

**NetApp Scripting at Thomson Reuters**

**Synopsis:** This document details the frequently used scripts developed by NetApp and used in the Thomson Reuters environment.

**Authors:** Michael Arndt (arndt@netapp.com)

**Contributors:** Mitchell Vallone, Ken Zola, Ian Daniel, Riley Johnson

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# Scripts used with 7 Mode

## lun\_snapvault\_update.pl and lun\_snapvault\_cleanup.pl

These scripts are used to perform snapvault updates in the WISP environment, and to cleanup old snapshots on the snapvault secondary systems, respectively. In 7 Mode, we must do this via scripts in order to vault the snapshots created by SMSQL. The scripts are scheduled to run via */etc/crontab* jobs on all 7 Mode DFM servers, and are installed in the */filers/admin/scripts/support* directory. The scripts are written in Perl.

## sdcli\_snapvault

This script can be used by SQL Server administrators to initiate snapvault backups on an ad-hoc basis. The script is written in Perl, but packaged as a Windows executable and is run as required by SQL Servers DBAs, on the SQL Server systems.

## wisp\_sv\_check.pl

This script can be used to check that a given vfiler is properly configured for snapvault in the WISP environment. The script is written in Perl, and is installed in */dfm/netapp/scripts* on 7 Mode DFM servers.

## stats\_harvester.sh and stats\_show.pl

The stats\_harvester.sh script is a shell script that gathers 7 Mode granular performance data. The stats\_show.pl script is written in Perl, and can be used to translate the data gathered by stats\_harvester.sh into CSV format. These scripts are installed on all 7 Mode DFM servers in the */filers/admin/scripts/support* directory, and stats\_harvester.sh is scheduled via */etc/crontab*.

## netapp\_rc\_check.pl

This script is used to verify that the stored configuration of a given 7 Mode controller matches the running configuration. The script is written in Perl, and is installed on all DFM servers in the */filers/admin/scripts/support* directory. This script is often used prior to storage maintenance work that involves takeover and giveback, in order to help verify that the maintenance will not cause outages due to a misconfiguration.

## perfstat\_loop.sh

This script can be used to gather NetApp Perfstat in a continuous fashion for 7 Mode systems. It is installed on the 7 Mode DFM servers in the */filers/admin/scripts/support* directory, and it used in an as needed fashion by storage administrators. This is written as a shell script.

# Scripts used with cDOT

## wlstats and cdot\_stats\_harvester.sh

The wlstats script is written in Perl, but packaged as a Linux executable to avoid dependencies on the NetApp Perl modules that it requires. It is installed on cDOT DFM servers in the */filers/admin/scripts/support* directory, and it gathers cDOT performance data. The wlstats script is called by the cdot\_stats\_harvester.sh wrapper, which is written as a shell script. The cdot\_stats\_harvester.sh script is called via */etc/crontab*. The wlstats script is available to all NetApp customers via the NetApp Community site at the following link:

<https://communities.netapp.com/docs/DOC-29904>

## cdot\_perfstat\_loop.sh

This script can be used to gather perfstat in a continuous fashion for cDOT systems. It is installed on the cDOT DFM servers in the */filers/admin/scripts/support* directory, and it used in an as needed fashion by storage administrators. This is written as a shell script.

# Miscellaneous scripts

## VMDKMounter for Windows and Linux

The VMDKmounter scripts were written to allow the restores of single files from VMDKs. There are both Windows and Linux versions of this utility. These are very rarely, if ever, still used in the TR environment, but they would be leveraged by the Windows and Linux support teams respectively. The Windows version has limitations in that it does not work with GPT style partition types, due to the lack of support for this by a VMware utility that is used by the script. Both the Linux and Windows versions will work with 7 Mode or cDOT.

The Windows version is written as a .hta file that comes in a Windows installable package. This utility was then modified by TR desktop support to operate the way that they wanted to use it in the TR environment. The Linux version is written as a Perl script, but packaged as a Linux executable to avoid dependencies on the NetApp Perl modules that it requires. These scripts are available to all NetApp customers via the NetApp Community site at the following link:

<https://communities.netapp.com/docs/DOC-4865>

## wfa\_workflow\_cli

The wlstats script is written in Perl, but packaged as a Linux executable to avoid dependencies on the NetApp Perl modules that it requires. It is called as needed, in order to execute WFA workflows that need to be run many times. This can be used for 7 Mode or cDOT workflows, and can be installed on any Linux system. This script is available to all NetApp customers via the NetApp Community site at the following link:

<https://communities.netapp.com/docs/DOC-33448>

# Document details

## Change History

|  |  |  |  |
| --- | --- | --- | --- |
| **Ver** | **Date** | **Author** | **Key Changes** |
| 1 | July 2014 | Michael Arndt | Initial Version |
| 2 | July 2014 | Michael Arndt | Added vmkdmounter scripts, as well as links to scripts that are posted on NetApp Community site. |

## Distribution List

|  |  |
| --- | --- |
| **Name** | **Role** |
| Brett Truhler | Customer |
| Stewart Bird | Customer |
| Mitchell Vallone | Reviewer |
| Ken Zola | Reviewer |
| Ian Daniel | Reviewer |
| Riley Johnson | Reviewer |