



# Sample post-scripts

## SnapManager Oracle

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# Sample post-scripts

You can refer the sample scripts and create customized scripts based on your environment to perform mirroring and vaulting. The sample scripts are available at `default_install_directory\plugins\backup\create\post`.

## Mirror\_the\_backup.cmd

If you are using Data ONTAP operating in 7-Mode, you can use this sample script to mirror the backup. It includes three operations (check, describe, and execute) and executes them at the end of the script. The script also includes error message handling with codes of 0 to 4 and > 4:

```
@echo off
REM $Id:
//depot/prod/capstan/main/src/plugins/windows/examples/backup/create/post/
Mirror_the_backup.cmd#1 $
REM
REM Copyright \(c\) 2011 NetApp, Inc.
REM All rights reserved.
REM
REM
REM This is a sample post-task script to mirror the volumes to the
secondary storage after successful backup operation.
REM|-----|
-----|
REM| Pre-requisite/Assumption:
|
REM| SnapMirror relationship for the requested secondary storage volumes
must be configured in Secondary storage. |
REM|-----|
-----|
REM
REM
REM This script can be used from the SnapManager graphical user interface
(GUI) and command line interface (CLI).
REM
REM To execute the post-task script for the backup operation from
SnapManager GUI, follow these steps:
REM 1. From the Backup wizard > Task Specification page > Post-Tasks tab
> select the post-task scripts from the Available Scripts section.
REM
REM
REM To execute the post-task script for the backup operation from
SnapManager CLI, follow these steps:
REM 1. create a task specification XML file.
REM 2. Add the post-script name in the <post-tasks> tag of the XML file.
```

```

REM
REM Example:
REM          <post-tasks>
REM          <task>
REM          <name>Mirror the backup</name>
REM          <description>Mirror the backup</description>
REM          </task>
REM          </post-tasks>
REM
REM
REM
REM IMPORTANT NOTE: This script is provided for reference only. It has
been tested with SnapDrive 6.3.0 for Windows but may not work in all
environments. Please review and then customize based on your secondary
protection requirements.
REM
set /a EXIT=0
set name="Mirror the backup"
set description="Mirror the backup"
set parameter=()

if /i "%1" == "-check" goto :check
if /i "%1" == "-execute" goto :execute
if /i "%1" == "-describe" goto :describe

:usage
    echo usage: %0 ^{ -check ^| -describe ^| -execute ^}
    set /a EXIT=99
    goto :exit

:check
    set /a EXIT=0
    goto :exit

:describe
    echo SM_PI_NAME:%name%
    echo SM_PI_DESCRIPTION:%description%
    echo SM_PRIMARY_MOUNT_POINTS : %SM_PRIMARY_MOUNT_POINTS%
    set /a EXIT=0
    goto :exit

REM - Split the comma-separated PRIMARY_MOUNT_POINTS and Mirror the
PRIMARY_MOUNT_POINTS one-by-one.

:execute

```

```

set /a EXIT=0

echo "execution started"

REM FOR %%G IN (%SM_PRIMARY_MOUNT_POINTS%) DO echo %%G

FOR %%V IN (%SM_PRIMARY_MOUNT_POINTS%) DO sdcli snap update_mirror
-d %%V

if "%ERRORLEVEL%" NEQ "0" (
    set /a EXIT=4
    exit /b %EXIT%
)

echo "execution ended"

goto :exit

:exit
echo Command complete.
exit /b %EXIT%

```

## Vault\_the\_backup.cmd

If you are using Data ONTAP operating in 7-Mode, you can use this sample script to vault the backup. It includes three operations (check, describe, and execute) and executes them at the end of the script. The script also includes error message handling with codes of 0 to 4 and > 4:

```

@echo off
REM $Id:
//depot/prod/capstan/main/src/plugins/windows/examples/backup/create/post/
Vault_the_backup.cmd#1 $
REM
REM Copyright \(\c\) 2011 NetApp, Inc.
REM All rights reserved.
REM
REM
REM This is a sample post-task script to vault the qtrees to the secondary
storage after successful backup operation.
REM|-----|
|-----|
REM| Pre-requisite/Assumption:
|
REM| SnapVault relationship for the requested secondary storage qtrees
must be configured in Secondary storage. |
REM|-----|

```

```

-----|
REM
REM
REM This script can be used from the SnapManager graphical user interface
(GUI) and command line interface (CLI).
REM
REM To execute the post-task script for the backup operation from
SnapManager GUI, follow these steps:
REM 1. From the Backup wizard > Task Specification page > Post-Tasks tab
> select the post-task scripts from the Available Scripts section.
REM
REM
REM To execute the post-task script for the backup operation from
SnapManager CLI, follow these steps:
REM 1. create a task specification XML file.
REM 2. Add the post-script name in the <post-tasks> tag of the XML file.
REM
REM Example:
REM          <post-tasks>
REM              <task>
REM                  <name>Vault the backup</name>
REM                  <description>Vault the backup</description>
REM              </task>
REM          </post-tasks>
REM
REM IMPORTANT NOTE: This script is provided for reference only. It has
been tested with SnapDrive 6.3.0 for Windows but may not work in all
environments. Please review and then customize based on your secondary
protection requirements.
REM
REM
REM
REM
REM
set /a EXIT=0
set name="Vault the backup"
set description="Vault the backup"
set parameter=()

if /i "%1" == "-check" goto :check
if /i "%1" == "-execute" goto :execute
if /i "%1" == "-describe" goto :describe

:usage

```

```

echo usage: %0 ^{ -check ^| -describe ^| -execute ^}
set /a EXIT=99
goto :exit

:check
set /a EXIT=0
goto :exit

:describe
echo SM_PI_NAME:%name%
echo SM_PI_DESCRIPTION:%description%
echo SM_PRIMARY_SNAPSHOTS_AND_MOUNT_POINTS :
%SM_PRIMARY_SNAPSHOTS_AND_MOUNT_POINTS%
set /a EXIT=0
goto :exit

REM Split the colon-separated SM_PRIMARY_SNAPSHOTS_AND_MOUNT_POINTS And
SnapVault the mountpoints one-by-one

:execute
set /a EXIT=0

echo "execution started"

FOR %%A IN (%SM_PRIMARY_SNAPSHOTS_AND_MOUNT_POINTS%) DO FOR /F
"tokens=1,2 delims=:" %%B IN ("%%A") DO sdcli snapvault archive -a %%B
-DS %%C %%B

if "%ERRORLEVEL%" NEQ "0" (
set /a EXIT=4
exit /b %EXIT%
)
echo "execution ended"

goto :exit

:exit
echo Command complete.
exit /b %EXIT%

```

## Mirror\_the\_backup\_cDOT.cmd

If you are using clustered Data ONTAP, you can use this sample script to mirror the backup. It includes three operations (check, describe, and execute) and executes them at the end of the script. The script also includes error message handling with codes of 0 to 4 and > 4:

```

@echo off
REM $Id:
//depot/prod/capstan/main/src/plugins/windows/examples/backup/create/post/
Mirror_the_backup_cDOT.cmd#1 $
REM
REM Copyright \(\c\) 2011 NetApp, Inc.
REM All rights reserved.
REM
REM
REM This is a sample post-task script to mirror the volumes to the
secondary storage after successful backup operation.
REM|-----|
|-----|
REM| Pre-requisite/Assumption:
|
REM| SnapMirror relationship should be set for the primary volumes and
secondary volumes |
REM|-----|
|-----|
REM
REM
REM This script can be used from the SnapManager graphical user interface
(GUI) and command line interface (CLI).
REM
REM To execute the post-task script for the backup operation from
SnapManager GUI, follow these steps:
REM 1. From the Backup wizard > Task Specification page > Post-Tasks tab
> select the post-task scripts from the Available Scripts section.
REM
REM
REM To execute the post-task script for the backup operation from
SnapManager CLI, follow these steps:
REM 1. create a task specification XML file.
REM 2. Add the post-script name in the <post-tasks> tag of the XML file.
REM
REM Example:
REM          <preposttask-specification xmlns="http://www.netapp.com">
REM          <task-specification>
REM          <post-tasks>
REM          <task>
REM          <name>"Mirror the backup for cDOT"</name>
REM          </task>
REM          </post-tasks>
REM          </task-specification>
REM          </preposttask-specification>
REM

```



```

REM
REM
REM IMPORTANT NOTE: This script is provided for reference only. It has
been tested with SnapDrive 7.0 for Windows but may not work in all
environments. Please review and then customize based on your secondary
protection requirements.
REM
set /a EXIT=0
set name="Mirror the backup cDOT"
set description="Mirror the backup cDOT"
set parameter=()

if /i "%1" == "-check" goto :check
if /i "%1" == "-execute" goto :execute
if /i "%1" == "-describe" goto :describe

:usage
    echo usage: %0 ^{ -check ^| -describe ^| -execute ^}
    set /a EXIT=99
    goto :exit

:check
    set /a EXIT=0
    goto :exit

:describe
    echo SM_PI_NAME:%name%
    echo SM_PI_DESCRIPTION:%description%
    set /a EXIT=0
    goto :exit

REM - Split the comma-separated SM_PRIMARY_MOUNT_POINTS then Mirror the
PRIMARY_MOUNT_POINTS one-by-one.

:execute
    set /a EXIT=0

    echo "execution started"

    REM FOR %%G IN (%SM_PRIMARY_MOUNT_POINTS%) DO powershell.exe -file
"c:\snapmirror.ps1" %%G < CON

    powershell.exe -file "c:\snapmirror.ps1"
%SM_PRIMARY_FULL_SNAPSHOT_NAME_FOR_TAG% < CON

```

```

    if "%ERRORLEVEL%" NEQ "0" (
        set /a EXIT=4
        exit /b %EXIT%
    )

    echo "execution ended"

    goto :exit

:exit
    echo Command complete.
    exit /b %EXIT%

```

## Vault\_the\_backup\_cDOT.cmd

If you are using clustered Data ONTAP, you can use this sample script to vault the backup. It includes three operations (check, describe, and execute) and executes them at the end of the script. The script also includes error message handling with codes of 0 to 4 and > 4:

```

@echo off
REM $Id:
//depot/prod/capstan/main/src/plugins/windows/examples/backup/create/post/
Vault_the_backup_cDOT.cmd#1 $
REM
REM Copyright \(c\) 2011 NetApp, Inc.
REM All rights reserved.
REM
REM
REM This is a sample post-task script to do vault update to the secondary
storage after successful backup operation.
REM|-----|
|-----|
REM| Pre-requisite/Assumption:
|
REM| Vaulting relationship with policy and rule needs to be established
between primary and secondary storage volumes |
REM|-----|
|-----|
REM
REM
REM This script can be used from the SnapManager graphical user interface
(GUI) and command line interface (CLI).
REM
REM To execute the post-task script for the backup operation from

```

SnapManager GUI, follow these steps:

REM

REM 1. From the Backup wizard > Task Specification page > Post-Tasks tab > select the post-task scripts from the Available Scripts section.

REM 2. You can view the parameters available in the post-task script in the Parameter section of the Task Specification page.

REM 3. Provide values to the following parameters:

REM       SNAPSHOT\_LABEL       - Label Name to be set for snapshots before doing the vault update

REM

REM FOR WINDOWS ITS ADVISED TO USE THE post-task script FROM THE GUI BY SAVING THE BELOW SPEC XML AND GIVING THIS IN THE GUI LOAD XML FILE .

REM

REM To execute the post-task script for the backup operation from SnapManager CLI, follow these steps:

REM 1. create a task specification XML file.

REM 2. Add the post-script name in the <post-tasks> tag of the XML file .

REM Example:

```
REM                   <preposttask-specification xmlns="http://www.netapp.com">
```

```
REM                    <task-specification>
```

```
REM                      <post-tasks>
```

```
REM                        <task>
```

```
REM                          <name>"Vault the backup for cDOT"</name>
```

```
REM                          <parameter>
```

```
REM                            <name>SNAPSHOT_LABEL</name>
```

```
REM                            <value>TST</value>
```

```
REM                          </parameter>
```

```
REM                        </task>
```

```
REM                      </post-tasks>
```

```
REM                    </task-specification>
```

```
REM                    </preposttask-specification>
```

REM

REM

REM IMPORTANT NOTE: This script is provided for reference only. It has been tested with SnapDrive 7.0.0 for Windows but may not work in all environments.

Please review and then customize based on your secondary protection requirements.

REM

REM

REM Need to take care of the parameter variable, its not like shell script array handling, so declare a new variable

REM for one more argument and set that variable SM\_PI\_PARAMETER in the describe method. Then only that variable will be

REM Visible in the GUI task specification wizard else it wont list.

```

set /a EXIT=0
set name="Vault the backup for cDOT"
set description="Vault the backup For cDOT volumes"
set parameter=SNAPSHOT_LABEL :

if /i "%1" == "-check" goto :check
if /i "%1" == "-execute" goto :execute
if /i "%1" == "-describe" goto :describe

:usage
    echo usage: %0 ^{ -check ^| -describe ^| -execute ^}
    set /a EXIT=99
    goto :exit

:check
    set /a EXIT=0
    goto :exit

:describe
    echo SM_PI_NAME:%name%
    echo SM_PI_DESCRIPTION:%description%
    echo SM_PI_PARAMETER:%parameter%

    set /a EXIT=0
    goto :exit

REM Split the colon-separated SM_PRIMARY_SNAPSHOTS_AND_MOUNT_POINTS And
SnapVault the mountpoints one-by-one

:execute
    set /a EXIT=0

    echo "execution started"

    powershell.exe -file "c:\snapvault.ps1"
%SM_PRIMARY_FULL_SNAPSHOT_NAME_FOR_TAG% %SNAPSHOT_LABEL% < CON

    if "%ERRORLEVEL%" NEQ "0" (
        set /a EXIT=4
        exit /b %EXIT%
    )
    echo "execution ended"

    goto :exit

:exit
    echo Command complete.

```

```
exit /b %EXIT%
```

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