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sadmlib_std_demo.py v3.0 - Library v2.23

User Var. that affect SADMIN behavior	Description	This System Result
[001] st.ver	Get/Set Script Version Number	: 3.0
[002] st.pn	Get script name	: sadmlib_std_demo.py
[003] st.inst	Get script name without extension	: sadmlib_std_demo
[004] st.username	Get current user name	: root
[005] st.tpid	Get Current Process ID	: 18209
[006] st.multiple_exec	Get/Set Allow running multiple copy	: N
[007] st.use_rch	Get/Set Gen. entry in .rch file	: False
[008] st.dbsilent	When DBerror, No ErrMsg (Just ErrNo)	: False
[009] st.usedb	Set Script need Database ?	: True
[010] st.log_type	Set Output to [S]creen [L]og [B]oth	: B
[011] st.log_append	Get/Set Append Log or Create New One	: True
[012] st.log_header	Get/Set Generate Header in log	: False
[013] st.log_footer	Get/Set Generate Footer in log	: False
[014] st.log_footer	Get/Set Generate Footer in log	: False
[015] st.exit_code	Get/Set Script Exit Return Code	: 0

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SADMIN Python specific functions	Description	This System Result
[001] st.silentremove('file')	Silent File Del, No Err if not exist	: None
[002] st.writelog(msg,'nonl' 'bold')	Write Msg to Log or Screen or Both	: None

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Calling Functions	Description	This System Result
[001] st.get_release()	SADMIN Release Number (XX.XX)	: 0.94.0
[002] st.get_ostype()	OS Type (Uppercase,LINUX,AIX,DARWIN)	: LINUX
[003] st.get_osversion()	Return O/S Version (Ex: 7.2, 6.5)	: 7.5.1804
[004] st.get_osmajorversion()	Return O/S Major Version (Ex 7, 6)	: 7
[005] st.get_osminorversion()	Return O/S Minor Version (Ex 2, 3)	: 5
[006] st.get_osname()	O/S Name (REDHAT,CENTOS,UBUNTU,...)	: CENTOS
[007] st.get_oscodename()	O/S Project Code Name	: CORE
[008] st.get_kernel_version()	O/S Running Kernel Version	: 3.10.0-862
[009] st.get_kernel_bitmode()	O/S Kernel Bit Mode (32 or 64)	: 64
[010] st.hostname	Current Host Name	: holmes
[011] st.get_host_ip()	Current Host IP Address	: 192.168.1.12
[012] st.get_domainname()	Current Host Domain Name	: maison.ca
[013] st.get_fqdn()	Fully Qualified Domain Host Name	: holmes.maison.ca
[014] st.get_epoch_time()	Get Current Epoch Time	: 1543851357
[015] st.epoch_to_date(1543851357)	Convert epoch time to date	: 2018.12.03 10:35:57

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WDATE=2018.12.03 10:35:57
[016] st.date_to_epoch(WDATE)          Convert Date to epoch time          : 1543851357
      DATE1=2018.06.30 10:00:44
      DATE2=2018.06.30 10:00:03
[017] st.elapse_time(DATE1,DATE2)      Elapse Time between two timestamps   : 00:00:41

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Overview of st.start() & st.stop() function
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st = setup_sadmin()
Example : st = setup_sadmin()      # Setup Var, Load Libr, Create instance, call st.start()
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Setup User Var., Load Module, Create Instance, call st.start() and return instance object
It make sure the SADMIN Environment variable is set to proper dir.
The module 'setup_sadmin()', need to be called when your script is starting.
What this function will do for us :
1) Make sure all directories & sub-directories exist and have proper permissions.
2) Make sure log file exist with proper permission (st.log_file)
3) Make sure Return Code History (.rch) exist and have the right permission
4) If PID file exist, show error message and abort.
   Unless user allow more than one copy to run simultaneously (st.multiple_exec = 'Y')
5) Add line in the [R]eturn [C]ode [H]istory file stating script is started (Code 2)
6) Write HostName - Script name and version - O/S Name and version to the Log file (st.log_file)

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st.stop()
Example : st.stop(st.exit_code)    # Close SADM Environment
        sys.exit(st.exit_code)    # Exit To O/S
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Accept one parameter - Either 0 (Successful) 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) Trim the Log based on user selection in sadmin.cfg
7) Delete the PID File of the script (st.pid_file)
8) Delete the User 3 TMP Files (st.tmp_file1, st.tmp_file2, st.tmp_file3)

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SADMIN CONFIG FILE VARIABLES	Description	This System Result
[001] st.cfg_server	SADMIN SERVER NAME (FQDN)	: holmes.maison.ca
[002] st.cfg_host_type	SADMIN [C]lient or [S]erver	: S
[003] st.cfg_mail_addr	SADMIN Administrator Default Email	: batman@batcave.com
[004] st.cfg_alert_type	0=NoMail 1=OnError 3=OnSuccess 4=All:	1
[005] st.cfg_cie_name	Your Company Name	: Your Cie Name
[006] st.cfg_domain	Server Creation Default Domain	: maison.ca
[007] st.cfg_user	SADMIN User Name	: sadmin
[008] st.cfg_group	SADMIN Group Name	: sadmin
[009] st.cfg_www_user	User that Run Apache Web Server	: apache
[010] st.cfg_www_group	Group that Run Apache Web Server	: apache
[011] st.cfg_dbname	SADMIN Database Name	: sadmin
[012] st.cfg_dbhost	SADMIN Database Host	: sadmin.maison.ca
[013] st.cfg_dbport	SADMIN Database Host TCP Port	: 3306
[014] st.cfg_rw_dbuser	SADMIN Database Read/Write User	: sadmin
[015] st.cfg_rw_dbpwd	SADMIN Database Read/Write User Pwd	: Blabla17!
[016] st.cfg_ro_dbuser	SADMIN Database Read Only User	: squery
[017] st.cfg_ro_dbpwd	SADMIN Database Read Only User Pwd	: Bloblo18!
[018] st.cfg_rrdtool	RRDTOOL Binary Location	: /bin/rrdtool
[019] st.cfg_ssh_port	SSH Port to communicate with client	: 32
[020] st.cfg_nmon_keepdays	Nb. of days to keep nmon perf. file	: 60
[021] st.cfg_rch_keepdays	Nb. days to keep unmodified rch file:	60
[022] st.cfg_log_keepdays	Nb. days to keep unmodified log file:	60
[023] st.cfg_max_rchline	Trim rch file to this max. of lines	: 125
[024] st.cfg_max_logline	Trim log to this maximum of lines	: 2000
[025] st.cfg_network1	Network/Netmask 1 inv. IP/Name/Mac	: 192.168.1.0/24
[026] st.cfg_network2	Network/Netmask 2 inv. IP/Name/Mac	:
[027] st.cfg_network3	Network/Netmask 3 inv. IP/Name/Mac	:
[028] st.cfg_network4	Network/Netmask 4 inv. IP/Name/Mac	:
[029] st.cfg_network5	Network/Netmask 5 inv. IP/Name/Mac	:
[030] st.cfg_mkysb_nfs_server	AIX MKSYB NFS Server IP or Name	: batnfs.maison.ca
[031] st.cfg_mkysb_nfs_mount_point	AIX MKSYB NFS Mount Point	: /volume1/mkysb
[032] st.cfg_mkysb_backup_to_keep	AIX MKSYB NFS Backup - Nb .to keep	: 2
[033] st.cfg_rear_nfs_server	Rear NFS Server IP or Name	: batnas.maison.ca
[034] st.cfg_rear_nfs_mount_point	Rear NFS Mount Point	: /volume1/Linux_DR
[035] st.cfg_rear_backup_to_keep	Rear NFS Backup - Nb. to keep	: 3
[036] st.cfg_backup_nfs_server	NFS Backup IP or Server Name	: batnas.maison.ca
[037] st.cfg_backup_nfs_mount_point	NFS Backup Mount Point	: /volume1/backup_linux
[038] st.cfg_daily_backup_to_keep	Daily Backup to Keep	: 3
[039] st.cfg_weekly_backup_to_keep	Weekly Backup to Keep	: 3
[040] st.cfg_monthly_backup_to_keep	Monthly Backup to Keep	: 3
[041] st.cfg_yearly_backup_to_keep	Yearly Backup to keep	: 2
[042] st.cfg_weekly_backup_day	Weekly Backup Day (1=Mon,7=Sun)	: 5
[043] st.cfg_monthly_backup_date	Monthly Backup Date (1-28)	: 1
[044] st.cfg_yearly_backup_month	Yearly Backup Month (1-12)	: 12
[045] st.cfg_yearly_backup_date	Yearly Backup Date (1-31)	: 31

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Client Directories Var. Avail.	Description	This System Result
[001] st.base_dir	SADMIN Root Directory	: /sadmin
[002] st.bin_dir	SADMIN Scripts Directory	: /sadmin/bin
[003] st.tmp_dir	SADMIN Temporary file(s) Directory	: /sadmin/tmp
[004] st.lib_dir	SADMIN Shell & Python Library Dir.	: /sadmin/lib
[005] st.log_dir	SADMIN Script Log Directory	: /sadmin/log
[006] st.cfg_dir	SADMIN Configuration Directory	: /sadmin/cfg
[007] st.sys_dir	Server Startup/Shutdown Script Dir.	: /sadmin/sys
[008] st.doc_dir	SADMIN Documentation Directory	: /sadmin/doc
[009] st.pkg_dir	SADMIN Packages Directory	: /sadmin/pkg
[010] st.dat_dir	Server Data Directory	: /sadmin/dat
[011] st.nmon_dir	Server NMON - Data Collected Dir.	: /sadmin/dat/nmon
[012] st.dr_dir	Server Disaster Recovery Info Dir.	: /sadmin/dat/dr
[013] st.rch_dir	Server Return Code History Dir.	: /sadmin/dat/rch
[014] st.net_dir	Server Network Information Dir.	: /sadmin/dat/net
[015] st.rpt_dir	SYStem MONitor Report Directory	: /sadmin/dat/rpt
[016] st.dbb_dir	Database Backup Directory	: /sadmin/dat/dbb
[017] st.setup_dir	SADMIN Installation/Update Setup Dir.:	/sadmin/setup
[018] st.usr_dir	User/System specific directory	: /sadmin/usr
[019] st.ubin_dir	User/System specific bin/script Dir.:	/sadmin/usr/bin
[020] st.ulib_dir	User/System specific library Dir.	: /sadmin/usr/lib
[021] st.udoc_dir	User/System specific documentation	: /sadmin/usr/doc
[022] st.umon_dir	User/System specific SysMon Scripts	: /sadmin/usr/mon

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Server Directories Var. Avail.	Description	This System Result
[001] st.www_dir	SADMIN Web Site Root Directory	: /sadmin/www
[002] st.www_doc_dir	SADMIN Web Site Root Directory	: /sadmin/www/doc
[003] st.www_dat_dir	SADMIN Web Site Systems Data Dir.	: /sadmin/www/dat
[004] st.www_lib_dir	SADMIN Web Site PHP Library Dir.	: /sadmin/www/lib
[005] st.www_tmp_dir	SADMIN Web Temp Working Directory	: /sadmin/www/tmp
[006] st.www_perf_dir	Web Performance Server Graph Dir.	: /sadmin/www/tmp/perf

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SADMIN FILES VARIABLES AVAIL.	Description	This System Result
[001] st.pid_file	Current script PID file	: /sadmin/tmp/sadmlib_std_demo.pid
[002] st.cfg_file	SADMIN Configuration File	: /sadmin/cfg/sadmin.cfg
[003] st.cfg_hidden	SADMIN Initial Configuration File	: /sadmin/cfg/.sadmin.cfg

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[004] st.tmp_file1      User usable Temp Work File 1      : /sadmin/tmp/sadmlib_std_demo_1.18209
[005] st.tmp_file2      User usable Temp Work File 2      : /sadmin/tmp/sadmlib_std_demo_2.18209
[006] st.tmp_file3      User usable Temp Work File 3      : /sadmin/tmp/sadmlib_std_demo_3.18209
[007] st.log_file       Script Log File           : /sadmin/log/holmes_sadmlib_std_demo.log
[008] st.rch_file       Script Return Code History File : /sadmin/dat/rch/holmes_sadmlib_std_demo.rch
[009] st.dbpass_file    SADMIN Database User Password File : /sadmin/cfg/.dbpass
[010] st.rpt_file       SYStem MONitor report file      : /sadmin/dat/rpt/holmes.rpt

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COMMAND PATH USE BY SADMIN STD. LIBR.  Description                                This System Result
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[001] st.lsb_release    Cmd. 'lsb_release', Get O/S Version : /bin/lsb_release
[002] st.dmiddecode     Cmd. 'dmidecode', Get model & type : /sbin/dmidecode
[003] st.facter         Cmd. 'facter', Get System Info : /bin/facter
[004] st.bc             Cmd. 'bc', Do some Math. : /bin/bc
[005] st.fdisk         Cmd. 'fdisk', Get Partition Info : /sbin/fdisk
[006] st.which         Cmd. 'which', Get Command location : /bin/which
[007] st.perl          Cmd. 'perl', epoch time Calc. : /bin/perl
[008] st.mail          Cmd. 'mail', Send SysAdmin Email : /bin/mail
[009] st.lscpu         Cmd. 'lscpu', Socket & thread info : /bin/lscpu
[010] st.nmon          Cmd. 'nmon', Collect Perf Statistic : /bin/nmon
[011] st.parted        Cmd. 'parted', Get Disk Real Size : /sbin/parted
[012] st.ethhtool      Cmd. 'ethhtool', Get System IP Info : /sbin/ethhtool
[013] st.ssh           Cmd. 'ssh', SSH to SADMIN client : /bin/ssh
[014] st.ssh_cmd       Cmd. 'ssh', SSH to Connect to client: /bin/ssh -qnp 32

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Database Connection Test      Description                                This System Result
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Database connection succeeded
Closing Database connection

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