

SAS Macro for cleaning SAS logs from Linux or Windows server

The article below shows how to schedule a SAS Macro code (for cleaning SAS logs from Linux or Windows server) to run through the Scheduler Manager in SAS Management Console. Only SAS Macro code or simple code can be scheduled. There is no support for scheduling .bat, .sh. or any non-sas script using Scheduler Manager in SAS Management Console.

- 1) Identify the SAS Macro code to be scheduled and ensure that the saved location is accessible by the scheduler (Note the path)The name of the SAS Macro code used in our example is **mr_clean.sas** used for demonstrating scheduling tasks.

i) What is in **mr_clean.sas** ?

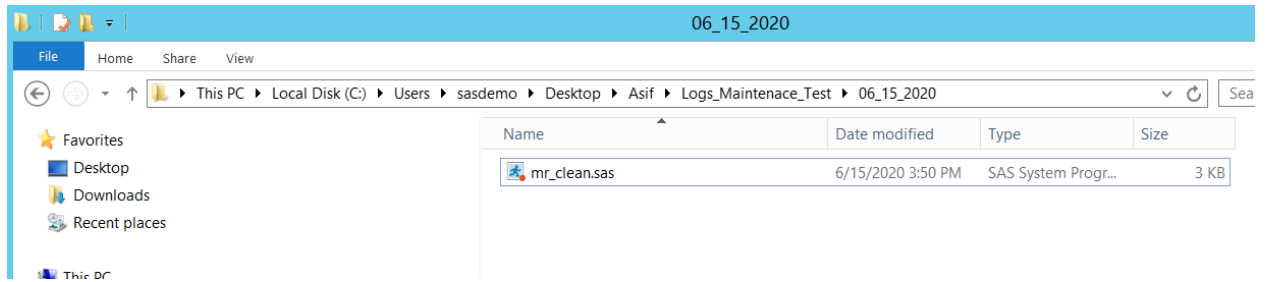
```
/* This SAS Macro only keep 3 days of logs in log directories */
%macro mr_clean(dirpath=,dayskeep=30,ext=.log);
  data _null_;
    length memname $256;
    deldate = today() - &dayskeep;
    rc = filename('indir', "&dirpath");
    did = dopen('indir');
    if did then
      do i=1 to dnum(did);
        memname = dread(did,i);
        if reverse(trim(memname)) ^= reverse("&ext") then continue;
        rc = filename('inmem', "&dirpath/!!memname");
        fid = fopen('inmem');
        if fid then
          do;
            moddate = input(finfo(fid,'Last Modified'),date9.); /* see WARNING below */
            rc = fclose(fid);
            if . < moddate <= deldate then rc = fdelete('inmem');
          end;
        end;
        rc = dclose(did);
        rc = filename('inmem');
        rc = filename('indir');
      run;
    %mend mr_clean;
  data delete_instructions;
    length days 8 extn $9 path $256;
    infile datalines trunccover;
    input days 1-2 extn $ 4-12 path $ 14-270;
```

```

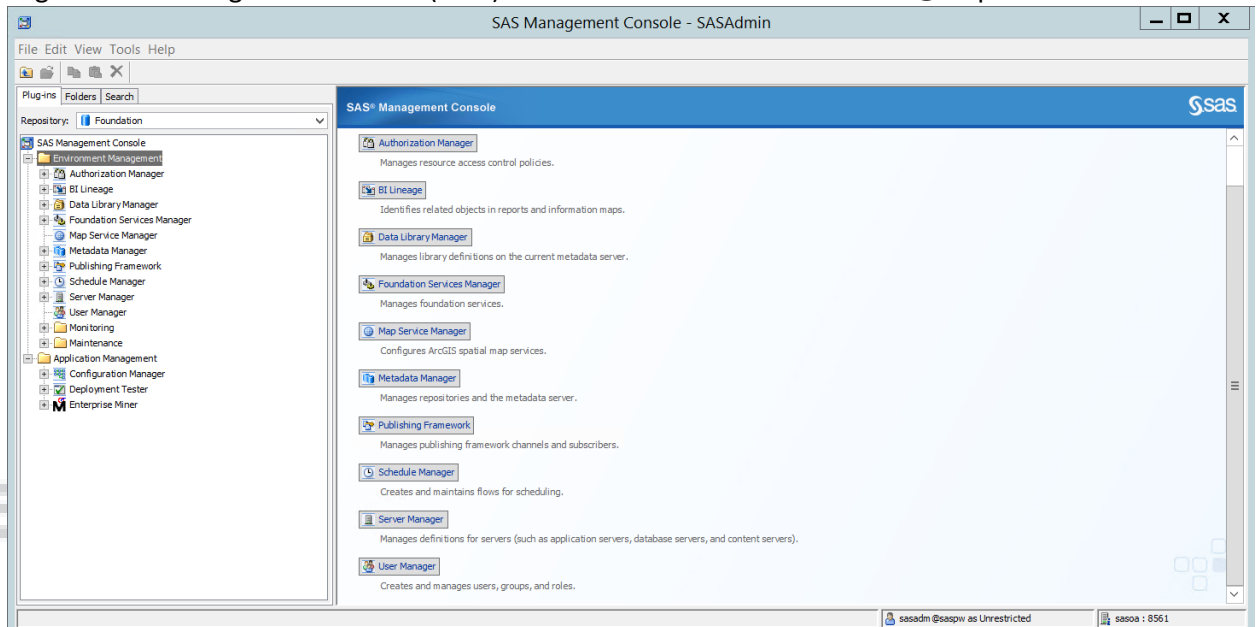
datalines;
03 .log C:\SAS\Config\Lev1\ObjectSpawner\Logs
03 .log C:\SAS\Config\Lev1\ObjectSpawner\AuditLogs
03 .log C:\SAS\Config\Lev1\SASApp\BatchServer\Logs
03 .log C:\SAS\Config\Lev1\SASApp\BatchServer\PerfLogs
03 .log C:\SAS\Config\Lev1\SASApp\OLAPServer\Logs
03 .log C:\SAS\Config\Lev1\SASApp\OLAPServer\AuditLogs
03 .log C:\SAS\Config\Lev1\SASApp\PooledWorkspaceServer\Logs
03 .log C:\SAS\Config\Lev1\SASApp\PooledWorkspaceServer\PerfLogs
03 .log C:\SAS\Config\Lev1\SASApp\StoredProcessServer\Logs
03 .log C:\SAS\Config\Lev1\SASApp\StoredProcessServer\PerfLogs
03 .log C:\SAS\Config\Lev1\SASApp\WorkspaceServer\Logs
03 .log C:\SAS\Config\Lev1\SASApp\WorkspaceServer\PerfLogs
03 .log C:\SAS\Config\Lev1\SASMeta\MetadataServer\Logs
03 .log C:\SAS\Config\Lev1\SASMeta\MetadataServer\AuditLogs
03 .log C:\SAS\Config\Lev1\SchedulingServer\Logs
03 .log C:\SAS\Config\Lev1\Web\Logs\SASServer1_1
03 .log C:\SAS\Config\Lev1\Web\Logs\SASServer2_1
03 .log C:\SAS\Config\Lev1\Web\Logs\SASServer11_1
03 .log C:\SAS\Config\Lev1\Web\Logs\SASServer12_1
03 .log C:\SAS\Config\Lev1\Web\SASEnvironmentManager\emi-client\Logs
03 .log C:\SAS\Config\Lev1\Web\SASEnvironmentManager\emi-framework\Logs
03 .log C:\SAS\Config\Lev1\Web\SASEnvironmentManager\server-5.8.0-EE\logs
03 .log C:\SAS\Config\Lev1\Web\WebAppServer\SASServer1_1\logs
03 .log C:\SAS\Config\Lev1\Web\WebAppServer\SASServer2_1\logs
03 .log C:\SAS\Config\Lev1\Web\WebAppServer\SASServer11_1\logs
03 .log C:\SAS\Config\Lev1\Web\WebAppServer\SASServer12_1\logs
03 .log C:\SAS\Config\Lev1\Web\WebServer\logs
03 .log C:\SAS\Config\Lev1\Web\InfrastructurePlatformDataServer\Logs
;
data _null_;
  set delete_instructions;
  s = cats('%nrstr(%mr_clean(dirpath=',path,',dayskeep=',days,',ext=',extn,')'));
  call execute(s);
run;

```

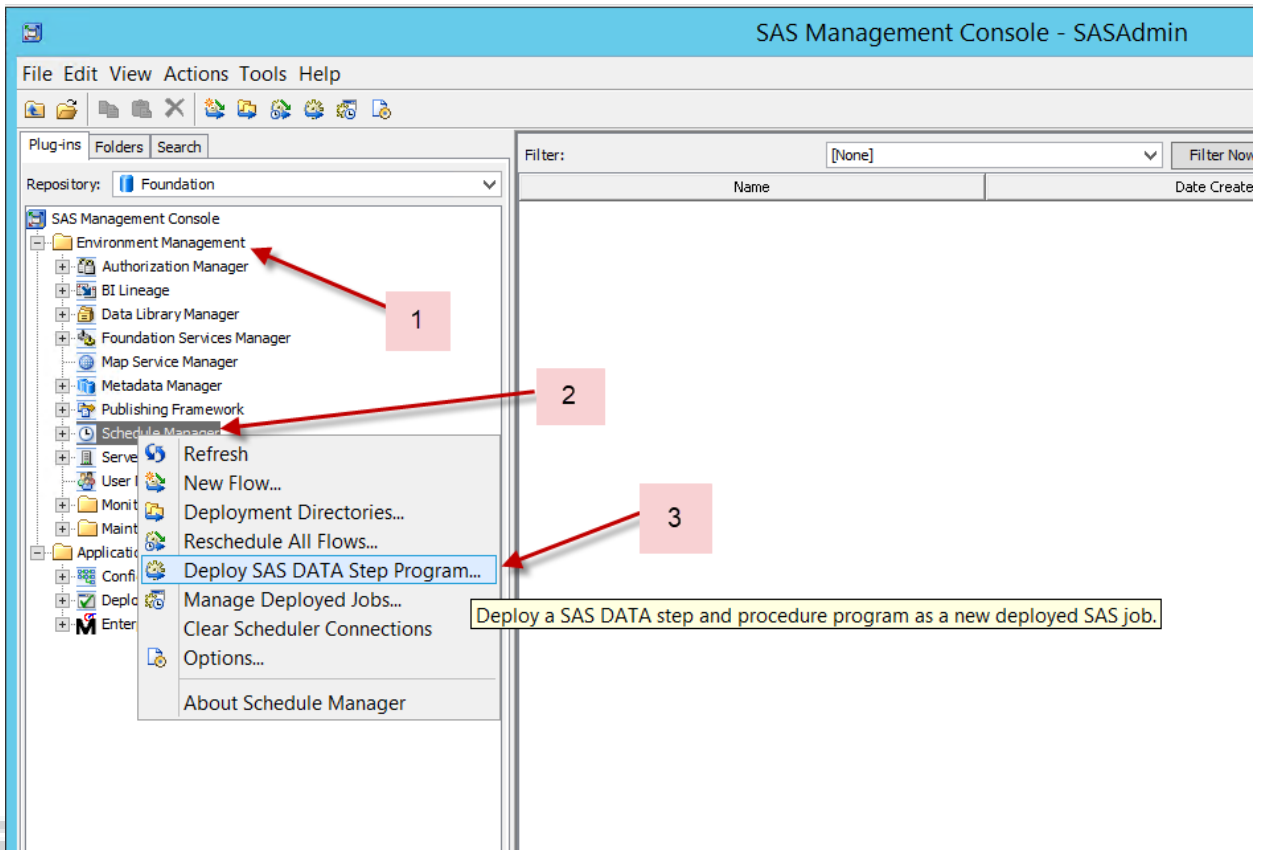
ii) Save location used **C:\Users\sasdemo\Desktop\Asif\Logs_Maintenace_Test\06_15_2020**
(server used SASOA.A113.LOCAL)



2) Login to SAS Management Console (SMC) as SAS unrestricted User: “sasadm@saspw” ID

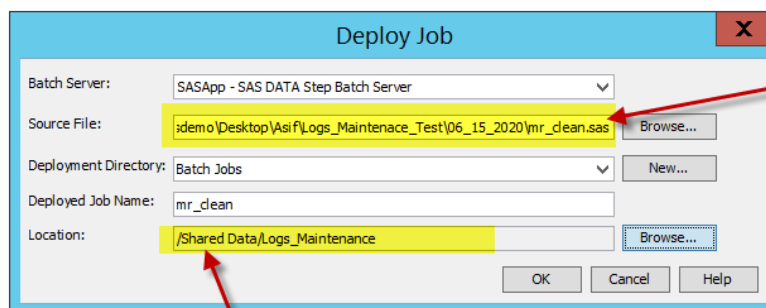


3) 3) Expand Environment Management > Right click on Schedule Manager and choose “**Deploy SAS DATA Step Program as a new deployed SAS job**”



4) In the **Deploy Job** click on Browse and navigate to the location where SAS code is saved:

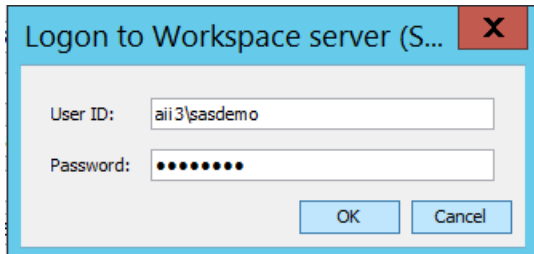
i)



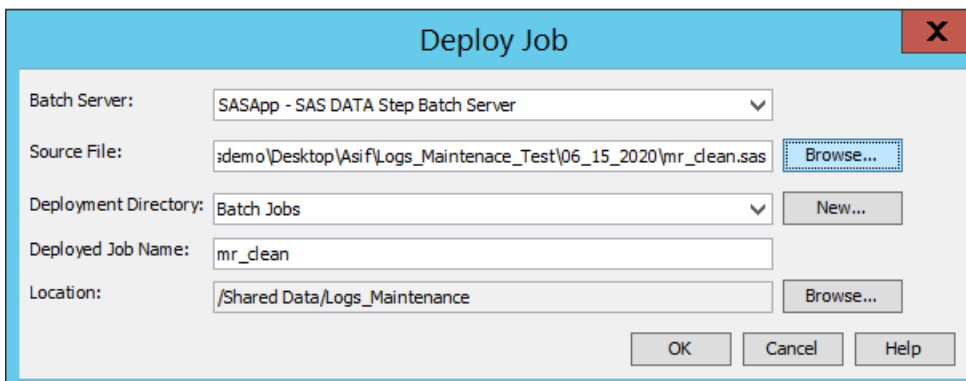
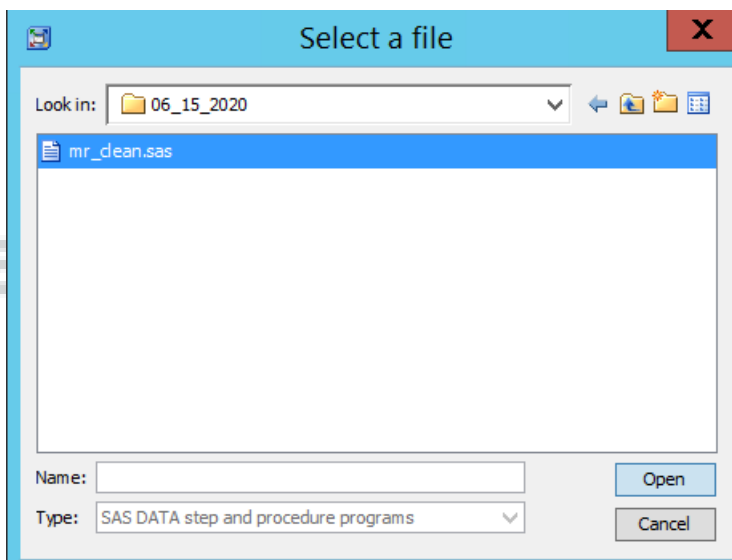
1
SAS Macro Code file
directory location

2
Specify metadata "SAS Folders"
directory location where you want to
save that specific Job

ii) During source code location browsing you may be prompted for your metadata profile credentials. Note the ID which will schedule and run the code needs to have appropriate permissions and is not an internal account. Only an external account could spawn a workspace server session. In our example we used “sasdemo” id



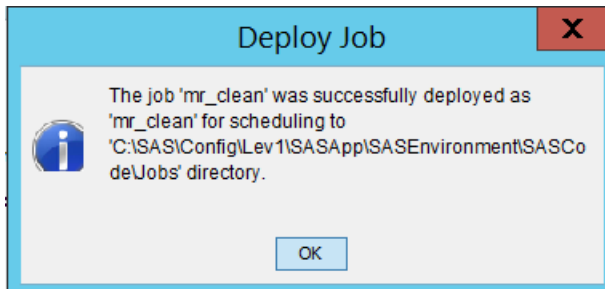
Navigating to the location of the source code



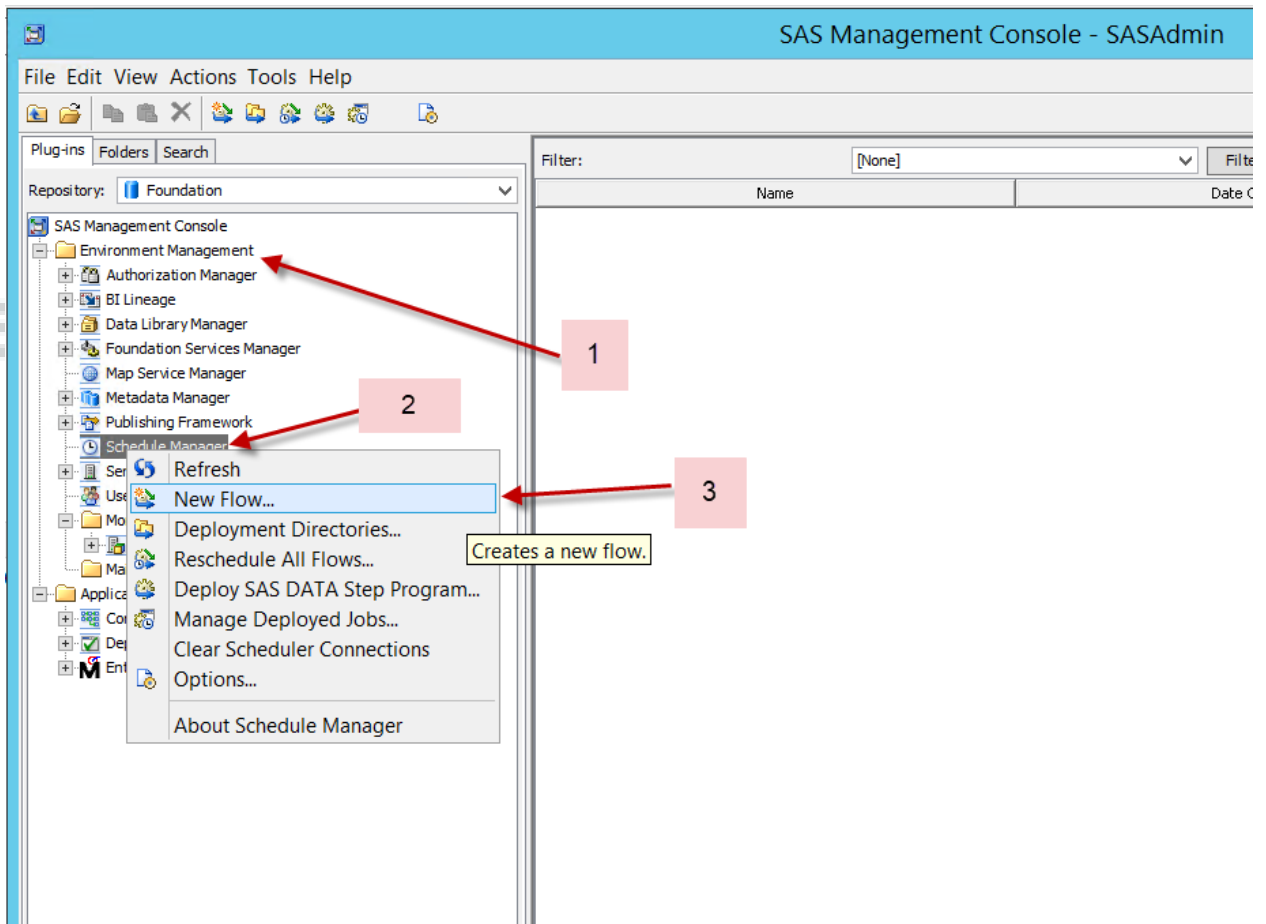
Assign a **job name** for the deploying job: we put “mr_clean”

Location: “/Shared Data/Logs_Maintenance”

iii) Click OK



5) Next task is to create a flow for Deployed job. This is done in SMC. Navigate to Schedule Manager and **right click** Schedule Manager and select **New Flow**



6) **New Flow** window prompted and the following information are required:

- i) **Name(New Flow):** we put "mr_clean_flow"
- ii) **Location:** /Shared Data/Logs_Maintenance (Specify metadata "SAS Folders" directory location where you want to save that specific **New Flow**)
- iii) **Scheduling Server:** SAS Distributed In-Process Services Scheduling Server

- iv) **Select the items to include in this flow:** Choose yours “mr_clean” job that you created earlier
- v) click **OK**

New Flow

Name:

Location:

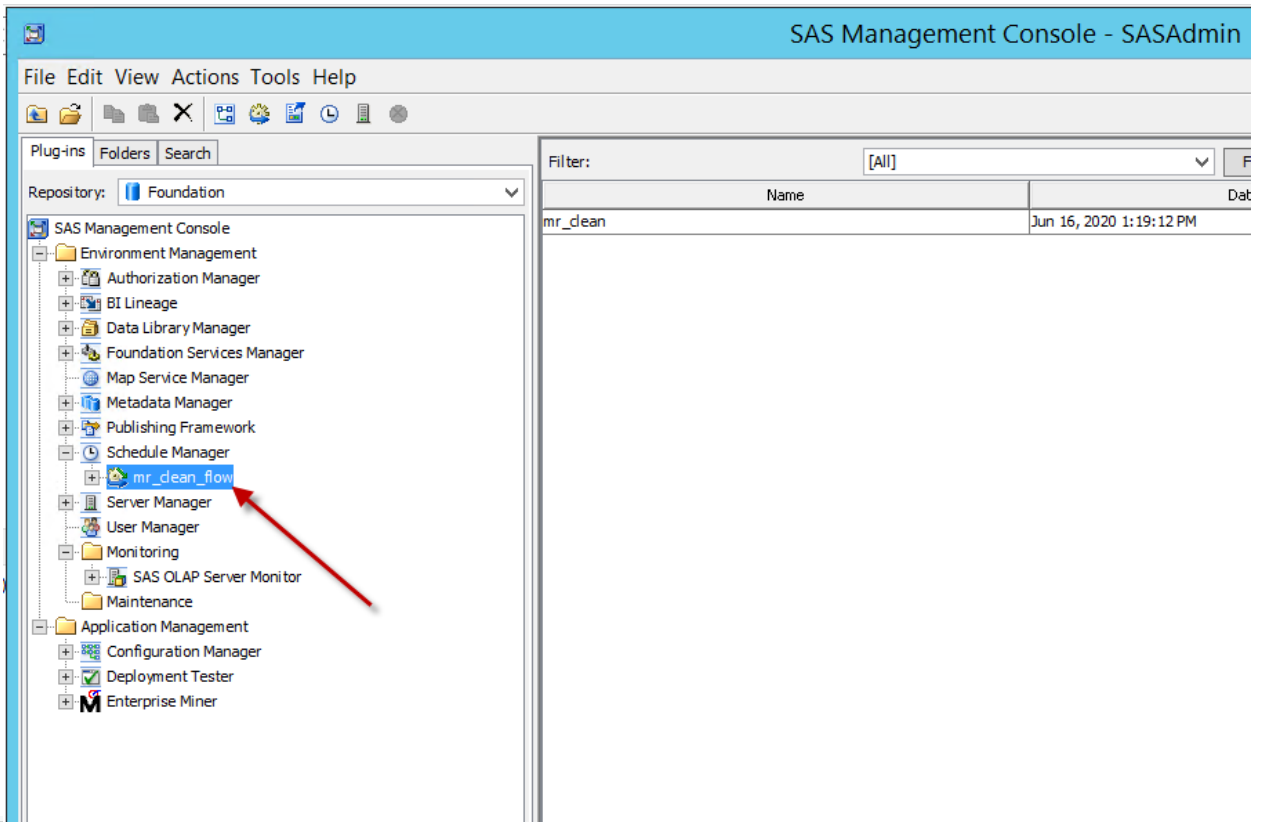
Scheduling Server:

Select the items to include in this flow

Available Items

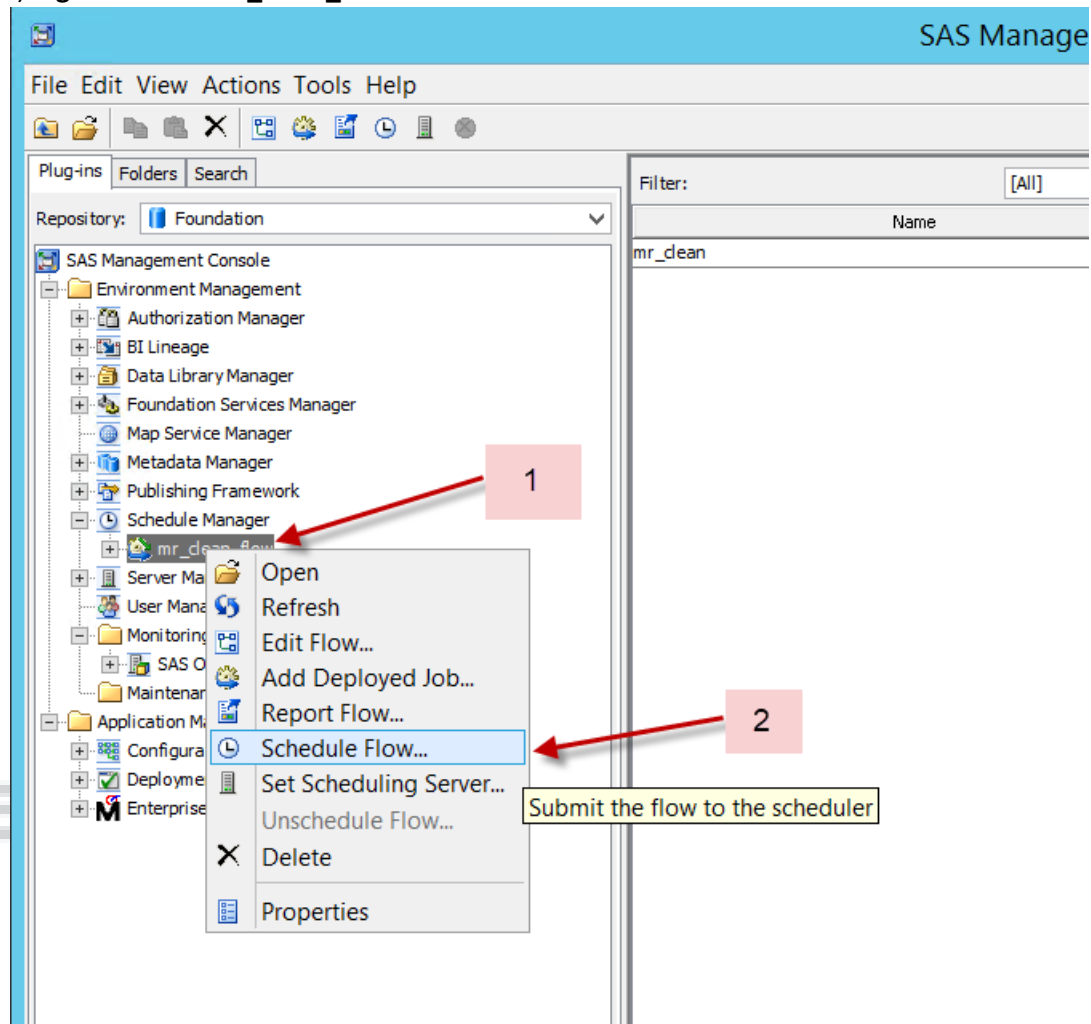
Selected Items

mr_clean

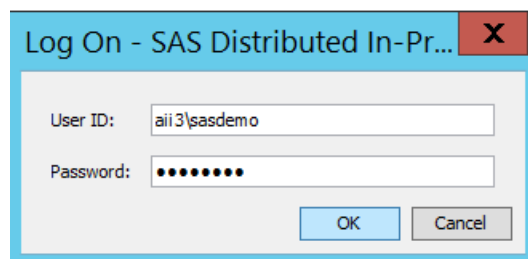


7) Next step is to schedule New Flow "mr_clean_flow"

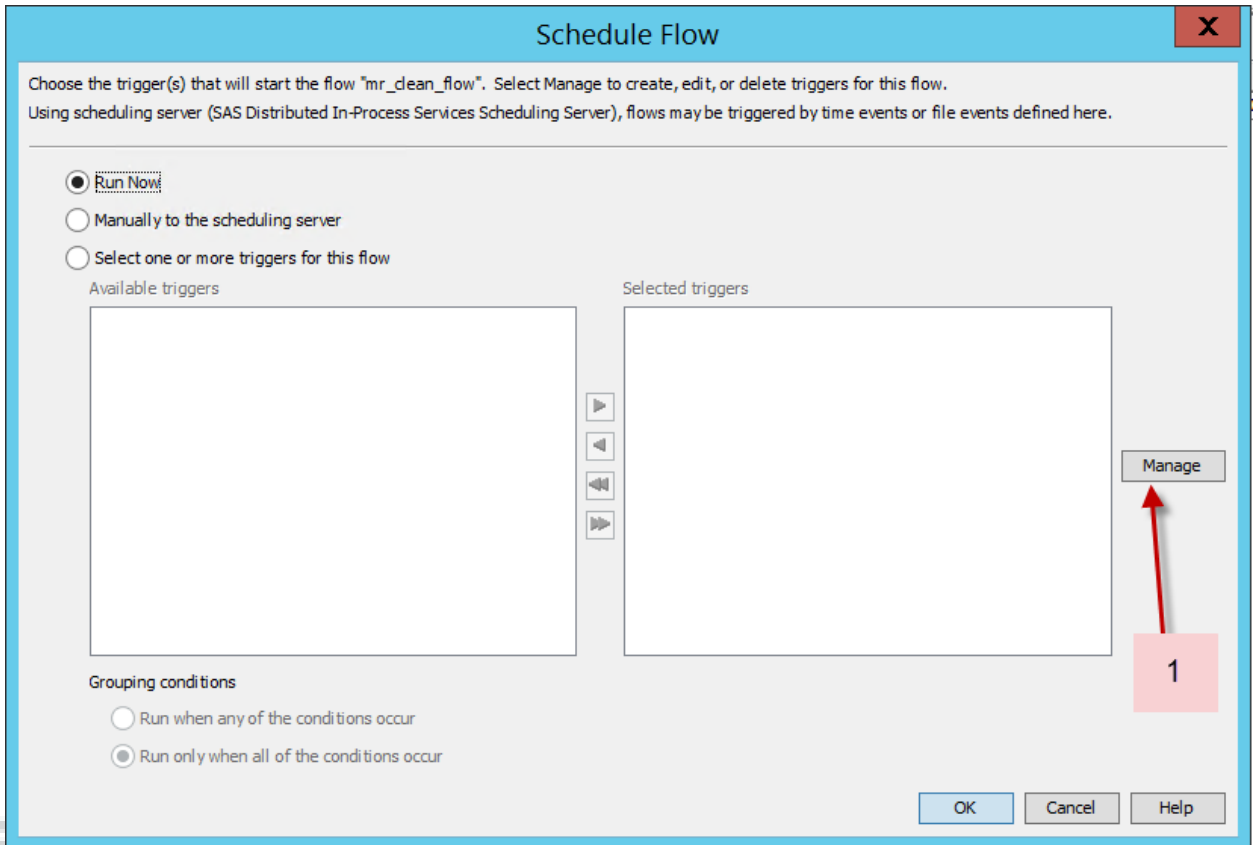
i) Right click on “mr_clean_flow” and choose **Schedule Flow**



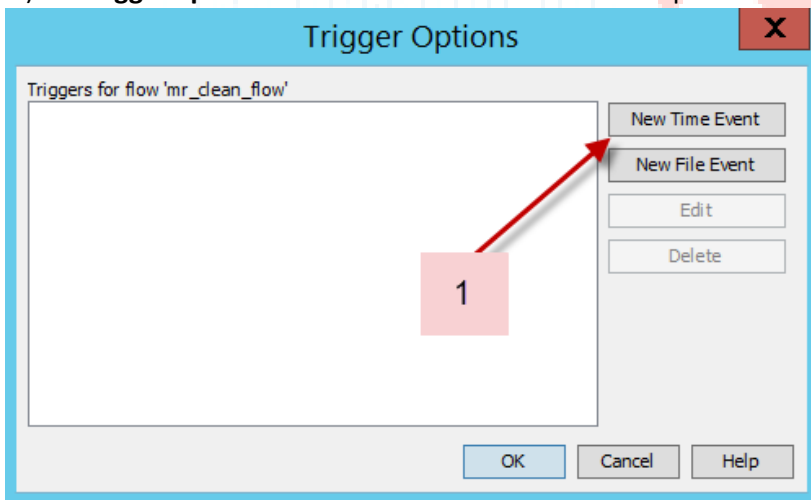
During **scheduling flow** you may be prompted for your metadata profile credentials. Note the ID which will schedule and run the code needs to have appropriate permissions and is not an internal account. Only an external account could spawn a work server session. In our example we used “sasdemo” id



ii) New window prompted for **Schedule Flow**, and for customized trigger choose **Manage** option



iii) On **Trigger options** window select **New Time Event** option



iv) On **New Time Event** window and the following information are required: (we put these values for testing purpose)

Recurrence: Daily

Dailyinterval: 1 day

Time:

a) **Hour:** 3 a.m.

b) **Minutes:** 00 or you could use any values from 00 to 55

Date Range:

a) **Start Date:** Month: June Day: 15 Year:2020

b) **End Date:** Month :June Day: 15 Year:2020

Click **OK**

New Time Event

Recurrence: **Daily**

Interval

Daily interval: **1 day**

Every weekday (Monday - Friday)

Time

Hour: **3 a.m.** Minute: **00**

Date Range

Start Date: Month: **June** Day: **15** Year: **2020**

End Date: None Month: **June** Day: **15** Year: **2024**

OK **Cancel** **Help**

Unleash performance

v) Click **OK**

Trigger Options

Triggers for flow 'mr_clean_flow'

Runs every day effective 6/15/20 until 6/15/24 at 3:00

New Time Event

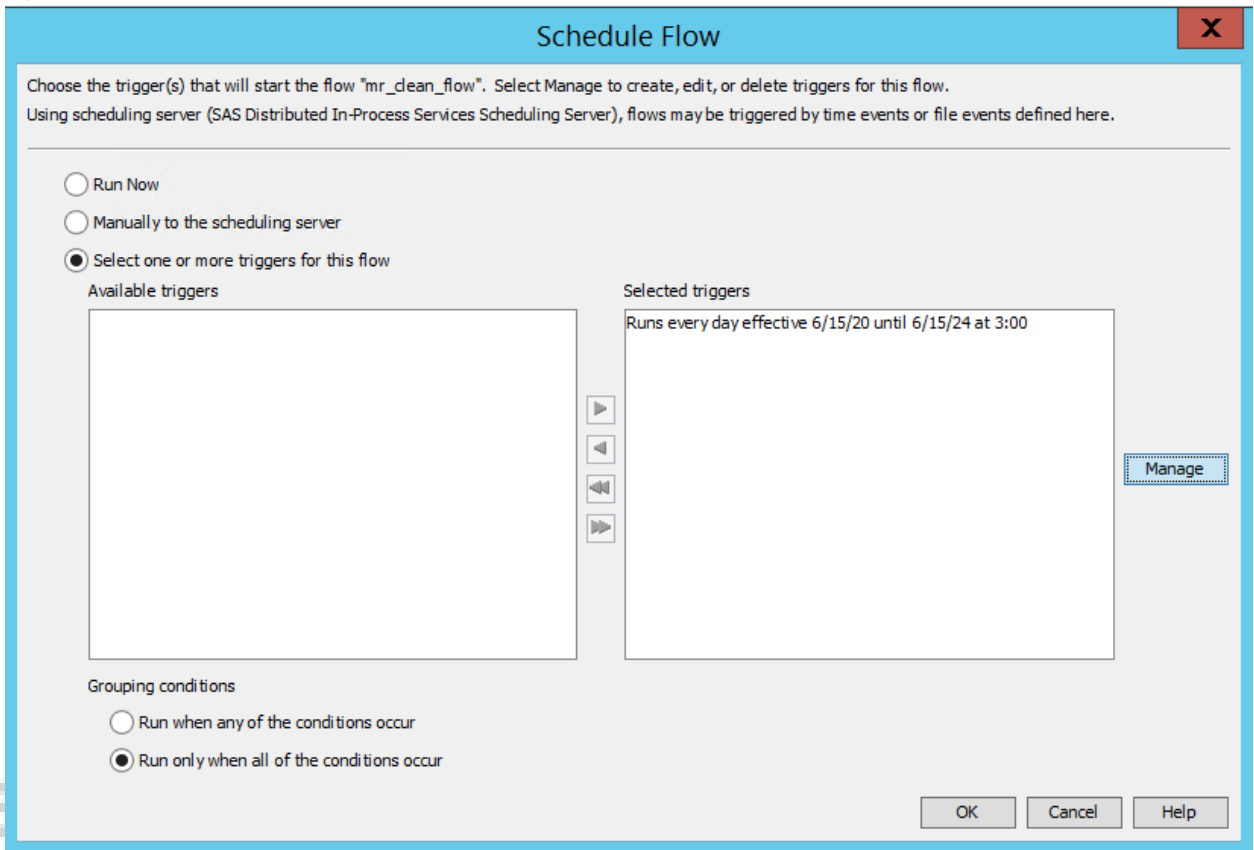
New File Event

Edit

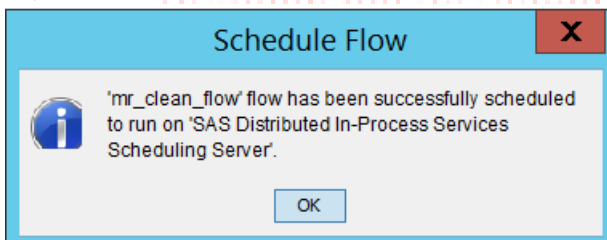
Delete

OK **Cancel** **Help**

vi) Click **OK**



vii) Click **OK**



- 8) After few hours you could see log files in log directory
“C:\SAS\Config\Lev1\SASApp\BatchServer\Logs\mr_clean_*.log”

File Explorer window titled "Logs" showing the directory path: This PC > Local Disk (C:) > SAS > Config > Lev1 > SASApp > BatchServer > Logs. The window displays a list of files:

Name	Date modified	Type	Size
mr_clean_2020.06.16_03.00.08.log	6/16/2020 3:00 AM	Text Document	23 KB
mr_clean_2020.06.15_04.10.15.log	6/15/2020 4:10 PM	Text Document	23 KB

