In this article I want to explain step by step Developer6i version upgrade on E-Business Suite R11

Here is the our steps:

1. we need to check our current **Developer6i** version,if its lower than **Patchset 18** we have to follow below not and upgrade it:

    Upgrading Developer 6i with Oracle Applications 11i [ID 125767.1]

    Let us first check our instance **Developer 6*i* version** as follow:

    - Login to the application
    - Navigate to Help > About Oracle Applications

    Check "Oracle Forms Version" and use the following note to know the corresponding Developer 6i Patchset.

    Upgrading Developer 6i with Oracle Applications 11i [ID 125767.1]
    Information on Previous Versions of Developer 6i Patchsets [ID 232313.1]

    Here is an example:

    If you have Forms: 6.0.8.27.x --> You are on Developer 6i Patch 18
    If you have Forms: 6.0.8.26.x --> You are on Developer 6i Patch 17
    If you have Forms: 6.0.8.25.x --> You are on Developer 6i Patch 16
    If you have Forms: 6.0.8.24.x --> You are on Developer 6i Patch 15

    And so on.

    In my case(by default installation) I have :
    Forms 6.0 (Form Compiler) Version 6.0.8.25.2 (Production) which mean I have Developer 6i Patch 16
    So I need to upgrade my Developer6i at least Patchset 18 or upper(We will use Patchset19)

    Before starts, Don't forget below patch could be replace with new ones.
    Here is our steps:

    A. Check **Step 1: Select Forms runtime architecture and Communications mode**
           Check s_frmConnectMode parameter from APPL_TOP/admin/<SID>_<host>.xml
         frmConnectMode , In my case it should be **socket**

B. Check **Step 2: Download the latest Certified Developer 6i Patchset and Applications Interoperability Patch**

I need to download below patch:

Developer 6i Patch 6194129

Apps Interop Patch 9410366

C. Check **Step 3: Download Additional Developer 6i Patches**

I am on linux version so I need linux patches which is listed below:
9444996
6125732
6857221
5232832
7329300
8888184****<<These patches cause errors when clicking a forms link from the Notification Details Page.This is fixed by patch 9094950, see Notification Details Page in the 'Known Issues' section of this note for further information**

D. Check **Step 4: Stop the Forms, Reports, HTTP, and Concurrent Manager Servers**

You must stop all server processes that may be impacted by the Developer 6i patch before applying it. Follow below steps:

Login as applmgr user
Go to scripts home and run ./adstpall.sh apps/<apps_pswd>

E. Check **Step 5: Install the Developer 6i Patch**

Login as applmgr user,than follow below steps:

- Copy the files in this patch to your $ORACLE_HOME.
- Unzip the patch using either WinZip on NT or unzip on Unix.
- Run the install script contained in the patch:
- cd $ORACLE_HOME/developer6i_patch19
- ./patch_install.sh 2>&1 | tee patch_install_p19.log (ksh)
- ./patch_install.sh |& tee patch_install_p19.log (csh)
- Check patch_install_p19.log for errors.
- Relink Procedure Builder, Forms, Graphics and Reports:
- cd $ORACLE_HOME/procbuilder60/lib; make -f ins_procbuilder.mk install
- cd $ORACLE_HOME/forms60/lib; make -f ins_forms60w.mk install

- cd $ORACLE_HOME/graphics60/lib; make -f ins_graphics60w.mk install
- Reports has both link-time and run-time dependency with libjava.so so you need to append $ORACLE_HOME/network/jre11/lib/linux/native_threads in $LD_LIBRARY_PATH before linking Reports. The same $LD_LIBRARY_PATH should be used at run-time.
- cd $ORACLE_HOME/reports60/lib; make -f ins_reports60w.mk install

F. Check **Step 6: Install the Additional Developer 6i Patches**
I am on linux version so I need linux patches which is listed below:
9444996
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8888184**<<These patches cause errors when clicking a forms link from the Notification Details Page.This is fixed by patch 9094950, see Notification Details Page in the 'Known Issues' section of this note for further information**
7329300

Check read-me part for all patch before applying those patches to your instance

G. Check **Step 7: Relink Applications Executables on UNIX Platforms**

Login as applmgry user and source env file, than run adadmin utility via "adadmin" command

When the Main Menu appears select 'Maintain Applications Files Menu' and then select 'Relink Applications Program'
Answer the questions below as follows, in order to select the individual executables for relinking.

Enter list of products to link ('all' for all products)[all] : fnd
Generate specific executables for each selected product [No] ? y
Relink with debug information [No] ? n

(You will then be offered a list of executables that are available for relinking)

Enter executables to relink, or enter 'all' [all] : f60webmx ar60run ar60runb ar60rund *

* In a multi-node configuration, not all these executables exist on each node. The list of executables will show those that do exist on the node you are currently running on, and only those should be entered to avoid errors.

Refer to the *Maintaining Oracle Applications* manual for more information on how to use the AD Administration Utility or AD Relink Utility for relinking executables as follows

Do you wish to proceed with the relink [Yes] ? yes << enter

Enter the name of your Oracle Applications environment file below.

File name [TEST_apps.env] :   << enter

Enter list of products to link ('all' for all products)[all] : fnd
Generate specific executables for each selected product [No] ? y
Relink with debug information [No] ? n

(You will then be offered a list of executables that are available for relinking)

Enter executables to relink, or enter 'all' [all] : f60webmx ar60run ar60runb ar60rund *

H. Check **Step 10: Verify your upgrade and Step 11: Start the Forms, Reports, HTTP, Concurrent Manager Servers**

I. **Don't forget to to check Step 12: Review the Known Issues for related patch which is related with your instance**

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Before we stared upgrade our Developer version is:

Forms 6.0 (Form Compiler) Version 6.0.8.25.2 (Production)

and now it

Forms 6.0 (Form Compiler) Version 6.0.8.28.0 (Production)