m_adm_statistics_report.sas File Reference

Admin

Admin macro to create the SAS server usage statistics report

Description

The macro creates a report containing the server load and usage statistics. The statistics are collected by parsing the SAS Metadata Server and Workspace Server log files and performs statistical analyses on the parsed connection data. The macro contains the following time analysis modes:
HIS -> to analyse all historical data
Y2D -> to analyse year-to-date data
12M -> to analyse last 12 months data
6M -> to analyse last 6 months data
3M -> to analyse last 3 months data
1M -> to analyse last month data
The macro contains the following result report types:
ALL -> complete connection analysis
DAY -> connection analysis per day
DIR -> connection analysis per directory
HRS -> connection analysis per hour
MTH -> connection analysis per month
USR -> connection analysis per user
WDAY -> connection analysis per weekday
The result information is presented by a SAS graph or plot step and can be send by email as an PDF format attachment.

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23.1.09

Link

https://github.com/paul-canals/toolbox

Parameters

Input	help	Parameter, if set (Help or ?) to print the Help information in the log. In all other cases this parameter should be left out from the macro call.
Input	rootdir	Parameter charater string containing the full path to the SAS Toolbox root directory.
Input	mslogs	Parameter charater string containing the full path to the SAS Metadata Server log directory.
Input	wslogs	Parameter charater string containing the full path to the SAS ObjectSpawner log directory.
Input	mode	Indicator [HIS|Y2D|12M|6M|3M|1M] to define the time span of the statistics to be analysed. The default value is: Y2D.
Input	type	Indicator [ALL|DAY|DIR|HRS|MTH|USR|WDAY] to define the analysis type. The default value is: ALL.
Input	interpol	Boolean [Y|N] parameter to define if the result of the actual month for Y2D connection analysis is to be interpolated. The default value is: N.
Input	lastdate	Last date to be analyzed: The date needs to be provided in the DDMMYYYY format. This parameter has no effect if analysis mode is set to Y2D. The default value is TODAY - 1 (Yesterday).
Input	firstday	Indicator [S|SUN|M|MON] to define the first day of the week. The default parameter value S for Sunday can beset to M for Monday if necessary. Changing this value has an impact on the report types DAY and WDAY only.
Input	topusers	Parameter to define the number of users to be displayed in the user analysis chart. The default value is: 5.
Input	excltype	Parameter character string containing the user type to be excluded from the statistics result. The default value is: \@saspw.
Input	excluser	Parameter character string containing a _blank_ separated list of users to be excluded from the statistics result. The default value is: sastrust sasevs sassrv.
Input	radius	Parameter to specify the the of the pie and donut size in their respective charts. The default value for RADIUS is: 15.
Input	print	Boolean [Y|N] parameter to generate the output by a proc report step with style HtmlBlue. The default value is N.
Input	sendmail	Boolean [Y|N] parameter to decide if the result information list is to be send to email address. The default value is N.
Input	mailaddr	Send to email address of private person or group.
Input	debug	Boolean [Y|N] parameter to provide verbose mode information. The default value is: N.

Returns

- Server usage reports

Calls

- m_utl_delete_file.sas
- m_utl_get_file_list.sas
- m_utl_mail_notification.sas
- m_utl_nlobs.sas
- m_utl_print_message.sas
- m_utl_print_mtrace.sas
- m_utl_printto.sas
- m_utl_quote_elems.sas

Usage

Example 1: Show help information:

```
%m_adm_statistics_report(?)
```

Example 2: Perform year-to-date monthly user connection analysis. Exclude type: \@saspw and user: system from statistics.

```
%let sascfg = %sysfunc(getoption(SASINITIALFOLDER));

%m_adm_statistics_report(
   rootdir  = %str(&APPL_BASE.)
 , mslogs   = %str(&sascfg./../SASMeta/MetadataServer/Logs)
 , wslogs   = %str(&sascfg./../ObjectSpawner/Logs)
 , mode     = Y2D
 , type     = MTH
 , excltype = @saspw
 , excluser = system
 , debug    = N
   );
```

Example 3: Perform all time hourly user connection analysis. Exclude type: \@saspw and user: system from statistics.

```
%let sascfg = %sysfunc(getoption(SASINITIALFOLDER));

%m_adm_statistics_report(
   rootdir  = %str(&APPL_BASE.)
 , mslogs   = %str(&sascfg./../SASMeta/MetadataServer/Logs)
 , wslogs   = %str(&sascfg./../ObjectSpawner/Logs)
 , mode     = HIS
 , type     = HRS
 , topusers = 5
 , excltype = @saspw
 , excluser = system
 , debug    = N
   );
```

Example 4: Perform year-to-date analysis per user with top 5 users. Exclude type: \@saspw and user: system from statistics.

```
%let sascfg = %sysfunc(getoption(SASINITIALFOLDER));

%m_adm_statistics_report(
   rootdir  = %str(&APPL_BASE.)
 , mslogs   = %str(&sascfg./../SASMeta/MetadataServer/Logs)
 , wslogs   = %str(&sascfg./../ObjectSpawner/Logs)
 , mode     = Y2D
 , type     = USR
 , topusers = 5
 , excltype = @saspw
 , excluser = system
 , debug    = N
   );
```

Example 5: Perform all time complete server connection analysis. Exclude type: \@saspw and user: system from statistics.

```
%let sascfg = %sysfunc(getoption(SASINITIALFOLDER));

%m_adm_statistics_report(
   rootdir  = %str(&APPL_BASE.)
 , mslogs   = %str(&sascfg./../SASMeta/MetadataServer/Logs)
 , wslogs   = %str(&sascfg./../ObjectSpawner/Logs)
 , mode     = HIS
 , type     = ALL
 , topusers = 5
 , excltype = @saspw
 , excluser = system
 , debug    = N
   );
```

Example 6: Perform a complete server connection analysis for a given month. Exclude type: \@saspw and user: system from statistics.

```
%let sascfg = %sysfunc(getoption(SASINITIALFOLDER));

%m_adm_statistics_report(
   rootdir  = %str(&APPL_BASE.)
 , mslogs   = %str(&sascfg./../SASMeta/MetadataServer/Logs)
 , wslogs   = %str(&sascfg./../ObjectSpawner/Logs)
 , mode     = 1M
 , type     = ALL
 , lastdate = 31012021
 , firstday = MON
 , topusers = 5
 , excltype = @saspw
 , excluser = system
 , debug    = N
   );
```

Example 7: Perform a file system directory analysis for a given month.

```
%m_adm_statistics_report(
   rootdir = %str(&APPL_BASE.)
 , mode    = Y2D
 , type    = DIR
 , debug   = Y
   );
```

Example 8: Send the year-to-date statistics report as PDF to a given email address.

```
%let sascfg = %sysfunc(getoption(SASINITIALFOLDER));

%m_adm_statistics_report(
   rootdir  = %str(&APPL_BASE.)
 , mslogs   = %str(&sascfg./../SASMeta/MetadataServer/Logs)
 , wslogs   = %str(&sascfg./../ObjectSpawner/Logs)
 , sendmail = Y
 , mailaddr = %str(pact@hermes.local)
 , debug    = N
   );
```

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