HHS CMS HR BizFlow System

Incremental Deployment

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# Introduction

This document describes how to deploy the new release of NEIL system to HHS Production environment. This document assums that previous version of NEIL is already installed on HHS Production environment.

This document is not for new environment.

# Required software

Install following software on your HHS Laptop. These tools are required for HHS Production deployment.

1. Git (If you have Git, skip this section.)
   1. Git – Download from following URL

https://git-scm.com/download/win

* 1. You can download setup module or portable module.
  2. Setup module requires insallation, but portable module doesn’t.
  3. After installation is completed (or extraction), execute following command from command prompt.

git clone <https://github.com/HHS/CMS-BizFlow.git>

* 1. You can find CMS-BizFlow folder. And this folder will be referenced as [git/CMS-BizFlow].

1. BizFlow Process Stuiod (BPS) (If you have BPS, skip this section.)
   1. Installation is required.
   2. Download from following URL.

<http://cms.bizflow.com/bizflow/setup/BizFlow_Process_Studio_12.4.zip>

* 1. Install BPS. Refer 4.1
  2. Check whether you can connect to BizFlow on HHS Production environment before deployment. Refer 3.2

1. BizFlow Reporting Tool (If you have BizFlow Reporting Tool, skip this section.)
   1. Download from following URL.

[http://cms.bizflow.com/bizflow/setup/BizFlowReporting.zip](http://cms.bizflow.com/bizflow/setup/BizFlow_Advanced_Reporting_12.4.zip)

* 1. Extract BizFlowReportin.zip file.
  2. You can find BizFlowReporting folder. This folder will be referenced as [BizFlowReporting].

1. Winscp.exe or FTP client (If you have winscp or ftp client, skip this section.)
   1. Deployment package should be uploaded to HHS Production environment.
   2. Checkk whether you can connect to HHS Production environment before deployment.
2. Putty (If you have Putty, skip this section.)
   1. Download from following URL

<https://www.putty.org>

* 1. Installation is not required but just extract zip file.
  2. Check whether you can connect to HHS Production environment before deployment.

# Step by Step deployment instruction

## Download package

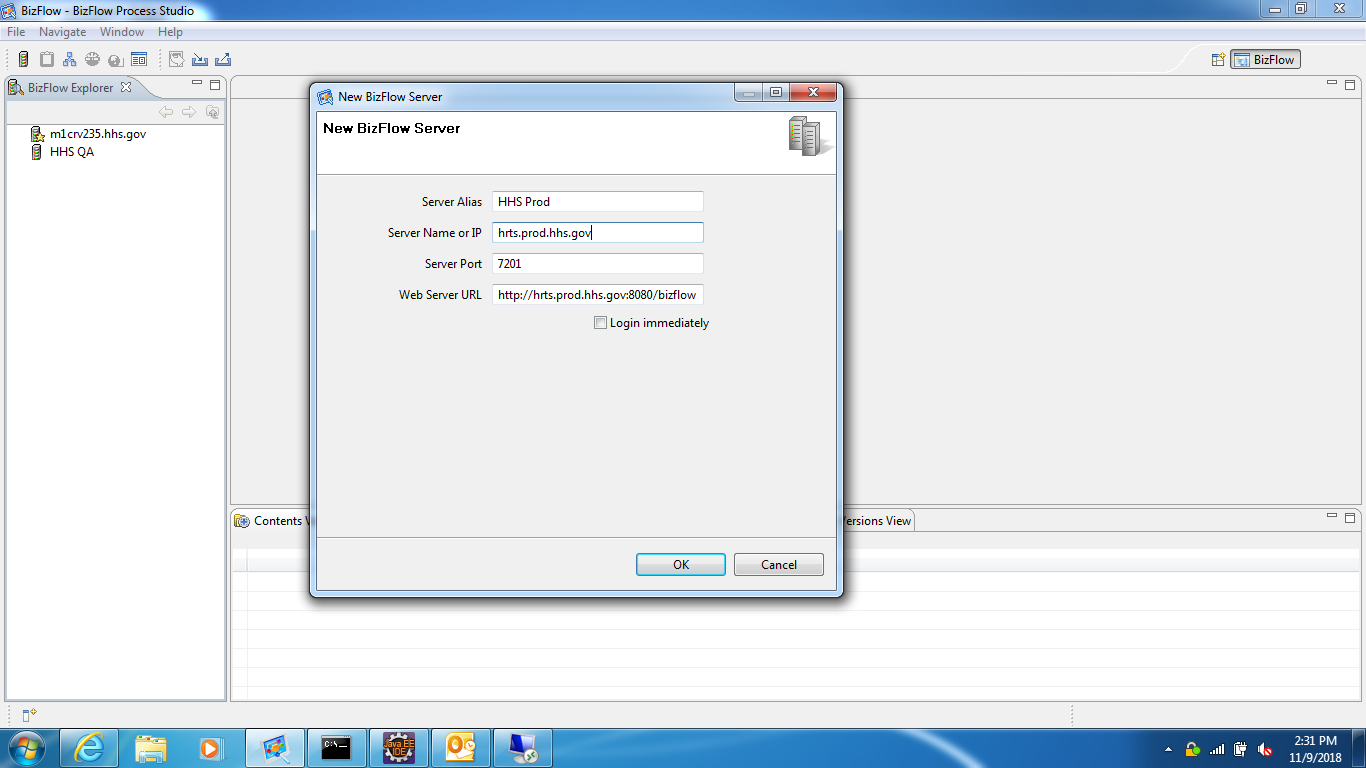
1. From your HHS Laptop, under [git/CMS-BizFlow] folder, execute following command from command prompt.

*git pull*

1. Above command will download latest codebase from github.

## Configure BizFlow Process Studio

1. From your HHS Laptop, Launch “BizFlow Process Studio”
2. Click “BizFlow Server” from the File -> New from the menu of BizFlow Process Studio



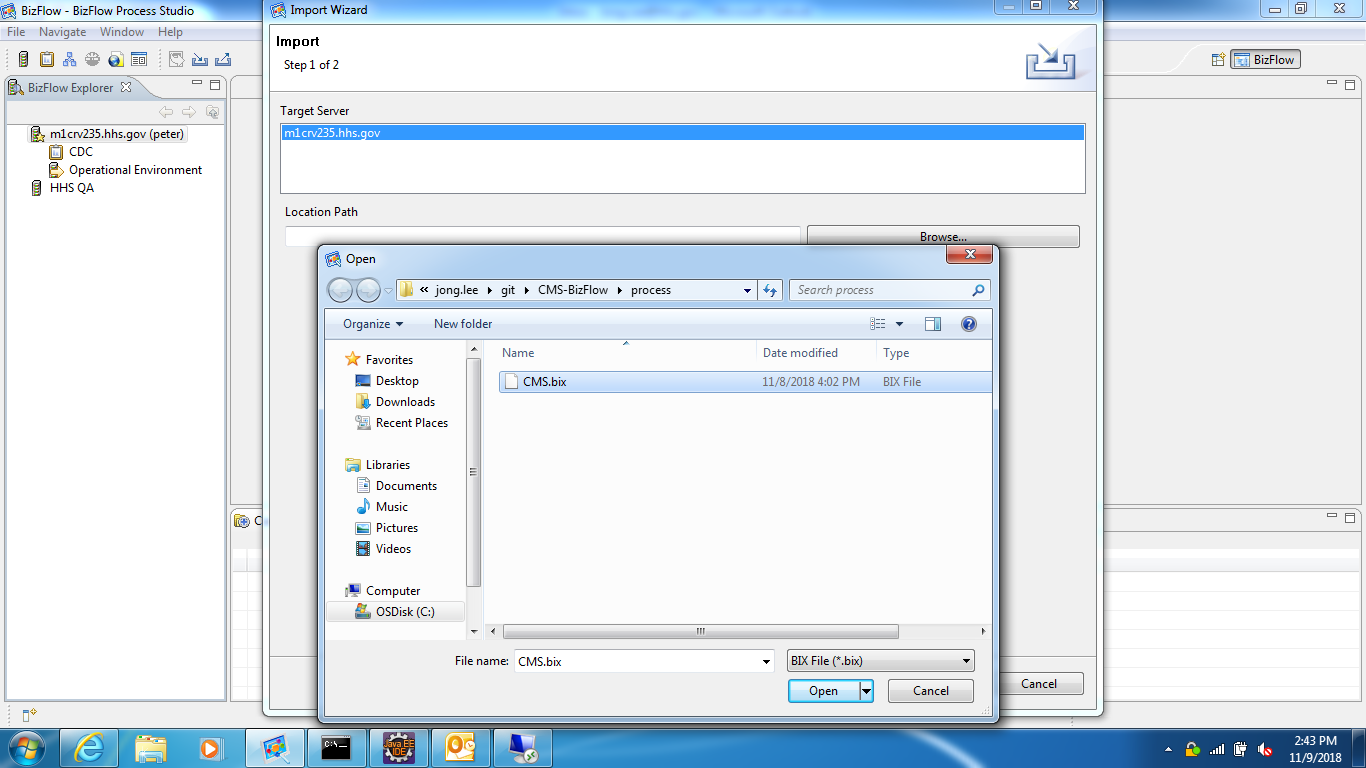
1. Enter “HHS Prod” in “Server Alias”. This will be displayed in left pang.
2. Enter “hrts.prod.hhs.gov” in “Server Name or IP”
3. Enter 7201 in “Server Port”.
4. Web Server URL will be automatically filled in. This URL should be like following.

http://hrts.prod.hhs.gov:8080/bizflow

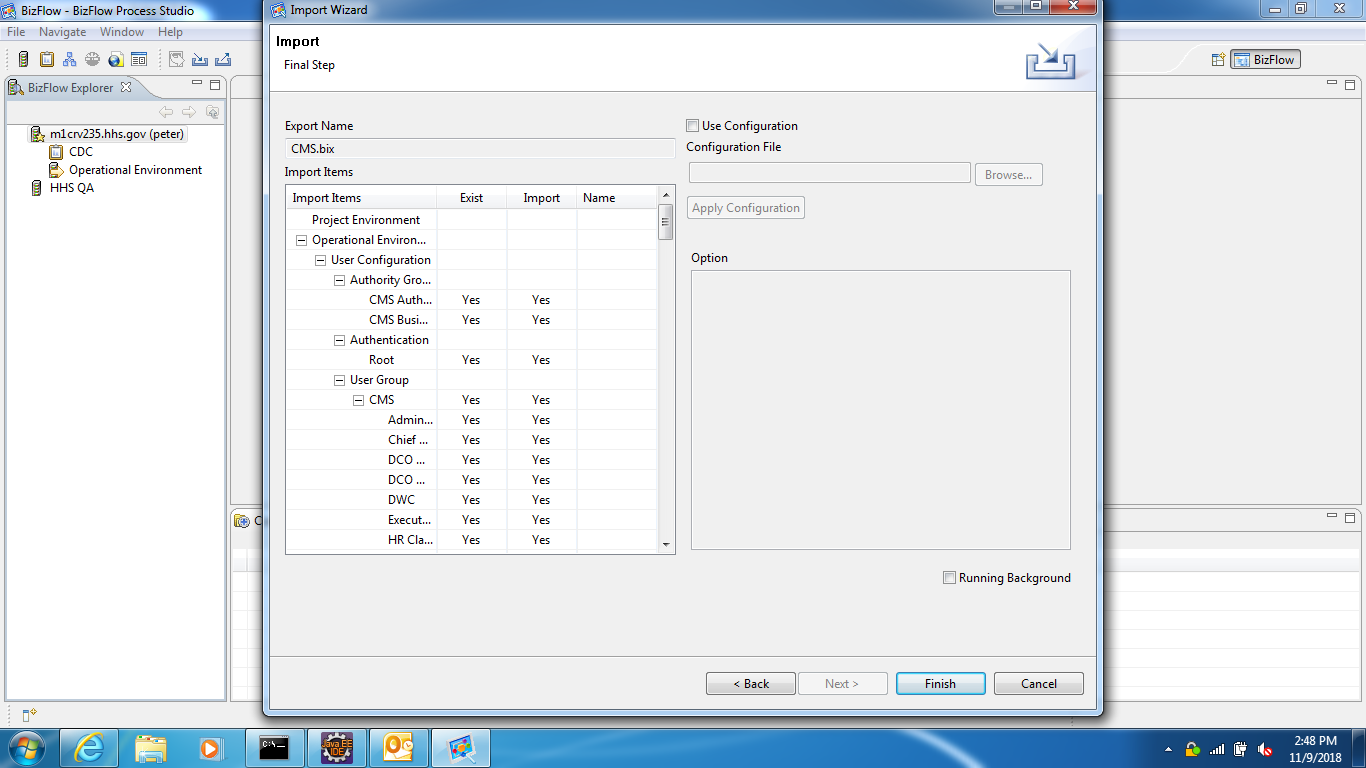
1. Click “OK”

## Deploy BizFlow BIX file

1. Right Click on “HHS Prod” in left pane from BizFlow Process Studio.
2. Click “Connect” from popup menu.
3. Enter “dev” to “Login ID”
4. Enter password to “Password”.
5. Click “Import” from File menu of BizFlow Process Studio.
6. Click “Browse” button from popup window.
7. Select “**CMS.bix**” from **[git]/CMS-BizFlow/process/201903\_PROD** folder.



1. Click “Open” button and then click “Next” button.
2. You will see “Final Step” from Import Wizard. Click all – (minus) icon in left pane so that we can expand all collapsed nodes.



1. The column “Exist” can have “Yes”, “No” or empty. If “Exist” column has other value, then stop import and contact BizFlow.
2. The column “Import” can have “Yes”, “No”. But as default value, it should have “Yes”. If any record has “No”, then change to “Yes”.
3. If there is any “Conflict” in “Import” column, stop import and contact BizFlow.
4. If there is no issues, then click “Finish”.
5. Migration will take about 5 minutes to 10 minutes. Import wizard might not respond due to heavy operation. Do not interrupt the migration.
6. After migration is completed, Notification window will pop up. Click “View log” and check log file.
7. If log file contains any error log, contact BizFlow.

## Deploy BizFlow Report

1. Open command prompet from your HHS Laptop.
2. Go to the folder [BizFlowReporting]/buildomatic/build\_conf/default.
3. Open js.jdbc.properteis and enter password to following item.

metadata.jdbc.password=

1. Go to the folder [BizFlowReporting]/buildomatic
2. Execute following command from command prompt.

*export\_database\_connection.bat*

If it fails, contact BizFlow.

If you don’t have “export\_database\_connection.bat” file, copy from [git/CMS-BizFlow]/report folder.

1. You will get hhscmsreport\_prod\_datasource.zip
2. Copy **hhscmsreport.zip** from **[git/CMS-BizFlow]/report/201903\_PROD** folder to [BizFlowReporting]/buildomatic.
3. Execute following command from command prompt.

*import\_report.bat*

If you don’t have “import\_report.bat” file, copy from [git/CMS-BizFlow]/report folder.

1. If there is any error, stop importing and contact BizFlow.
2. Execute following command from command prompt.

*import\_datasource.bat*

If you don’t’ have “import\_datasource.bat” file, copy from [git/CMS-BizFlow]/report folder.

1. If there is any error, stop importing and contact BizFlow.

## Upload WebMaker Projects, EWITS2 Job Aid & BizFlow Patch files

1. Open winscp or ftp client to upload webmaker project file to HHS Production environment.
2. Login with your account from winscp or ftp client.
3. Upload **runtime.zip** from **[git/CMS-BizFlow]/ui/201903\_PROD** folder to [HHS Production]/hrts/copydir/cms folder.
4. Upload **ewits2jobaid.war** from **[git/CMS-BizFlow]/deploy** folder to [HHS Production]/hrts/copydir/cms folder.
5. Upload below files from **[git/CMS-BizFlow]/deploy/patch** folder to [HHS Production]/hrts/copydir/cms folder.
   * 12.4.0.0005.00-Linux.RHEL.zip
   * 12.4.0.0006.00-Linux.RHEL.zip
   * 12.4.0.0007.00-Linux.RHEL.zip
   * 12.4.0.0008.00-Linux.RHEL.zip
   * 12.4.0.0009.00-Linux.RHEL.zip
   * 12.4.0.0010.00-Linux.RHEL.zip
6. When uploading is completed, from winscp or ftpclient, adjust file permission on runtime.zip, ewits2jobaid.war and all BizFlow patch files to 777.

## Deploy EWITS2 Job Aid

1. Launch putty and log on into HHS Production with your account.
2. From putty, execute following command

*sudo su sa-bizflow*

1. The file **ewits2jobaid.war** should be copied to Tomcat webapps folder. Execute following command.

*cp /hrts/copydir/cms/ewits2jobaid.war /hrts/prod/tomcat8/apache-tomcat-8.0.37/webapps*

## Deploy BizFlow WebMaker projects

1. Launch putty and log on into HHS Production with your account.
2. From putty, execute following command

*sudo su sa-bizflow*

1. From putty, execute following command

*cd /hrts/copydir/cms*

1. From putty, rename runtime.zip to runtime\_cms\_yyyymmdd.zip. For example, If Today’s date is 04/05/2019, then runtime\_cms\_20190405.zip

*mv ./runtime.zip ./runtime\_cms\_20190405.zip*

1. From putty, copy runtime\_cms\_20190405.zip to /hrts/deploy/baseline/ui

*cp ./runtime\_cms\_20190405.zip /hrts/deploy/baseline/ui*

1. From putty, go to /hrts/deploy/baseline/ui folder

*cd /hrts/deploy/baseline/ui*

1. From putty, if there is **runtime folder** under **/hrts/deploy/baseline/ui**, remove **runtime folder**

*rm –Rf ./runtime*

1. From putty, extract runtime\_cms\_20190405.zip file.

*unzip runtime\_cms\_20190405.zip*

1. From putty, go to /hrts/deploy

*cd /hrts/deploy*

1. From putty, execute following command.

*./deploy\_ui.sh prod -nodebug*

1. Above command will import BizFlow webmaker files and shutdown / restart tomcat on HHS Production environment. Normally this will take around 10 minutes.
2. From your HHS Laptop, when you can access following URL, then notify testers to test NEIL on HHS Production environment.

<https://hrts.prod.hhs.gov/bizflow>

## Deploy BizFlow Patches

1. Launch putty and log on into HHS Production with your account.
2. From putty, execute following command

*sudo su sa-bizflow*

1. Copy BizFlow patch files to BizFlow Update Installer. Execute following command.

*cp /hrts/copydir/cms/12.4.0.00\*.zip /hrts/bfpatch/prod/patches*

1. Shutdown BizFlow Server.
2. Shutdown Tomcat.
3. Go to BizFlow Update Installer folder. Execute following command.

*cd /hrts/bfpatch/prod/updateinstaller/bin*

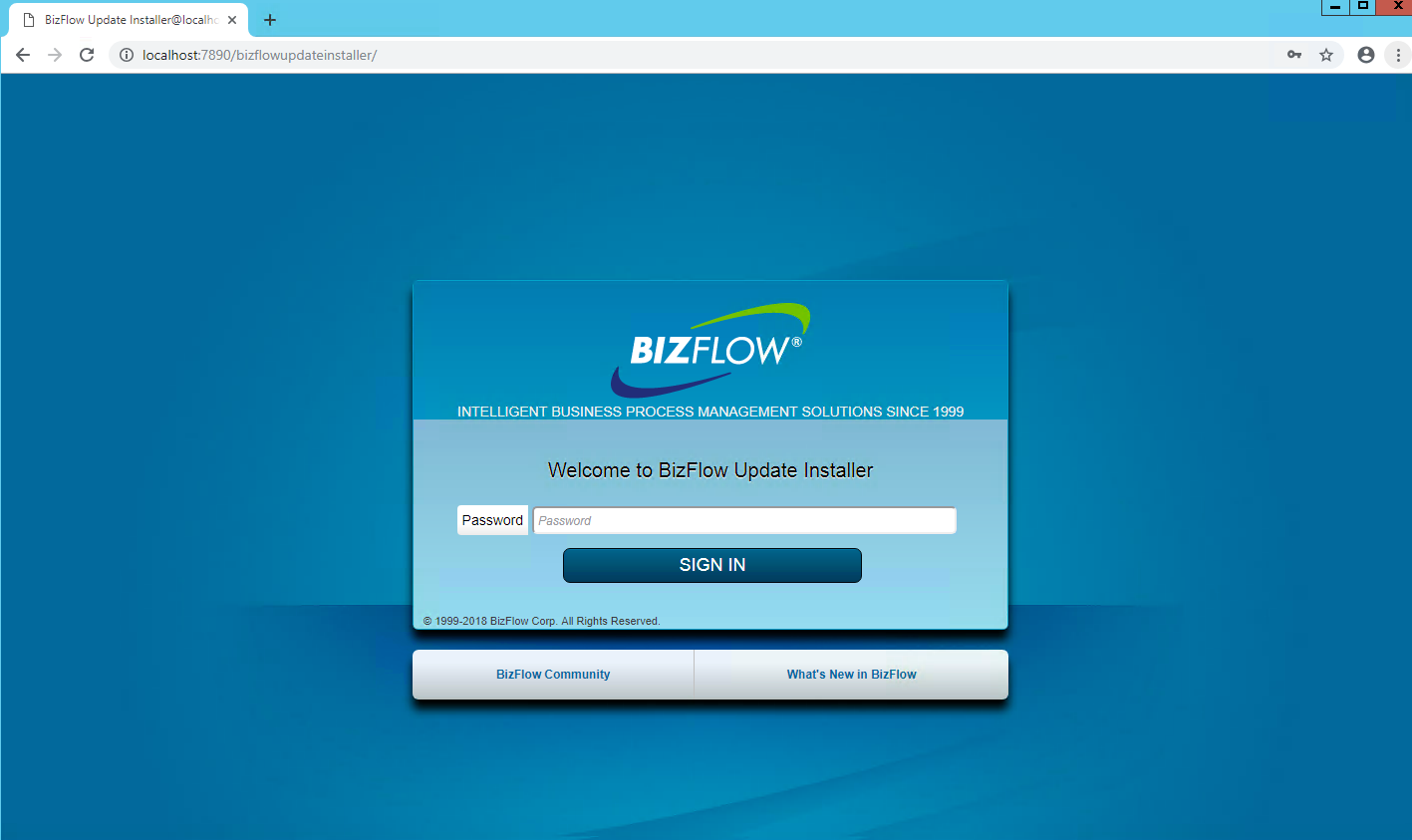
1. Start up BizFlow Update Installer folder. Execute following command.

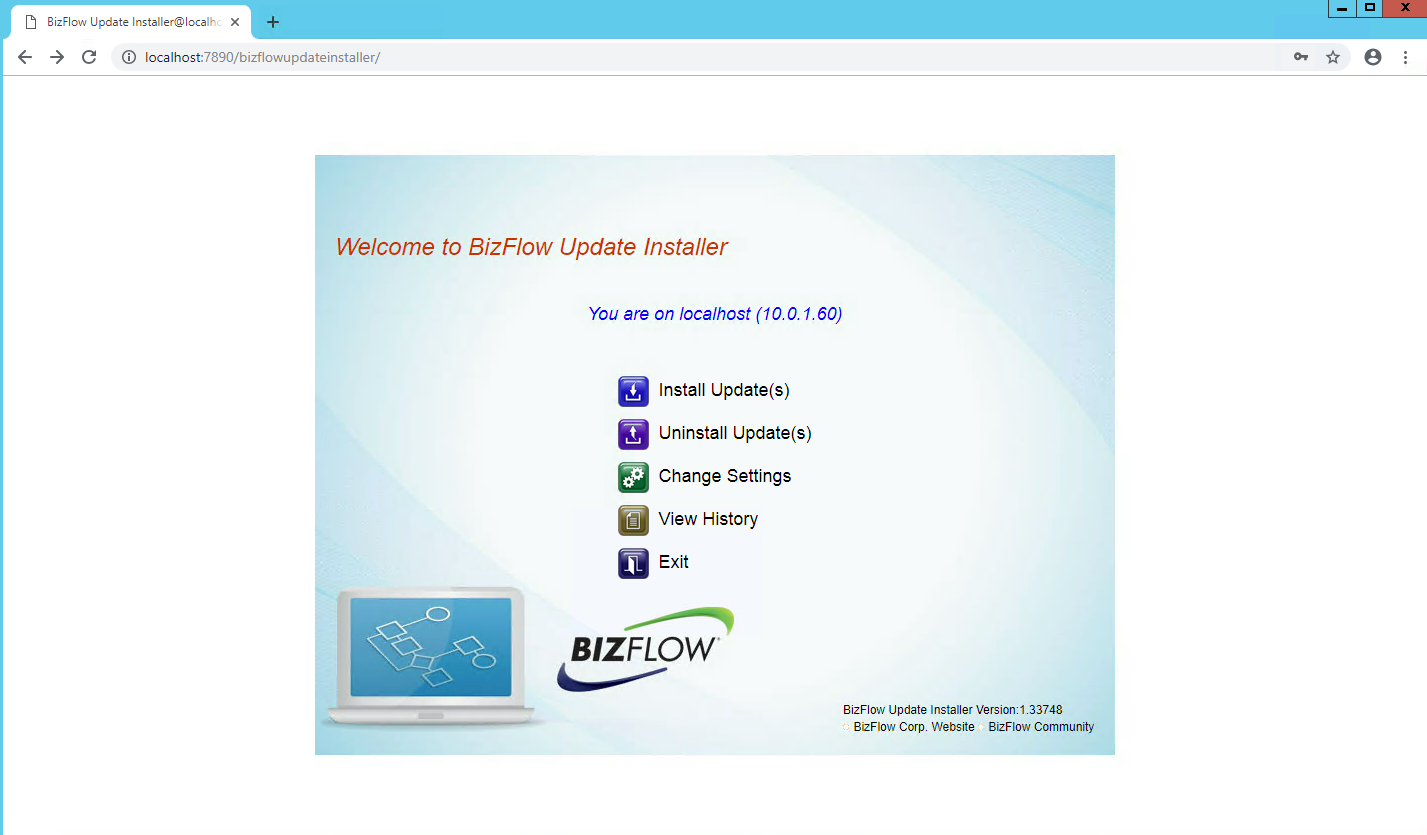
./startup.sh

1. From your laptop, which can access HHS Network, open following URL with web browser.

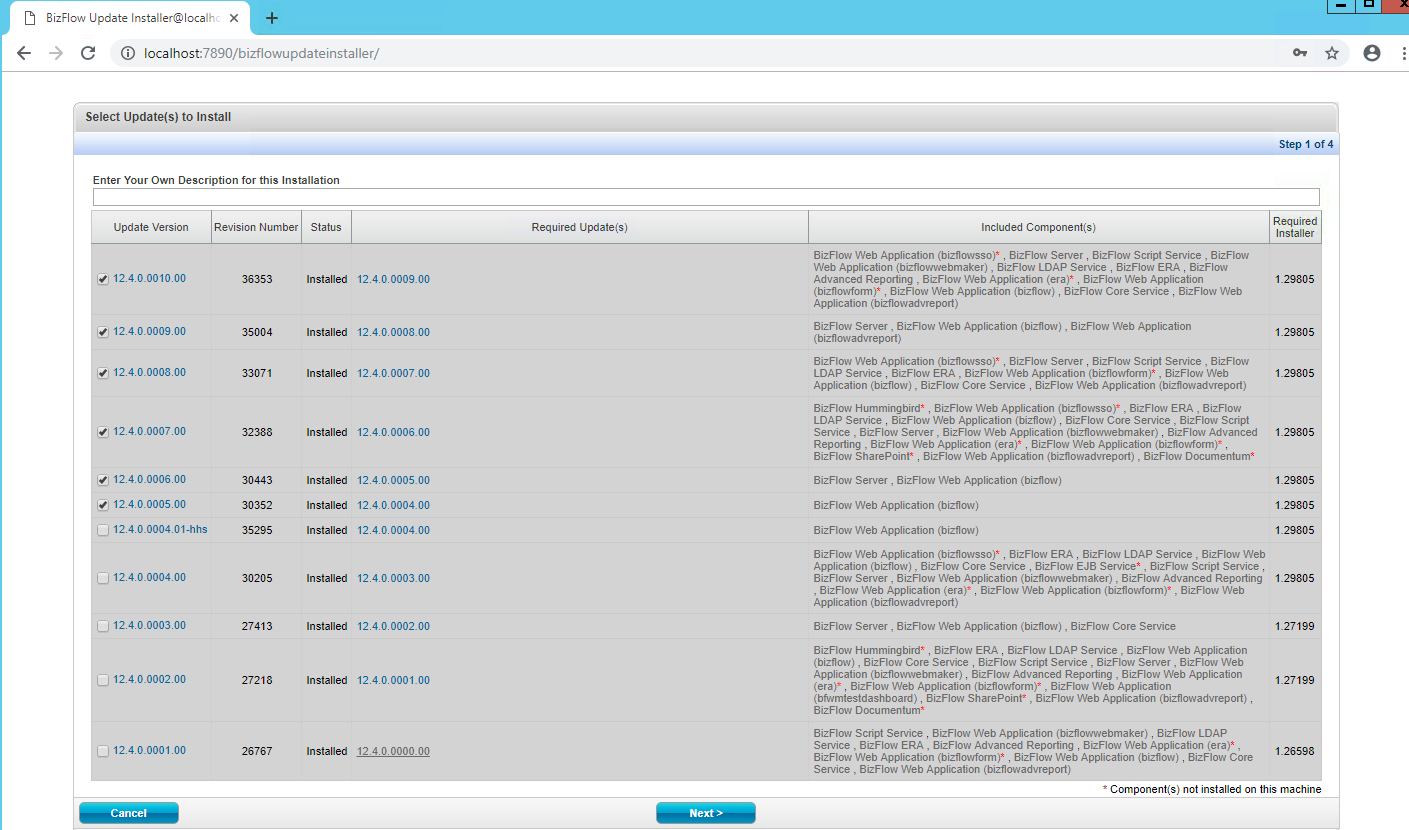
<http://m1crv234.hhs.gov:7890/bizflowupdateinstaller/>

\* This URL might be different depending on how Apache is configured.

1. Enter the password of BizFlow Update Installer. 
2. Click “Install Update(s)”



1. Select BizFlow Patches from 12.4.0.0005.00 to 12.4.0.0010.00 like following.

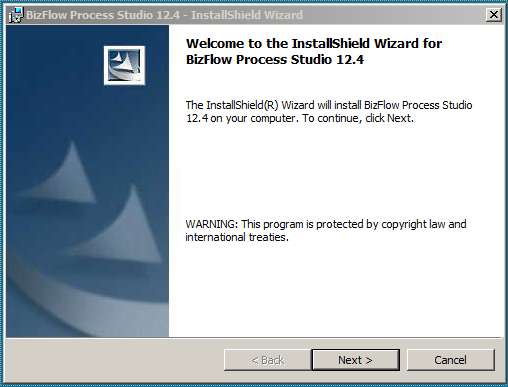


1. Click “Next”.
2. You will see warning message that all BizFlow Server and Tomcat should be shutdown. If any of these are still running, shutdown tomcat or BizFlow Server.
3. Click “Next”.
4. BizFlow Update Installer will install the patches one by one. If you see any error, contact BizFlow.

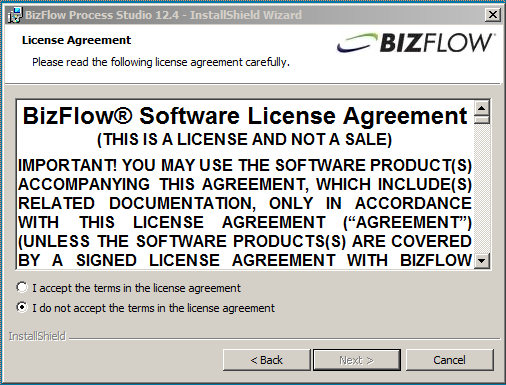
# Appendix

## Install BizFlow Process Studio

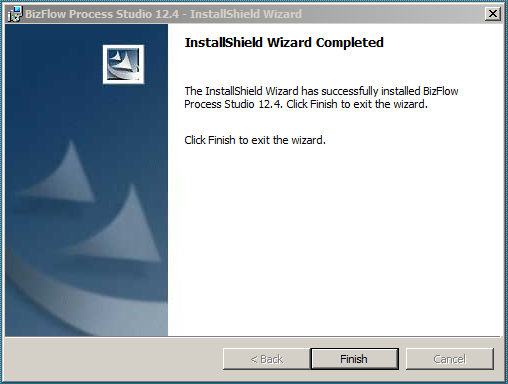
1. Extract BizFlow\_Process\_Stuiod\_12.4.zip file.
2. Execute “BizFlow\_Process\_Stuiod\_12.4.exe”.
3. Click “Next” button.



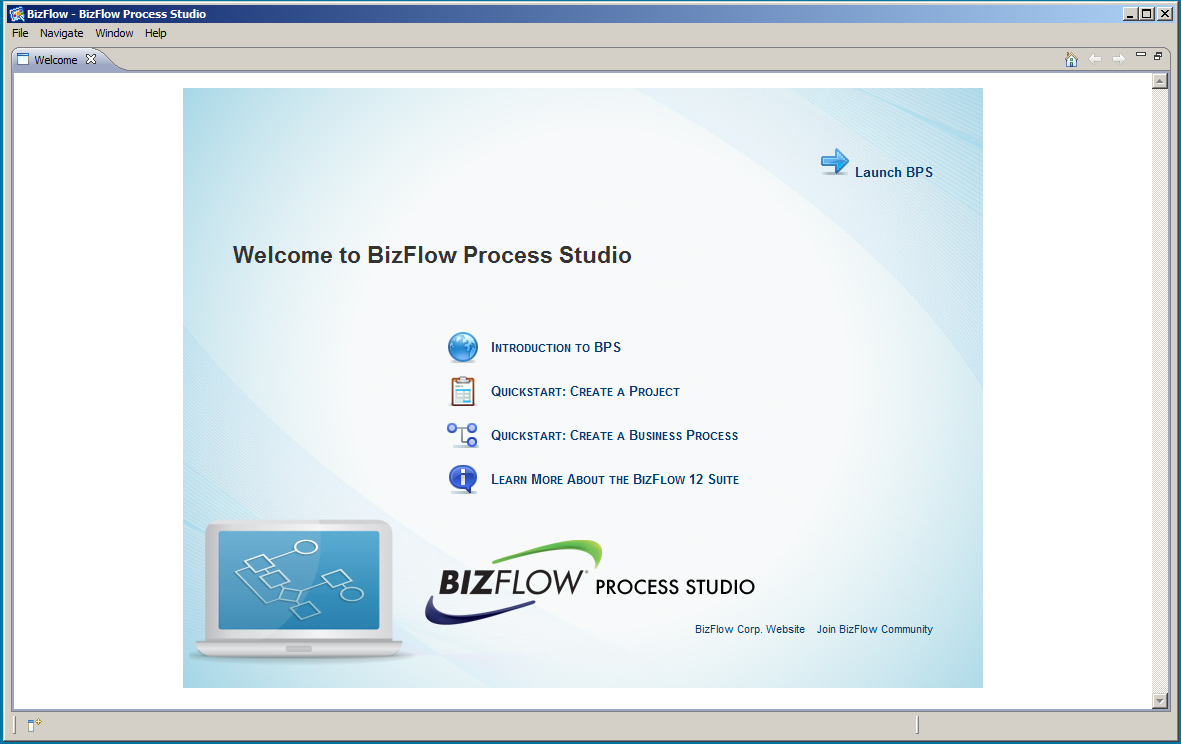
1. Check “I accept the terms in the license agreement” and click “Next” button.



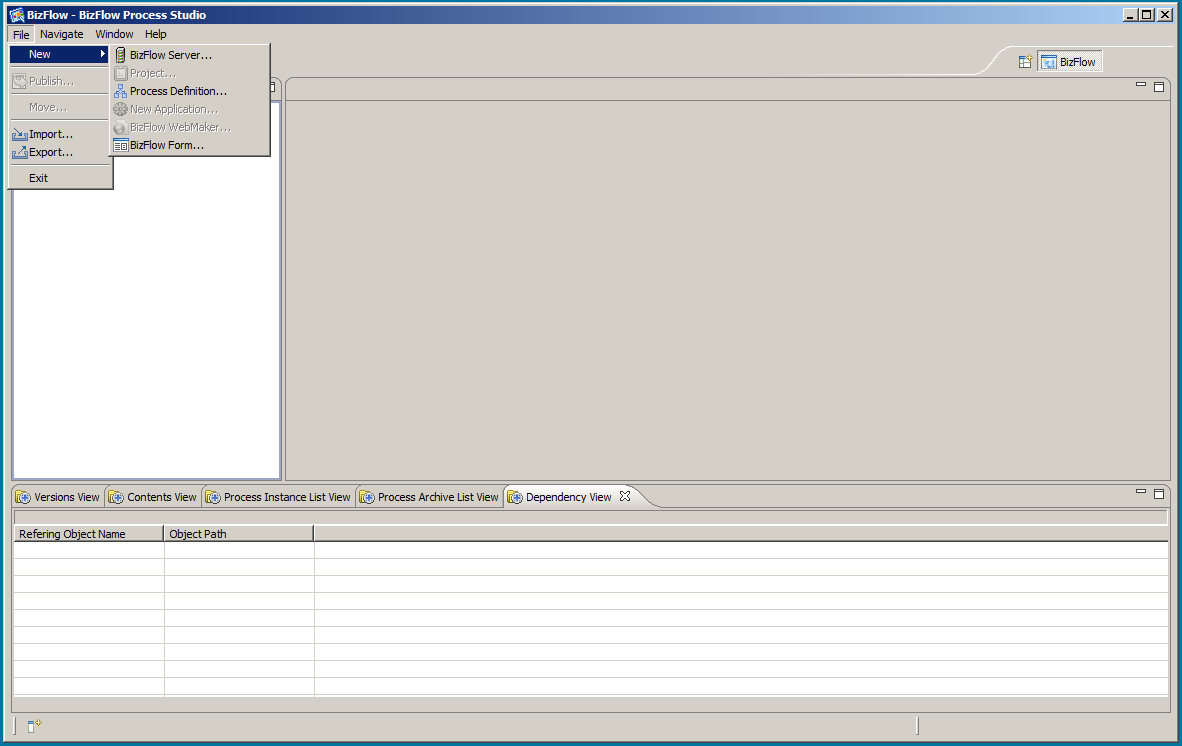
1. Click “Finish” button.



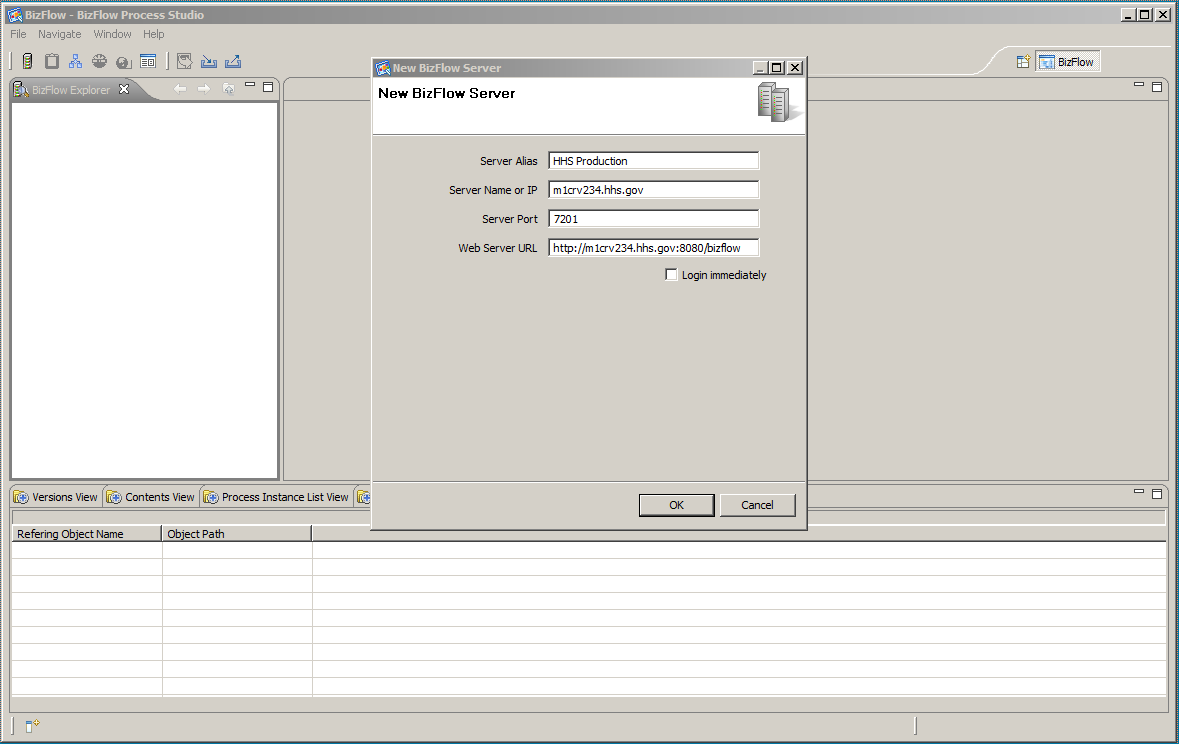
1. You can find “BizFlow Process Studio” icon from Desktop. Execute “BizFlow Process Studio” by double click.
2. You will see “Welcome” page. Click X icon next in Welcome tab (Top, Left) or Click “Launch BPS” in Top, Right.



1. Click menu in File -> New -> BizFlow Server…

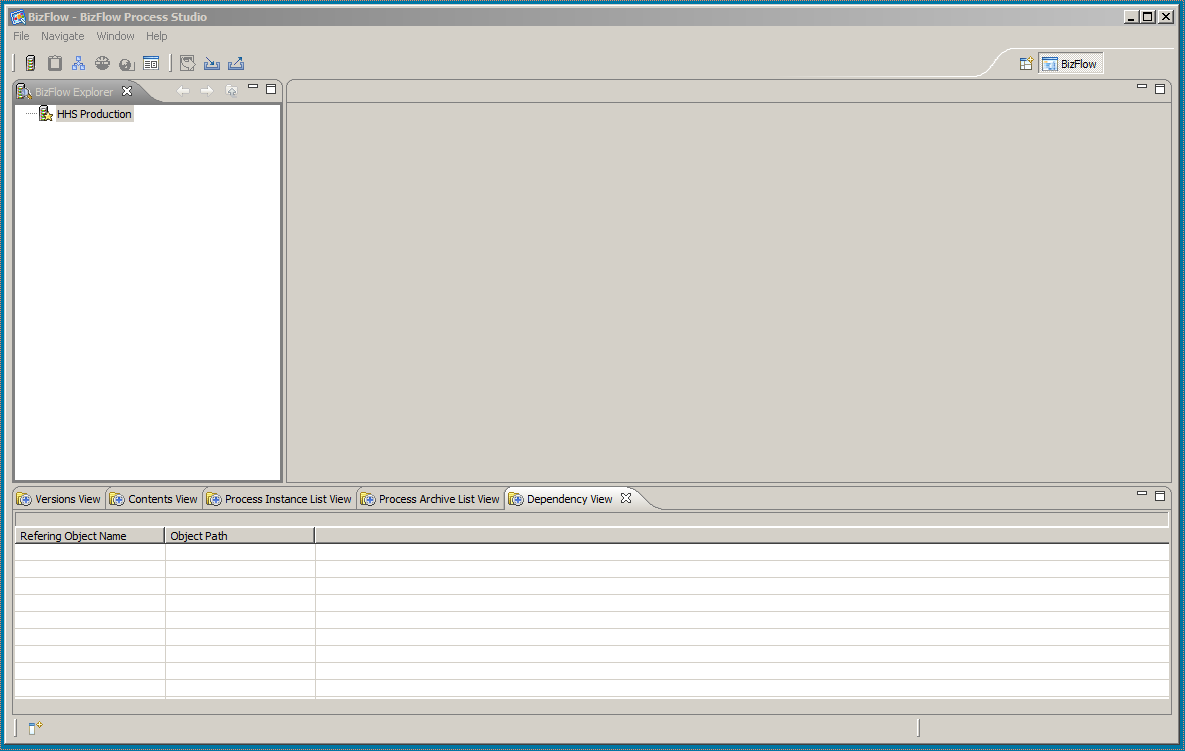


1. From “New BizFlow server” popup window, enter required information like following.
   1. Server Alias: HHS Production
   2. Server Name or IP: m1crv234.hhs.gov
   3. Server Port: 7201
   4. Web Server URL: You don’t need to type in. BPS will fill the information automatically.



Click “OK”.

1. You will see “HHS Production” node in “BizFlow Explorer” (Left pane). BPS Installation is done.



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