1. doc: D:\namorlize\5.2 Documentation Updates
2. **Normalize installation:**

2.1. Prepare

a. new 2 windows 2012 VM （one for SQL/ORA database, one for Normalize)
b. harddisk:100g
c. memory:(nl:8g,db:10g)
d. cup: 4 (at least)
e. win 2012 installation type： starndar server with GUI)
f. after vm created, ip set, but not connected. to fix: vm - edit setting - natwork adapter - network label (choose on available network, not the default here, very very importan.)
g. close firewall, enable remote connecting (pc- properties - remote setting), install .net 3.5, iis from control pannel - Turn Windows features on or off - features

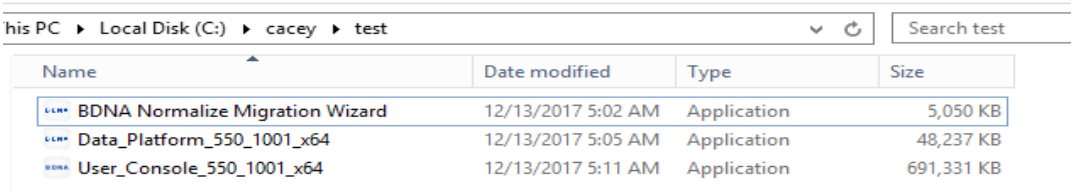
2.2. install DB servers on 11.183

a. SQL2014 : \\192.168.8.25\iso\APP\MicrosoftSQLServer\SQL2014 (installed)
b. ORA12.1.0.2: \\192.168.8.25\installer\Windows\Oracle\Database12.1.0.2 (installed)
c. SQL2016 : \\192.168.8.25\iso\APP\MicrosoftSQLServer\SQL2016
d. PatchForSQL2016: \\192.168.8.25\installer\Windows\Microsoft\SQLServer\KB2919355-x64.msu
e.

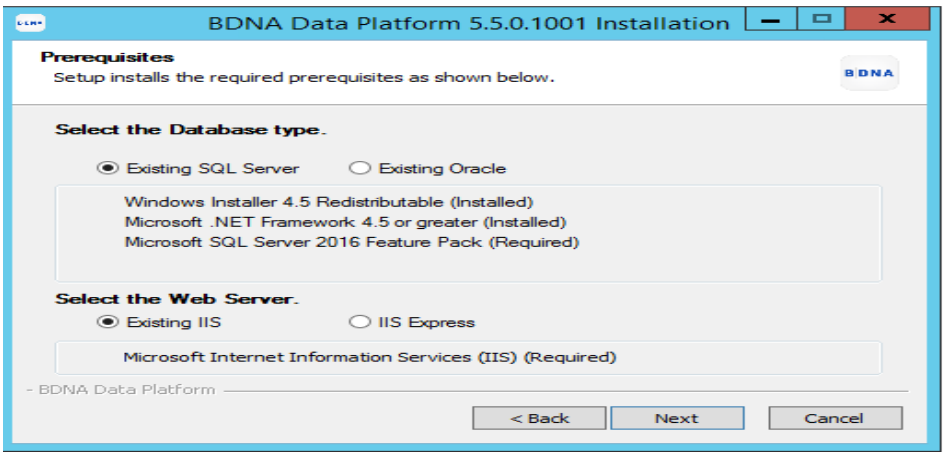
2.3. install DB client on 11.184

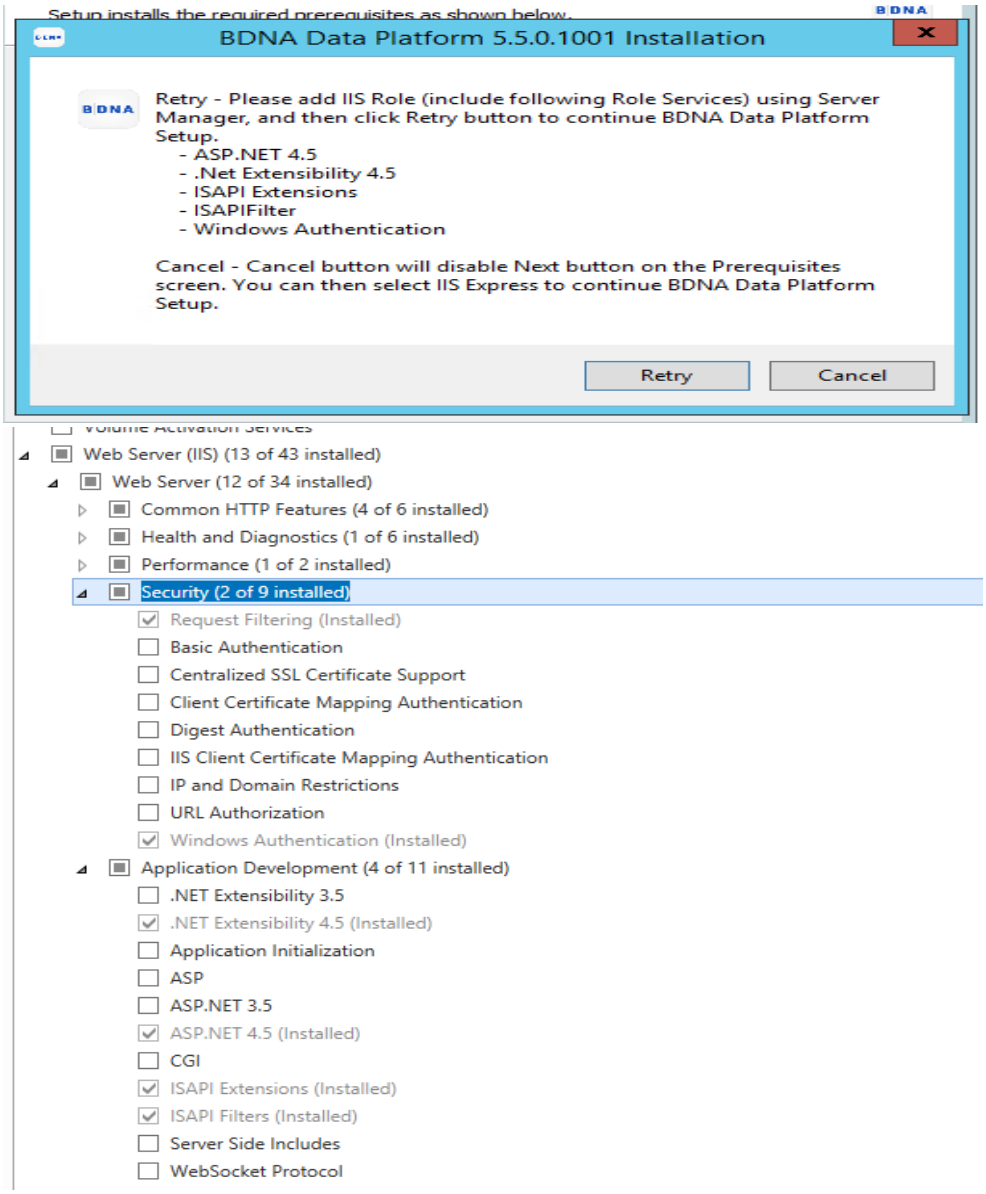
2.4. Install DP.

a. Installer: \\192.168.8.25\installer\BDNA\Normalize5.5\test
b.

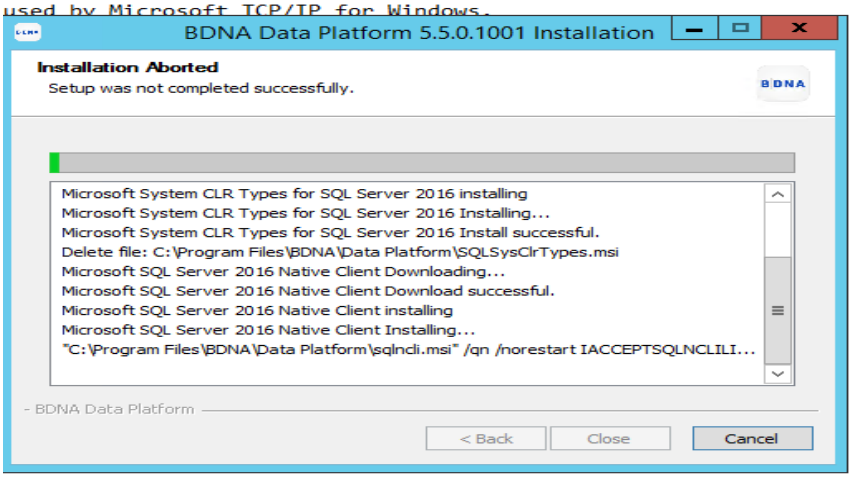


c. Install and uninstall DP once manually, in order to know what extra services needed to be installed before running the install scripts.





d. Install failed, need sqlncli:

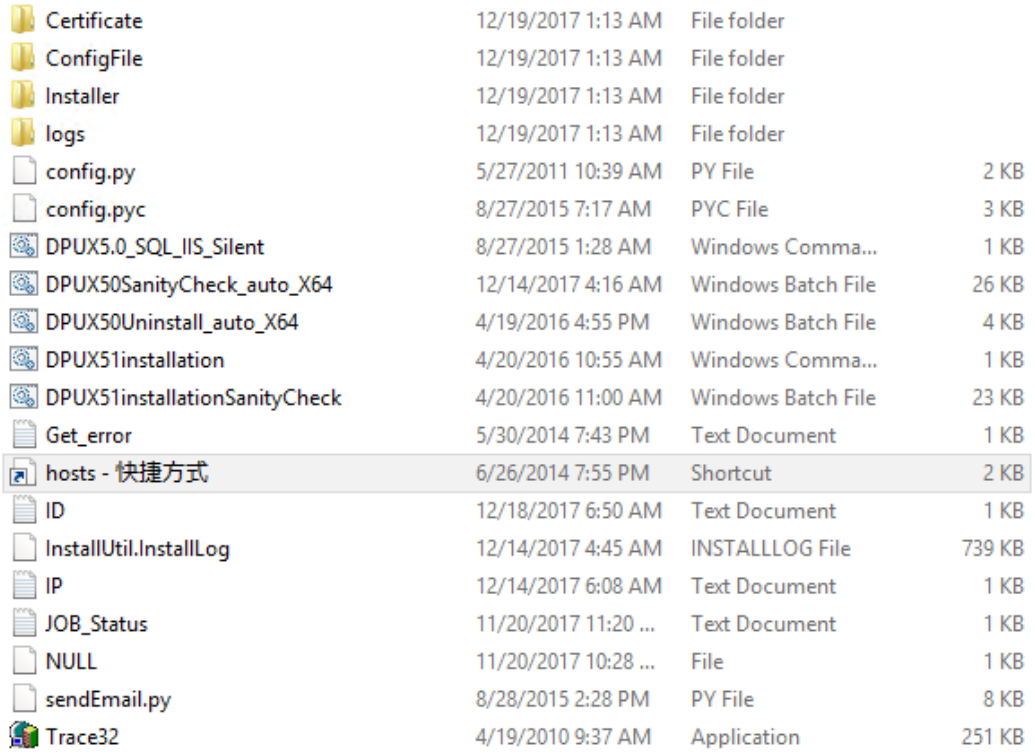


e.

f. Install: \\192.168.8.25\app\BDNA\Components\SQL2016_sqlncli_x64_ENU.msi
g. Install DP again. Last step, you are required to activation key, means installation is OK. Cancel it.
h. Uninstall DP. (control panel)

2.5. Configure script files. (script folder need to be put under root directory C:\InstallScript)

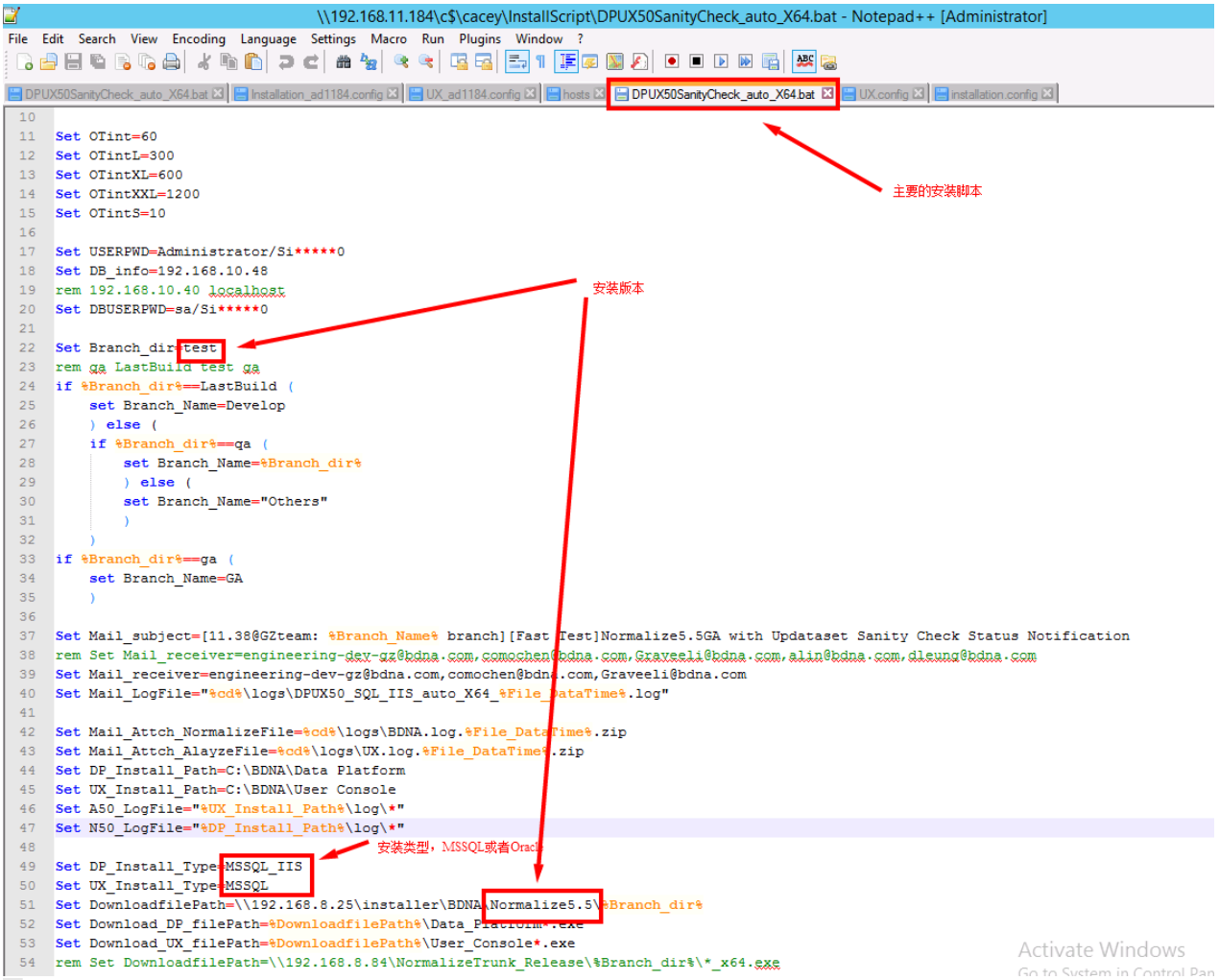
a. Scripts:



Certificate	12/19/2017 1:13 AM	File folder	
ConfigFile	12/19/2017 1:13 AM	File folder	
Installer	12/19/2017 1:13 AM	File folder	
logs	12/19/2017 1:13 AM	File folder	
config.py	5/27/2011 10:39 AM	PY File	2 KB
config.pyc	8/27/2015 7:17 AM	PYC File	3 KB
DPUX5.0_SQL_IIS_Silent	8/27/2015 1:28 AM	Windows Comma...	1 KB
DPUX50SanityCheck_auto_X64	12/14/2017 4:16 AM	Windows Batch File	26 KB
DPUX50Uninstall_auto_X64	4/19/2016 4:55 PM	Windows Batch File	4 KB
DPUX51installation	4/20/2016 10:55 AM	Windows Comma...	1 KB
DPUX51installationSanityCheck	4/20/2016 11:00 AM	Windows Batch File	23 KB
Get_error	5/30/2014 7:43 PM	Text Document	1 KB
hosts - 快捷方式	6/26/2014 7:55 PM	Shortcut	2 KB
ID	12/18/2017 6:50 AM	Text Document	1 KB
InstallUtil.InstallLog	12/14/2017 4:45 AM	INSTALLLOG File	739 KB
IP	12/14/2017 6:08 AM	Text Document	1 KB
JOB_Status	11/20/2017 11:20 ...	Text Document	1 KB
NULL	11/20/2017 10:28 ...	File	1 KB
sendEmail.py	8/28/2015 2:28 PM	PY File	8 KB
Trace32	4/19/2010 9:37 AM	Application	251 KB

b. DPUX50SanityCheck_auto_X64.bat, 修改安装版本，安装类型，选好配置文件

c.



d.

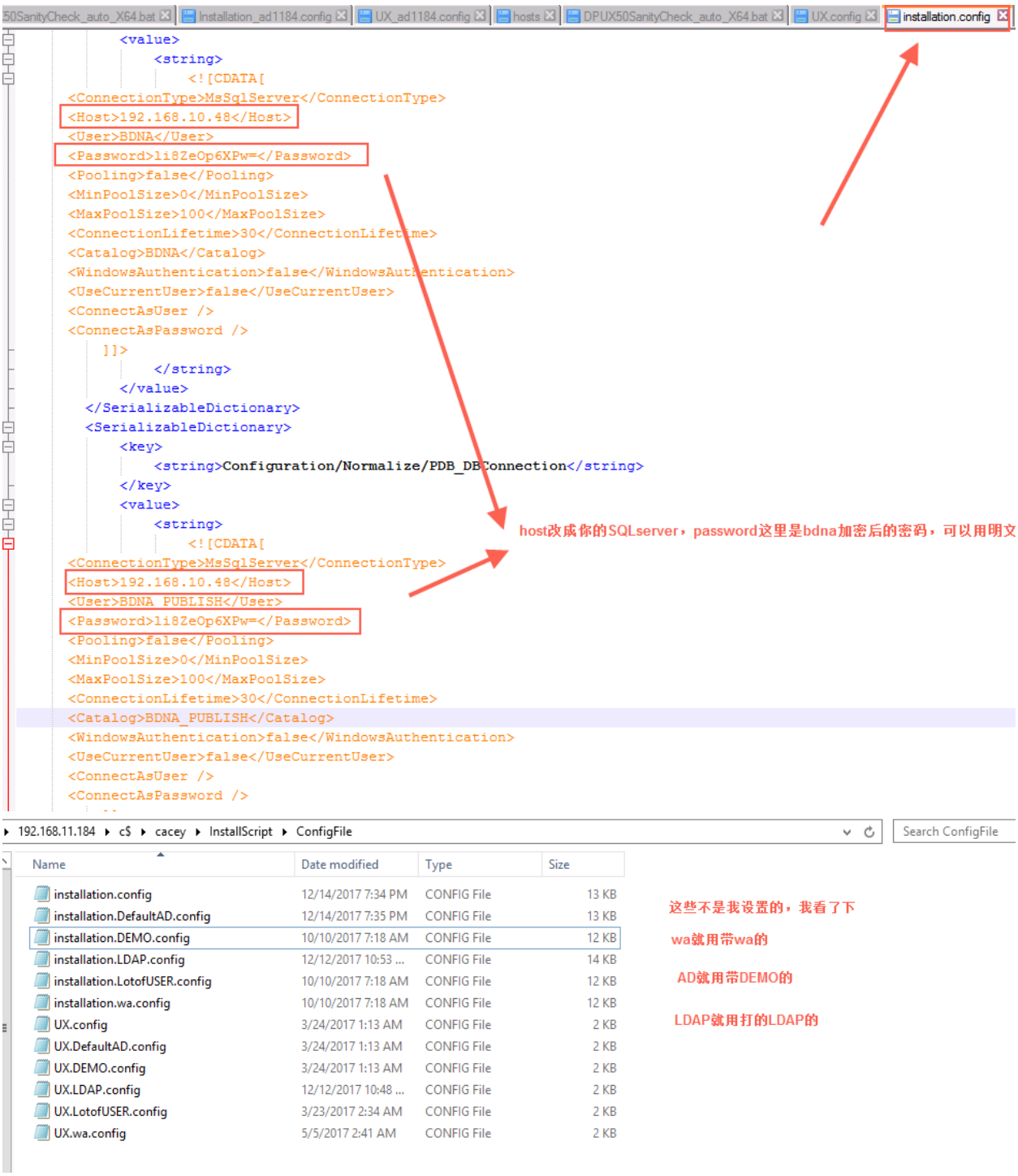
```
Set Config_File_path=%Script_Dir%\Configfile
Set DP_Config_File_name=Installation.config    设置配置文件，默认Windows验证，带AD或LDAP的是AD或LDAP验证
Set UX_Config_File_name=UX.config
rem Set Config_File_name=Norm.Configuration.config

rem Set /P Catalog_OffLine_URL= <Catalog_OffLine_URL.txt
rem Set Catalog_File="%Script_Dir%\Catalog\catalogsubscription.zip"

:main_wrok_Item
REM all of the installation files
Call :VM_Information
call :Get_DP_Installer_File
rem call :Get_US_DP_InstallFile
call :Start_Normalize_Installer_ConfigWizard
call :Get_UX_Installer_File
rem call :Get_US_UX_InstallFile
call :Start_UX_Installer_ConfigWizard
call :Start_Synchronize
rem call :Start_Synchronize2
call :Create_SalesDemo_TASK
call :Run_SalesDemo_TASK1
call :Run_SalesDemo_TASK2
call :Mail_Notification_Succeed
Goto :End
```

e. installation.config 改数据库 ip, 你设置了哪个 installation.config 就改哪个

0SanityCheck_auto_X64.bat
Installation_ad1184.config
UX_ad1184.config
hosts
DPUX50SanityCheck_auto_X64.bat
UX.config
installation.config
zLWUzMKTyLGSmU4jajC4Akc3OmZO69yCQqQK5oCQn3B4Plnhig+yA7U19KCsVGlcinzHKDxVJ02+JELGFoX0YJf4gIhVGuxkEKTDZv1arZU2LJxde+BSzz69u6oztHncWmCDkJXn2mQzshDE3
t/ovFsDEcFNKq9aVXijnIyEMd/DNUcc/ov0wdaD/IchRou06kqUmrhC3sh6WekdxWPPkLAkM6GAK+p/k7CYiZJzUldn+5x0sPcU0CHYWzFADeD1roWd1fbTLUIs1cz8BZxOtApp/WGUgAlr/p
kMeSfkO0by4JsPrpdAx8Ds46kWYgcD9BTf8JQKT51050j6H2f2S5WMX+88FJvJ3oQ6RqQF2APdP</ActivationKey>
<CompanyName>D2Full</CompanyName>
<ActivationKey>WSucjWv6LmSwl1OsRcQeZWe9qhFR/QaDAuSsf/r8mYKtBCMDBnwuJDl1YbSTktTw57j9sdK/f0rWcHCfEb+uS9B/wsHMqmQF5VvwQHYED8Zvrg0+PO3GbBshJU1fRF+ctd
8UXq+N8LBkZDTKs+UD/wXjS8kSl+VxCcNcHu3lPt6T/rCrXmY9rFvr/EXK5J1rb6VLXchgANk24LC9EypIvTFIPm8vIewdiMKbQ8+Tj1PhqQuan7/OxZR9hw6CfihwTMDGLToXkiWXlowJD3y
gIi54M6Q87FqPwJIsCA+L/lqUJB00I8vl9j+1Ip30R+9sSN1u0Y5oNQ327AfweVv9+t1twpp9utO8r6UCoK/U3Cqn9+1kFApz5RSHg+Ty3zrT6XZwi072pKuI5PhUqOADg84YhoZgBqU5Vkn2
IsIRRt8To2BsULBeX9zi8vNuRBPYY4uzTk7cMbCuKGz3u6j7XhxYjsIgBwIo+MFytubI83d2AzVJsNXGFcaYiv+Wkc9jsrbAOlAOsRBmXMU5MnWQ1J48Q8hMxSAxhuUpDL+ow0jCunmOEIDsw
6rJ2OQ9/ToC5e6pGKdpKAmujtxriAMmLw==</ActivationKey>
key，没说的话不用修改
<CompanyName>D2Full</CompanyName>
<ActivationKey>
WSucjWv6LmSwl1OsRcQeZWe9qhFR/QaDAuSsf/r8mYKtBCMDBnwuJDl1YbSTktTw57j9sdK/f0rWcHCfEb+uS9B/wsHMqmQF5VvwQHYED8Zvrg0+PO3GbBshJU1fRF+ctd8UXq+N8LBkZDTKs
+UD/wXjS8kSl+VxCcNcHu3lPt6T/rCrXmY9rFvr/EXK5J1rb6VLXchgANk24LC9EypIvTFIPm8vIewdiMKbQ8+Tj1PhqQuan7/OxZR9hw6CfihwTMDGLToXkiWXlowJD3ygIi54M6Q87FqPwJ
IsCA+L/lqUJB00I8vl9j+1Ip30R+9sSN1u0Y5oNQ327AfweVv9+t1twpp9utO8r6UCoK/U3Cqn9+1kFApz5RSHg+Ty3zrT6XZwi072pKuI5PhUqOADg84YhoZgBqU5Vkn2IsIRRt8To2BsULB
eX9zi8vNuRBPYY4uzTk7cMbCuKGz3u6j7XhxYjsIgBwIo+MFytubI83d2AzVJsNXGFcaYiv+Wkc9jsrbAOlAOsRBmXMU5MnWQ1J48Q8hMxSAxhuUpDL+ow0jCunmOEIDsw6rJ2OQ9/ToC5e6p
GKdpKAmujtxriAMmLw==</ActivationKey>
<TUSOffLineURL>http://tus50.bdna.com/GetOffLineUpdatedFile.aspx</TUSOffLineURL>
<ConnectionType>MsSqlServer</ConnectionType>
<Host>192.168.10.48</Host>
<User>SA</User>
<Password>AQougntJw9z/NWy/RZ0B2w==</Password>
<Pooling>false</Pooling>
<MinPoolSize>0</MinPoolSize>
<MaxPoolSize>100</MaxPoolSize>
<ConnectionLifetime>30</ConnectionLifetime>
<Catalog>MASTER</Catalog>
<WindowsAuthentication>false</WindowsAuthentication>
<UseCurrentUser>false</UseCurrentUser>
<ConnectAsUser />
<ConnectAsPassword />
改host，这里密码应该是Simple. 0，SA用户的密码
有需要就该，可以明文



f. license path : update UX.config
<string>C:\InstallScript\Certificate\BDNA_20180317.nbilic</string>

DPUX50SanityCheck_auto_X64.bat | Installation_ad1184.config | UX_ad1184.config | hosts | UX.DefaultAD.config

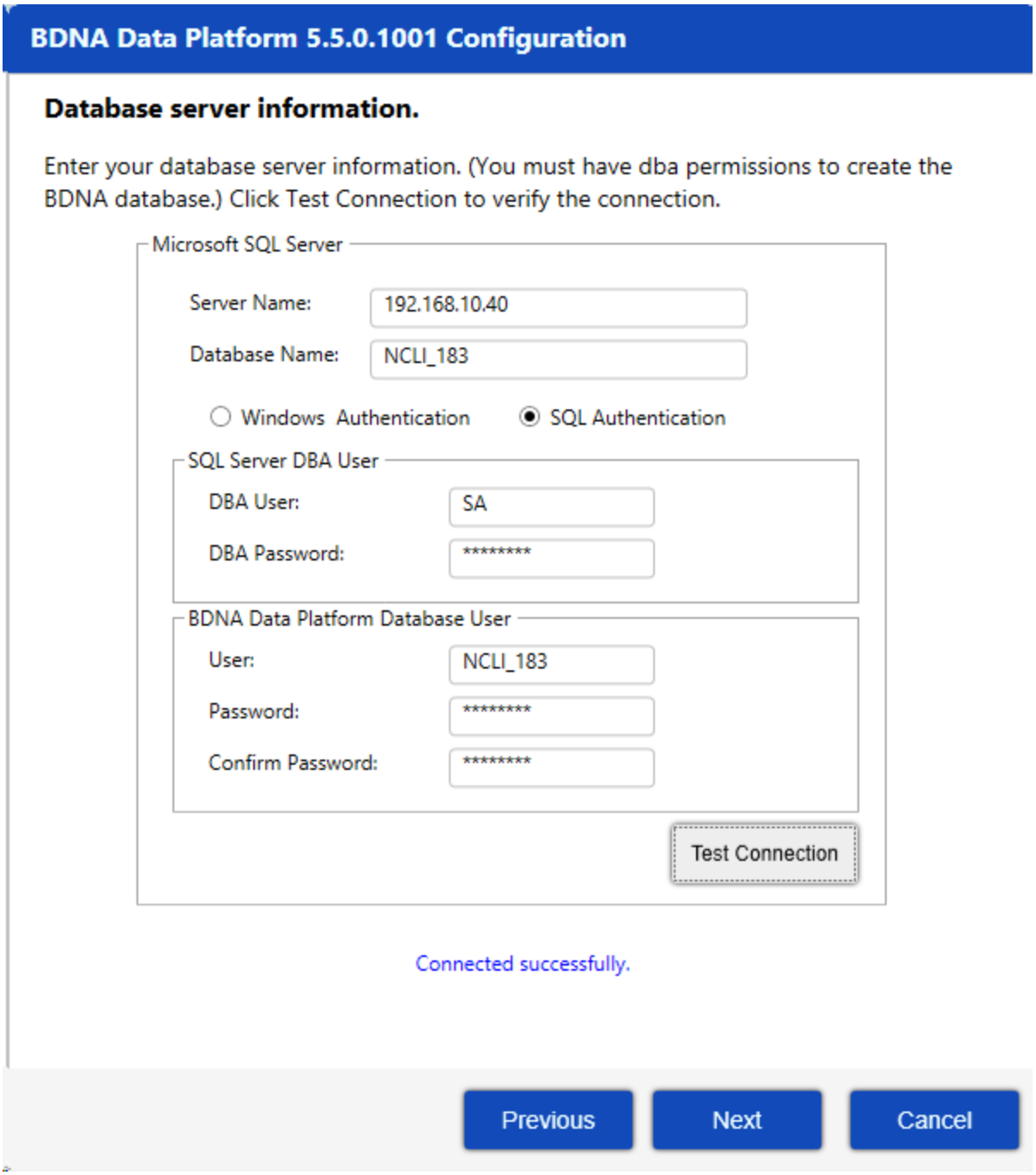
```
<?xml version="1.0"?>
<Configuration>
  <Account4Security>
    <Domain></Domain>
    <IsHttps>false</IsHttps>
    <UserName>demoadmin</UserName>
    <Password>bdna</Password>
    <Host>localhost</Host>
    <Port>80</Port>
  </Account4Security>
  <ValueDict>
    <key>
      <string>LicensePath</string>
    </key>
    <value>
      <string>\\192.168.8.25\app\BDNA\CoMo\BDNA_Technopedia_KEY.nbilic</string>
    </value>
```

g. Modify file ‘hosts - 快捷方式‘ to design which size package we will load (full or small).

h. 改好，点 DPUX5.0_SQL_IIS_Silent.cmd 开始安装.

i. logs
C:\BDNA\User Console\Logs
C:\BDNA\Data Platform
C:\InstallScript\logs

j. 脚本出错，打开尝试手动跑/测试



k. Incorrect license path， you can ignore this and open this tool to modify it manually.

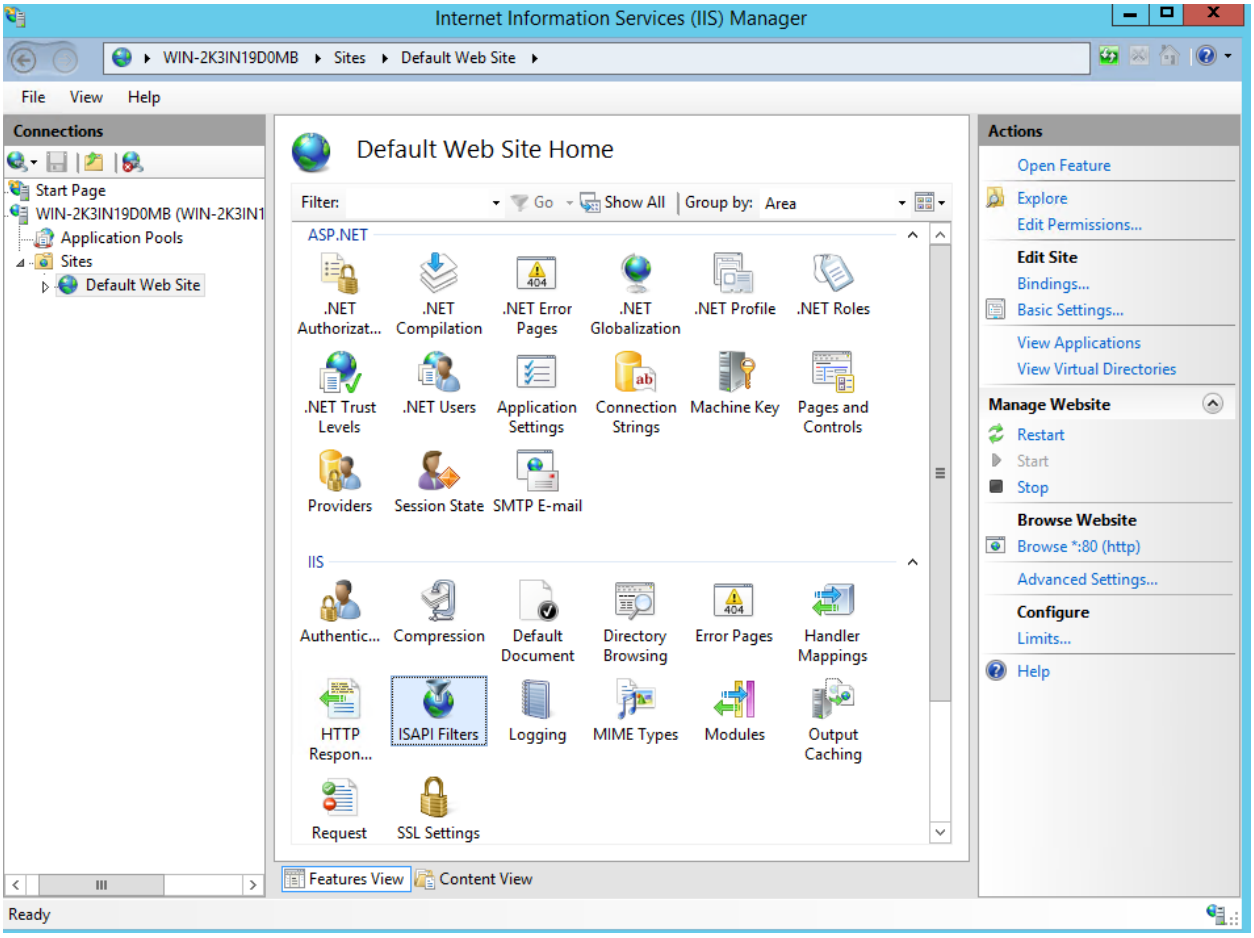
l. IIS error:

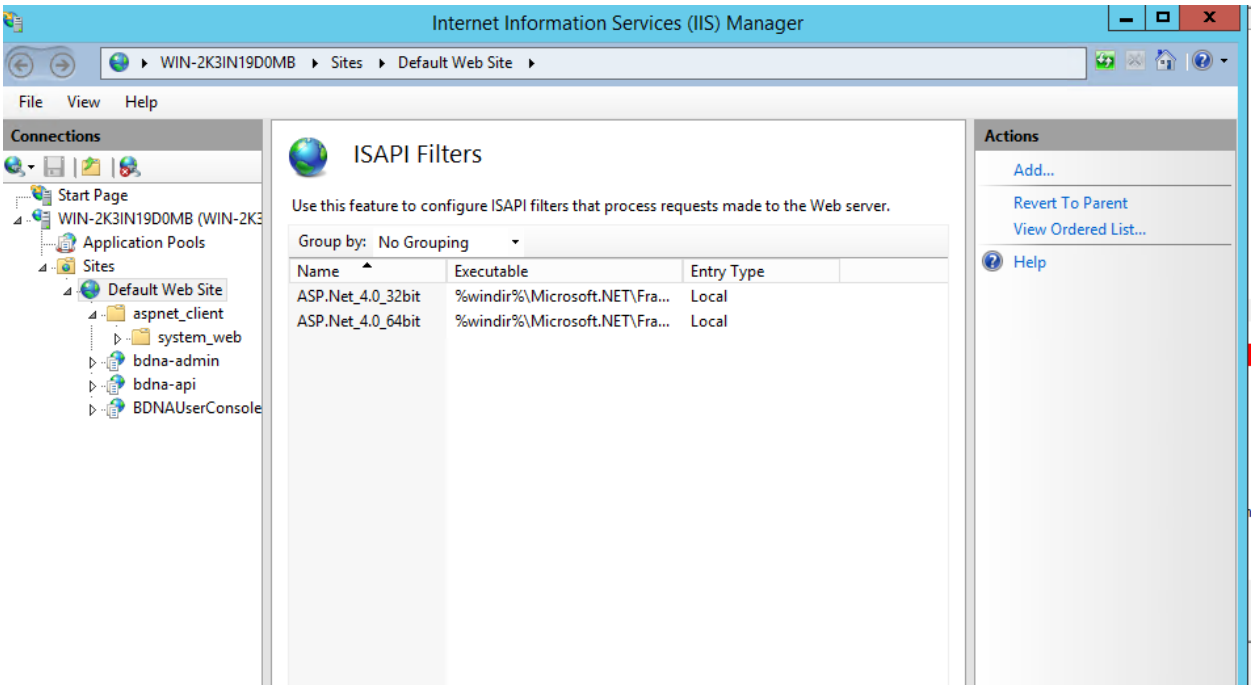
```
Start BDNA Data Platform Service.   Status:Can not load tapi web site.
Install_Fault
Install error!
Can not load tapi web site.
   at BDNA.Normalize.InstallBLL.InstallManager.DoWork()
   at bms.Common.Component.AsyncWorker.<>c__DisplayClass4.<DoWorker>b__3()
Install finished.
Making log files to attachments.
sending failed Email to members.
python C:\InstallScript\sendEmail.py -t engineering-dev-gz@bdna.com,comochen@bdna.com,Graveeli@bdna.com -s "[11.38@GZteam: "Others" branch][Fast T
**********
--- Done ---

Date/Time:                    Component:
Thread:                       Source:

Install finished.
```

m. Method to fix this error: delete process related to User Console. (cause: not uninstall user console clearly.)





n.

2.6. Open admin UI create tasks:

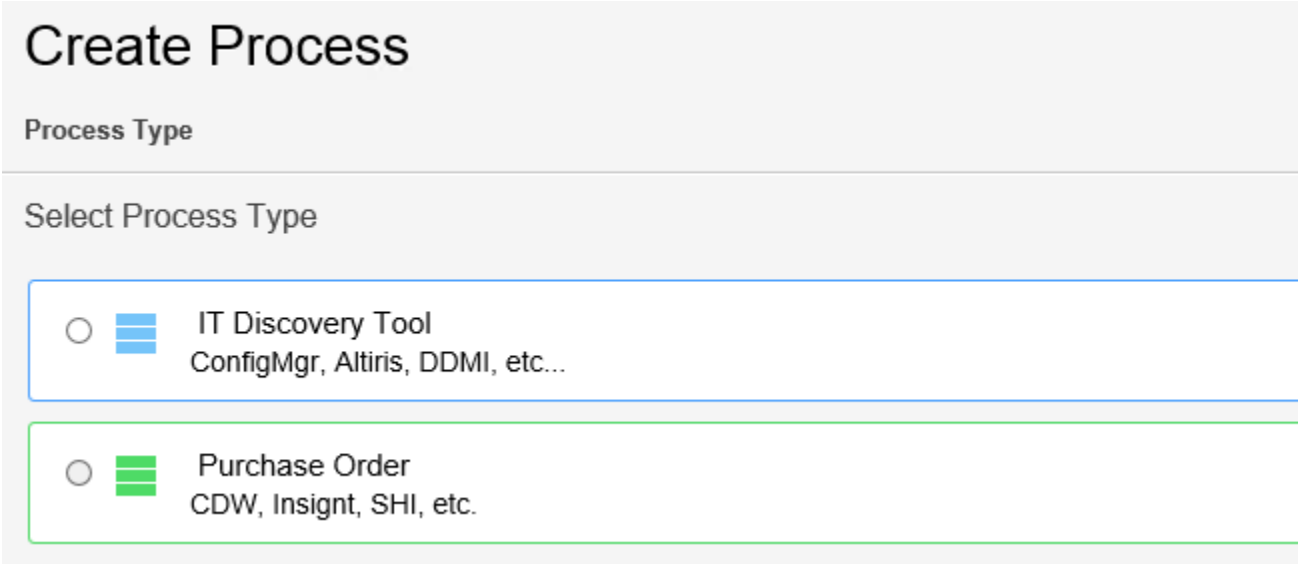
a. Click 'T ' on right up corner -> click Start Catalog Sync -> you see words "last update", means Sync finished.

b. Create Task -> back to Normalize tasks page (clicking 'N' on right up side) -> Create Process -> IT Discovery Tool -> next ->Select IT Discovery Tool ->Others: Normalize zip File ->Next -> zip file (C:\InstallScript\CACEY\HPUD.zip)

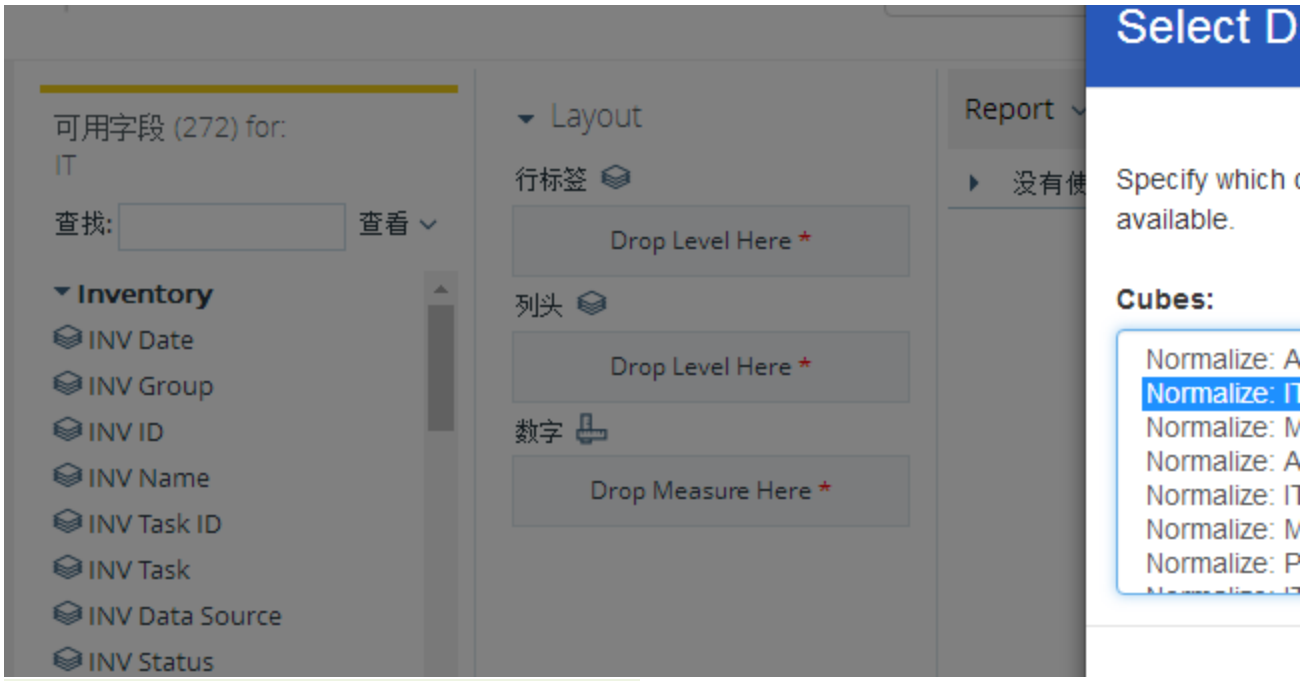
c. How to delete inventory:

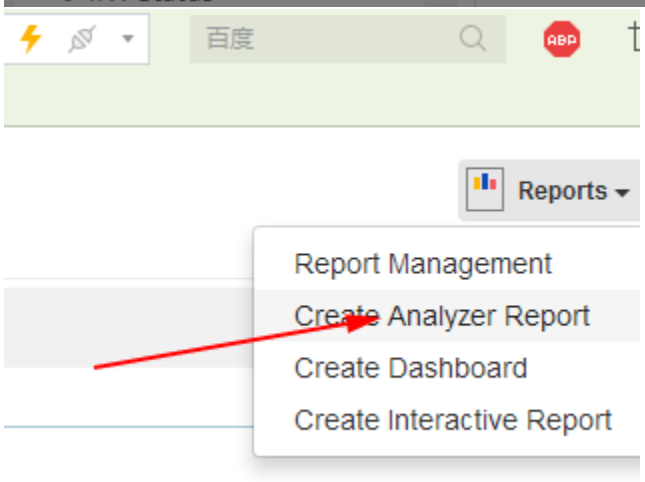
c. Available fields (210) for IT 的报告怎么看？

1. Create task for po (second choice) with csv file “C:\InstallScript\CACEY\CDW_DEMO.csv“, with user console host and credential (demoadmin/bdna).



2. User Console:





3.

2.7. Sql

```
SELECT * FROM BDNA_A_OBJ_ATT_METADATA$  WHERE ATT_OBJ_NAME LIKE '%SP';

SELECT * FROM BDNA_A_OBJ_METADATA$ WHERE P_OBJ_NAME LIKE '%SP';

select * from DIM_N_SYSTEM$ where [SYS_IS_DEDUPED] ='-';
select * from DIM_N_SYSTEM where [SYS_IS_DEDUPED] ='-';

select count(*) from DIM_N_SYSTEM$
select count(*) from DIM_N_SYSTEM;
```

2.8. Refresh all

http://192.168.11.184/bdna/Home

tool

2.9. Patch set:

Structure:

[bdna@VMDC8245 AnalyzePatchSet]$ ls

Installer Patch Readme.txt updater.config

Installer: same file as the source code (replace).

Patch: modified or new (hotfix).

Readme.txt: description for bugs.

updater.config:

1. Backup original files: backup dir for 'Rollback', one dir one node.

2. Run SQL: these sql for different DBType will be run while installing the patchset. (take effect right now, called hotfix, can be modified files or new files)

3. Update files: just the modified file, file in the installer. if the new file in 'Run SQL' was not included in source code, ignore it here.

3.1. 'Goto="end"' should be set in the last node, otherwise it will end earier.

4. Restore original files: if there are multiple node needed 'Rollback', 'id="Rollback" should be unique and in the first node.

4.1. 'ExitCode="1"' should be in the last Rollback node.

```
<?xml version="1.0" encoding="utf-8" ?>
<configuration>
  <Actions>
  <!-- Backup original files -->

    <Copy todir="%NORMALIZE_BI_HOME%\Tmp\552_Analyze_Procedures\Oracle" Overwrite="true" IgnoreError="false" OnErrGoto="End">
          <Fileset source="%NORMALIZE_BI_HOME%\Database\Oracle\Script\DM_Create_Objects.sql" dest="DM_Create_Objects.sql" />
          <Fileset source="%NORMALIZE_BI_HOME%\Database\Oracle\Script\NBI_Create_Objects.sql" dest="NBI_Create_Objects.sql" />
        </Copy>

    <Copy todir="%NORMALIZE_BI_HOME%\Tmp\552_Analyze_Procedures\SQLServer" Overwrite="true" IgnoreError="false" OnErrGoto="End">
          <Fileset source="%NORMALIZE_BI_HOME%\Database\SQLServer\Script\NBI_Create_Objects.sql" dest="NBI_Create_Objects.sql" />
        </Copy>

        <!-- Run SQL -->
        <DBScript Database="Publish" IgnoreError="false" OnErrGoto="END">
                <FileSet DatabaseType ="Oracle" source="Patch\Oracle\DM_Create_Objects.sql"/>
                <FileSet DatabaseType ="Oracle" source="Patch\Oracle\NBI_Create_Objects.sql"/>
                <FileSet DatabaseType ="Oracle" source="Patch\Oracle\addDumRows.sql"/>
                <FileSet DatabaseType ="MSSQLServer" source="Patch\SQLServer\NBI_Create_Objects.sql"/>
                <FileSet DatabaseType ="MSSQLServer" source="Patch\SQLServer\addDumRows.sql"/>
        </DBScript>

        <!-- Update files -->
    <Copy todir="%NORMALIZE_BI_HOME%\Database\Oracle\Script" Overwrite="true" IgnoreError="false" OnErrGoto="Rollback">
          <Fileset source="%SOURCE%\Installer\Oracle\DM_Create_Objects.sql" dest="DM_Create_Objects.sql" />
          <Fileset source="%SOURCE%\Installer\Oracle\NBI_Create_Objects.sql" dest="NBI_Create_Objects.sql" />
        </Copy>

    <Copy todir="%NORMALIZE_BI_HOME%\Database\SQLServer\Script" Overwrite="true" IgnoreError="false" OnErrGoto="Rollback" Goto="end">
          <Fileset source="%SOURCE%\Installer\SQLServer\NBI_Create_Objects.sql" dest="NBI_Create_Objects.sql" />
        </Copy>

        <!-- Restore original files -->

   <Copy id="Rollback" todir="%NORMALIZE_BI_HOME%\Database\Oracle\Script" Overwrite="true" IgnoreError="false">
        <Fileset sourcedir="%NORMALIZE_BI_HOME%\Tmp\552_Analyze_Procedures\Oracle">
                        <Include pattern="DM_Create_Objects.sql" />
                        <Include pattern="NBI_Create_Objects.sql" />
            </Fileset>
    </Copy>

    <Copy todir="%NORMALIZE_BI_HOME%\Database\SQLServer\Script" Overwrite="true" IgnoreError="false" ExitCode="1">
        <Fileset sourcedir="%NORMALIZE_BI_HOME%\Tmp\552_Analyze_Procedures\SQLServer">
                        <Include pattern="NBI_Create_Objects.sql" />
            </Fileset>
    </Copy>

    </Actions>
</configuration>
```


2.10. Zip Package (no itself sub folder)

[bdna@VMDC8245 AnalyzePatchSet]$ ls

Installer Patch Readme.txt updater.config

[bdna@VMDC8245 AnalyzePatchSet]$ zip -p -r AnalyzePatchSet.zip ./*

```
  adding: Installer/ (stored 0%)
  adding: Installer/Oracle/ (stored 0%)
  adding: Installer/Oracle/NBI_Create_Objects.sql (deflated 92%)
  adding: Installer/Oracle/DM_Create_Objects.sql (deflated 89%)
  adding: Installer/SQLServer/ (stored 0%)
  adding: Installer/SQLServer/NBI_Create_Objects.sql (deflated 92%)
  adding: Patch/ (stored 0%)
  adding: Patch/Oracle/ (stored 0%)
  adding: Patch/Oracle/addDumRows.sql (deflated 72%)
  adding: Patch/Oracle/NBI_Create_Objects.sql (deflated 92%)
  adding: Patch/Oracle/DM_Create_Objects.sql (deflated 89%)
  adding: Patch/SQLServer/ (stored 0%)
  adding: Patch/SQLServer/addDumRows.sql (deflated 71%)
  adding: Patch/SQLServer/NBI_Create_Objects.sql (deflated 92%)
  adding: Readme.txt (deflated 23%)
  adding: updater.config (deflated 78%)
[bdna@VMDC8245 AnalyzePatchSet]$ ls
AnalyzePatchSet.zip  Installer  Patch  Readme.txt  updater.config
[bdna@VMDC8245 AnalyzePatchSet]$
```

2.11. Patch set test:

```
C:\BDNA\User Console>.\Bin\Updater.exe /File=c:\AnalyzePatchSet.zip
Extracting...Done [OK]
Initialize Actions...Done [OK]
Executing action [0][CopyAction]...Done [OK]
Executing action [1][CopyAction]...Done [OK]
Executing action [2][DBScriptAction]...Done [OK]
Executing action [3][CopyAction]...Done [OK]
Executing action [4][CopyAction]...Done [OK]
```

2.12.