



# Viewing sample plug-in scripts

## SnapManager Oracle

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# Viewing sample plug-in scripts

SnapManager includes scripts that you can use as examples for how to make your own scripts or as a basis for your custom scripts.

You can find the sample plug-in scripts at the following location:

- <default\_install\_directory>\plugins\examples\backup\create
- <default\_install\_directory>\plugins\examples\clone\create
- <default\_install\_directory>\plugins\windows\examples\backup\create\post

The directory that contains the sample plug-in scripts includes the following subdirectories:

- policy: Contains scripts that, when configured, always run on the clone operation.
- pre: Contains scripts that, when configured, run before the clone operation.
- post: Contains scripts that, when configured, run after the clone operation.

The following table describes the sample scripts:

Script name	Description	Type of script
validate_sid.sh	Contains additional checks to the SID used on the target system. The script checks that the SID has the following characteristics: <ul style="list-style-type: none"><li>• Contains three alphanumeric characters</li><li>• Begins with a letter</li></ul>	Policy
cleanup.sh	Cleans the target system so that it is ready to store the newly created clone. Preserves or deletes files and directories depending on the need.	Pretask
Mirror_the_backup.cmd	Mirrors the volumes after the backup operation occurs in a Windows environment when you are using either Data ONTAP operating in 7-Mode.	Post-task
Vault_the_backup.cmd	Vaults the qtrees after the backup operation occurs in a Windows environment when you are using either Data ONTAP operating in 7-Mode.	Post-task

Mirror_the_backup_cDOT.cmd	Mirrors the volumes after the backup operation occurs in a Windows environment when you are using clustered Data ONTAP.	Post-task
Vault_the_backup_cDOT.cmd	Vaults the qtrees after the backup operation occurs in a Windows environment when you are using clustered Data ONTAP.	Post-task

Scripts delivered with SnapManager use the BASH shell by default. You must ensure that support for the BASH shell is installed on your operating system before attempting to run any of the sample scripts.

1. To verify that you are using the BASH shell, enter the following command at the command prompt: `bash`

If you do not see an error, the BASH shell is operating properly.

Alternately, you can enter the `which-bash` command at the command prompt.

2. Locate the script in the following directory:

```
<installdir>\plugins\examples\clone\create
```

3. Open the script in a script editor such as `vi`.

## Sample script

The following sample custom script validates database SID names and prevents invalid names from being used in the cloned database. It includes three operations (check, describe, and execute), which are called after you run the script. The script also includes error message handling with codes 0, 4 and >4.

```
@echo off
REM $Id:
//depot/prod/capstan/Rcapstan_ganges/src/plugins/windows/examples/clone/create/policy/validate_sid.cmd#1 $
REM $Revision: #1 $ $Date: 2011/12/06 $
REM
REM

set /a EXIT=0

set name="Validate SID"
set description="Validate SID used on the target system"
set parameter=()

rem reserved system IDs
set INVALID_SIDS=("ADD" "ALL" "AND" "ANY" "ASC" "COM" "DBA" "END" "EPS"
"FOR" "GID" "IBM" "INT" "KEY" "LOG" "MON" "NIX" "NOT" "OFF" "OMS" "RAW"
"ROW" "SAP" "SET" "SGA" "SHG" "SID" "SQL" "SYS" "TMP" "UID" "USR" "VAR")
```

```

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

:execute
    set /a EXIT=0

    rem SM_TARGET_SID must be set
    if "%SM_TARGET_SID%" == "" (
        set /a EXIT=4
        echo SM_TARGET_SID not set
        goto :exit
    )

    rem exactly three alphanumeric characters, with starting with a letter
    echo %SM_TARGET_SID% | findstr "\<[a-zA-Z][a-zA-Z0-9][a-zA-Z0-9]\>"
>nul
    if %ERRORLEVEL% == 1 (
        set /a EXIT=4
        echo SID is defined as a 3 digit value starting with a letter.
[%SM_TARGET_SID%] is not valid.
        goto :exit
    )

    rem not a SAP reserved SID
    echo %INVALID_SIDS% | findstr /i "\"%SM_TARGET_SID%">nul
    if %ERRORLEVEL% == 0 (
        set /a EXIT=4
        echo SID [%SM_TARGET_SID%] is reserved by SAP
        goto :exit
    )

```

```
)  
  
goto :exit  
  
:exit  
echo Command complete.  
exit /b %EXIT%
```

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