ADMe Custom Scheduler Script

The purpose of this script is to provide an automated process whereby an ADMe job policy can be explicitly scheduled based on a given day of the week and whose calendar date will change month to month. For example, if the requirement was to run an ADMe job the 1st Saturday of the month throughout the year, its associated calendar date will vary month to month therefore manual scheduling updates would be required for each. If you were to use a date range covering the first seven days and expect the job to run on Saturday when combined with a day of the week value of 6 as shown below, it will result in the job being executed each day regardless of the day of the week value specified.

30 09 **1-7** * **6** /usr/local/avamar/bin/adme -batch admbatch-lnxfs01.cfg >/adamk.log 2>&1

This above CRON behavior occurs if a day-of-the-week value is specified in combination with a date or date-range value to achieve expected results however, CRON interprets these as a logical OR as opposed to a logical AND resulting in the user entry being called each day either of the two conditions are met.

The script upon execution configured in CRON to execute at midnight on the 1st of the month will automatically determine the appropriate date and reflect the appropriate execution date/time within the ADMe Web-UI relative to the current month.

Installation:

Place the script in **/home/admin/admeadmin/tools/admesched.sh** on Avamar utility node and give it execute permission as shown below:

cd /home/admin/admeadmin/tools

chmod 750 admesched.sh

Although the script can be run manually the intention is for it to be called automatically from root CRON on the 1st of each month immediately after midnight. Its CRON entry would be as follows:

crontab –e

05 0 1 * * /home/admin/admeadmin/tools/admesched.sh   >> /home/admin/admeadmin/tools/admesched.log 2>&1

If there's a need for multiple executions each month acting on different days of the week or day instance, it can be called more than once with each using a different input **.dat** files, refer to **–datafile** option below.

If you choose to stop the use of the script by removing it from CRON, you must also remove the relative ADMe job entries it may have added. The following methods are available to remove them:

- Manually execute the script with option **–delete**
- Use the ADMe Web-UI to remove them from the scheduler
- Manually edit the root CRON tab with **crontab –e** command

When executed from CRON, review the **admesched.log** file for any detected issues.

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Configuration

Input data to **admesched.sh** script is read from file name **admsched.cfg** located in the **/home/admin/admeadmin/tools** folder. The order of this 5-column csv file is important therefore use the template file supplied which contains comments documenting the field order and purpose. Multiple ADMe job policy names can be specified each with its own unique day of the week, day instance and desired start time values. The # character can be used in column one to comment or disable line entries without the need to remove them from the file.

Field Definitions:

Fld-1 User Day Instance   = 1|2|3|4|5

Fld-2 Usrer Day of the Week   = sun|mon|tue|wed|thu|fri|sat

Fld-3 User Start Time Hour   = HH

Fld-4 User Start Time Minute   = MM

Fld-5 User ADMe Jobname   = (*example* **admbatch-winfs01.cfg**)

Sample Field Entries

1,mon,12,22,admbatch-lnxfs01.cfg

2,mon,13,33,admbatch-winfs01.cfg

Only one entry per ADMe jobname is permitted therefore if a given jobname was specified more than once, only the last entry will be acted on. If more than one execution per month is a requirement, refer to –**datafile** option below for a solution.

Options:

-datafile=*myfilename.cfg*

Use to override the default input file name of **/home/admin/admeadmin/tools/admesched.cfg** by specifying a different file name containing your configuration data. A typical use case would be scenarios where a given ADMe job is to be executed more than once per month with different parameters.

-calendar=*mm-yyyy*

Override the default calendar date value which by default is the current month. The –**calendar** option can be used to pass any month-year value useful to manually verify the expected execution dates in advance. Execute the script manually from a terminal session to view results. The use of this option inhibits CRON updates from taking place as it's intended as a diagnostic or verification only.

-**delete**

Removes all related ADMe job entries from the CRON relative to the specified **admesched**.cfg file used. Any other unrelated ADMe job entries will not be deleted.