IFE1602 install step

1.Down Load IFE1602.zip

Down load IFE1602.zip from Fix Central:

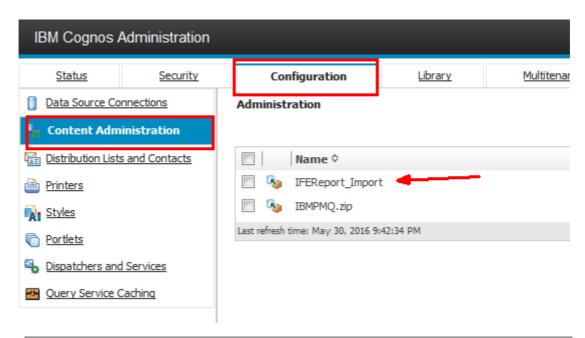
http://www.ibm.com/support/fixcentral/quickorder?product=ibm%2FOther+software %2FIBM+Insights+Foundation+for+Energy&fixids=IBMIFE-1.6.0.2-Linux-IFE1602&source=SAR

2. Apply fixpack on bi node

2.1 Update Cognos

Log on bi node.

- 1. Copy IFE1602/AssetHealth_Fix/Cognos/cognos/IFEReport.zip to bi node. Copy <AssetHealth_Fix>/Cognos/cognos/images/dgabackground.png to bi node.
- 2. Replace dgabackground.png in cognos web content image folder, the default location is: /opt/ibm/cognos/analytics/webcontent/images
- 3. Replace IFEReport.zip in cognos deployment folder, the default location is: /opt/ibm/cognos/analytics/deployment on bi server.
- 4. Open http://
bi node>:9300/ibmcognos, go to Manage -> administration console -> content administration, delete the old import item created previously, and recreate a new one then to import IFEReport again.



Select a deployment archive - New Import wizard

Select the deployment archive from which to get the entries to import. If the archive is encrypted, you will be prompted to ent

Deployment archive

The location of the deployment archive is set using the deployment files location in IBM Cognos Configuration.

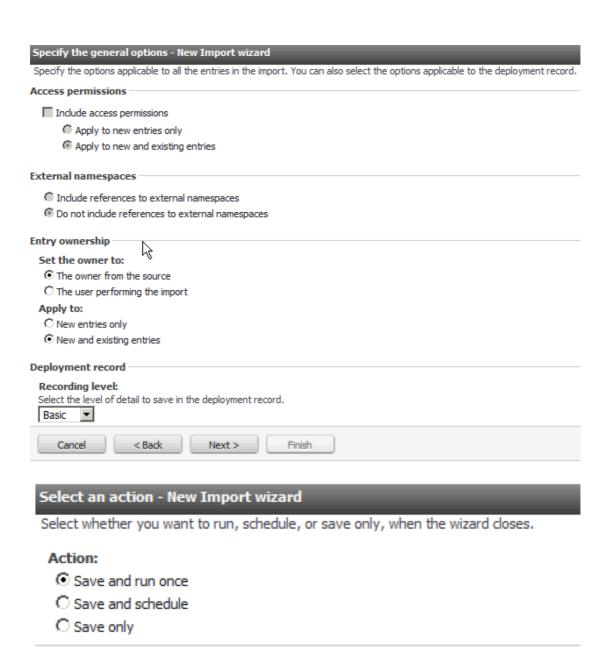


Specify a name and description - New Import wizard

Cancel < Back Next > Finish

Specify a name and location for the deployment specification. You can also specify a desi

Name:					
IFEReport_Import					
Description:					
Screen tip:					
Location: Administration Select another location					
Cancel	< Back	Next >	Finish		
t the public folders, directory and library content - N					
t one or more packages, folders, directory or library content a cfolders, directory and library content age the target name of packages and folders if you do not wa ble the packages or folders if you do not want users to access	nt to overwrite them in the target w	with packages and folders from the deployn	nent archive.		
> Name	> Target name		☐ Disable after import	In target content	Modified May 26, 2016 5
Include report output versions Conflict resolution: (in Keep existing entries (in Replace existing entries Include run history Conflict resolution: (in Keep existing entries (in Replace existing entries) (in Replace existing entries (in Replace existing entries (in Replace existing entries) (in Replace existing entries (in Replace existing entries) (in Replace existing entries) (in Replace existing entries) (in Replace existing entries)					



Next >

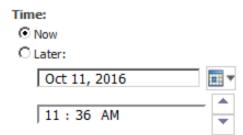
Finish

< Back

Cancel

Run with options - IFEReport_Import

Specify when you want to run this import.



Content:



Report specification upgrade:

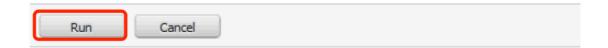
You may want to keep existing report specification versions for compatibility with existing applications.

- O Upgrade all report specifications to the latest version
- Keep the existing report specification versions

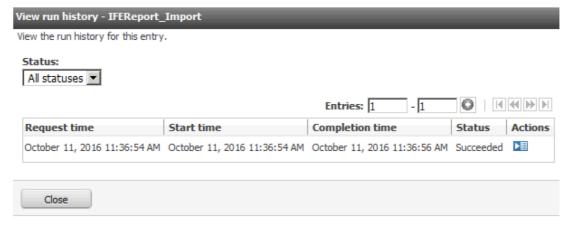
Store IDs:

Selecting 'Do not assign new IDs during import' could result in content being overwritten and lost.

- Assign new IDs during import
- O Do not assign new IDs during import



view the run history, make sure it is run successfully.



2.2 Update Ask on bi node

- 1. copy IFE1602/AssetHealth_Fix/ASK/ask_server/apps/ASK_ear.ear to /opt/ibm/cognos/analytics/wlp/usr/servers/ask_server/apps/ on bi node.
- 2. backup /opt/cognosServiceStore/config/CognosViewer.xml
- 3. copy

IFE1602/AssetHealth_Fix/ASK/cognosServiceStore/config/CognosViewer.xml to /opt/cognosServiceStore/config/ on bi node

4. Change the ANA HOSTNAME to the bi node's hostname.

```
CognosViewer.xml ~
</rml version="1.0" encoding="UTF-8"?><definition>
<!-- ******** {C0PYRIGHT-T0P} **
# Licensed Materials - Property of IBM
# IBM Insights Foundation for Energy 5725-W39
# (C) Copyright IBM Corp. 2015, 2016 All rights reserved.
# US Government Users Restricted Rights - Use, duplication or
# disclosure restricted by GSA ADP Schedule Contract with
# IBM Corp.
##
<servers>
            <server id="askServer">
               <cognosContextRoot>p2pd</cognosContextRoot>
          <cognosCSSURL>file:///opt/cognosServiceStore/css/</cognosCSSURL>
                  <cognosContextPort>9300</cognosContextPort>
            </server>
      </servers>
      <config>
     <folderForContent>/opt/cognosServiceStore/</folderForContent>
      </config>
```

5. restart ask server

/opt/ibm/cognos/analytics/wlp/bin/server stop ask_server /opt/ibm/cognos/analytics/wlp/bin/server start ask_server

3. Apply fix pack on iib node

3.1 Update ear and wars

Log on iib node.

Assume user choose the default install location for liberty. The default location is /opt/IBM/WebSphere/Liberty/. If you didn't use default directory when installing liberty, please change correspondingly.

1. Delete the old ear and wars on iib node

 $cd\ / opt/IBM/WebSphere/Liberty/usr/servers/framework_server/apps/$

rm -rf ife_frwk_app.ear

rm -rf ife aha app.ear

rm -rf wind page.war

rm -rf wind web.war

rm -rf wind_data_simulator.war

2. Copy the ears and wars to iib node

Copy the IFE1602/Framework_Fix/liberty_server/apps/ife_frwk_app.ear to the iib folder: /opt/IBM/WebSphere/Liberty/usr/servers/framework_server/apps/

Copy the IFE1602/AssetHealth_Fix/liberty_server/apps/ife_aha_app.ear to the iib folder: /opt/IBM/WebSphere/Liberty/usr/servers/framework server/apps/

Copy the IFE1602/WIND_Fix/liberty_server/apps/wind_page.war to the iib folder: /opt/IBM/WebSphere/Liberty/usr/servers/framework_server/apps/

Copy the IFE1602/WIND_Fix/liberty_server/apps/wind_web.war to the iib folder: /opt/IBM/WebSphere/Liberty/usr/servers/framework server/apps/

Copy the IFE1602/WIND_Fix/liberty_server/apps/wind_data_simulator.war to the iib folder: /opt/IBM/WebSphere/Liberty/usr/servers/framework server/apps/

3. Run the script to unzip the ear and wars

Copy the IFE1602/AssetHealth_Fix/CD_install_application.sh to /tmp folder on iib node.

dos2unix /tmp/CD_install_application.sh chmod +x /tmp/CD_install_application.sh /tmp/CD install application.sh

3.2 Update the background image and nls file.

1 Run these commands:

cd

/opt/IBM/WebSphere/Liberty/usr/servers/framework_server/apps/ife_frwk_app.ear/if e_frwk_web.war/images/login/mv ioc login background 19201280.jpg ioc login background 19201280.jpg.bk

mv backup_ioc_login_background_19201280.jpg ioc login background 19201280.jpg

2. vi

 $/opt/IBM/WebSphere/Liberty/usr/servers/framework_server/apps/ife_frwk_app.ear/ife_frwk_web.war/js/nls/AdminUI.js$

change the "login_project_title" item from "Product name" to "Insights Foundation for Energy".

3.3 Update the weather.properties on iib node

1. run the command to config the weather properties:

vi /opt/IBM/WebSphere/Liberty/usr/servers/framework_server/lib/weather.properties

2. delete the two lines below

```
root@pmq253:/opt/IBM/WebSphere/Liberty/usr/souser=
password=
~
```

add one line "apiKey=", and enter your own api key behind the '='

```
root@pmq253:/opt/IBM/WebSphere/Liberty/usr/servers/framework_server/libapiKey=
```

- 3. run script to encypt the apiKey: /opt/IBM/energy/AssetHealth/SPSS_stream/lib/encrypt.sh
 /opt/IBM/WebSphere/Liberty/usr/servers/framework_server/lib/weather.properties
 apiKey aes
- 4. restart framework server: /opt/IBM/WebSphere/Liberty/bin/server stop framework_server /opt/IBM/WebSphere/Liberty/bin/server start framework_server

4. Apply fix pack on spss node

Log on spss node.

Assume user choose the default install location for IBM energy directory. The default location is /opt/IBM/energy/. If you didn't use default directory when installing liberty, please change correspondingly.

Assume user choose the default install location for IBM SPSS modeler batch. The default location is /usr/IBM/SPSS/ModelerBatch/18.0/. If you didn't use default directory when installing modelerbatch, please change correspondingly.

Assume user choose the default install location for IBM SPSS modeler server. The default location is /opt/IBM/SPSS/ModelerServer/18.0/ . If you didn't use default directory when installing liberty, please change correspondingly.

4.1 Update the modelersrv_18_0

- 1. Copy the IFE1602/18.0-IM-S18MODELERS--Linux8664-IF004/modelersrv 18 0 to spss node.
- 2. backup the old file: mv /opt/IBM/SPSS/ModelerServer/18.0/modelersrv_18_0 /opt/IBM/SPSS/ModelerServer/18.0/modelersrv_18_0.bak
- 3. Copy the new modelersrv_18_0 to the folder: mv <path of the file>/modelersrv_18_0 /opt/IBM/SPSS/ModelerServer/18.0/modelersrv_18_0
- 4. Run the command: chmod +x /opt/IBM/SPSS/ModelerServer/18.0/modelersrv_18_0

4.2 Replace the SPSS stream

- 1. Copy IFE1602/AssetHealth Fix/Analysis/SPSS/SPSS stream to spss node.
- 2. Rename /opt/IBM/energy/AssetHealth/SPSS_stream for backupfirst: -mv /opt/IBM/energy/AssetHealth/SPSS_stream /opt/IBM/energy/AssetHealth/SPSS_stream.bak
- 3. Copy the SPSS stream folder you just copied to /opt/IBM/energy/AssetHealth/
- 4. Run the commands: dos2unix /opt/IBM/energy/AssetHealth/SPSS_stream/script/*
 chmod 777 -R /opt/IBM/energy/AssetHealth/SPSS_stream/
- 5. Stop grid engine: -

/opt/IBM/energy/grid_engine/ife_aoms_core/scripts/grid_engine.sh stop
Then execute below command and check if any grid engine process still exists, if yes kill it.

ps -def | grep 16088

6. Copy IFE1602/AssetHealth Fix/Analysis/grid engine to spss node.

- 7. Backup the grid_engine.cfg file mv /opt/IBM/energy/grid_engine/ife_aoms_core/scripts/grid_engine.cfg to /opt/IBM/energy/grid_engine/
- 8. Copy and replace

IFE1602/AssetHealth_Fix/Analysis/grid_engine/ife_aoms_core.tar.gz to folder /opt/IBM/energy/grid_engine/ on spss node.

- 9. Delete old ife_aoms_core folder and run:-rm -rf ife aoms core
 - tar -zxvf ife aoms core.tar.gz
- 10. Copy backup grid_engine.cfg from /opt/IBM/energy/grid_engine back to /opt/IBM/energy/grid_engine/ife_aoms_core/scripts/
- 11. Execute:-

dos2unix /opt/IBM/energy/grid_engine/ife_aoms_core/scripts/run_cfp.sh chmod 777 /opt/IBM/energy/grid_engine/ife_aoms_core/scripts/run_cfp.sh

12. Start grid engine: -

/opt/IBM/energy/grid engine/ife aoms core/scripts/grid engine.sh start

4.3 Edit cfg file content

- 1. Edit /opt/IBM/energy/AssetHealth/SPSS_stream/script/modelerServer.cfg by changing hostname (host of modeller server), password (pw of root) Change modelerBatch=/opt/IBM/SPSS/ModelerBatch/17.0/ to modelerBatch=/usr/IBM/SPSS/ModelerBatch/18.0/
- 2. Edit /opt/IBM/energy/AssetHealth/SPSS_stream/script/streamParams.cfg by changing dspwd (pw of db2inst1)
- 3. Encrypt the password in cfg files.

Note: plain text is ok, or user can also use encrypt.sh like following to encrypt password.

you can use the command below to encrypt the two cfg files:

/opt/IBM/energy/AssetHealth/SPSS_stream/lib/encrypt.sh
/opt/IBM/energy/AssetHealth/SPSS_stream/script/modelerServer.cfg
password aes
/opt/IBM/energy/AssetHealth/SPSS_stream/lib/encrypt.sh
/opt/IBM/energy/AssetHealth/SPSS_stream/script/streamParams.cfg dspwd aes

After the encrypt, please have a check on the

```
dsname=1
dsuser=
dspwd={aes
log /opt/IBM/energy/AssetHealth/SPSS stream/log/AHBacth.log=
-appendlo(=
[/opt/IBM/energy/AssetHealth/SPSS_stream/stream/Pole/Pole_TTarget_Failure_Thresh
old.str = poleTTargetModelTrainingOrPrediction=2
TTargetModelFile=/
poleTTargetOutputFile=/
analysisYearFile=/opt/IBM/ener
 [/opt/IBM/energy/AssetHealth/SPSS_stream/stream/Pole/Pole_Health.str]=
inputFolder=/opt/IBM/energy/AssetHealth/SPSS_s
csvFolder=/opt/IBM/energy/AssetHealth/SPSS_str
csvFolder=/opt/IBM/energy/AssetHealth/
logFolder=/opt/IBM/energy/AssetHealth/
 [/opt/IBM/energy/AssetHealth/SPSS stream/stream/SubstationTransformer/ST DGA Cat
egory.str]=
stDGACatgOutputFile=/opt/IBM/
 [/opt/IBM/energy/AssetHealth/SPSS stream/stream/SubstationTransformer/ST Thermal
 Projected Aging.str]=
analysisYearFile=/
</AssetHealth/SPSS stream/script/streamParams.cfg" 86L, 4561C 6,1
```

After the deletion, the file should look like below:

```
root@pmq253:/opt/IBM/energy/AssetHealth
                                                                               dsuser=<mark>db</mark>
dspwd={
-log /opt/IBM/energy/AssetHealth/SPSS_stream/log/AHBacth.log
-appendlog
[/opt/IBM/energy/AssetHealth/SPSS stream/stream/Pole/Pole TTarget Failure Thresh
poleTTargetModelTrainingOrPrediction=2
TTargetModelFile=
poleTTargetOutputFile=/
analysisYearFile=/opt/IBM
[/opt/IBM/energy/AssetHealth/SPSS stream/stream/Pole/Pole Health.str]
logFolder=/
[/opt/IBM/energy/AssetHealth/SPSS stream/stream/SubstationTransformer/ST DGA Cat
stDGACatgOutputFile=/opt/IBM/en
Projected Aging.str]
analysisYearFile=/
STThermalProjectedAgeingOutputFile=/op
```

4.4 Restart modeler server

 $/opt/IBM/SPSS/ModelerServer/18.0/modelersrv.sh\ stop\ /opt/IBM/SPSS/ModelerServer/18.0/modelersrv.sh\ start$

4.5 Add disk space if needed

/opt should have more than 60G

4.6 Update SPSS parameter template file if needed

To use SPSS to do the asset health analysis, first backup and modify /opt/IBM/energy/AssetHealth/SPSS_stream/script/stream_assetHealth.cfg as following:-

This file identifies which streams need to be executed when running SPSS analysis. Some of those streams are placed into folders named with asset class code. They are asset class related stream. While other streams are not placed into such folders, they are common streams.

For the asset class related streams, please make sure to remove them if you have no related asset class data loaded. Please remove them according to following rules:-

A. if you don't have pole data loaded, please delete

/opt/IBM/energy/AssetHealth/SPSS_stream/stream/Pole/Pole_TTarget_Failure_Thres hold.str

 $/opt/IBM/energy/AssetHealth/SPSS_stream/stream/Pole/Pole_Health.str and$

/opt/IBM/energy/AssetHealth/SPSS stream/stream/Pole/Pole Treatment.str

B. if you don't have substation transformer data loaded, please delete

/opt/IBM/energy/AssetHealth/SPSS_stream/stream/SubstationTransformer/ST_DGA_Category.str

/opt/IBM/energy/AssetHealth/SPSS_stream/stream/SubstationTransformer/ST_Therm al Projected Aging.str

 $/opt/IBM/energy/AssetHealth/SPSS_stream/stream/SubstationTransformer/ST_Health.str$

and

 $/opt/IBM/energy/AssetHealth/SPSS_stream/stream/SubstationTransformer/ST_Treatment.str$

C. if you don't have distribution transformer data loaded, please delete

/opt/IBM/energy/AssetHealth/SPSS_stream/stream/DistributionTransformer/DT_Projected Ageing.str

 $/opt/IBM/energy/AssetHealth/SPSS_stream/stream/DistributionTransformer/DT_Health.str$

and

 $/opt/IBM/energy/AssetHealth/SPSS_stream/stream/DistributionTransformer/DT_Treatment.str$

D. if you don't have overhead cable data loaded, please delete

 $/opt/IBM/energy/AssetHealth/SPSS_stream/stream/Cable/OverheadCable/OHC_Health.str$

and

 $/opt/IBM/energy/AssetHealth/SPSS_stream/stream/Cable/OverheadCable/OHC_Treatment.str$

E. if you don't have underground cable data loaded, please delete /opt/IBM/energy/AssetHealth/SPSS_stream/stream/Cable/UndergroundCable/UGC_Health.str

and

 $/opt/IBM/energy/AssetHealth/SPSS_stream/stream/Cable/UndergroundCable/UGC_Treatment.str$

F. if you don't both overhead or underground cable data loaded, please delete /opt/IBM/energy/AssetHealth/SPSS stream/stream/Cable/Cable Health Status.str

4.7 Trigger AHA analysis

To use SPSS to do the asset health analysis, issue /opt/IBM/energy/grid_engine/ife_aoms_core/scripts/run_cfp.sh (Need to first make sure reading data and asset data loaded!!)