Trigger the Process Chain by ABAP Program and how to Schedule ABAP Program as Background Job

Applies to:

SAP Business Intelligence 7.0. For more information, visit the EDW homepage

Summary

This article describes how to trigger the Process Chain on every 3rd Sunday of the current month by ABAP program and how to schedule the ABAP program as background job.

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Created on: 08 June, 2011

Author Bio

Sreenivas Nannuri is working with Accenture Private Ltd. past 1.5 years. He is currently working on SAP BI 7.0 and has experience of ABAP & BI 7.3 as well. He also worked on different areas in BI like modeling, reporting, information broadcasting & production support, ETL process.

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Introduction:

This article describes how to trigger the Process Chain on every 3rd Sunday of the current month by Event.

This logic is useful in different scenarios like Monday, Tuesday..etc with little bit modification.

How to Achieve:

Using ABAP Program, we can implement it.

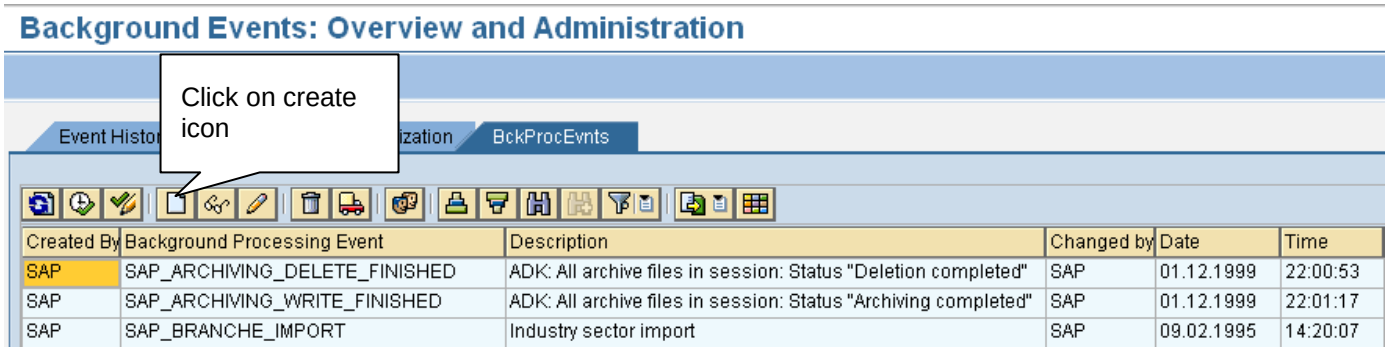
This program will works based on System Date, it will check SY-DATUM of current month and then it System date is matching with our requirement then this program will trigger Event, so based on this event, our Process Chain will Trigger.

Steps to be follow to trigger the process chain by event.

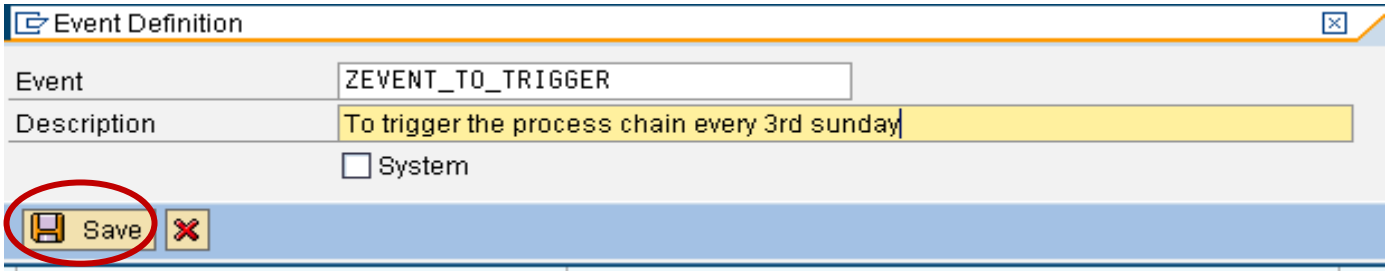
1) Event Creation By Using the Transaction SM64
2) Build The Process Chain By Using the Transaction RSPC
3) Develop the Program By Using the Transaction SE38
4) Schedule the Back Ground Job (Program) By Using the Transaction SM64

Step 1: Event Creation

Call the Transaction SM64.



You will get the following pop up, maintain the Event Name & Event Description.



Click on **SAVE**.

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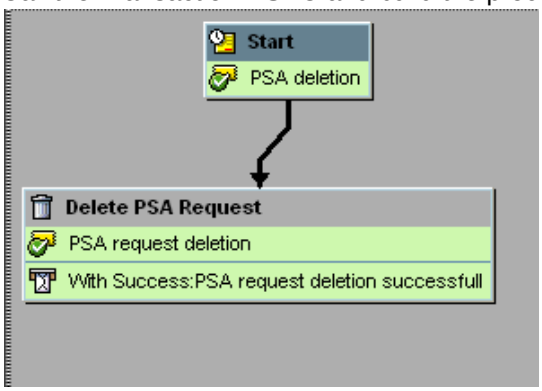
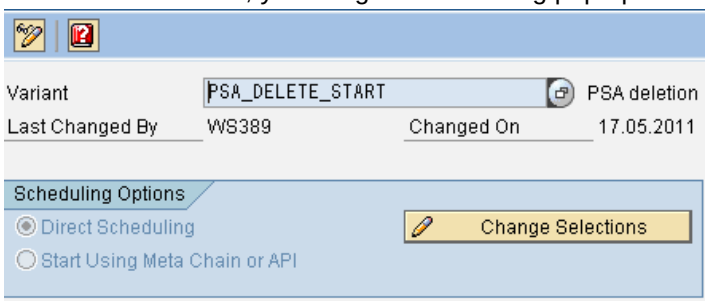
Step 2: Build the Process Chain By Using the Transaction

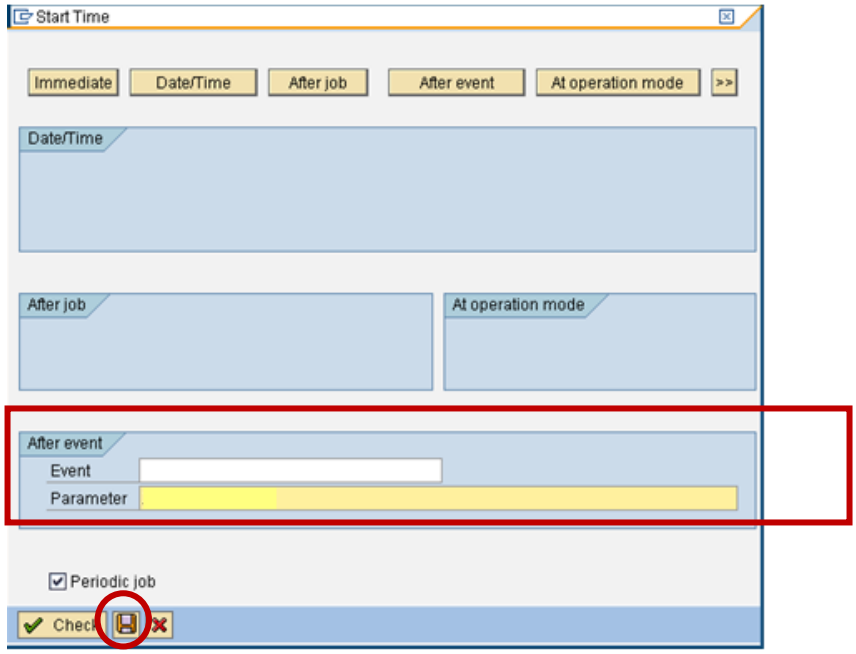
I. Call the Transaction RSPC and build the process chain as per requirement.



II. Double click on Start, you will get the following pop up.



Click on Change Selections and give the Event name, Parameter name and select Periodic Job and SAVE.
You will get the following pop up.



III. Click on AFTER EVENT push button. And maintain the Event name which we define in SM64 And click on Save, Activate and Execute the Process Chain once.

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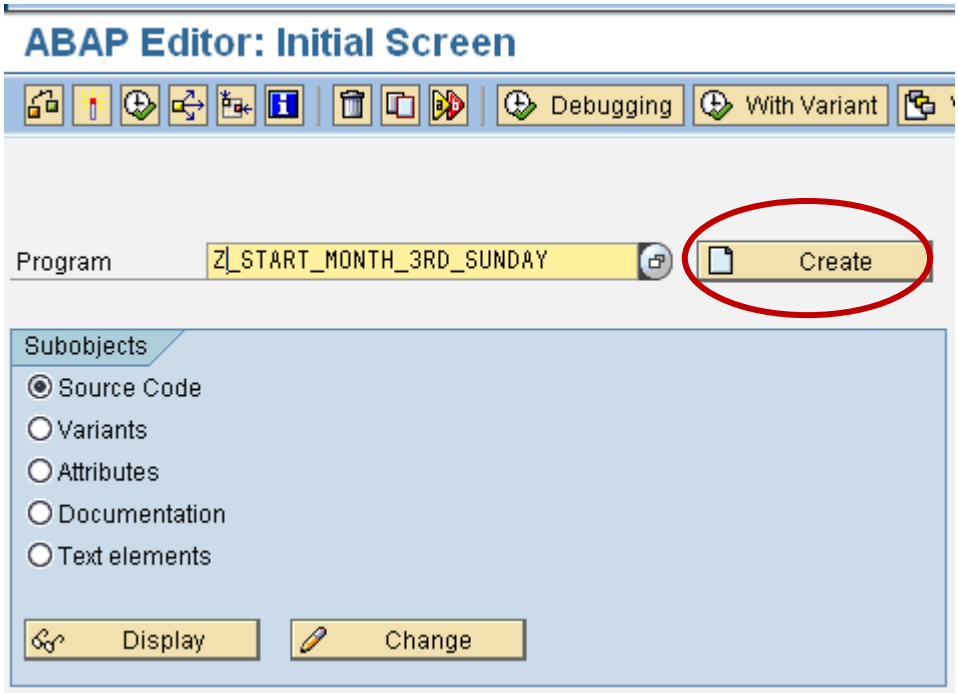
Step 3: Develop the Program (To trigger the process chain on every 3rd Sunday of current month)

Call transaction SE38 to develop the code. Click on create button.



Copy this program and paste and enhance as per your requirement.

```
DATA: p_date LIKE sy-datum.
DATA: EVENTID type TBTCJOB-EVENTID.
DATA: EVENTPARM type TBTCJOB-EVENTPARM.

P_DATE = SY-DATUM.

DATA: date LIKE scal-date,
      Day LIKE scal-indicator.
** Get the day of the first day of the month.

IF p_date NE '00000000' OR p_date NE space.

*make the date to sync with the start of month.
p_date+6(2) = '01'.
date = p_date.
CALL FUNCTION 'DATE_COMPUTE_DAY'
EXPORTING
Date = date
IMPORTING
day = day.

CASE day.

WHEN 1. "WHEN MONDAY
ADD 6 TO date.

WHEN 2.
ADD 5 TO date.
```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```
WHEN 3.
ADD 4 TO date.

WHEN 4.
ADD 3 TO date.

WHEN 5.
ADD 2 TO date.

WHEN 6.
ADD 1 TO date.

WHEN 7.
ADD 0 TO date.

ENDCASE.
ADD 14 TO date.

WRITE:/ sy-uline.
WRITE:/ 'THIRD SUNDAY OF THE MONTH IS ON ', date.

IF SY-DATUM EQ DATE.
CALL FUNCTION 'BP_EVENT_RAISE'
  EXPORTING
    EVENTID                      = ‘ZEVENT_TO_TRIGGER’
*    EVENTPARM                    =
*   TARGET_INSTANCE              =
* EXCEPTIONS
*   BAD_EVENTID                  = 1
*   EVENTID_DOES_NOT_EXIST       = 2
*   EVENTID_MISSING              = 3
*   RAISE_FAILED                 = 4
*   OTHERS                       = 5


        .
IF SY-SUBRC <> 0.
* MESSAGE ID SY-MSGID TYPE SY-MSGTY NUMBER SY-MSGNO
*         WITH SY-MSGV1 SY-MSGV2 SY-MSGV3 SY-MSGV4.
ENDIF.
ELSE.
EXIT.
ENDIF.
```


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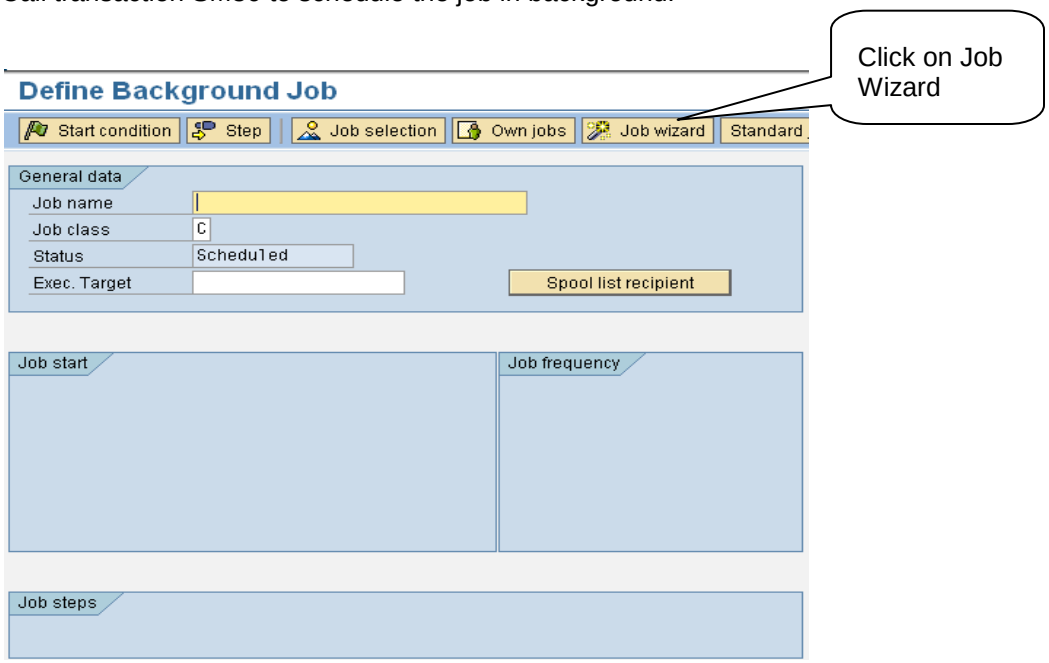
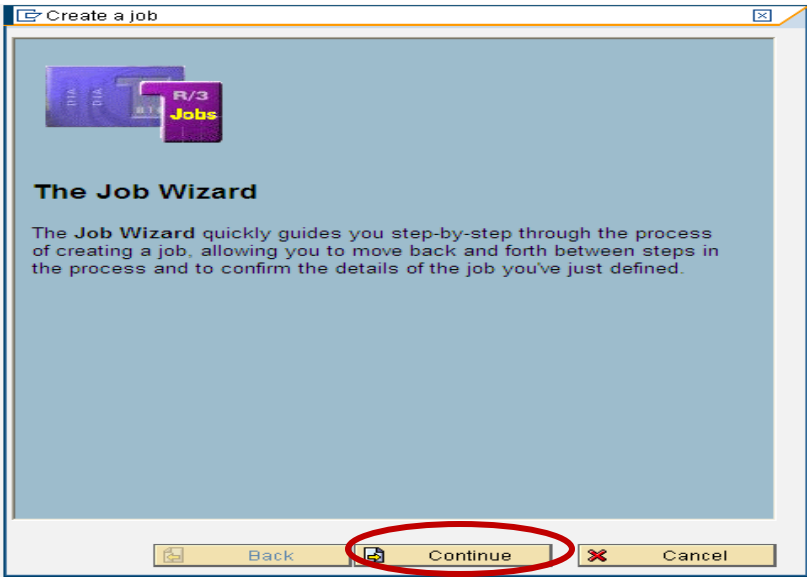
Step 4: Schedule the Program in Back Ground Job

Call transaction SM36 to schedule the job in background.



Click on job wizard pushbutton, you will get the following pop up. Click on **Continue** button.



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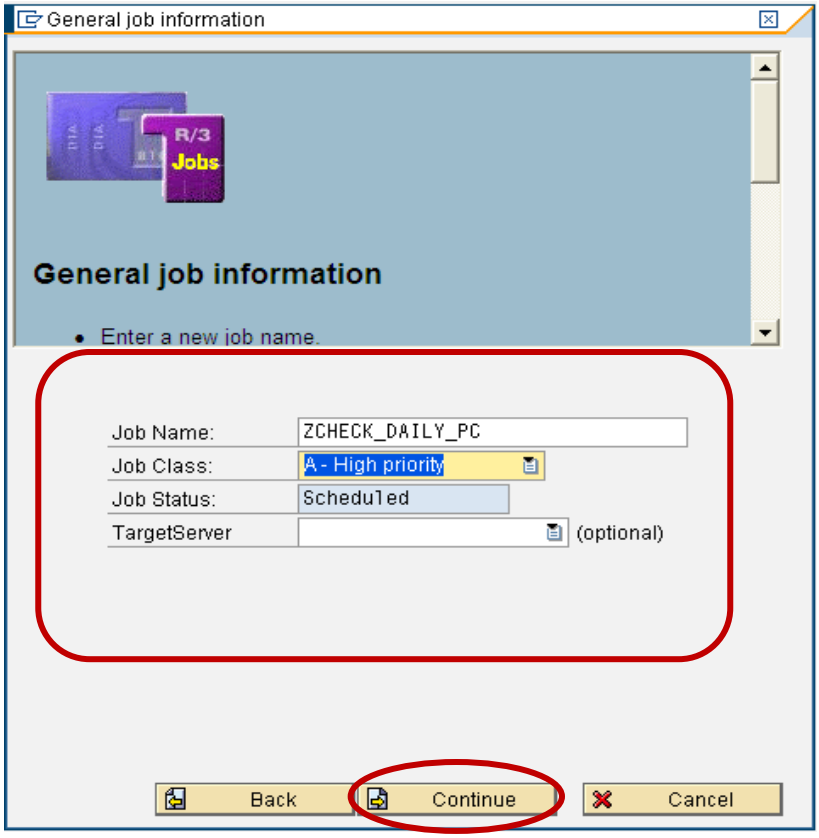
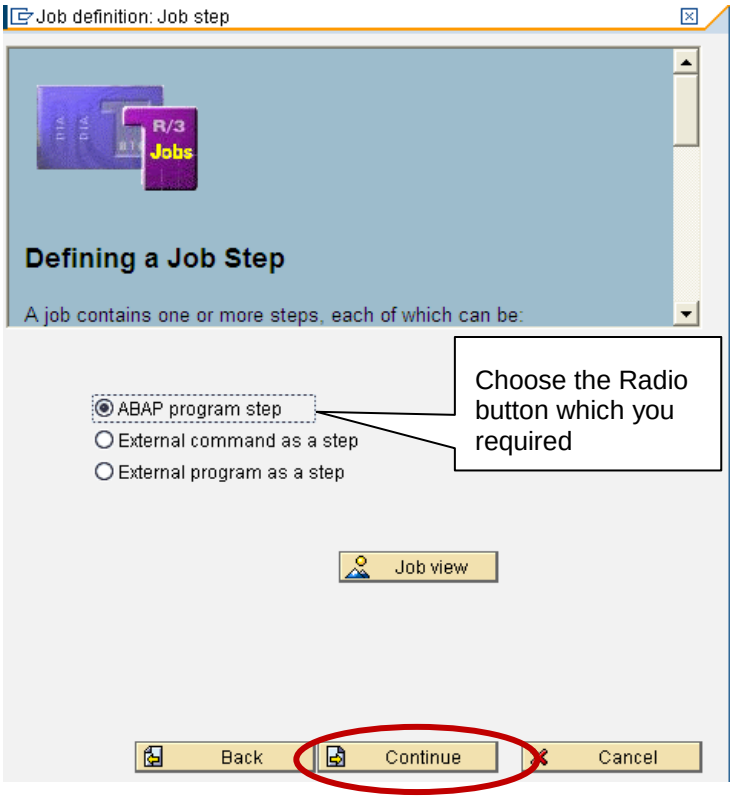
After that you will get the below screen, give the job name, job class and click on **Continue** button.



After that you will get the below screen, select the radio button which required and click on continue button.



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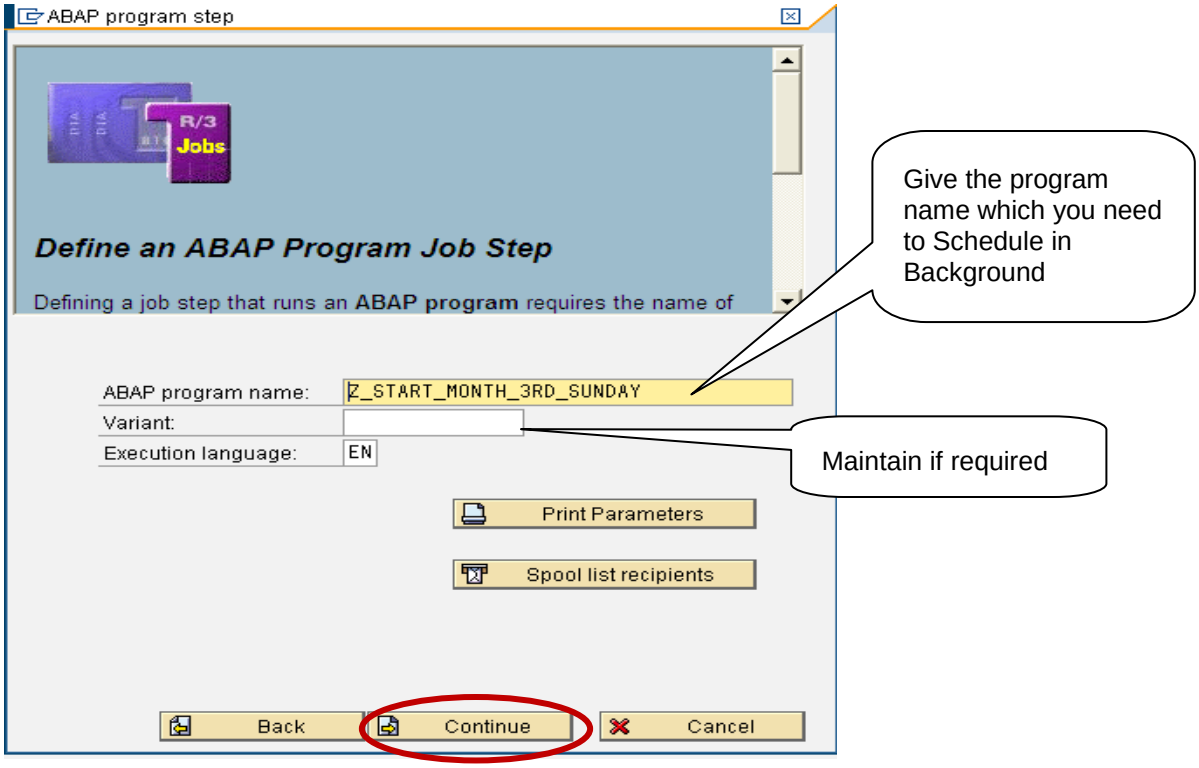
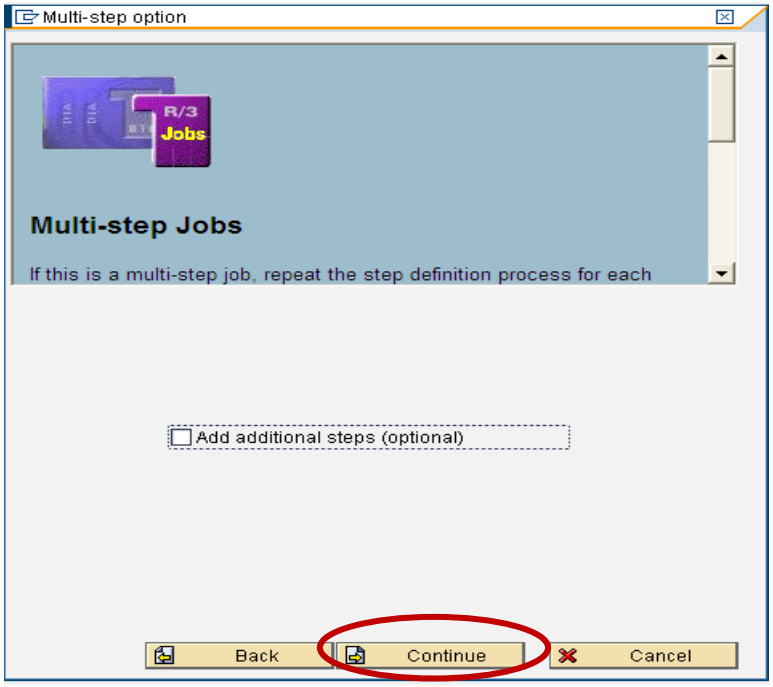
After that you will get below screen, Give the Program name which you need to schedule in background. Maintain the variant if your program is having selection-screen. And click on continue button.

Click on continue button.





Click on continue button.

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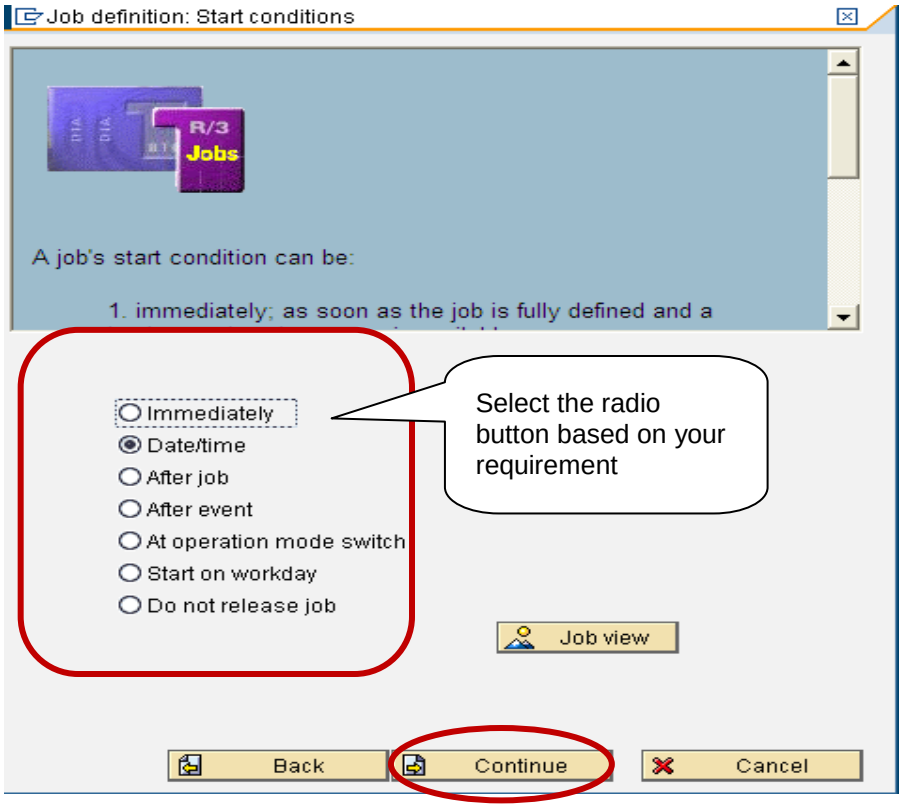
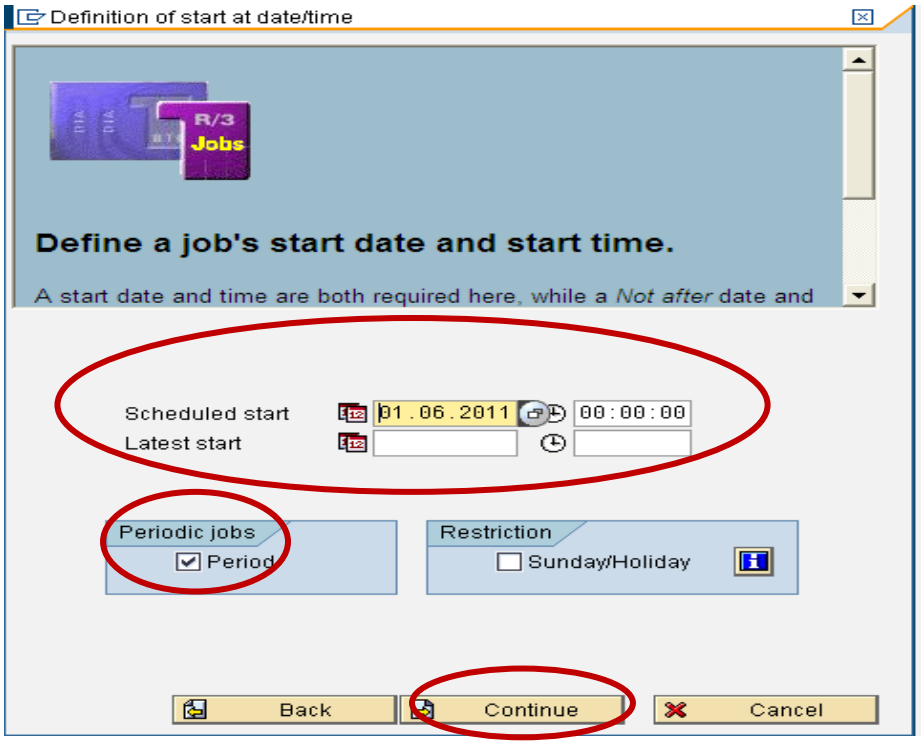
After that you will get the below screen, select the radio button which you required & click on continue button.



After that you will get the below screen to maintain the Job schedule start date and time.

Check the check box of period (Periodic Jobs) and click on continue button.



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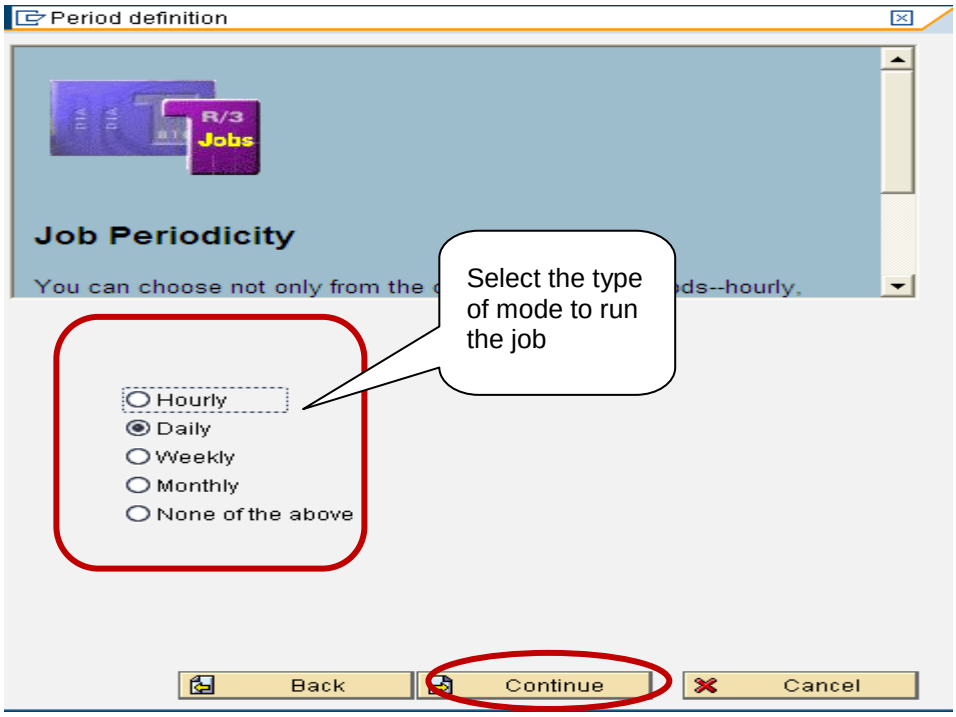
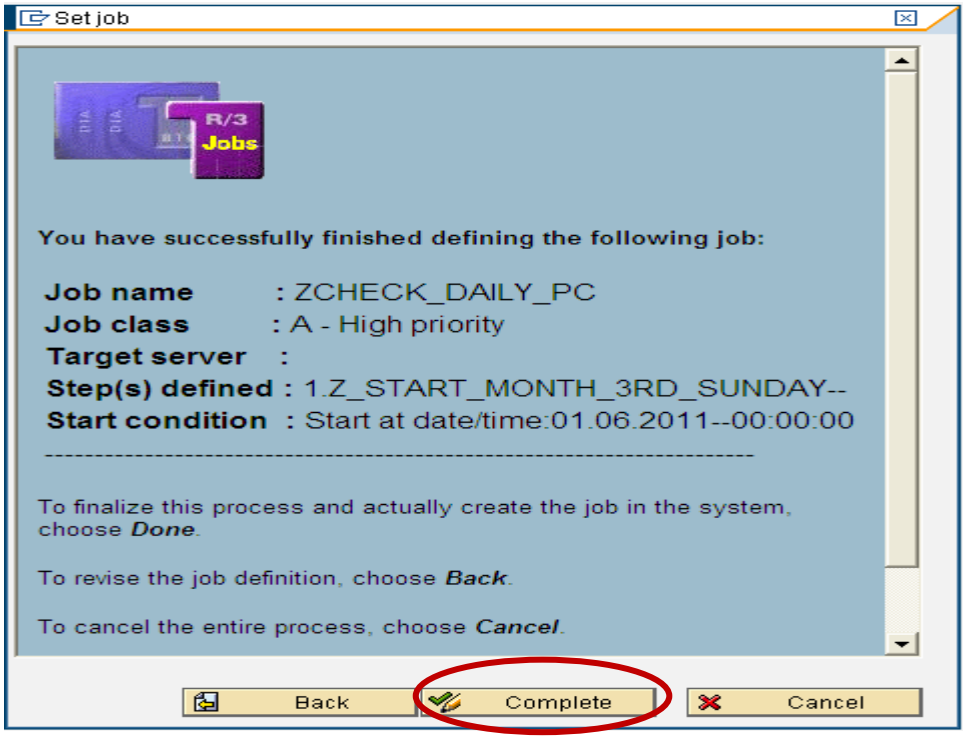
After that you will get the below screen, Select the radio button which you required(Type of mode to run the job) and click on Continue button.



After that you will get following pop up, click on continue. The Job is scheduled as per you requirement.



Then the Program runs **DAILY,** if our requirement meets (3rd Sunday of current month) with System date then the Event will trigger and then the Process chain will trigger else Program won't trigger any Event.

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