmr> from
</var/tmp/sun/DiskSuite_4.2.1/sparc/Packages>

```
Solaris Volume Management (root)
(sparc) 1.0,REV=2001.11.14.03.19
Copyright 2001 Sun Microsystems, Inc. All rights reserved.
Using </> as the package base directory.
## Processing package information.
## Processing system information.
 2 package pathnames are already properly installed.
```

```

## Verifying package dependencies.
## Verifying disk space requirements.
## Checking for conflicts with packages already installed.
## Checking for setuid/setgid programs.

Installing Solaris Volume Management (root) as <SUNWlvmr>

## Installing part 1 of 1.
[ verifying class <none> ]
[ verifying class <rbac> ]

Installation of <SUNWlvmr> was successful.

Processing package instance <SUNWlvmg> from
</var/tmp/sun/DiskSuite_4.2.1/sparc/Packages>

Solaris Volume Management Application
(sparc) 1.0,REV=2001.11.14.03.19
Copyright 2001 Sun Microsystems, Inc. All rights reserved.
Using </> as the package base directory.
## Processing package information.
## Processing system information.
    3 package pathnames are already properly installed.
## Verifying package dependencies.
## Verifying disk space requirements.
## Checking for conflicts with packages already installed.
## Checking for setuid/setgid programs.

This package contains scripts which will be executed with super-user
permission during the process of installing this package.

Do you want to continue with the installation of <SUNWlvmg> [y,n,?] y

Installing Solaris Volume Management Application as <SUNWlvmg>

## Installing part 1 of 1.
1777 blocks
## Executing postinstall script.
Included with the Solaris(TM) Operating Environment are additional new
technologies developed by Sun Microsystems and made available for your
evaluation.

These technologies are provided to highlight future functionality
being
developed for the Solaris Operating Environment. Please note any
documentation or descriptive files that call attention to its use.

This software is offered for evaluation purposes only and is not
recommended or intended for commercial, production, or any non-trial
deployment or use. Sun's product warranties do not extend to this
software.

Any and all feedback on this software is welcomed by Sun Microsystems,
Inc.

Missing java developers environment, unable to register services.
After installing the prerequisite packages, run the following

```

```
command to complete the installation.
//usr/sadm/bin/smcconf repository add -f bean //
usr/sadm/lib/volmgr/VVolMgr.jar
```

Installation of <SUNWlvmg> was successful.

```
Processing package instance <SUNWlvma> from
</var/tmp/sun/DiskSuite_4.2.1/sparc/Packages>
```

```
Solaris Volume Management API's
(sparc) 1.0,REV=2001.11.02.03.17
Copyright 2001 Sun Microsystems, Inc. All rights reserved.
Using </> as the package base directory.
## Processing package information.
## Processing system information.
    15 package pathnames are already properly installed.
## Verifying package dependencies.
## Verifying disk space requirements.
## Checking for conflicts with packages already installed.
## Checking for setuid/setgid programs.
```

This package contains scripts which will be executed with super-user permission during the process of installing this package.

Do you want to continue with the installation of <SUNWlvma> [y,n,?] y

Installing Solaris Volume Management API's as <SUNWlvma>

```
## Installing part 1 of 1.
2880 blocks
## Executing postinstall script.
Included with the Solaris(TM) Operating Environment are additional new
technologies developed by Sun Microsystems and made available for your
evaluation.
```

These technologies are provided to highlight future functionality being developed for the Solaris Operating Environment. Please note any documentation or descriptive files that call attention to its use.

This software is offered for evaluation purposes only and is not recommended or intended for commercial, production, or any non-trial deployment or use. Sun's product warranties do not extend to this software.

Any and all feedback on this software is welcomed by Sun Microsystems, Inc.

```
Missing java developers environment, unable to register services.
After installing the prerequisite packages, run the following
command to complete the installation.
//usr/sadm/bin/smcconf repository add -f bean
//usr/sadm/lib/volmgr/SVM.jar
```

Installation of <SUNWlvma> was successful.

```
Processing package instance <SUNWmdnu> from
```

```
</var/tmp/sun/DiskSuite_4.2.1/sparc/Packages>
```

```
Solstice DiskSuite Log Daemon
(sparc) 4.2.1,REV=1999.11.04.18.29
Copyright 2000 Sun Microsystems, Inc. All rights reserved.
## Executing checkinstall script.
Using </> as the package base directory.
## Processing package information.
## Processing system information.
    5 package pathnames are already properly installed.
## Verifying disk space requirements.
## Checking for conflicts with packages already installed.
## Checking for setuid/setgid programs.
```

This package contains scripts which will be executed with super-user permission during the process of installing this package.

Do you want to continue with the installation of <SUNWmdnu> [y,n,?] y

Installing Solstice DiskSuite Log Daemon as <SUNWmdnu>

```
## Installing part 1 of 1.
742 blocks
## Executing postinstall script.
```

Installation of <SUNWmdnu> was successful.

```
Processing package instance <SUNWmdnr> from
</var/tmp/sun/DiskSuite_4.2.1/sparc/Packages>
```

```
Solstice DiskSuite Log Daemon Configuration Files
(sparc) 4.2.1,REV=1999.11.04.18.29
Copyright 2000 Sun Microsystems, Inc. All rights reserved.
## Executing checkinstall script.
Using </> as the package base directory.
## Processing package information.
## Processing system information.
    4 package pathnames are already properly installed.
## Verifying disk space requirements.
## Checking for conflicts with packages already installed.
## Checking for setuid/setgid programs.
```

This package contains scripts which will be executed with super-user permission during the process of installing this package.

Do you want to continue with the installation of <SUNWmdnr> [y,n,?] y

Installing Solstice DiskSuite Log Daemon Configuration Files as <SUNWmdnr>

```
## Executing preinstall script.
## Installing part 1 of 1.
2 blocks
/etc/lvm/mdlogd.cf
[ verifying class <preserve> ]
## Executing postinstall script.
```

Installation of <SUNWmdnr> was successful.

Concluye el proceso de instalación

Una vez que se han instalado todos los paquetes y no vimos ningún mensaje de error, nos aparece nuevamente la lista de paquetes a instalar:

Concluye el proceso de instalación de paquetes.

```
The following packages are available:
 1  SUNWlvma      Solaris Volume Management API's
                   (sparc) 1.0,REV=2001.11.02.03.17
 2  SUNWlvmg      Solaris Volume Management Application
                   (sparc) 1.0,REV=2001.11.14.03.19
 3  SUNWlvmr      Solaris Volume Management (root)
                   (sparc) 1.0,REV=2001.11.14.03.19
 4  SUNWmdg      Solstice DiskSuite Tool
                   (sparc) 4.2.1,REV=1999.11.04.18.29
 5  SUNWmdja      Solstice DiskSuite Japanese localization
                   (sparc) 4.2.1,REV=1999.12.09.15.37
 6  SUNWmdnr      Solstice DiskSuite Log Daemon Configuration Files
                   (sparc) 4.2.1,REV=1999.11.04.18.29
 7  SUNWmdnu      Solstice DiskSuite Log Daemon
                   (sparc) 4.2.1,REV=1999.11.04.18.29
 8  SUNWmdr      Solstice DiskSuite Drivers
                   (sparc) 4.2.1,REV=1999.12.03.10.00
 9  SUNWmdu      Solstice DiskSuite Commands
                   (sparc) 4.2.1,REV=1999.11.04.18.29
10  SUNWmdx      Solstice DiskSuite Drivers(64-bit)
                   (sparc) 4.2.1,REV=1999.11.04.18.29
```

```
Select package(s) you wish to process (or 'all' to process
all packages). (default: all) [?,??,q]: q
```

Le indicamos al sistema que ya queremos salir con la letra “q” y posteriormente veremos un mensaje importante. El cual nos indica que debemos reiniciar el equipo:

```
*** IMPORTANT NOTICE ***
This machine must now be rebooted in order to ensure
sane operation. Execute
    shutdown -y -i6 -g0
and wait for the "Console Login:" prompt.
```

Reiniciar el equipo

Entonces procedemos a reiniciar el equipo tal como nos lo recomienda el proceso de instalación y esperamos a que el equipo levante.

```
# shutdown -y -i6 -g0
Shutdown started.    Tue Oct  9 21:17:06 CDT 2007
Changing to init state 6 - please wait
Broadcast Message from root (console) on server-unix Tue Oct  9
21:17:07...
THE SYSTEM server-unix IS BEING SHUT DOWN NOW ! ! !
Log off now or risk your files being damaged

showmount: server-unix: RPC: Program not registered
#
INIT: New run level: 6
The system is coming down.  Please wait.
System services are now being stopped.
Print services stopped.
Oct  9 21:17:18 server-unix syslogd: going down on signal 15
The system is down.
syncing file systems... done
rebooting...
Resetting...
```

Lo que sigue...

Ahora que ya está instalado Disk Suite, se puede iniciar a construir los metadispositivos.
Actividad que se describe en otro procedimiento.