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2018.06.04 15:57:14 Starting sadmlib std demo.sh V3.3 - SADM Lib. V2.27
2018.06.04 15:57:14 Server Name: holmes.maison.ca - Type: LINUX
2018.06.04 15:57:14 0/S: CENTOS 7.5.1804 - Code Name: Core
2018.06.04 15:57:14
sadmlib std demo.sh v3.3 - Library v2.27
User Var. that affect SADMIN behavior Description
                                                                        This System Result
[001] $SADM VER
                                    Script Version Number
                                    Script Name Without Extension
Current User Name

Script Name
Current User Name

Current User Name

Current User Name

Current User Name

Current User Name
[002] $SADM PN
[003] $SADM INST
                                    Current User Name
Current Process ID
[004] $SADM USERNAME
                                    Current Process ID : .18293.
Allow running multiple copy : .N.
Gen. entry in .rch file : .Y.
[005] $SADM TPID
[006] $SADM MULTIPLE EXEC
[007] $SADM USE RCH
[008] $SADM LOG TYPE
                                    Set Output to [S]creen [L]og [B]oth : .B.
[009] $SADM LOG APPEND
                                    Append Log or Create New One : .N.
[010] $SADM LOG HEADER
                                    Generate Header in log
                                                                     : .Y.
[011] $SADM LOG FOOTER
                                                                   : .Y.
: .0.
                                    Generate Footer in log
[012] $SADM_EXIT_CODE
                                    Script Exit Return Code
_______
sadmlib std demo.sh v3.3 - Library v2.27
Calling Functions
                                    Description
                                                                        This System Result
______
[001] $(sadm get release)
                                    SADMIN Release Number (XX.XX)
                                                                       : .0.86.
[002] $(sadm get ostype)
                                    OS Type (Uppercase, LINUX, AIX, DARWIN): .LINUX.
[003] $(sadm get osversion)
                                    Return O/S Version (Ex: 7.2, 6.5) : .7.5.1804.
[004] $(sadm get osmajorversion)
                                    Return O/S Major Version (Ex 7, 6) : .7.
[005] $(sadm get osminorversion)
                                    Return O/S Minor Version (Ex 2, 3) : .5.
[006] $(sadm get osname)
                                    O/S Name (REDHAT, CENTOS, UBUNTU....) : .CENTOS.
                                    0/S Project Code Name : .Core.
0/S Running Kernel Version : .3.10.0-862.
0/S Kernel Bit Mode (32 or 64) : .64.
Current Host Name
[007] $(sadm get oscodename)
[008] $(sadm get kernel version)
[009] $(sadm get kernel bitmode)
[010] $(sadm get hostname)
                                    Current Host Name
                                                                     : .holmes.
[011] $(sadm get host ip)
                                                                   : .192.168.1.12.
                                    Current Host IP Address
[012] $(sadm_get_domainname)
                                    Current Host Domain Name : .maison.ca. Fully Qualified Domain Host Name : .holmes.maison.ca.
[013] $(sadm get fqdn)
[014] $(sadm get epoch time)
                                    Get Current Epoch Time : .1528142234.
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[015] $(sadm epoch to date 1528142234) Convert epoch time to date
                                                                   : .2018.06.4 15:57:14.
     WDATE='2018.06.4 15:57:14'
[016] $(sadm date to epoch "$WDATE")
                                   Convert Date to epoch time : .1528142234.
     DATE1='2016.01.30 10:00:44'
     DATE2='2016.01.30 10:00:03'
[017] $(sadm_elapse "$DATE1" "$DATE2") Elapse Time between two timestamps : .00:00:41.
sadmlib std demo.sh v3.3 - Library v2.27
SADMIN Bash Shell Specific Functions Description
                                                                      This System Result
______
                                   Host is Physical or Virtual (P/V) : .P.
[001] $(sadm server type)
[002] $(sadm server model)
                                   Server model (Ex: HP ProLiant DL580): .OptiPlex 7020.
                                   Server serial number (Ex: 4S7GYF1) : .BJSV942.
[003] $(sadm server serial)
[004] $(sadm server memory)
                                   Server total memory in MB (Ex: 3790): .7730.
[005] $(sadm server hardware bitmode)
                                   CPU Hardware capable of 32/64 bits : .64.
[006] $(sadm server nb logical cpu)
                                   Number of Logical CPU on server : .4.
[007] $(sadm server nb cpu)
                                   Number of Physical CPU on server : .1.
[008] $(sadm server nb socket)
                                   Number of socket on server : .1.
[009] $(sadm server core per socket)
                                   Number of Core per Socket
                                                                   : .4.
[010] $(sadm server thread per core)
                                   Number of Thread per Core
                                                                   : .1.
[011] $(sadm server cpu speed)
                                   Server CPU Speed in MHz
                                                                    : .3435.
                                   Disks list(MB) (DISKNAME|SIZE,...) : .sda|512000,sdb|1024000.
[012] $(sadm server disks)
[013] $(sadm_server_vg)
                                   VG list(MB) (VGNAME|SIZE|USED|FREE) : .rootvg|476426|374999|101427.
                                   Network IP(Name|IP|Netmask|MAC) : .em1|192.168.1.12|255.255.25.0|
[014] $(sadm server ips)
98:90:96:b7:64:a2,em1:1|192.168.1.20|255.255.255.0|98:90:96:b7:64:a2,em1:2|192.168.1.68|255.255.255.0|
98:90:96:b7:64:a2,em1:3|192.168.1.13|255.255.255.0|98:90:96:b7:64:a2,em1:4|192.168.1.6|255.255.255.0|
98:90:96:b7:64:a2,em1:5|192.168.1.23|255.255.255.0|98:90:96:b7:64:a2,em1:6|192.168.1.126|255.255.255.0|
98:90:96:b7:64:a2.em1:7|192.168.1.28|255.255.255.0|98:90:96:b7:64:a2.
[015] sadm_toupper string Return string uppercase : .STRING.
[016] sadm tolower STRING Return string lowercase : .string.
sadmlib std demo.sh v3.3 - Library v2.27
Overview of sadm start and sadm stop function
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Example of utilisation:
# sadm start
                                                 # Init Env Dir & RC/Log File
# if [$? -ne 0]; then sadm stop 1; exit 1;fi # Exit if Problem
# main process
                                                 # Main Process
# SADM EXIT CODE=$?
                                                 # Save Error Code
# sadm stop $SADM EXIT CODE
                                                 # Close SADM Tool & Upd RCH
```

sadm stop

Accept one parameter - Either 0 (Successfull) or non-zero (Error Encountered) Please call this function just before your script end What this function do.

- 1) If Exit Code is not zero, change it to 1.
- 2) Get Actual Time and Calculate the Execution Time.
- 3) Writing the Script Footer in the Log (Script Return code, Execution Time, ...)
- 4) Update the RCH File (Start/End/Elapse Time and the Result Code)
- 5) Trim The RCH File Based on User choice in sadmin.cfg
- 6) Write to Log the user mail alerting type choose by user (sadmin.cfg)
- 7) Trim the Log based on user selection in sadmin.cfg
- 8) Send Email to sysadmin (if user selected that option in sadmin.cfg)
- 9) Delete the PID File of the script (SADM PID FILE)
- 10) Delete the User 3 TMP Files (SADM TMP FILE1, SADM TMP FILE2, SADM TMP FILE3)

sadmlib std demo.sh v3.3 - Library v2.27 SADMIN CONFIG FILE VARIABLES Description This System Result [001] \$SADM SERVER SADMIN SERVER NAME (FODN) : .holmes.maison.ca. [002] \$SADM HOST TYPE SADMIN [C]lient or [S]erver : .S. [003] \$SADM MAIL ADDR SADMIN Administrator Default Email : .duplessis.jacques@gmail.com. [004] \$SADM MAIL TYPE 0=NoMail 1=OnError 3=OnSuccess 4=All: .1. [005] \$SADM CIE NAME Your Company Name : .Batcave. Server Creation Default Domain [006] \$SADM DOMAIN : .maison.ca. [007] \$SADM USER SADMIN User Name : .sadmin. [008] \$SADM GROUP SADMIN Group Name : .sadmin.

[009]	\$SADM_WWW_USER \$SADM_WWW_GROUP \$SADM_DBNAME \$SADM_DBHOST \$SADM_BPORT \$SADM_RW_DBUSER \$SADM_RW_DBPWD \$SADM_RO_DBUSER \$SADM_RO_DBUSER \$SADM_RO_DBPWD \$SADM_RRD_DBPWD	User that Run Apache Web Server :	.apache.
[010]	\$SADM_WWW_GROUP	Group that Run Apache Web Server :	.apache.
[011]	\$SADM_DBNAME	SADMIN Database Name :	.sadmin.
[012]	\$SADM_DBHOST	SADMIN Database Host :	.sadmin.maison.ca.
[013]	\$SADM_DBPORT	SADMIN Database Name : SADMIN Database Host : SADMIN Database Host TCP Port :	.3306.
[014]	\$SADM_RW_DBUSER	SADMIN Database Read/Write User :	.sadmin.
[015]	\$SADM_RW_DBPWD	SADMIN Database Read/Write User Pwd :	
[016]	\$SADM_RO_DBUSER	SADMIN Database Read Only User :	
[017]	\$SADM_RO_DBPWD	SADMIN Database Read Only User Pwd :	.Query18!.
[018]	\$SADM_RRDTOOL	RRDTOOL Binary Location :	./bin/rrdtool.
10131	424011 2211 1 01K1	SSH Port to communicate with client :	
[020]	\$SADM_NMON_KEEPDAYS	Nb. of days to keep nmon perf. file :	.60.
[021]	\$SADM_RCH_KEEPDAYS	Nb. days to keep unmodified rch file:	
	\$SADM_LOG_KEEPDAYS	Nb. days to keep unmodified log file:	
[023]	\$SADM MAX RCLINE	Trim rch file to this max. of lines :	
	\$SADM_MAX_LOGLINE	Trim log to this maximum of lines :	
	\$SADM_NETWORK1	<pre>Network/Netmask 1 inv. IP/Name/Mac :</pre>	
[026]	\$SADM_NETWORK2		
	\$SADM_NETWORK3		
	\$SADM_NETWORK4	<pre>Network/Netmask 4 inv. IP/Name/Mac :</pre>	
	\$SADM_NETWORK5		
	\$SADM_MKSYSB_NFS_SERVER		.batnfs.maison.ca.
	\$SADM MKSYSB NFS MOUNT POINT		./volume1/mksysb.
	\$SADM_MKSYSB_BACKUP_TO_KEEP	ATX MKSYSB NES Backup - Nh to keen .	2
	\$SADM_REAR_NFS_SERVER	Rear NFS Server IP or Name :	.batnas.maison.ca.
	\$SADM REAR NFS MOUNT POINT	Rear NFS Mount Point :	./volume1/Linux DR.
[035]	\$SADM REAR BACKUP TO KEEP	Rear NFS Backup - Nb. to keep :	.3.
[036]	\$SADM_BACKUP NFS SERVER	NFS Backup IP or Server Name :	.batnas.maison.ca.
[037]	\$SADM BACKUP NFS MOUNT POINT	Rear NFS Server IP or Name : Rear NFS Mount Point : Rear NFS Backup - Nb. to keep : NFS Backup IP or Server Name : NFS Backup Mount Point : NB of Deliver to keep :	./volume1/backup linux.
[038]	\$SADM DAILY BACKUP TO KEEP	ND. OI DAILV DACKUD LO KEED :	
[039]	\$SADM_WEEKLY_BACKUP_TO_KEEP	Nb. of Weekly Backup to keep : Nb. of Monthly Backup to keep : Nb. of Yearly Backup to keep :	.3.
	\$SADM MONTHLY BACKUP TO KEEP	Nb. of Monthly Backup to keep :	.3.
[041]	\$SADM_YEARLY_BACKUP_TO_KEEP	Nb. of Yearly Backup to keep :	.2.
[042]	\$SADM_WEEKLY_BACKUP_DAY	Weekly Backup Day (1=Mon,,7=Sun) :	.5.
[043]	\$SADM MONTHLY BACKUP DATE	Monthly Backup Date (1-28) :	
[044]	\$SADM YEARLY BACKUP MONTH	Month to take Yearly Backup (1-12) :	.12.
[045]	\$SADM_YEARLY_BACKUP_DATE	Date to do Yearly Backup(1-DayInMth):	.31.
	\$SADM_STORIX_NFS_SERVER	Storix NFS Server IP or Name :	.batnas.maison.ca.
	\$SADM_STORIX_NFS_MOUNT_POINT	Storix NFS Server IP or Name : Storix NFS Mount Point :	./volume1/storix.
	\$SADM_STORIX_BACKUP_TO_KEEP		.3.
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SADMIN Root Directory
[001] $SADM BASE DIR
                                                                           : ./sadmin.
                                       SADMIN Scripts Directory
[002] $SADM BIN DIR
                                                                           : ./sadmin/bin.
                                       SADMIN Temporary file(s) Directory : ./sadmin/tmp.
[003] $SADM TMP DIR
[004] $SADM LIB DIR
                                       SADMIN Shell & Python Library Dir. : ./sadmin/lib.
[005] $SADM_LOG_DIR
                                       SADMIN Script Log Directory
                                                                           : ./sadmin/log.
[006] $SADM CFG DIR
                                       SADMIN Configuration Directory
                                                                           : ./sadmin/cfg.
[007] $SADM SYS DIR
                                       Server Startup/Shutdown Script Dir. : ./sadmin/sys.
[008] $SADM DOC DIR
                                       SADMIN Documentation Directory : ./sadmin/doc.
                                       SADMIN Packages Directory
[009] $SADM PKG DIR
                                                                           : ./sadmin/pkg.
[010] $SADM DAT DIR
                                       Server Data Directory
                                                                           : ./sadmin/dat.
[011] $SADM NMON DIR
                                       Server NMON - Data Collected Dir. : ./sadmin/dat/nmon.
[012] $SADM_DR_DIR
                                       Server Disaster Recovery Info Dir. : ./sadmin/dat/dr.
[013] $SADM RCH DIR
                                       Server Return Code History Dir. : ./sadmin/dat/rch.
[014] $SADM_NET_DIR
                                       Server Network Info Dir. : ./sadmin/dat/net.
SYStem MONitor Report Directory : ./sadmin/dat/rpt.
                                       Server Network Info Dir.
[015] $SADM RPT DIR
                                       Database Backup Directory : ./sadmin/dat/dbb.
User/System specific directory : ./sadmin/usr.
[016] $SADM DBB DIR
[017] $SADM_USR_DIR
[018] $SADM UBIN DIR
                                       User/System specific bin/script Dir.: ./sadmin/usr/bin.
[019] $SADM ULIB DIR
                                       User/System specific library Dir. : ./sadmin/usr/lib.
                                       User/System specific documentation : ./sadmin/usr/doc.
[020] $SADM UDOC DIR
                                       User/System specific SysMon Scripts : ./sadmin/usr/mon.
[021] $SADM_UMON_DIR
sadmlib std demo.sh v3.3 - Library v2.27
Server Directories Var. Avail.
                                       Description
                                                                             This System Result
______
[001] $SADM WWW DIR
                                       SADMIN Web Site Root Directory
                                                                           : ./sadmin/www.
                               SADMIN Web Documentation Dir. : ./sadmin/www/doc.
SADMIN Web Site Systems Data Dir. : ./sadmin/www/dat.
SADMIN Web Site PHP Library Dir. : ./sadmin/www/lib.
[002] $SADM_WWW_DOC_DIR
[003] $SADM WWW DAT DIR
[004] $SADM WWW LIB DIR
                                       SADMIN Web Temp Working Directory : ./sadmin/www/tmp.
[005] $SADM WWW TMP DIR
______
sadmlib std demo.sh v3.3 - Library v2.27
SADMIN FILES VARIABLES AVAIL.
                                       Description
                                                                             This System Result
[001] $SADM PID FILE
                                       Current script PID file
                                                                           : ./sadmin/tmp/sadmlib std demo.pid.
                                       SADMIN Configuration File
                                                                           : ./sadmin/cfg/sadmin.cfg.
[002] $SADM CFG FILE
[003] $SADM CFG HIDDEN
                                       SADMIN Initial Configuration File : ./sadmin/cfg/.sadmin.cfg.
                                       User usable Temp Work File 1 : ./sadmin/tmp/sadmlib_std_demo_1.18293.
[004] $SADM TMP FILE1
                                      User usable Temp Work File 2 : ./sadmin/tmp/sadmlib_std_demo_2.18293.
User usable Temp Work File 3 : ./sadmin/tmp/sadmlib_std_demo_3.18293.
[005] $SADM TMP FILE2
[006] $SADM TMP FILE3
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[007] $SADM LOG
                                                                : ./sadmin/log/holmes_sadmlib_std demo.log.
                                 Script Log File
[008] $SADM RCHLOG
                                 Script Return Code History File
                                                                 : ./sadmin/dat/rch/
holmes sadmlib std demo.rch.
[009] $DBPASSFILE
                                 SADMIN Database User Password File : ./sadmin/cfg/.dbpass.
[010] $SADM RPT FILE
                                 SYStem MONitor Report File : ./sadmin/dat/rpt/holmes.rpt.
sadmlib std demo.sh v3.3 - Library v2.27
COMMAND PATH USE BY SADMIN STD. LIBR. Description
                                                                  This System Result
_____
                                 Cmd. 'lsb release', Get O/S Version : ./bin/lsb release.
[001] $SADM LSB RELEASE
[002] $SADM DMIDECODE
                                 Cmd. 'dmidecode', Get model & type : ./sbin/dmidecode.
                                 Cmd. 'facter', Get System Info : ./bin/facter.
[003] $SADM FACTER
                                 Cmd. 'bc', Do some Math. : ./bin/bc.
[004] $SADM BC
                                 Cmd. 'fdisk', Get Partition Info : ./sbin/fdisk.
[005] $SADM FDISK
[006] $SADM WHICH
                                 Cmd. 'which', Get Command location : ./bin/which.
[007] $SADM PERL
                                 Cmd. 'perl', epoch time Calc. : ./bin/perl.
                                 Cmd. 'mail', Send SysAdmin Email : ./bin/mail.
[008] $SADM MAIL
[009] $SADM LSCPU
                                 Cmd. 'lscpu', Socket & thread info : ./bin/lscpu.
[010] $SADM NMON
                                 Cmd. 'nmon', Collect Perf Statistic : ./bin/nmon.
                                 Cmd. 'parted', Get Disk Real Size : ./sbin/parted.
[011] $SADM PARTED
[012] $SADM_ETHTOOL
                                 Cmd. 'ethtool', Get System IP Info : ./sbin/ethtool.
                                 Cmd. 'ssh', SSH to SADMIN client
[013] $SADM SSH
                                                                : ./bin/ssh.
[014] $SADM SSH CMD
                                 Cmd. 'ssh', SSH to Connect to client: ./bin/ssh -qnp32.
2018.06.04 15:57:19
2018.06.04 15:57:19 Script return code is 0
2018.06.04 15:57:19 Script execution time is 00:00:06
2018.06.04 15:57:19 Trim History /sadmin/dat/rch/holmes sadmlib std demo.rch to 125 lines
2018.06.04 15:57:19 User requested mail only if script fail - Will not send mail
2018.06.04 15:57:19 Trim log /sadmin/log/holmes sadmlib std demo.log to 2000 lines
2018.06.04 15:57:19 Mon Jun 4 15:57:19 EDT 2018 - End of sadmlib std demo.sh
2018.06.04 15:57:19
2018.06.04 15:57:19
2018.06.04 15:57:19
2018.06.04 15:57:19
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