Application Discovery

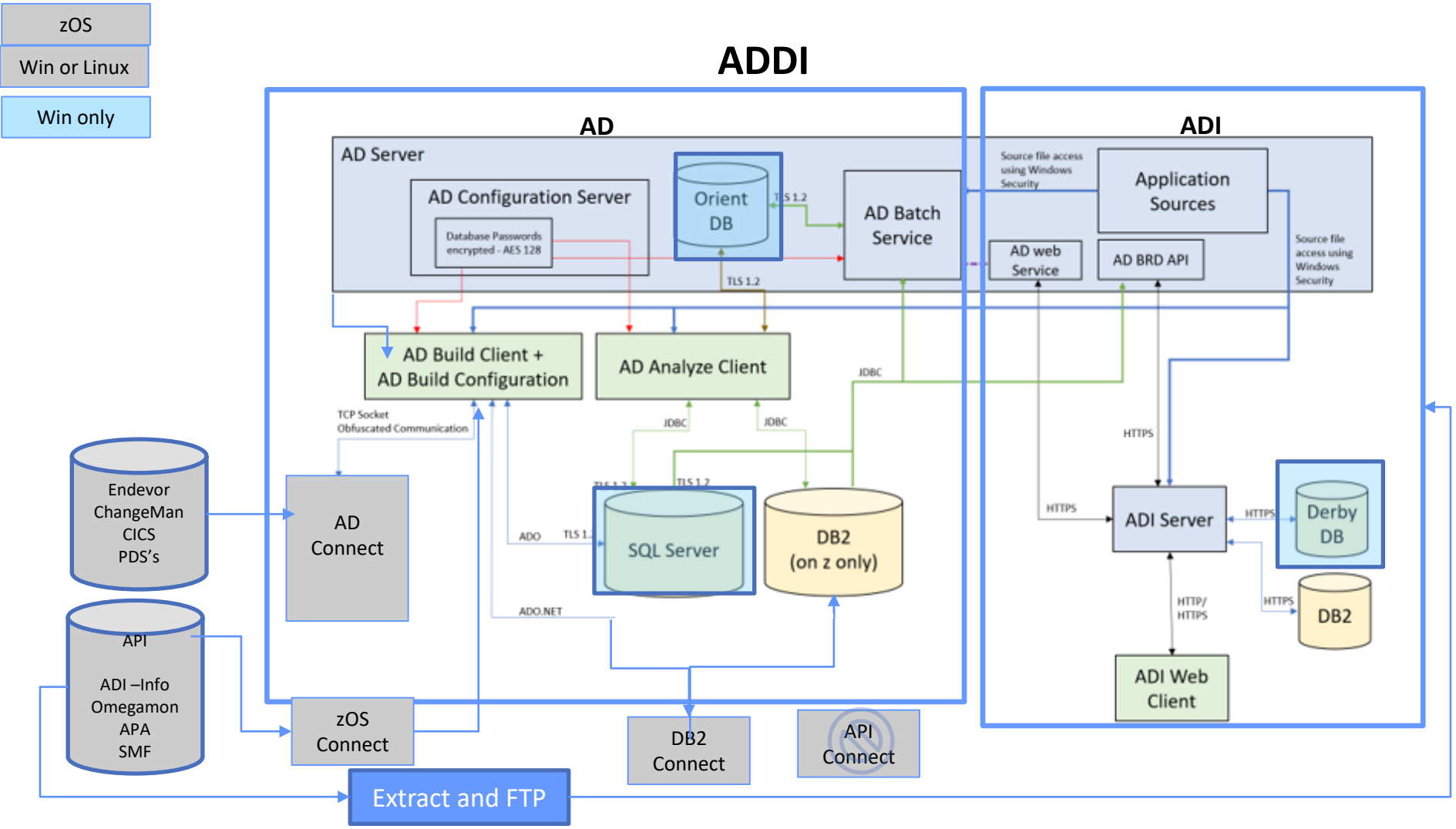
ADMINISTRATION for ADDI 6.0.1

youIBM

TOPICS

- OVERVIEW OF APPLICATION DISCOVERY
- BUILD CLIENT
- BUILD CONFIGURATOR
- SYNCHRONIZATION AND BUILD IN BATCH MODE
- INSTALLATION OF SERVER AND ANALYZE CLIENT PLUGIN
- DASHBOARD AND OPERATION

APPLICATION DISCOVERY ARCHITECTURE



APPLICATION DISCOVERY SERVICES

- BATCH SERVER
- GRAPHICS DATABASE
- CONFIGURATION ADMIN SERVICE
- CONFIGURATION SERVICE
- FILE SERVICE
- RESOLUTIONS SERVICE
- CROSS APPLICATION SERVICE
- SEARCH SERVICE

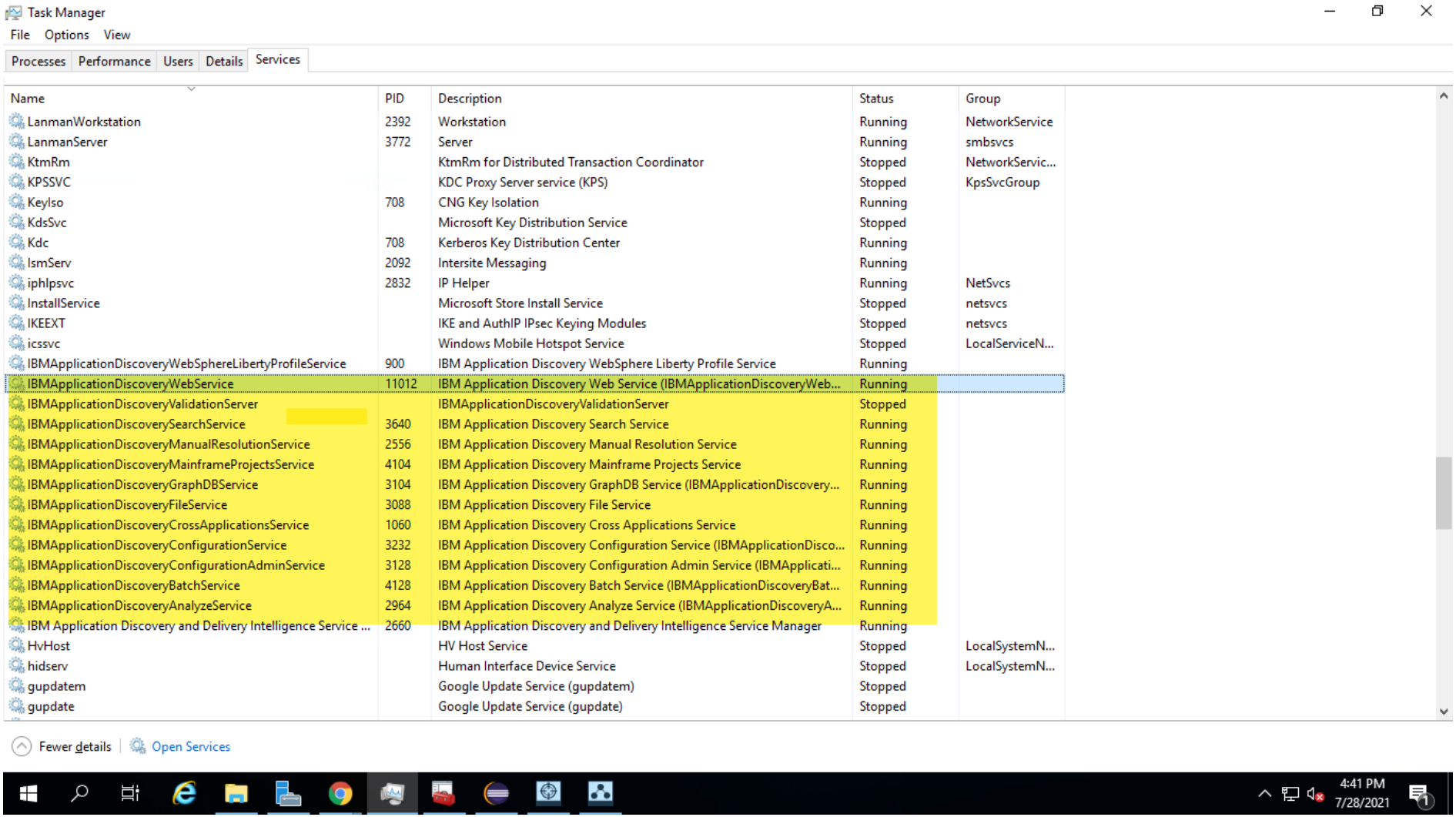
APPLICATION DISCOVERY CLIENTS

- ECLIPSE OR IDz ANALYZE CLIENT
- WINDOWS-ONLY BUILD CLIENT

APPLICATION DISCOVERY REPOSITORY

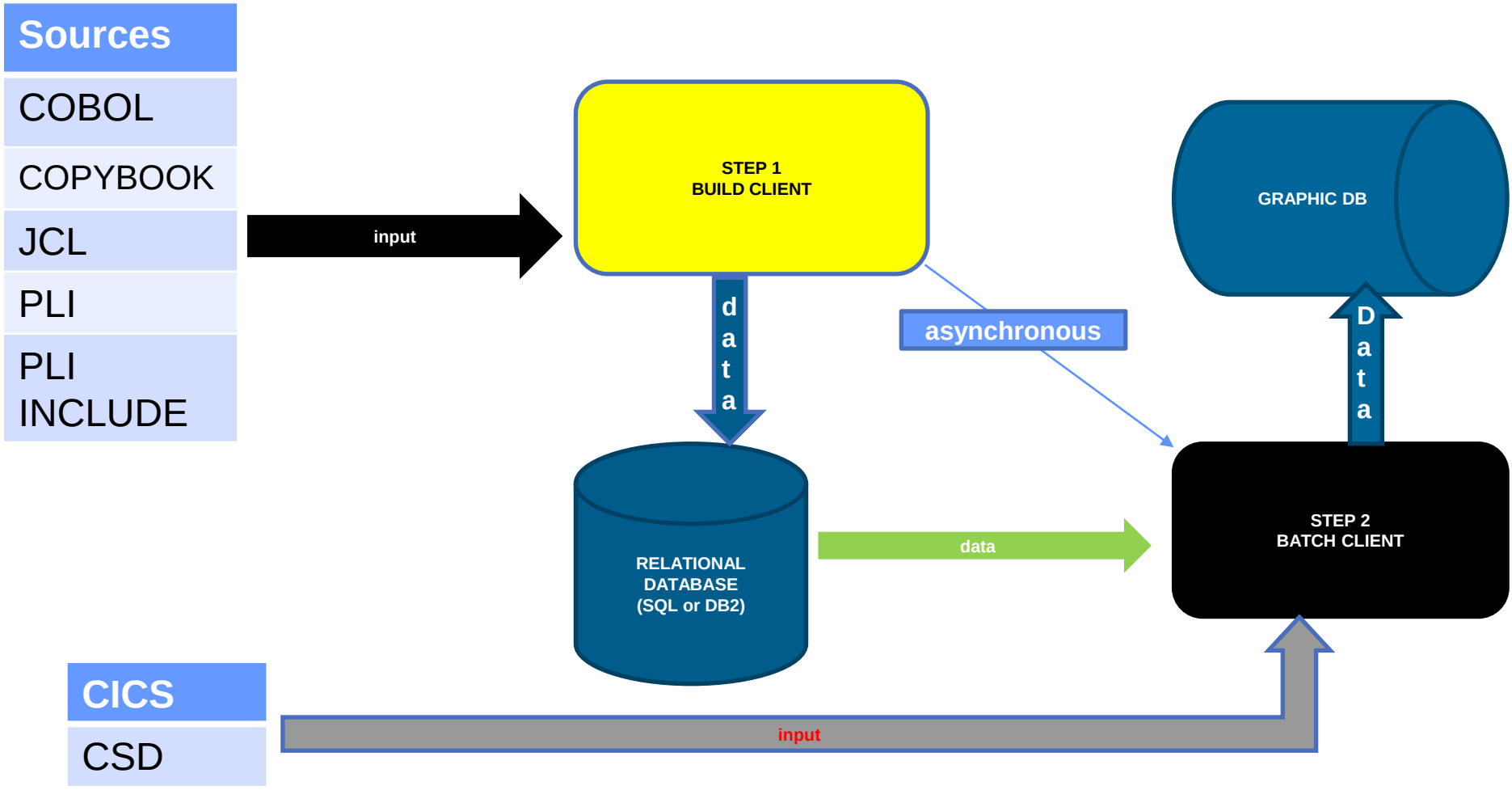
- SQL Server, or
- DB2 zOS or LUW

TASKMGR OUTPUT

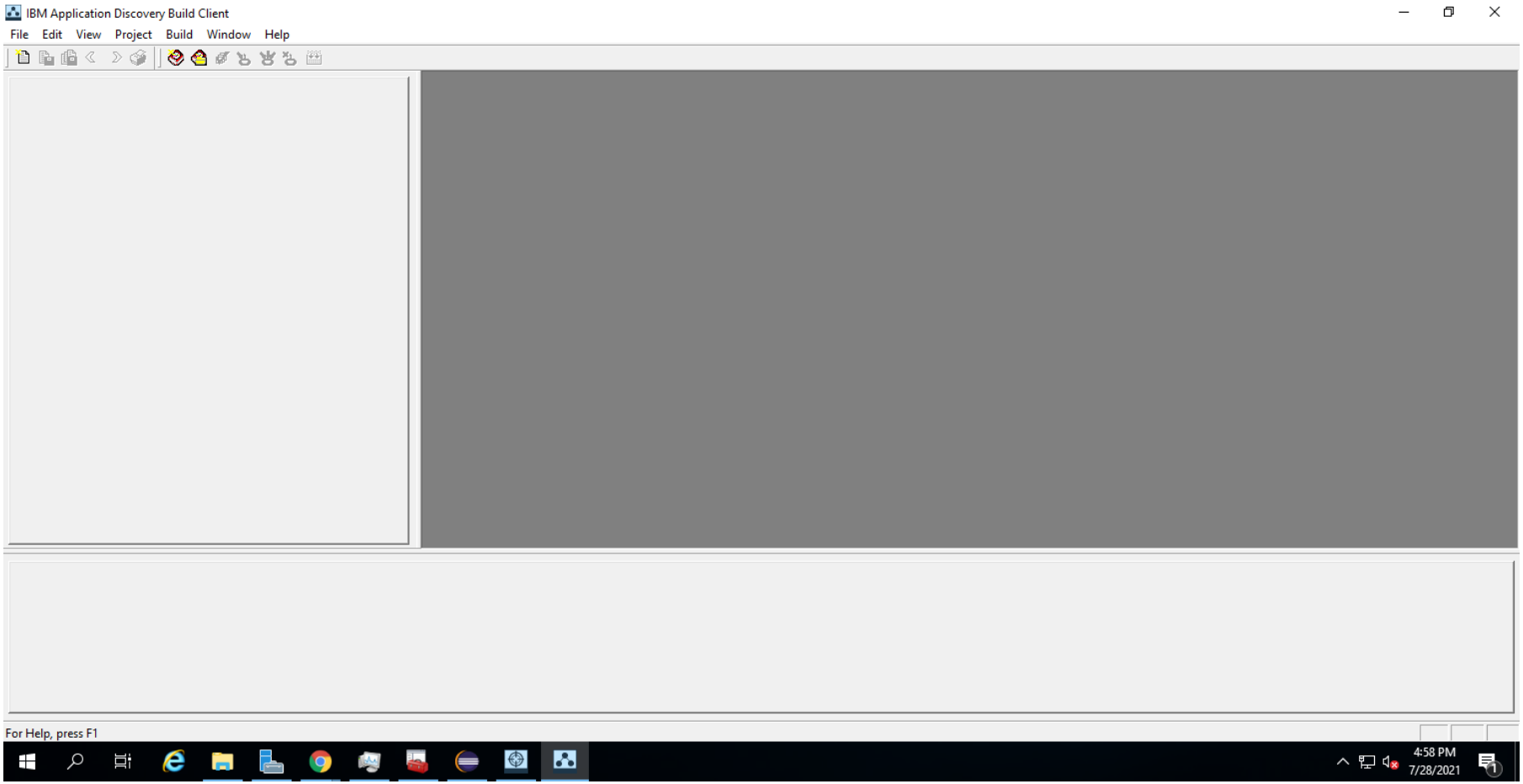


Name	PID	Description	Status	Group
LanmanWorkstation	2392	Workstation	Running	NetworkService
LanmanServer	3772	Server	Running	smbsvcs
KtmRm		KtmRm for Distributed Transaction Coordinator	Stopped	NetworkServic...
KPSSVC		KDC Proxy Server service (KPS)	Stopped	KpsSvcGroup
KeyIso	708	CNG Key Isolation	Running	
KdsSvc		Microsoft Key Distribution Service	Stopped	
Kdc	708	Kerberos Key Distribution Center	Running	
IsmServ	2092	Intersite Messaging	Running	
iphlpsvc	2832	IP Helper	Running	NetSvcs
InstallService		Microsoft Store Install Service	Stopped	netsvcs
IKEEXT		IKE and AuthIP IPsec Keying Modules	Stopped	netsvcs
icssvc		Windows Mobile Hotspot Service	Stopped	LocalServiceN...
IBMApplicationDiscoveryWebSphereLibertyProfileService	900	IBM Application Discovery WebSphere Liberty Profile Service	Running	
IBMApplicationDiscoveryWebService	11012	IBM Application Discovery Web Service (IBMApplicationDiscoveryWeb...	Running	
IBMApplicationDiscoveryValidationServer		IBMApplicationDiscoveryValidationServer	Stopped	
IBMApplicationDiscoverySearchService	3640	IBM Application Discovery Search Service	Running	
IBMApplicationDiscoveryManualResolutionService	2556	IBM Application Discovery Manual Resolution Service	Running	
IBMApplicationDiscoveryMainframeProjectsService	4104	IBM Application Discovery Mainframe Projects Service	Running	
IBMApplicationDiscoveryGraphDBService	3104	IBM Application Discovery GraphDB Service (IBMApplicationDiscovery...	Running	
IBMApplicationDiscoveryFileService	3088	IBM Application Discovery File Service	Running	
IBMApplicationDiscoveryCrossApplicationsService	1060	IBM Application Discovery Cross Applications Service	Running	
IBMApplicationDiscoveryConfigurationService	3232	IBM Application Discovery Configuration Service (IBMApplicationDisco...	Running	
IBMApplicationDiscoveryConfigurationAdminService	3128	IBM Application Discovery Configuration Admin Service (IBMApplicati...	Running	
IBMApplicationDiscoveryBatchService	4128	IBM Application Discovery Batch Service (IBMApplicationDiscoveryBat...	Running	
IBMApplicationDiscoveryAnalyzeService	2964	IBM Application Discovery Analyze Service (IBMApplicationDiscoveryA...	Running	
IBM Application Discovery and Delivery Intelligence Service ...	2660	IBM Application Discovery and Delivery Intelligence Service Manager	Running	
HvHost		HV Host Service	Stopped	LocalSystemN...
hidserv		Human Interface Device Service	Stopped	LocalSystemN...
gupdatem		Google Update Service (gupdatem)	Stopped	
gupdate		Google Update Service (gupdate)	Stopped	

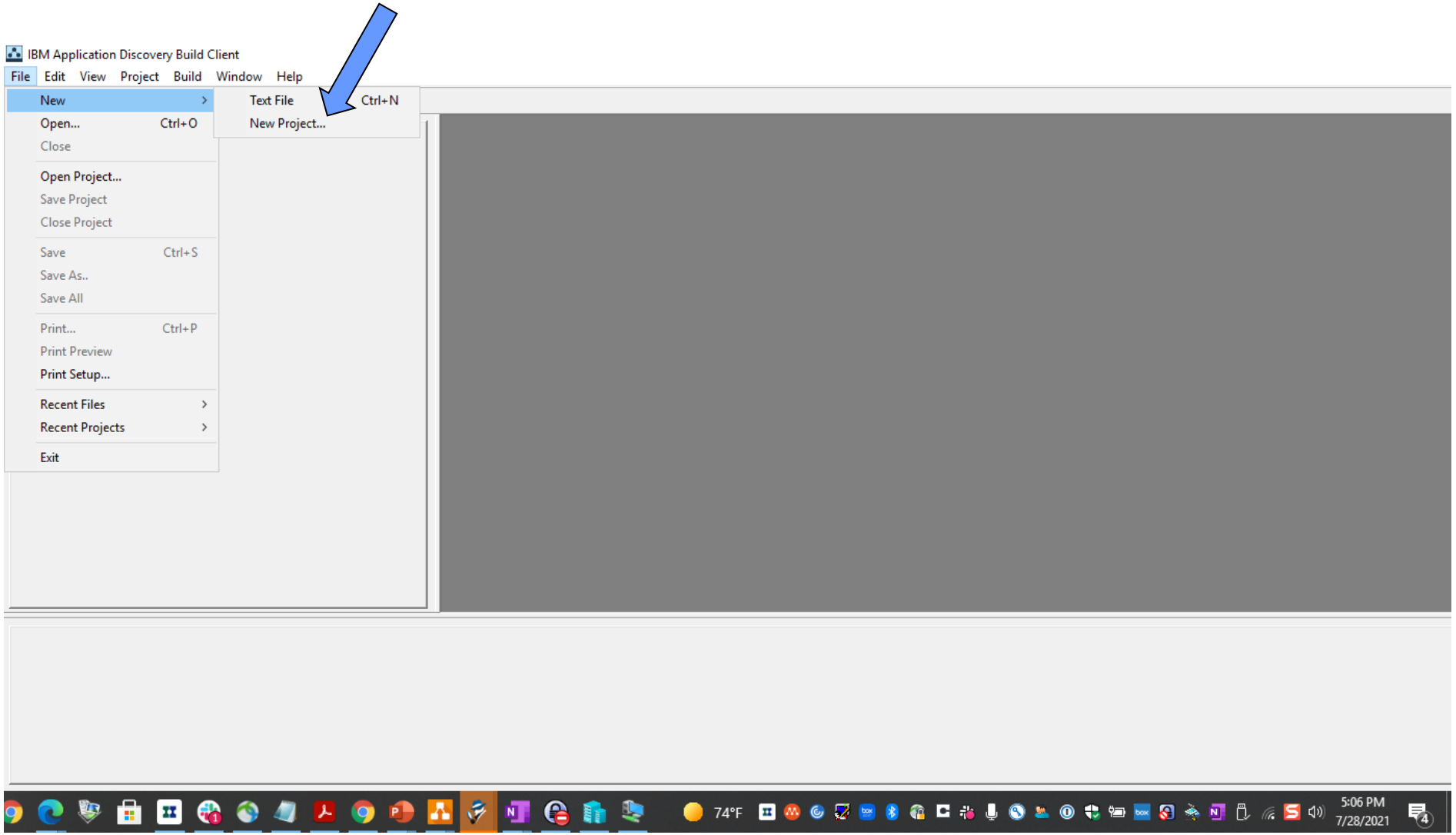
BUILD PROCESS



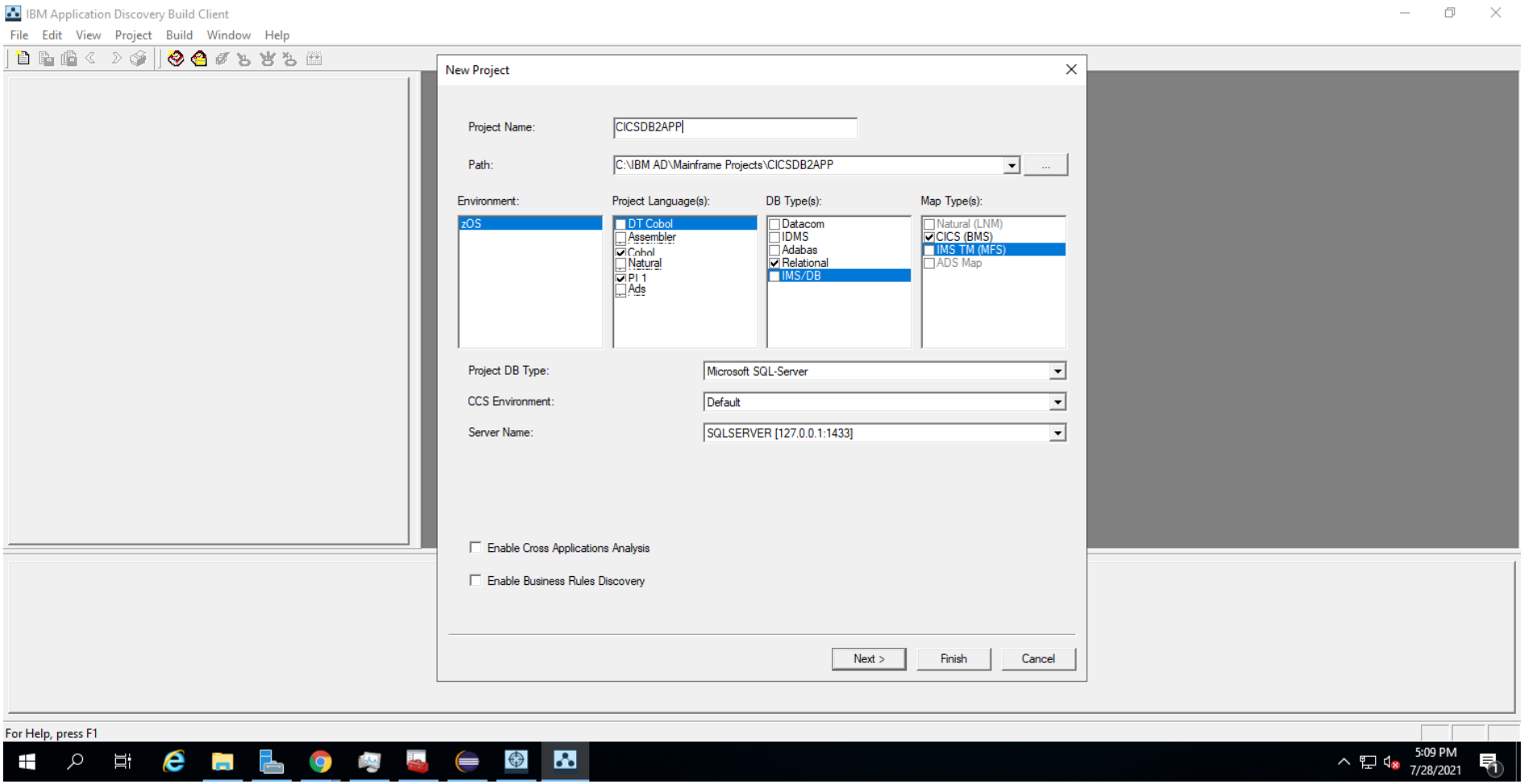
BUILD CLIENT



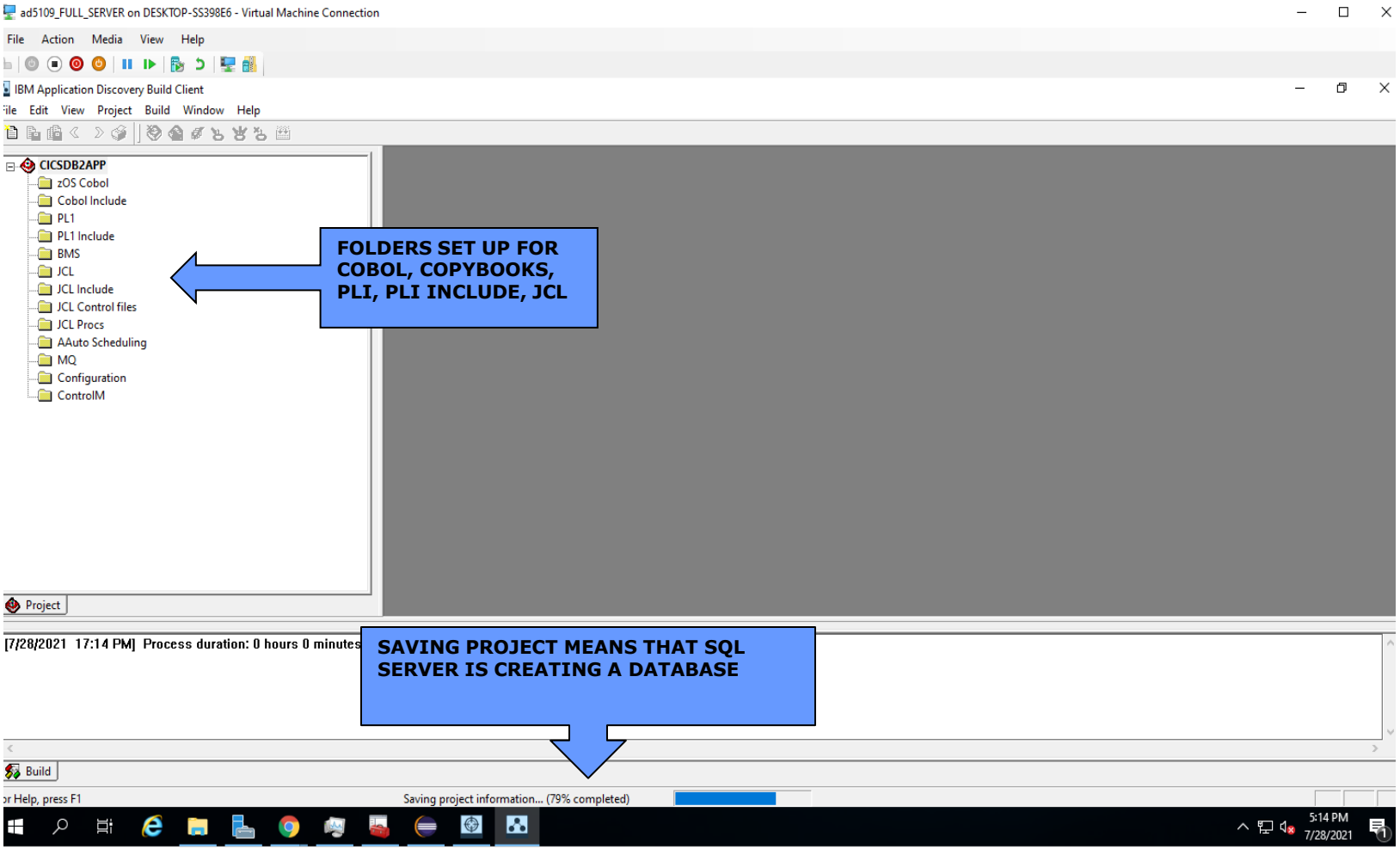
BUILD NEW PROJECT



BUILD COBOL, PLI, DB2, CICS APPLICATION

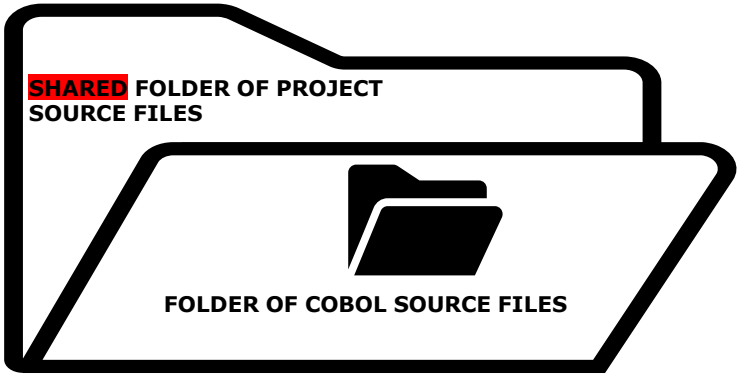


NEW PROJECT CREATING A DATABASE IN SQL

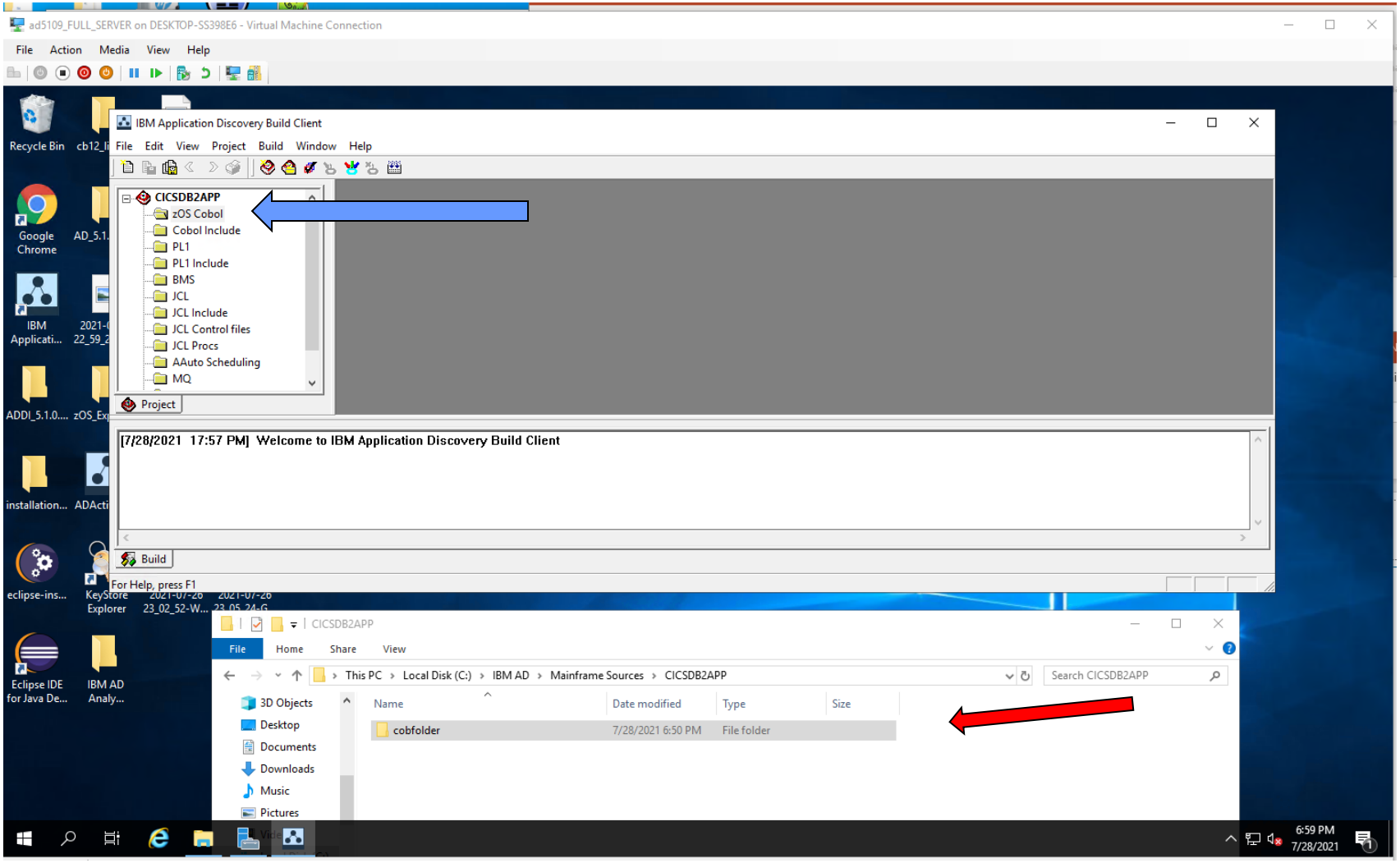


PROJECT SHARED SOURCE CODE FOLDER

COPY COBOL FOLDER CONTAINING COBOL FILES TO SOURCE FILES SHARED FOLDER

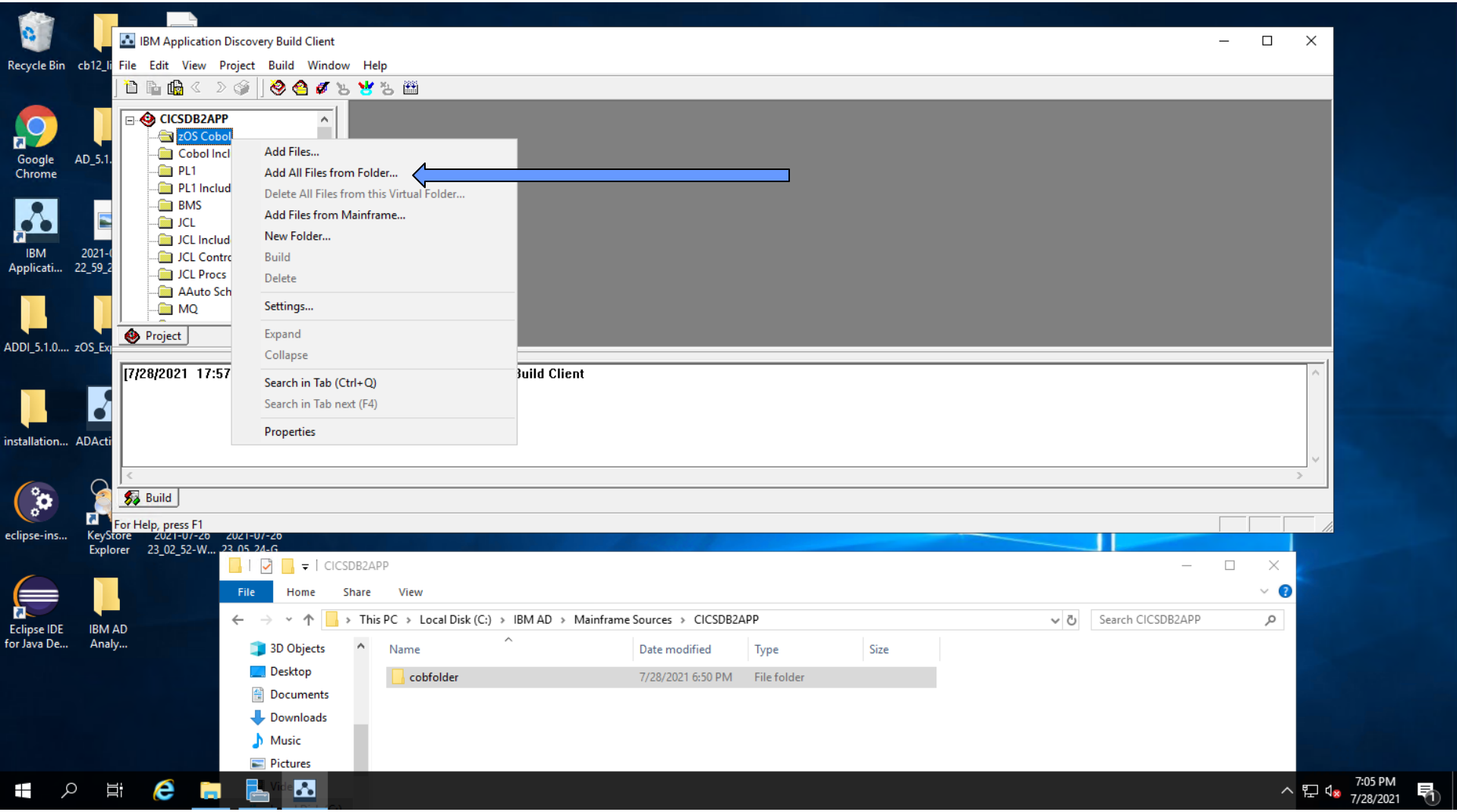


SETUP BUILD FOR WINDOWS SOURCE FILES

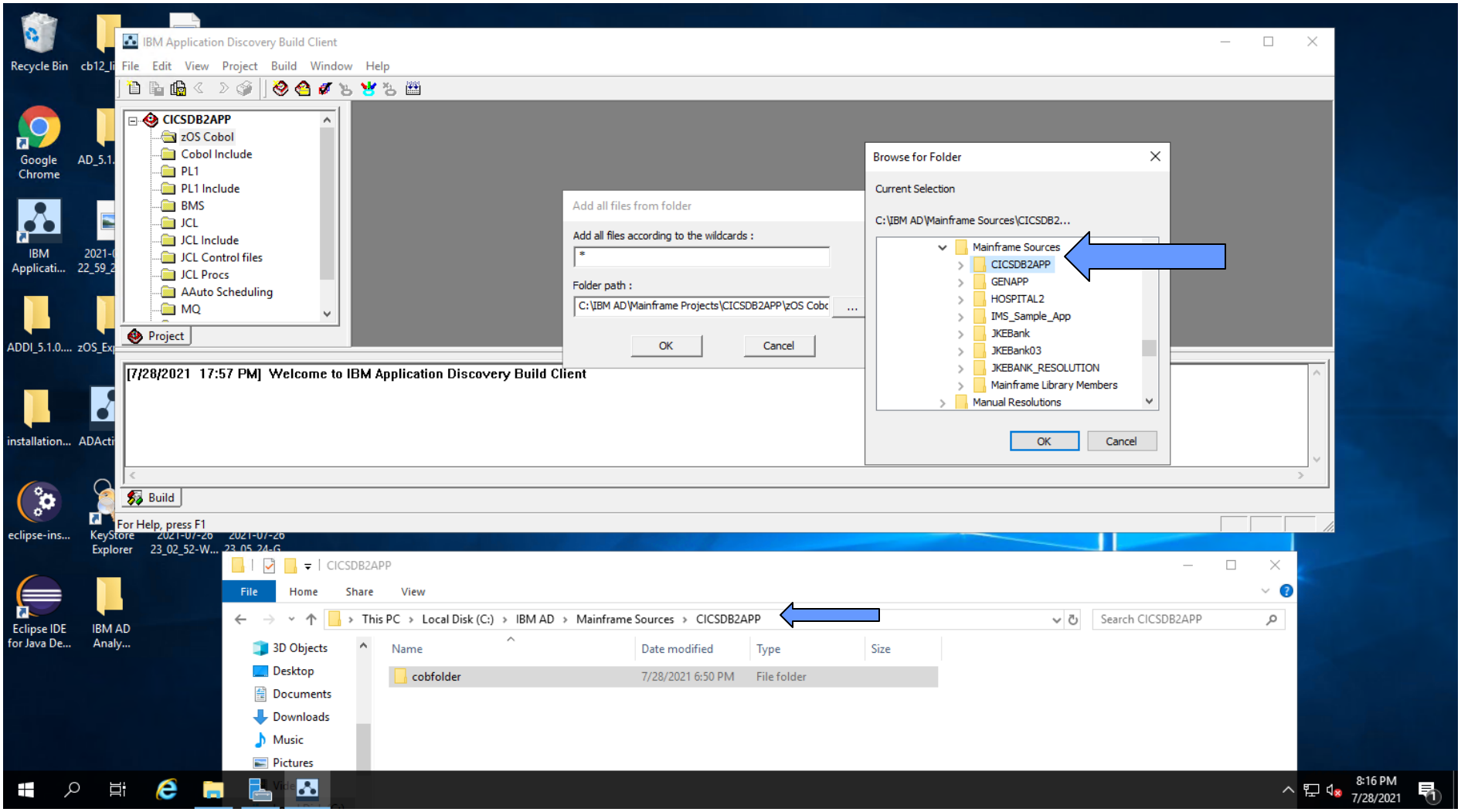


associate cobfolder FOLDER to zOS Cobol FOLDER

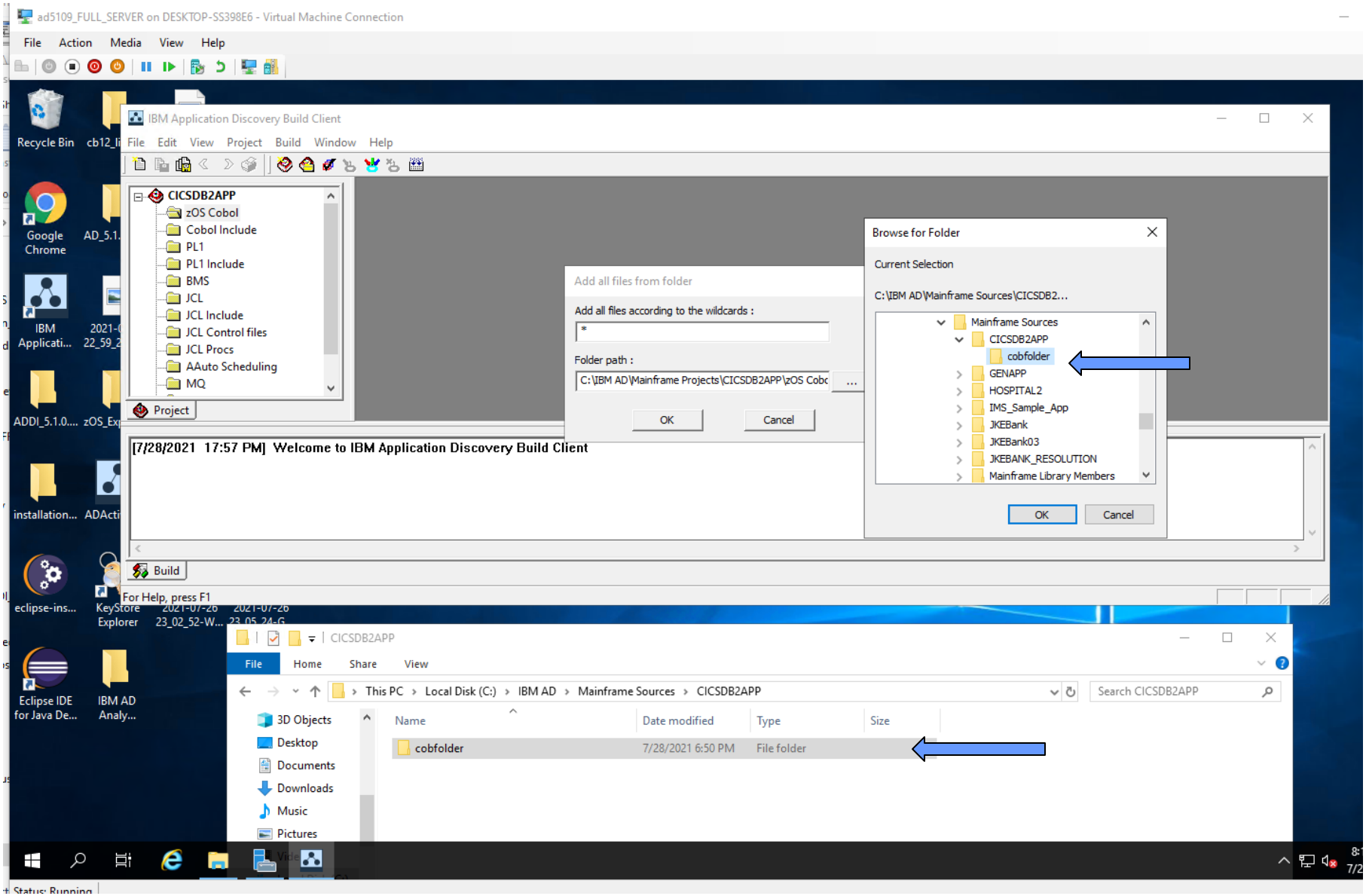
ADD ALL FILES FROM WINDOWS FOLDER



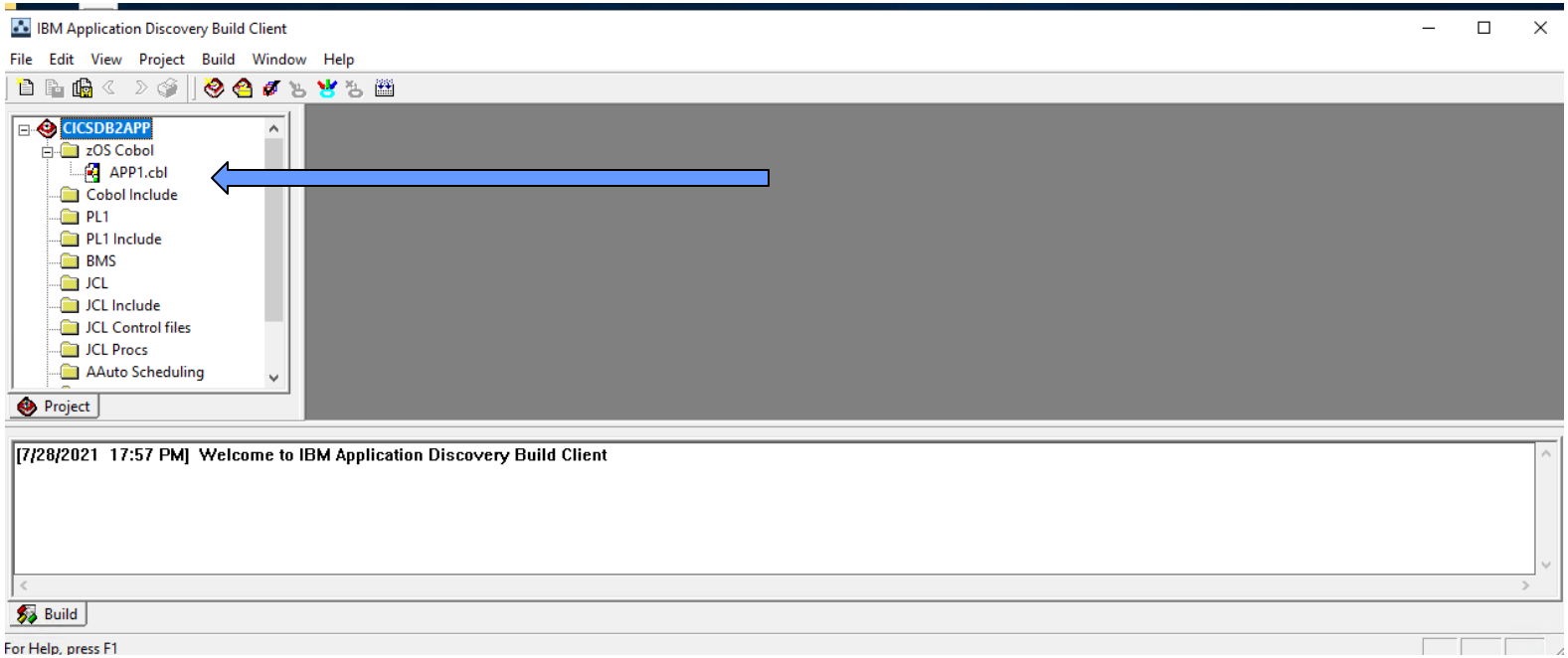
ADDING FOLDER



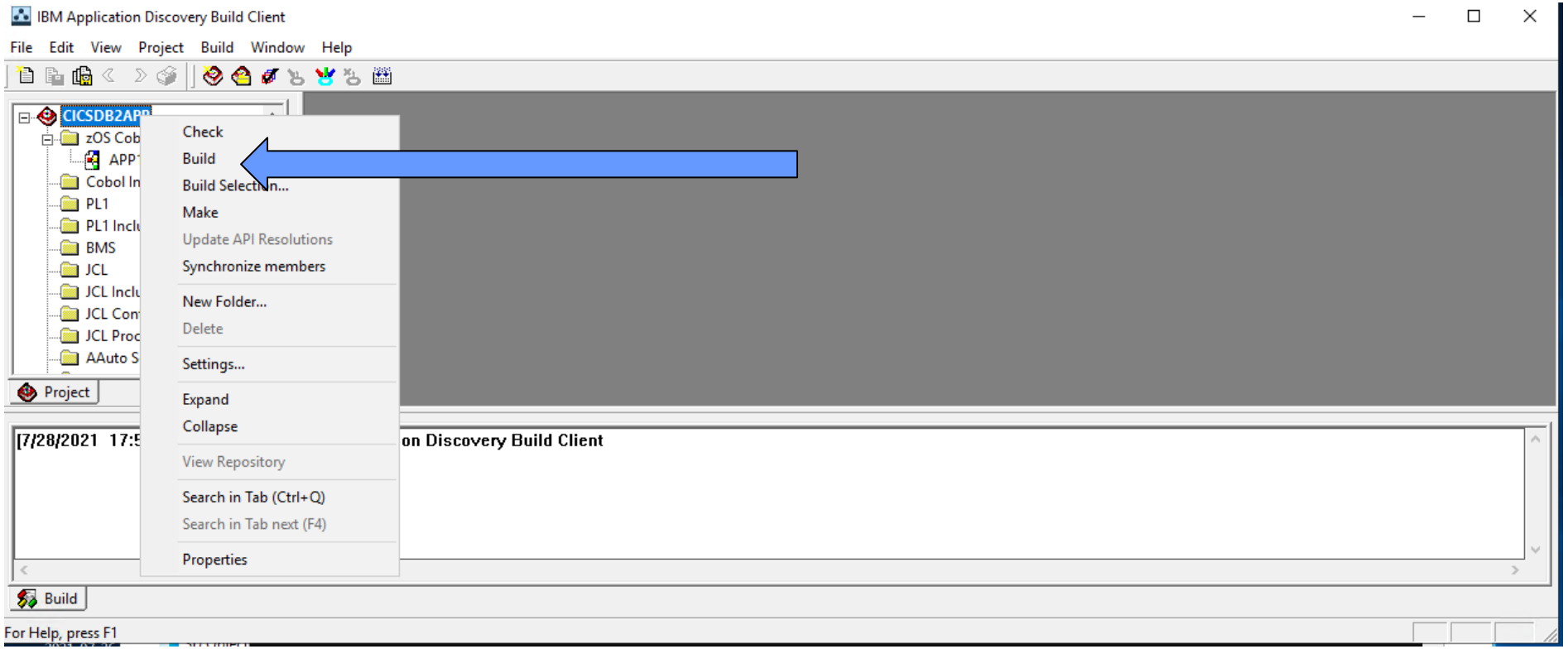
ADDING FOLDER cobfolder as a zOS COBOL



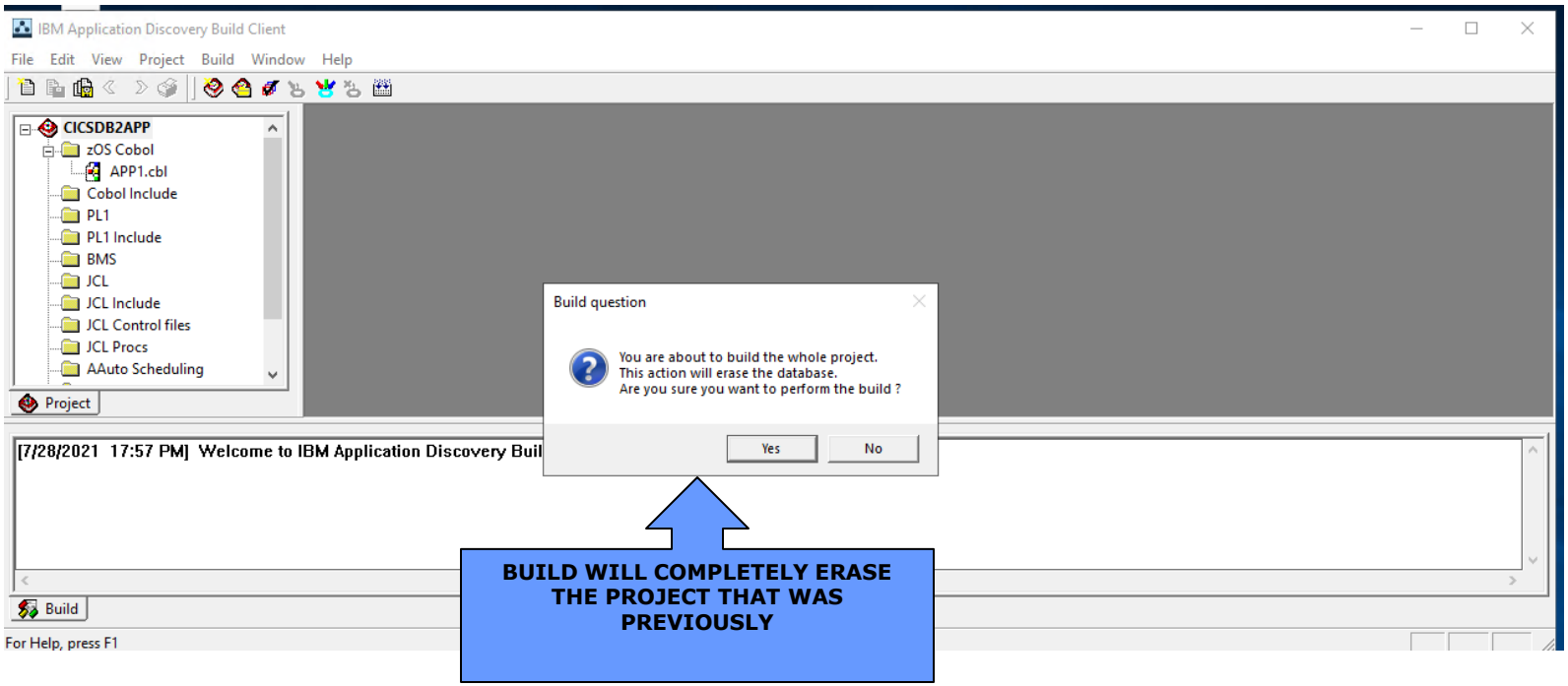
APP1.cbl COBOL file added to zOS COBOL folder



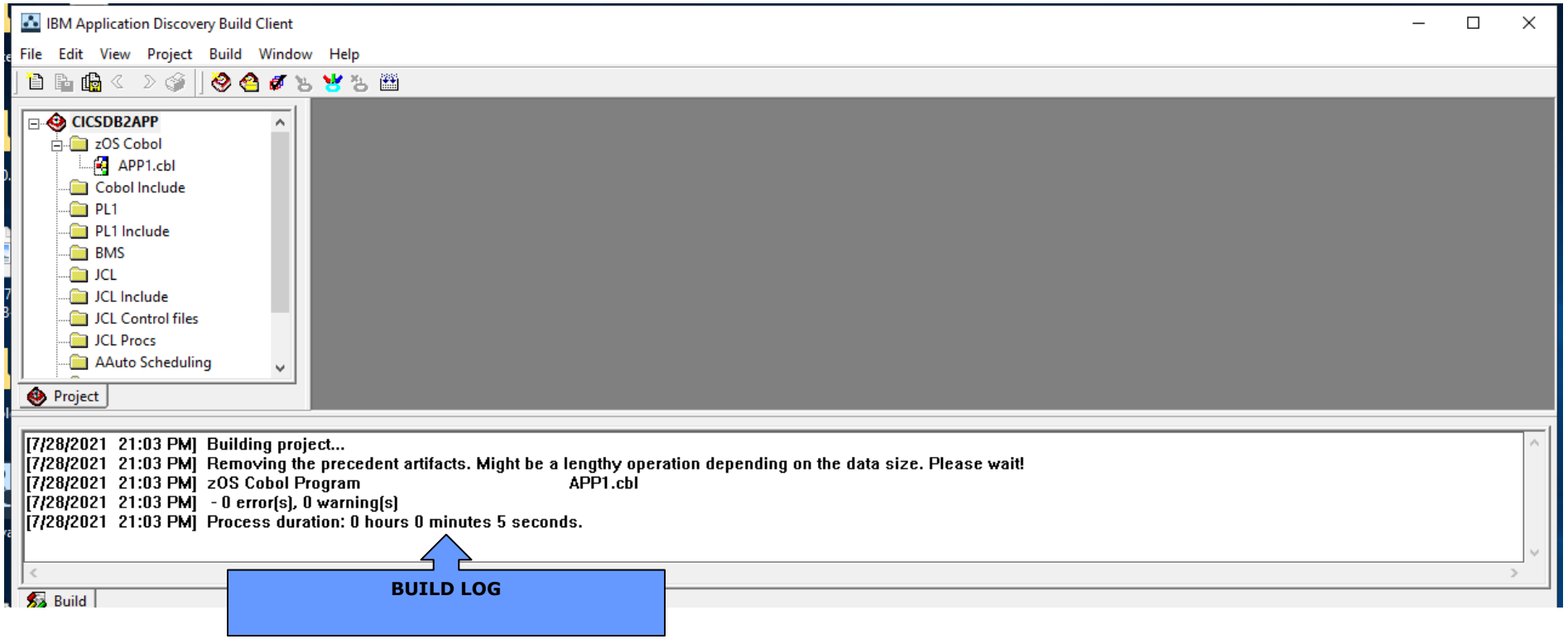
“BUILD” APPLICATION



WARNING PRIOR TO BUILD....



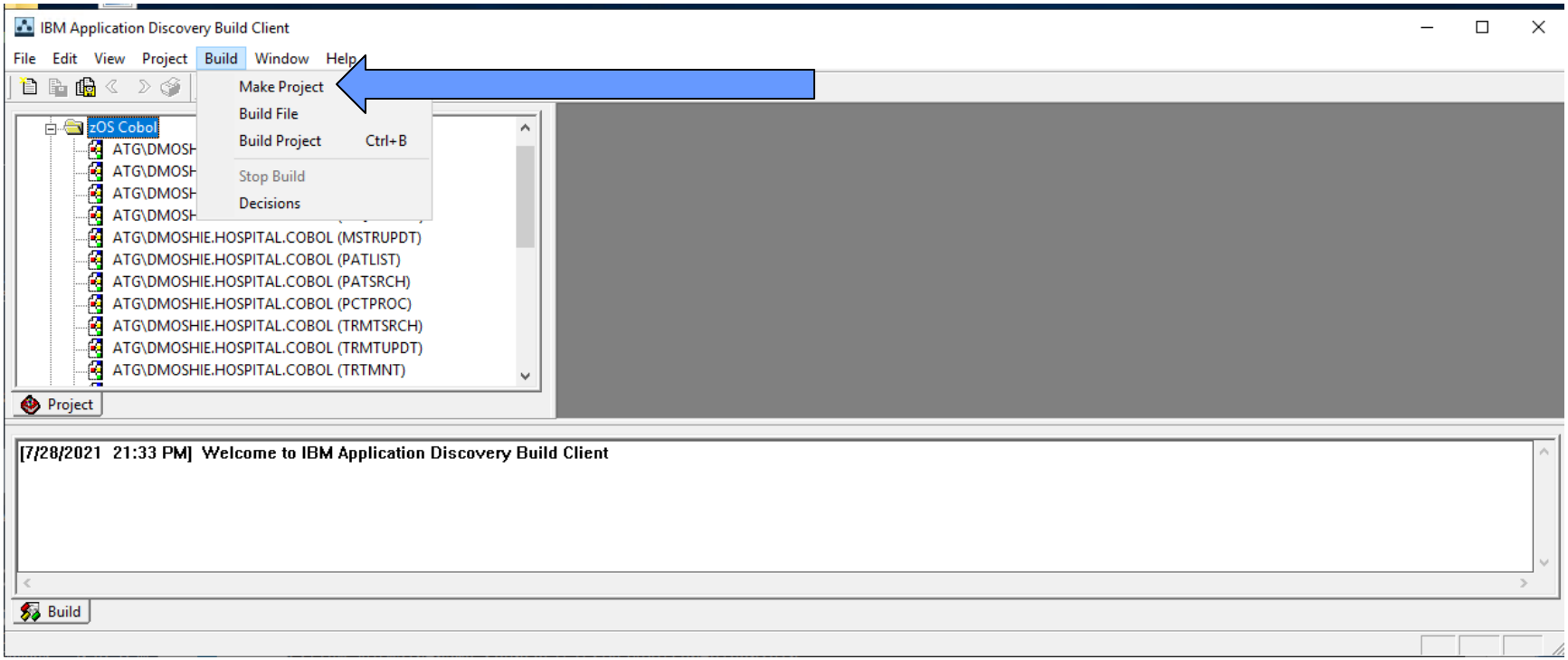
BUILD COMPLETED



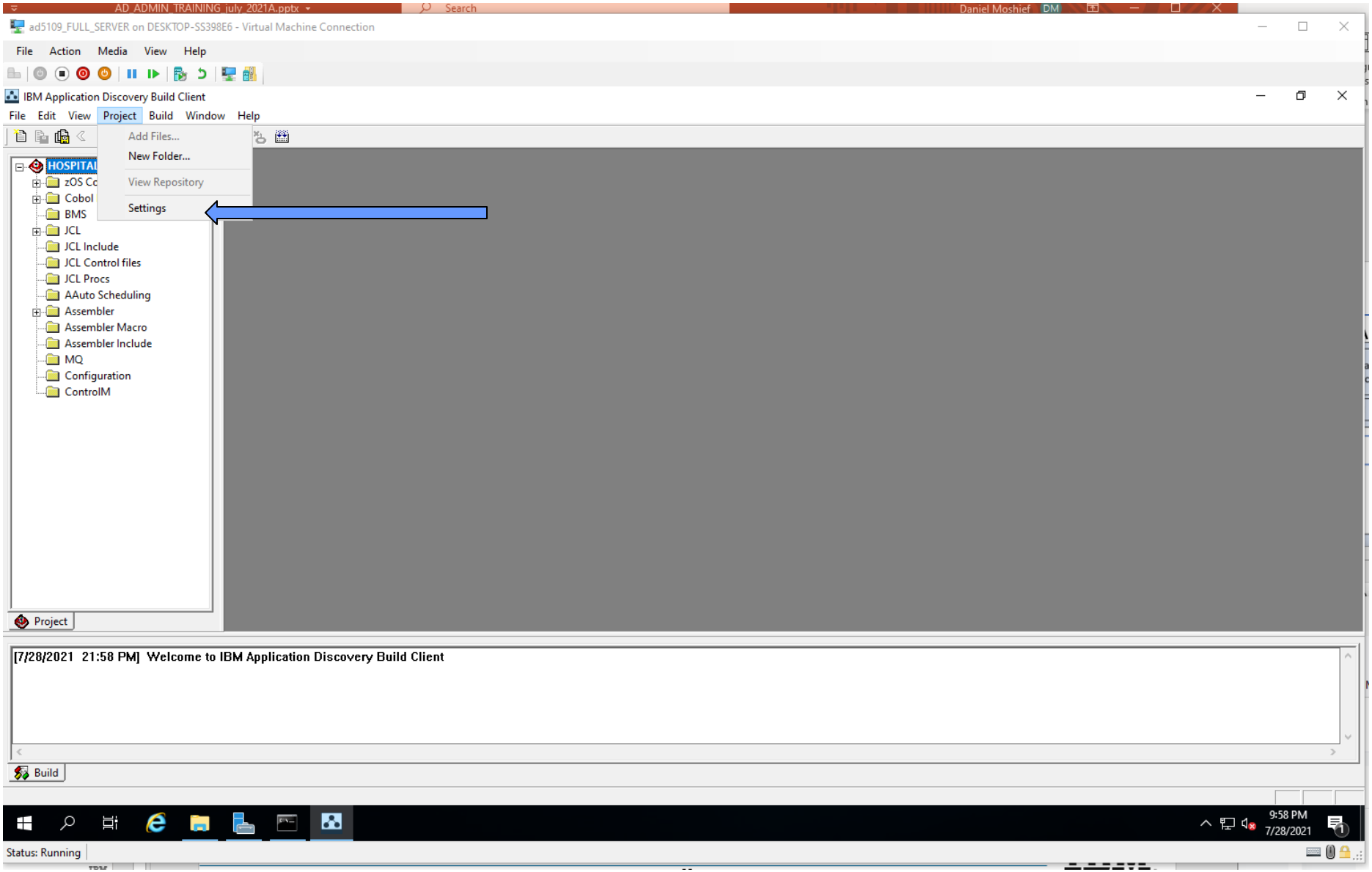
THIS IS JUST A CONTRIVED EXAMPLE OF ONLY BUILDING ONE COBOL MODULE!

MAKE PROCESSING

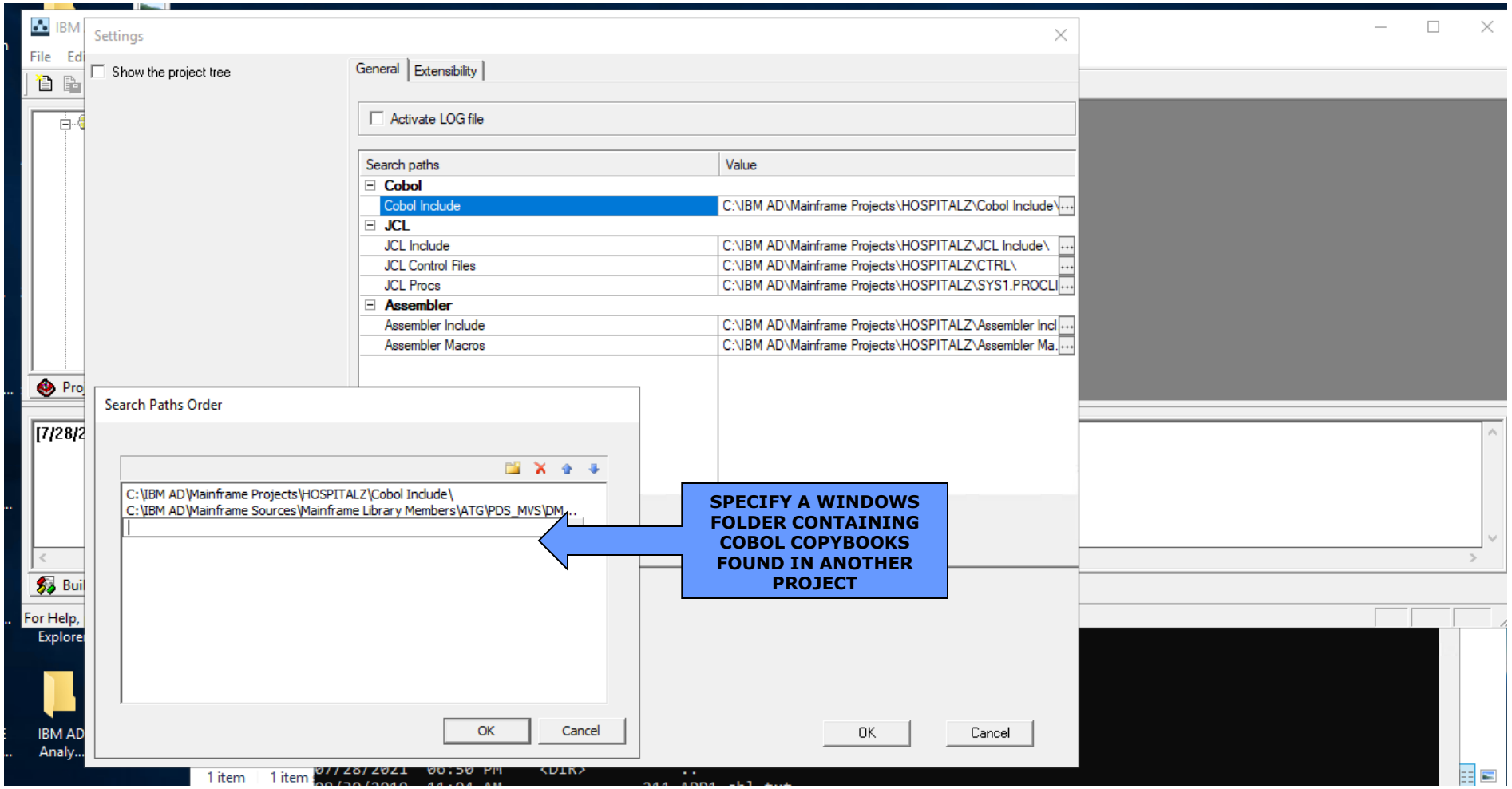
SOURCE CODE IS UPDATED...ONLY BUILD UPDATED SOURCE FILES....



SETTINGS


AD_ADMIN_TRAINING july 2021A.pptx
Search
Daniel Moshief
ad5109_FULL_SERVER on DESKTOP-SS398E6 - Virtual Machine Connection
File Action Media View Help
IBM Application Discovery Build Client
File Edit View Project Build Window Help
Add Files...
New Folder...
View Repository
Settings
HOSPITAL
zOS Cc
Cobol
BMS
JCL
JCL Include
JCL Control files
JCL Procs
AAuto Scheduling
Assembler
Assembler Macro
Assembler Include
MQ
Configuration
ControlM
Project
[7/28/2021 21:58 PM] Welcome to IBM Application Discovery Build Client
Build
9:58 PM
7/28/2021
Status: Running

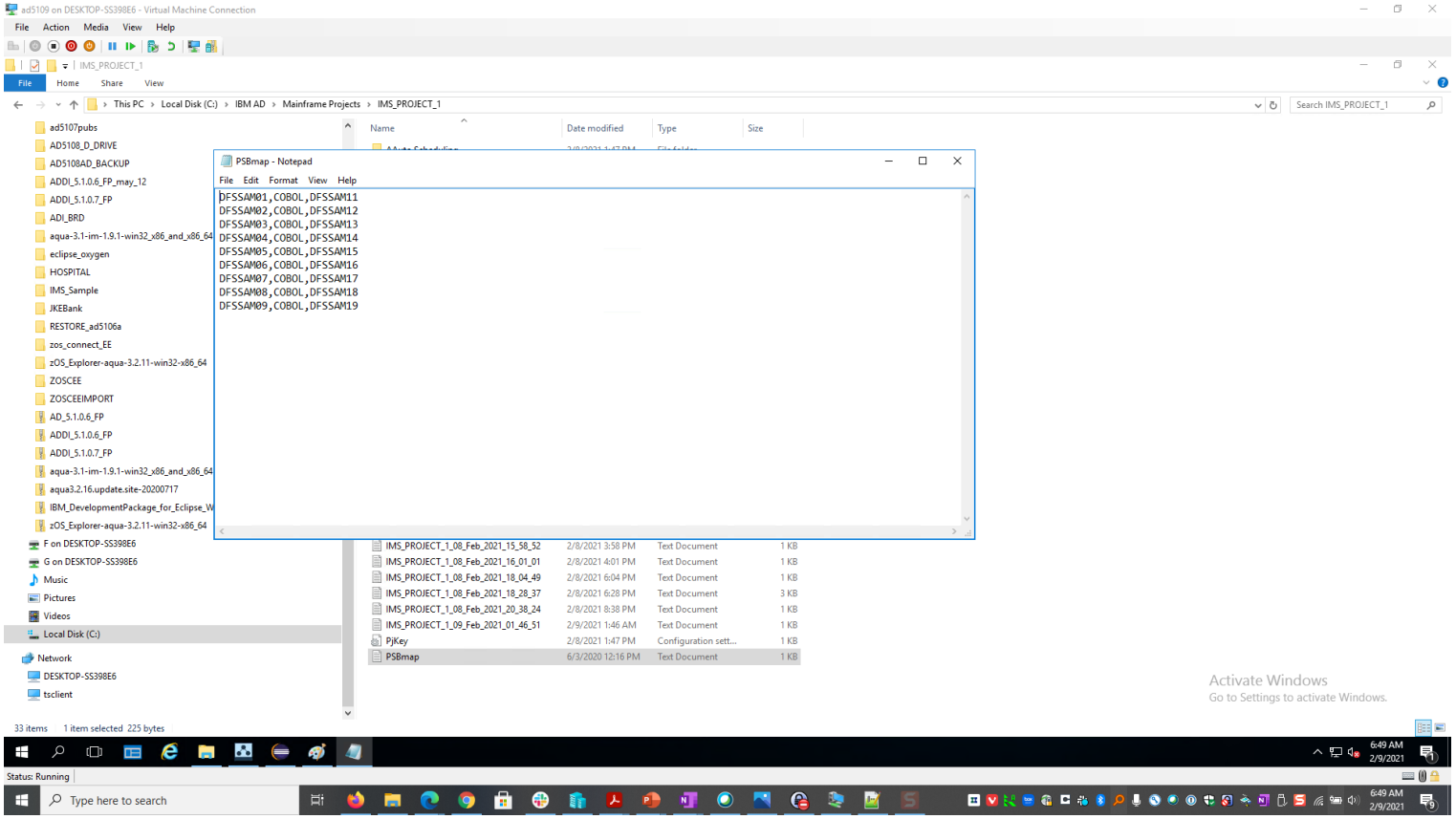
SETTINGS TO ADD AN EXISTING COPYBOOK LIBRARY TO A PROJECT



INPUTS TO IMS BUILD

- BUILD CLIENT
- INPUT
  - COBOL SOURCE
  - COBOL INCLUDE
  - COBOL SCREEN MAPPING: MFS FILES
  - DBD FILES
  - PSB FILES
- TRANSACTION LIST: in CONFIGURATION VIRTUAL FOLDER
- PSBMAP.txt:

PSBMAP.txt


PSBmap - Notepad
File Edit Format View Help
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DFSSAM04,COBOL,DFSSAM14
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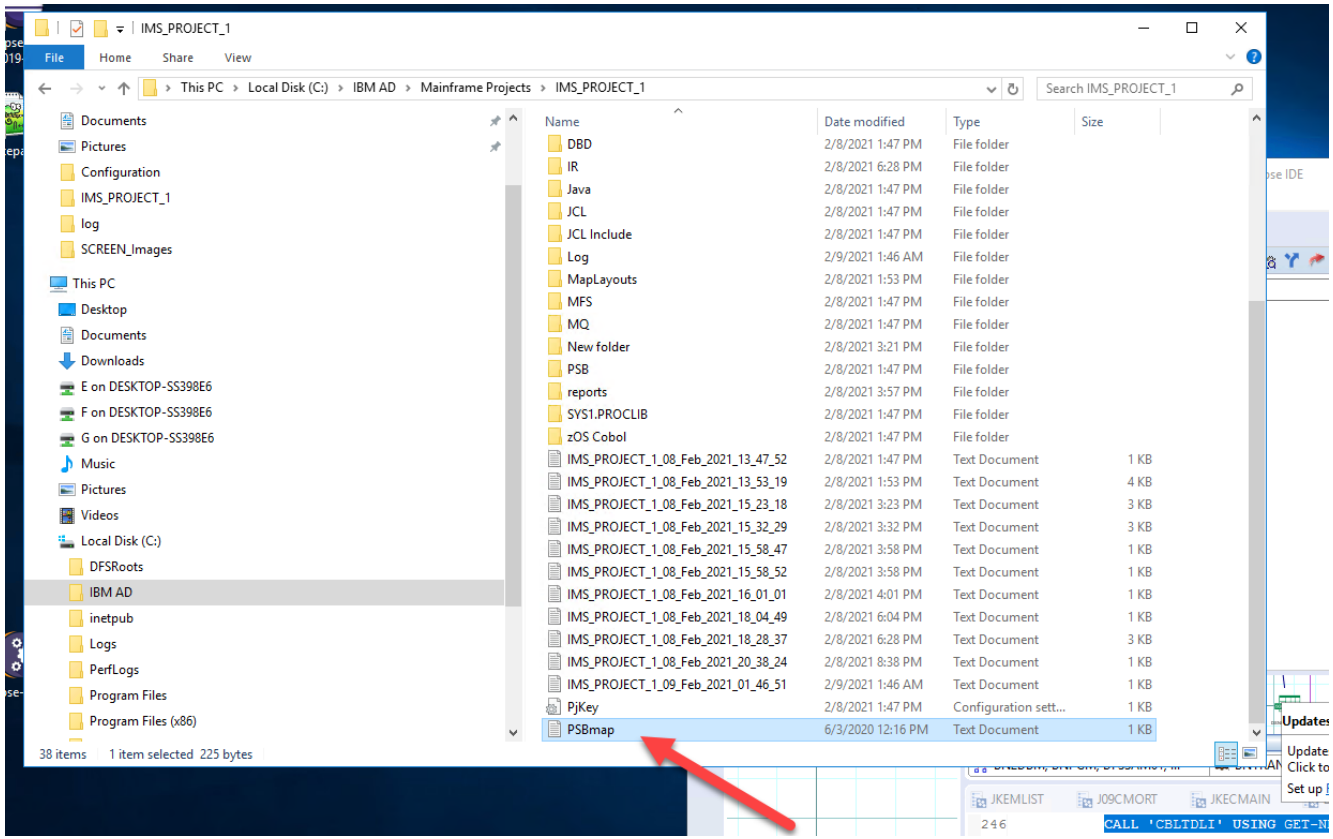
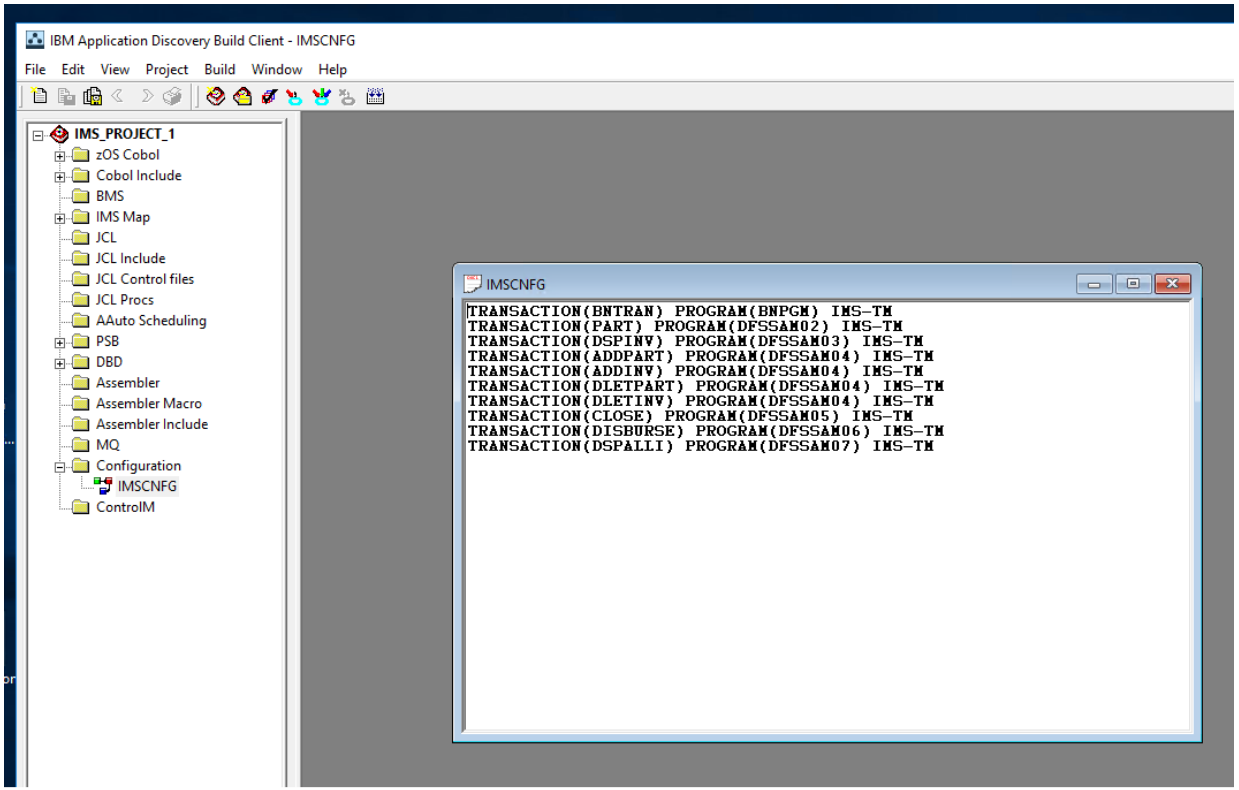
DFSSAM08,COBOL,DFSSAM18
DFSSAM09,COBOL,DFSSAM19

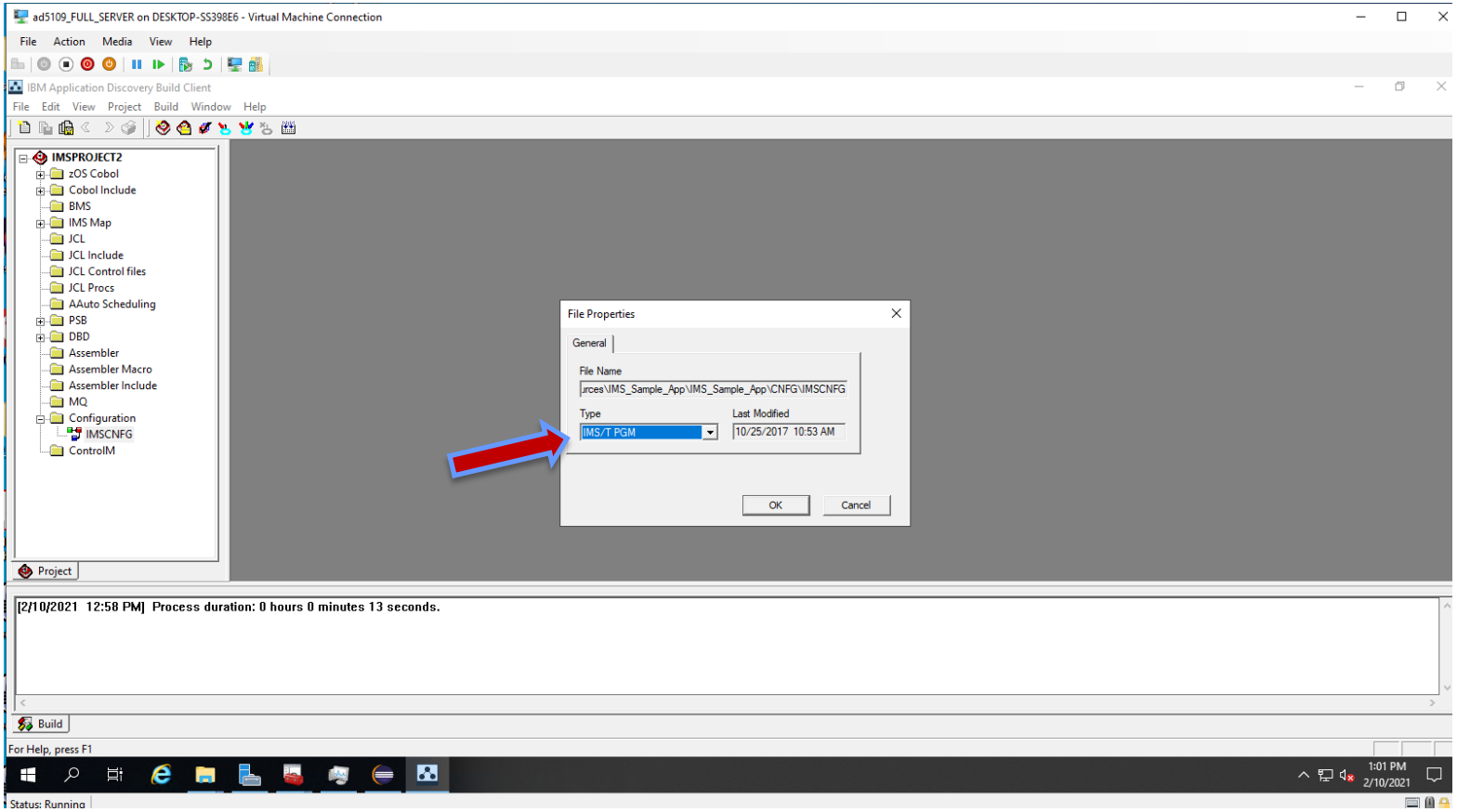
LOCATION OF PSBMAP.txt file



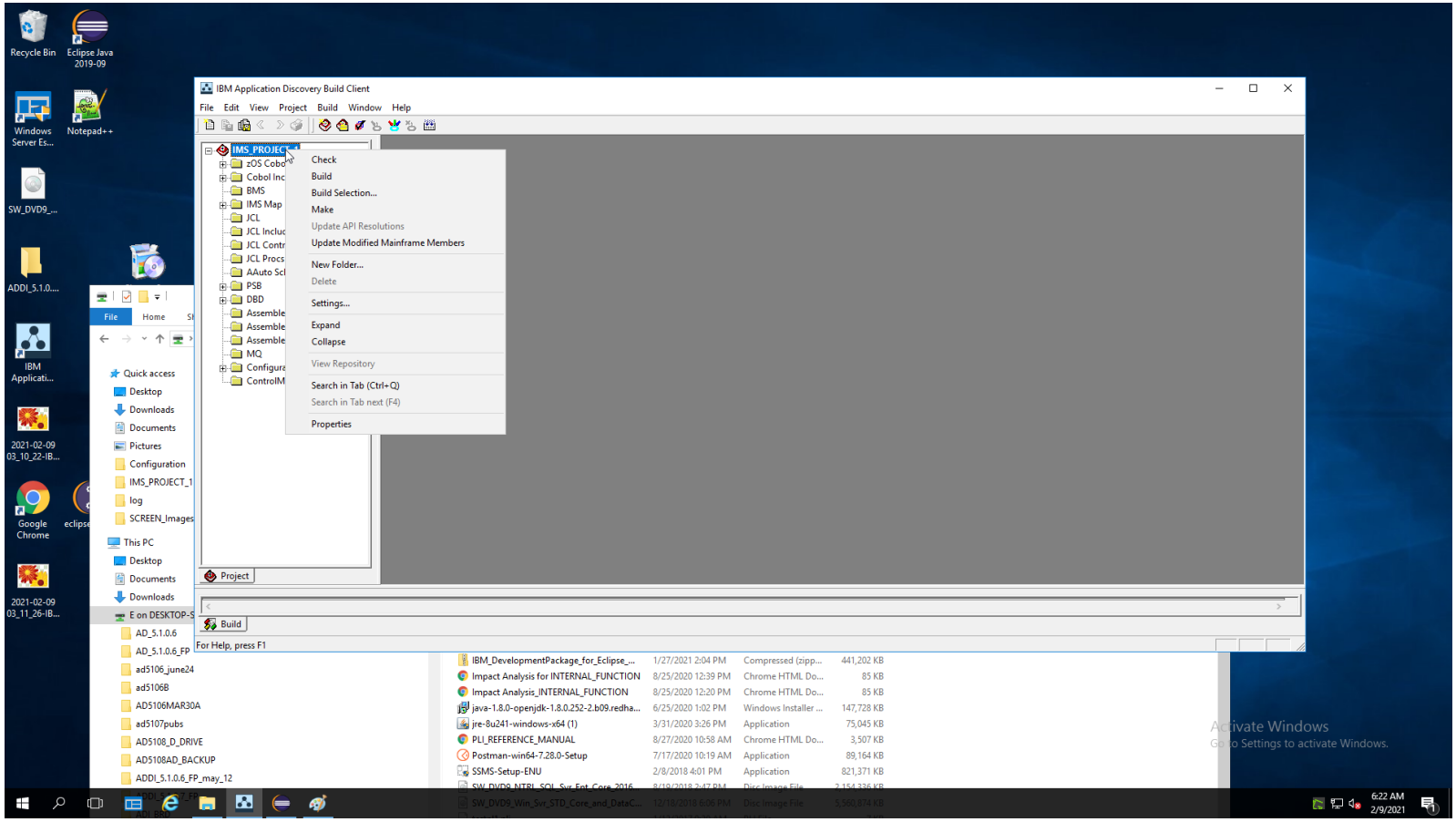
TRANSACTION LIST



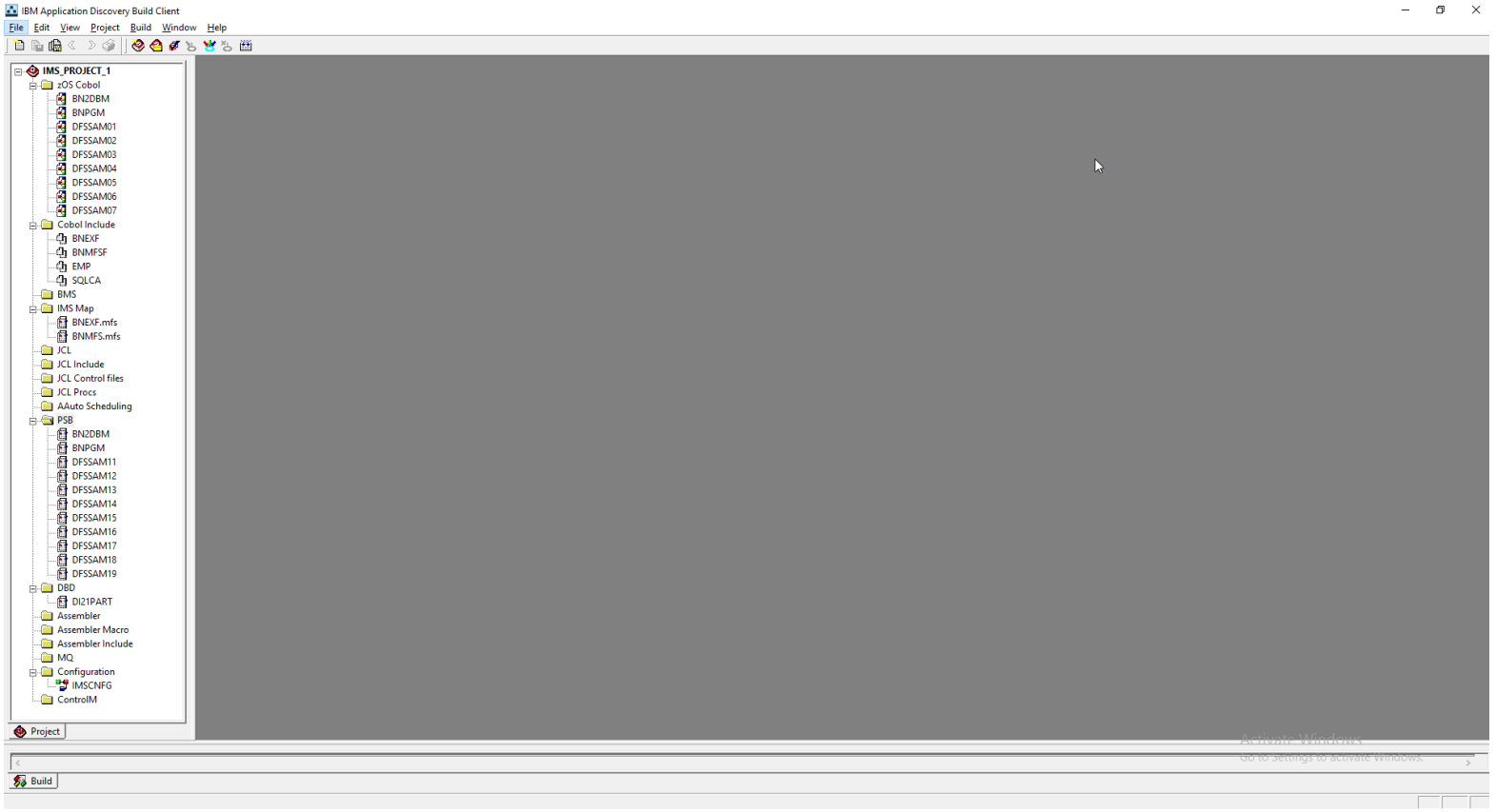
IMS TRANSACTION ...CONFIGURATION TYPE



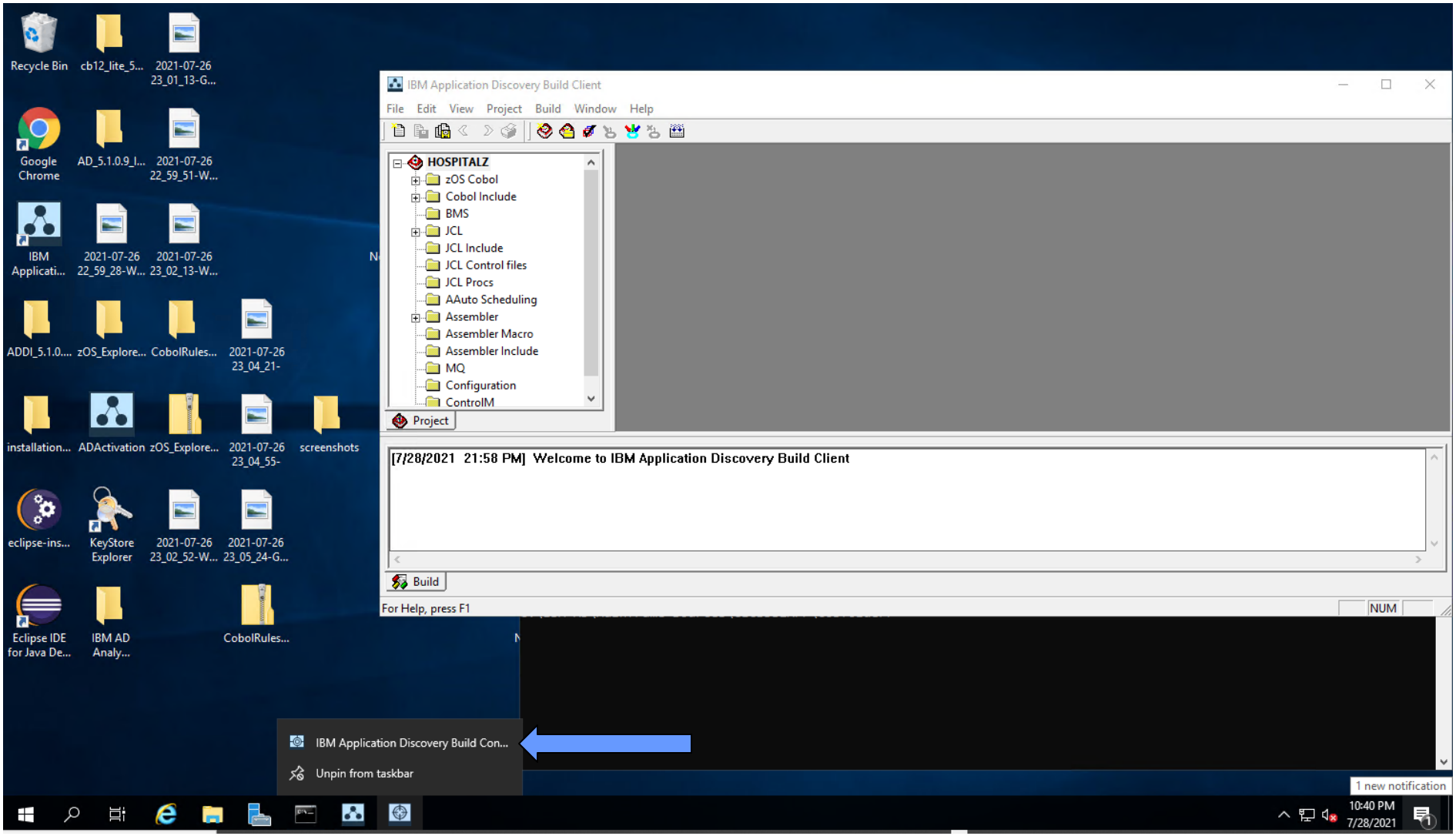
IMS BUILD


IBM Application Discovery Build Client
File Edit View Project Build Window Help
IMS_PROJECT
Check
Build
Build Selection...
Make
Update API Resolutions
Update Modified Mainframe Members
New Folder...
Delete
Settings...
Expand
Collapse
View Repository
Search in Tab (Ctrl+Q)
Search in Tab next (F4)
Properties
Project
Build
For Help, press F1

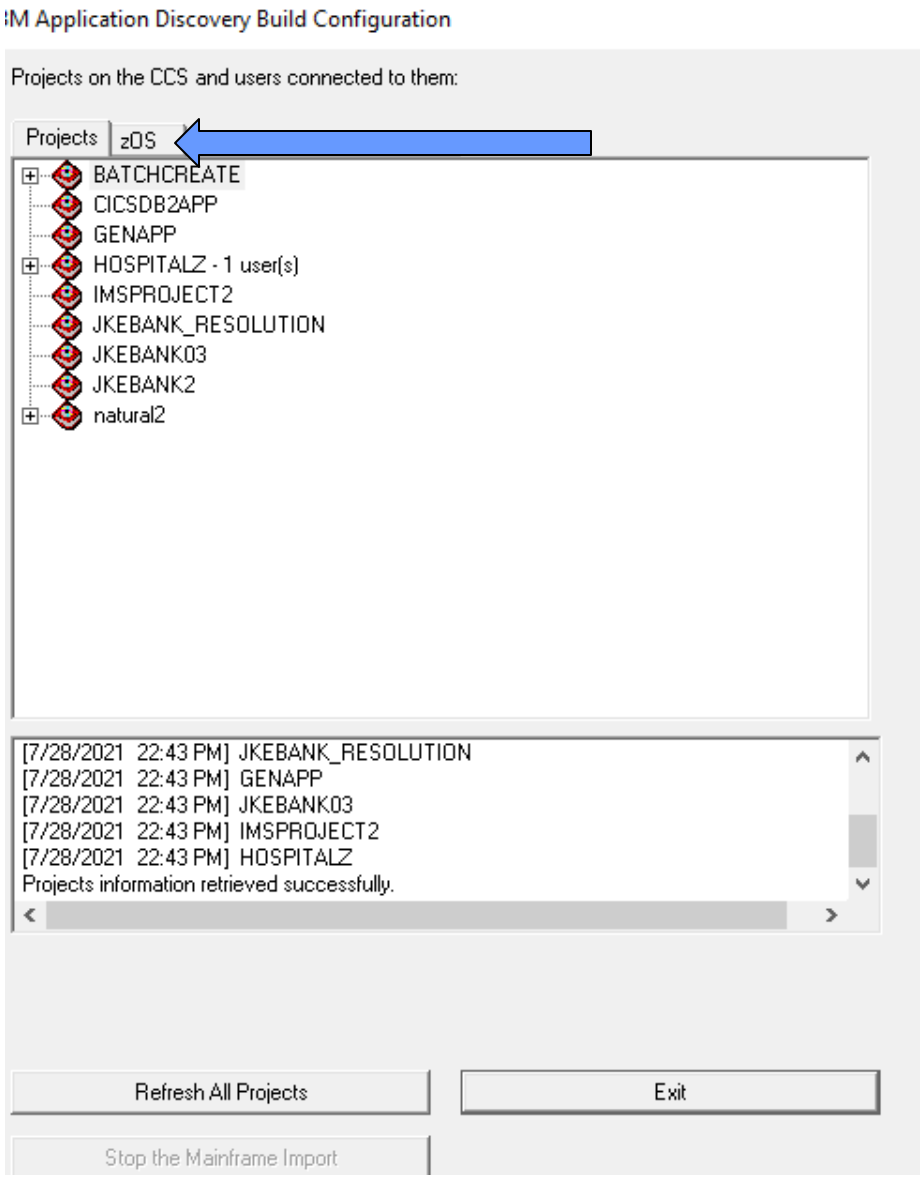
BUILD CLIENT: IMS APPLICATION READY TO BUILD



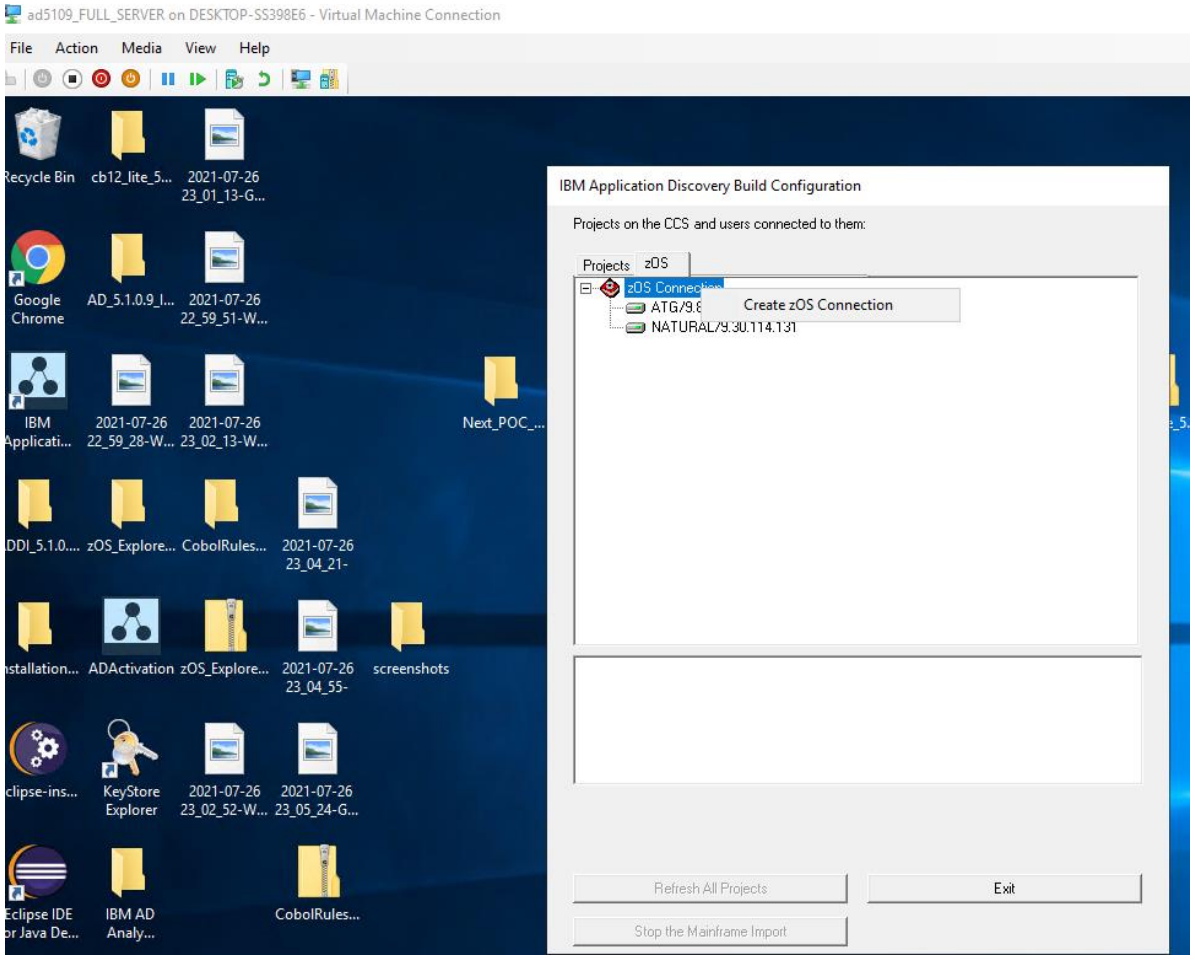
INVOKE BUILD CONFIGURATOR



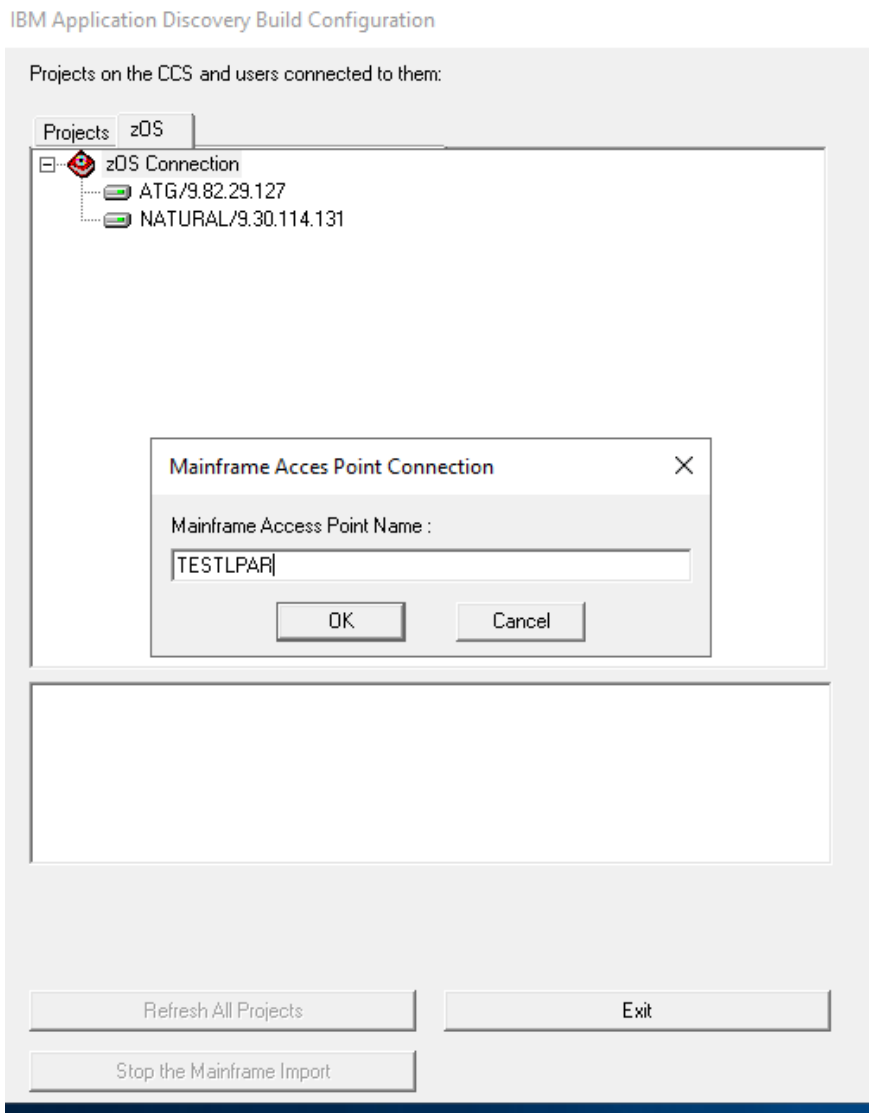
BUILD CONFIGURATOR: SELECT zOS TAB



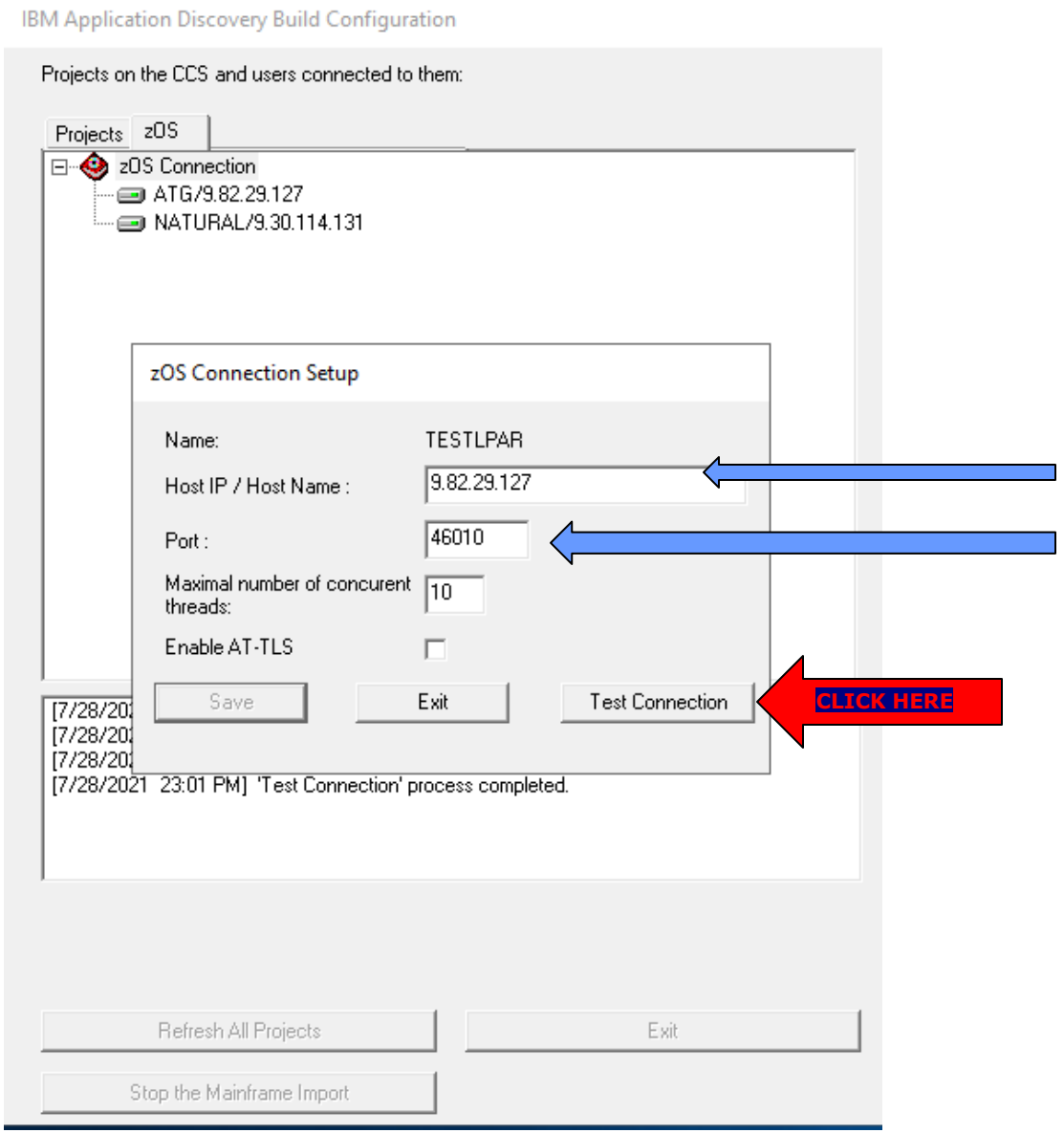
CREATE A zOS LPAR CONNECTION TO APPLICATION DISCOVERY



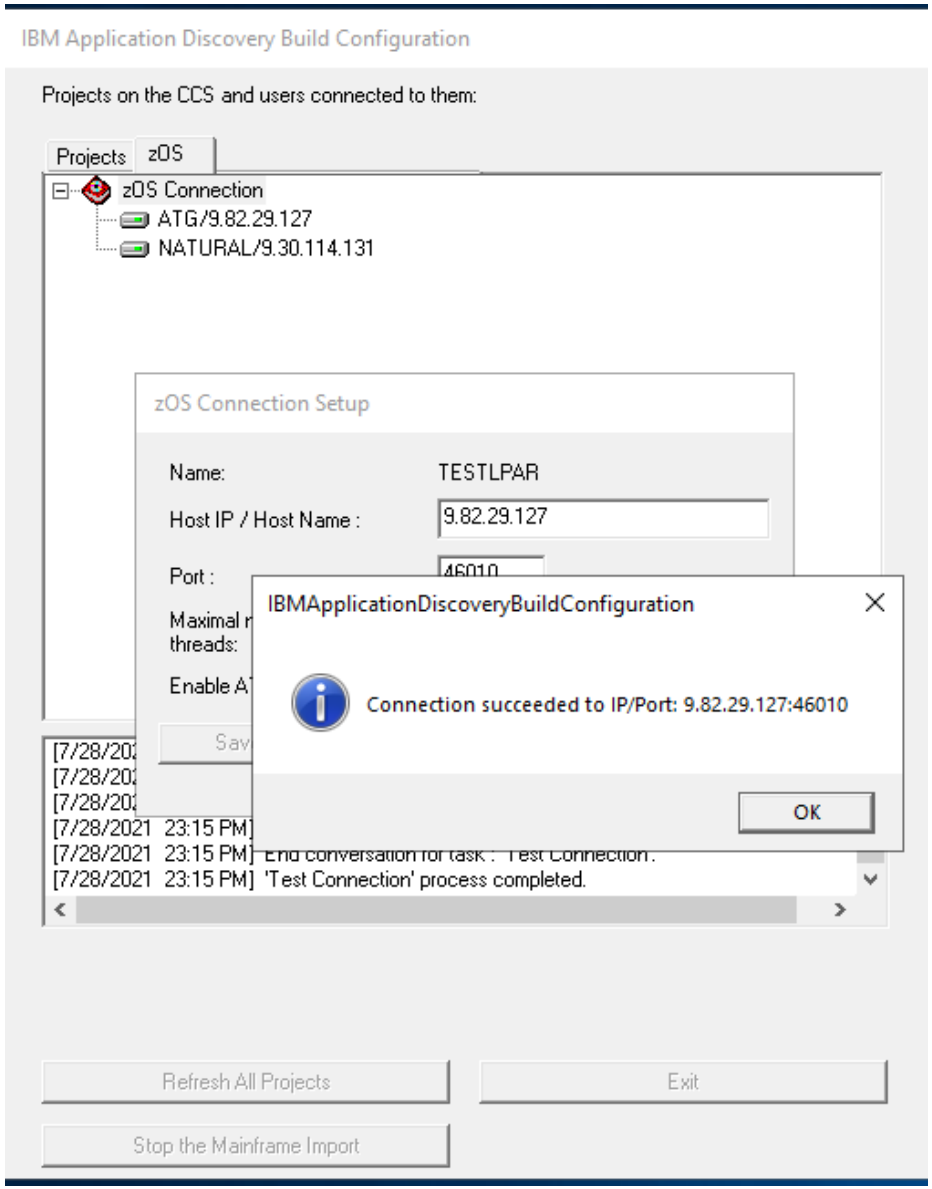
ASSOCIATE IP ADDRESS AND PORT TO A CONNECTION NAME



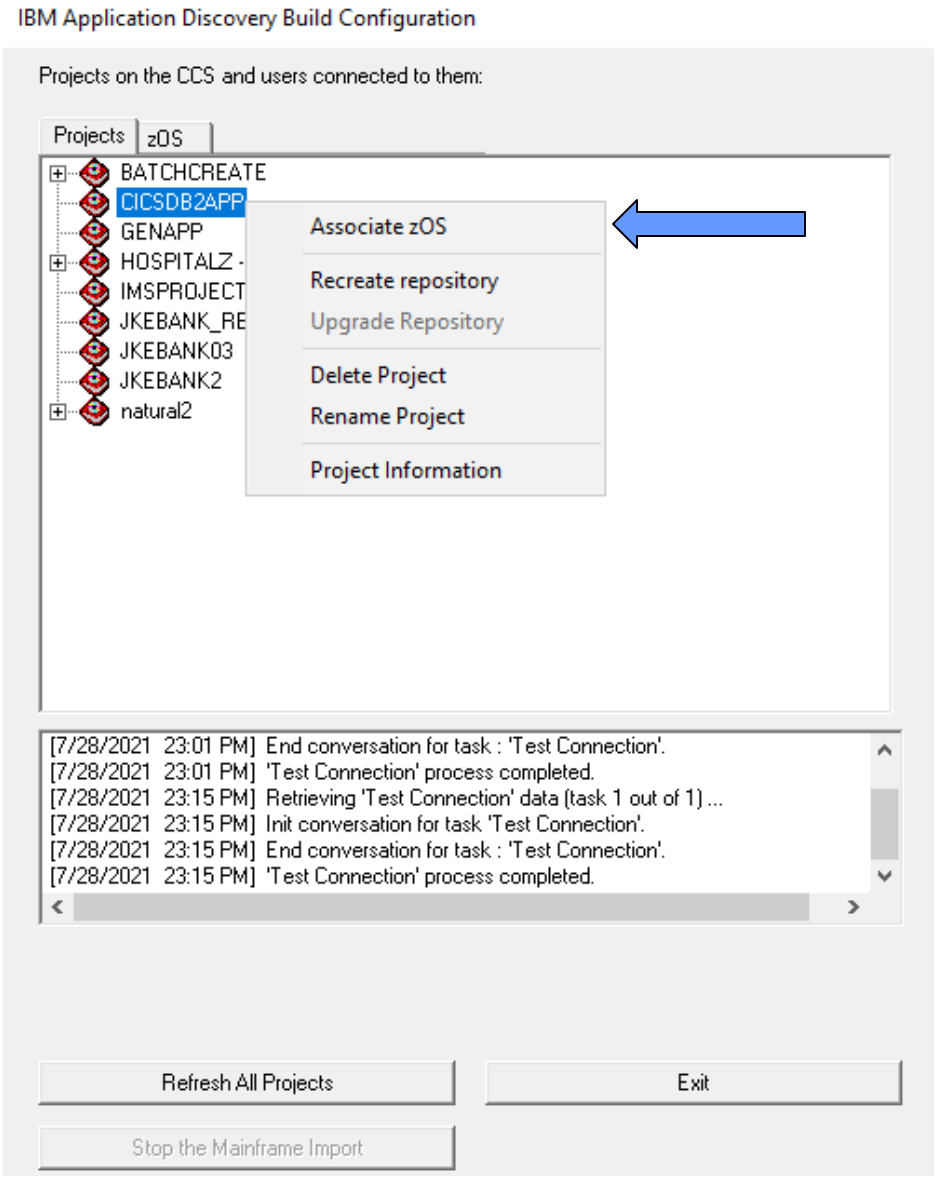
SPECIFY IP ADDRESS AND PORT.....CLICK "TEST CONNECTION"



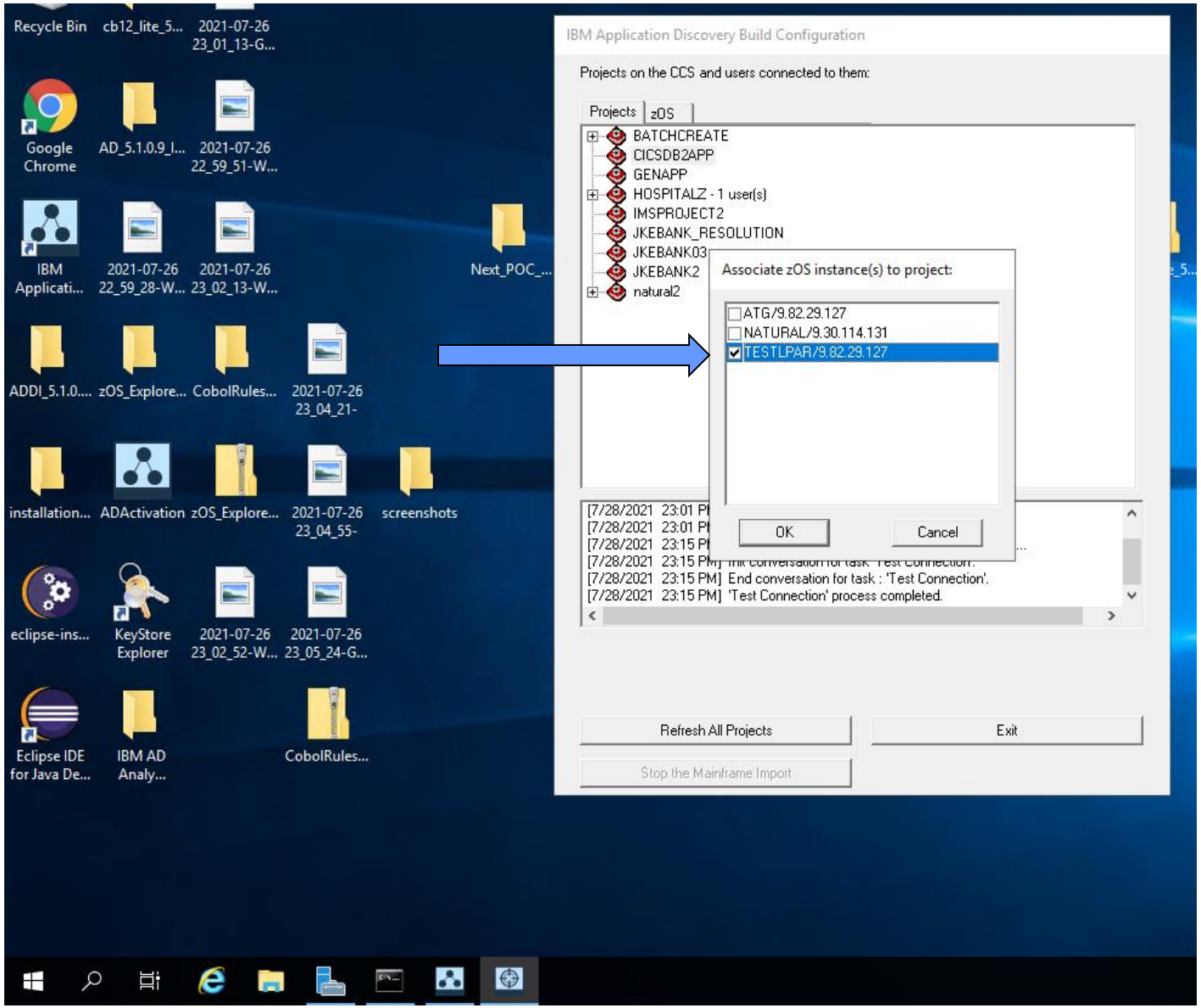
CONNECTIVITY VERIFIED



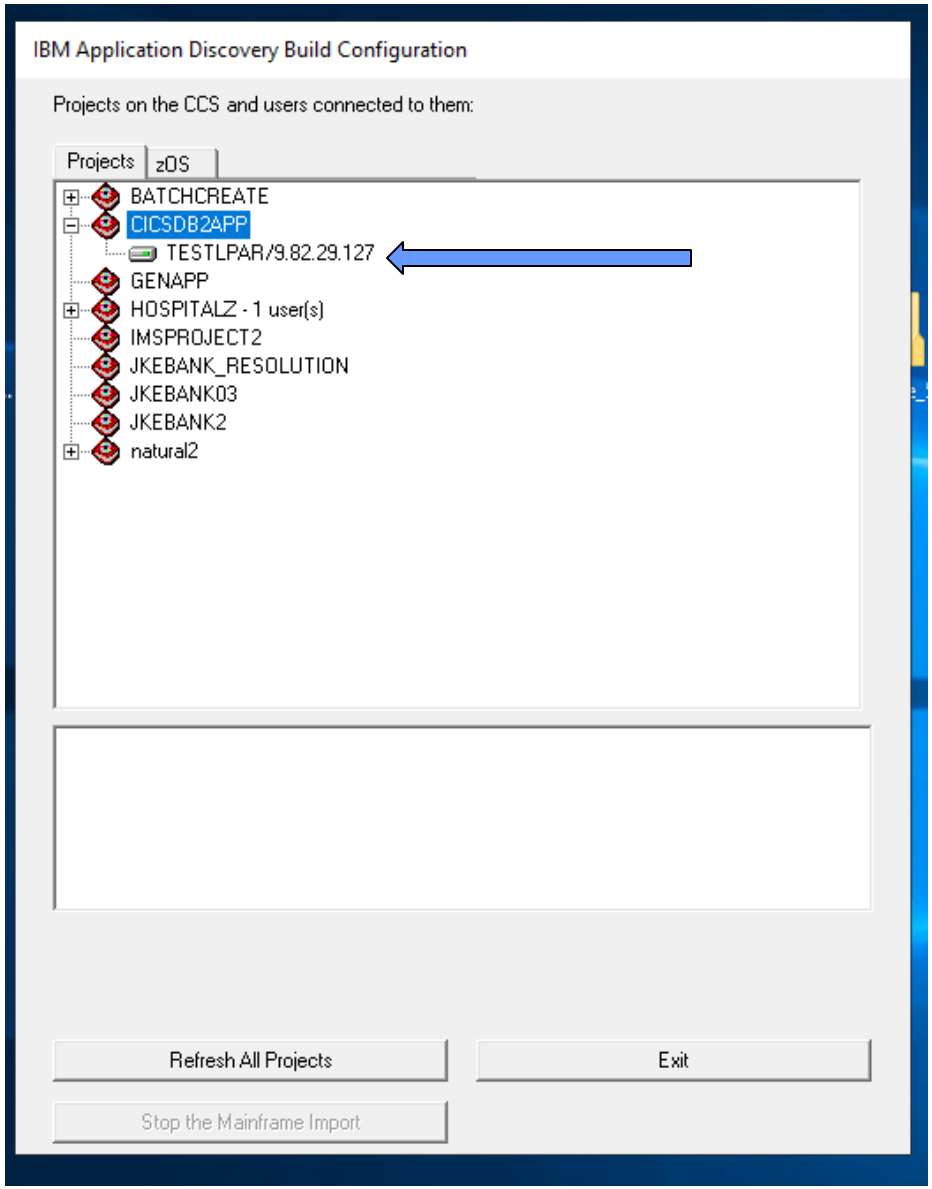
ASSOCIATE LPAR TO PROJECT



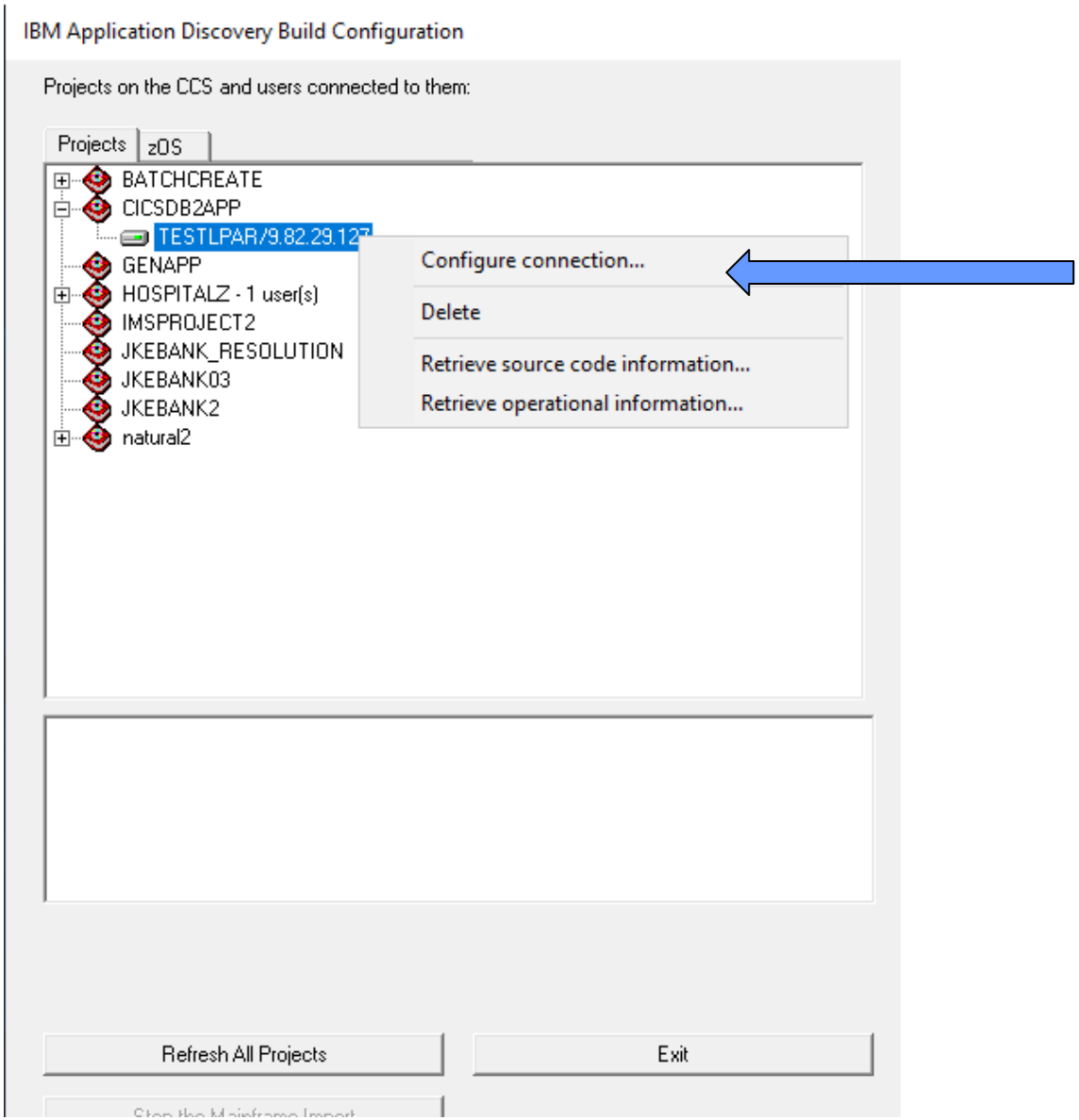
ASSOCIATE LPAR TO PROJECT



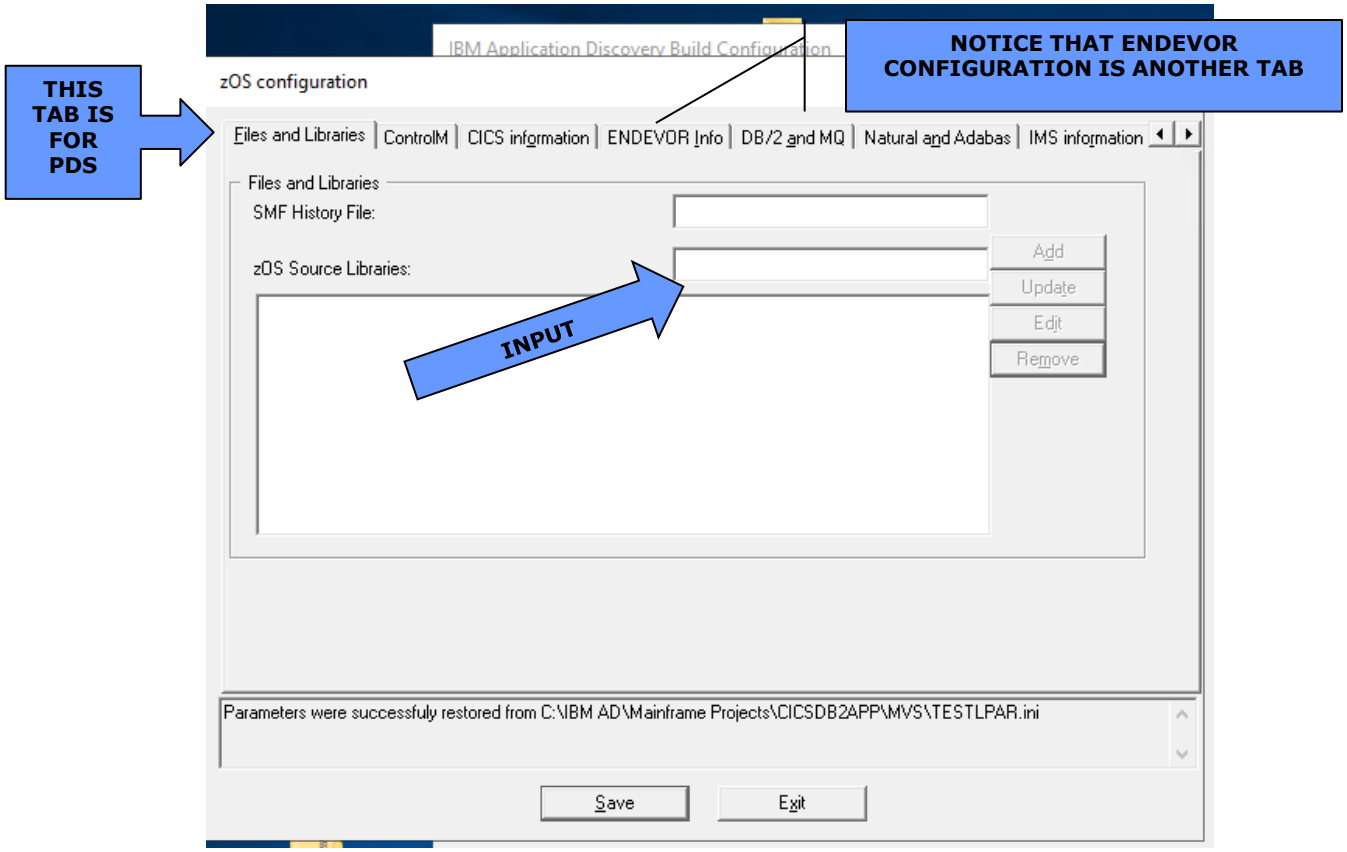
TESTLPAR ASSOCIATED TO CICSDB2APP



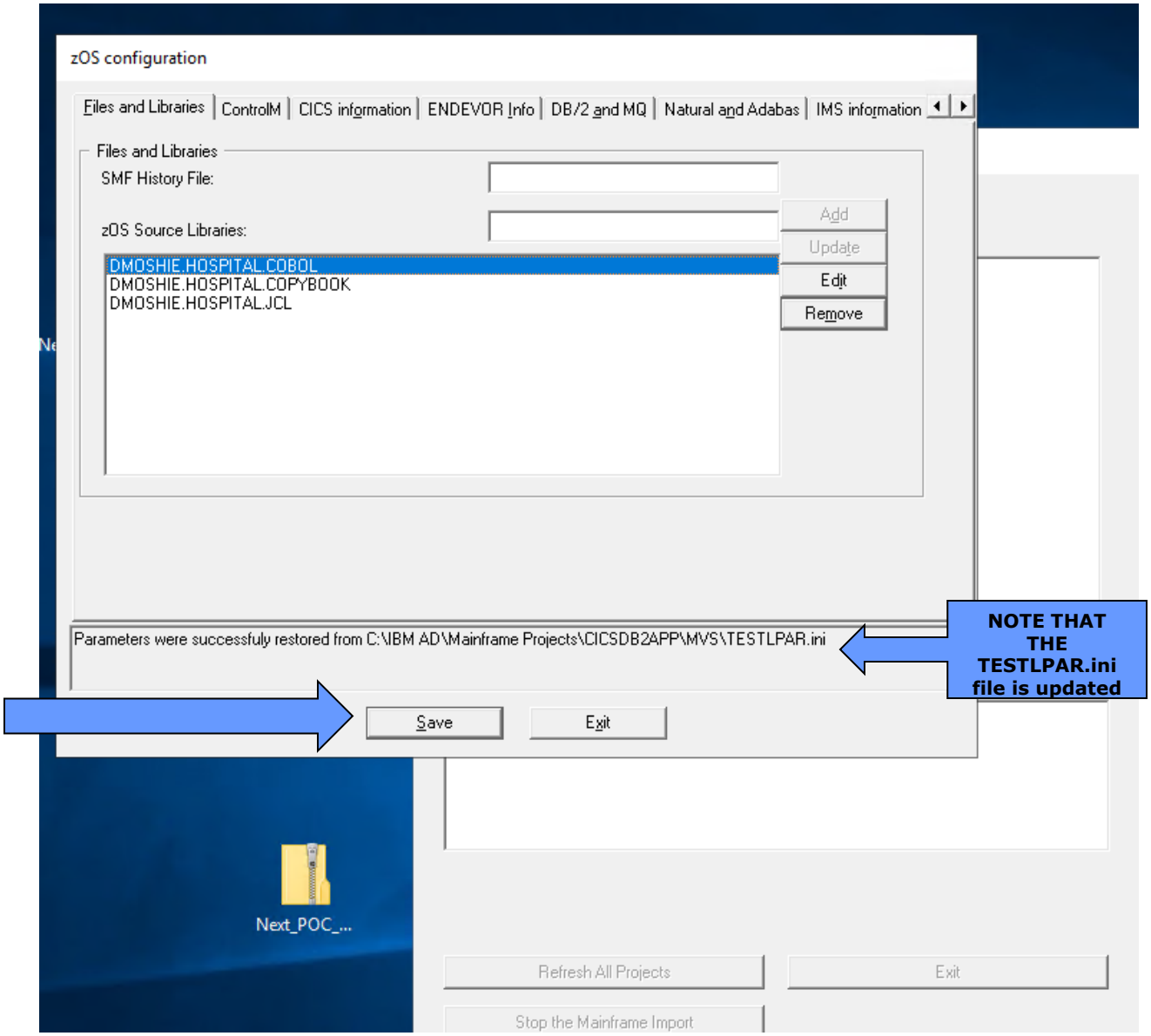
CONFIGURE CONNECTION



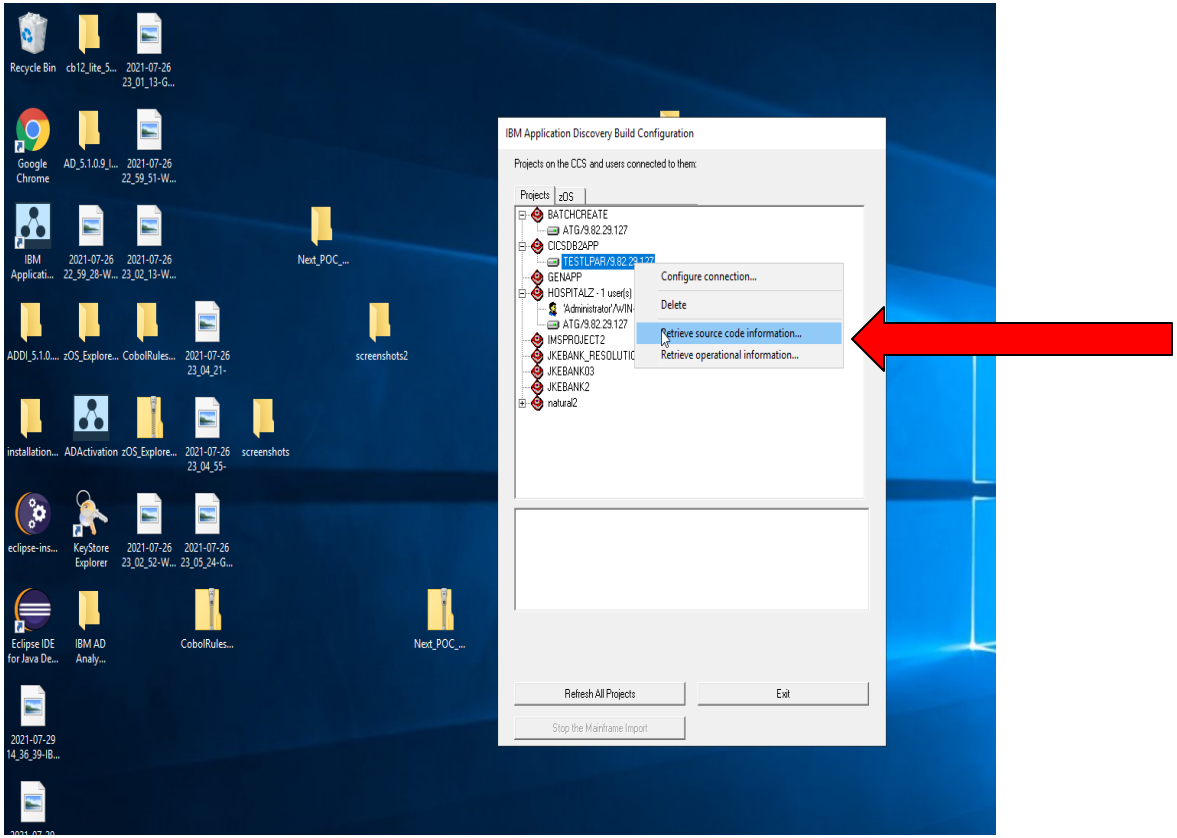
CONFIGURING INPUT DATASET AS PDS



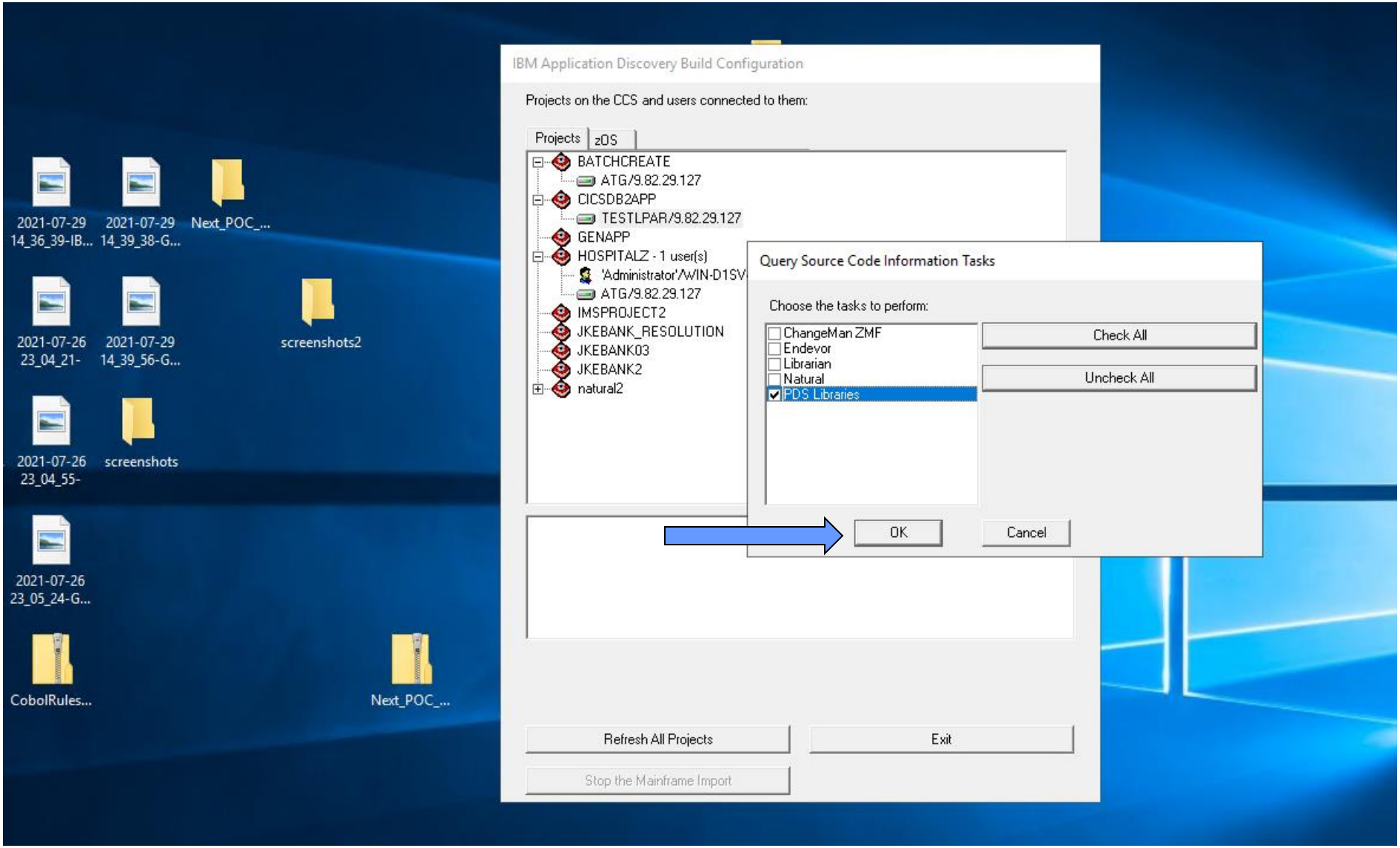
ADDING DATASETS



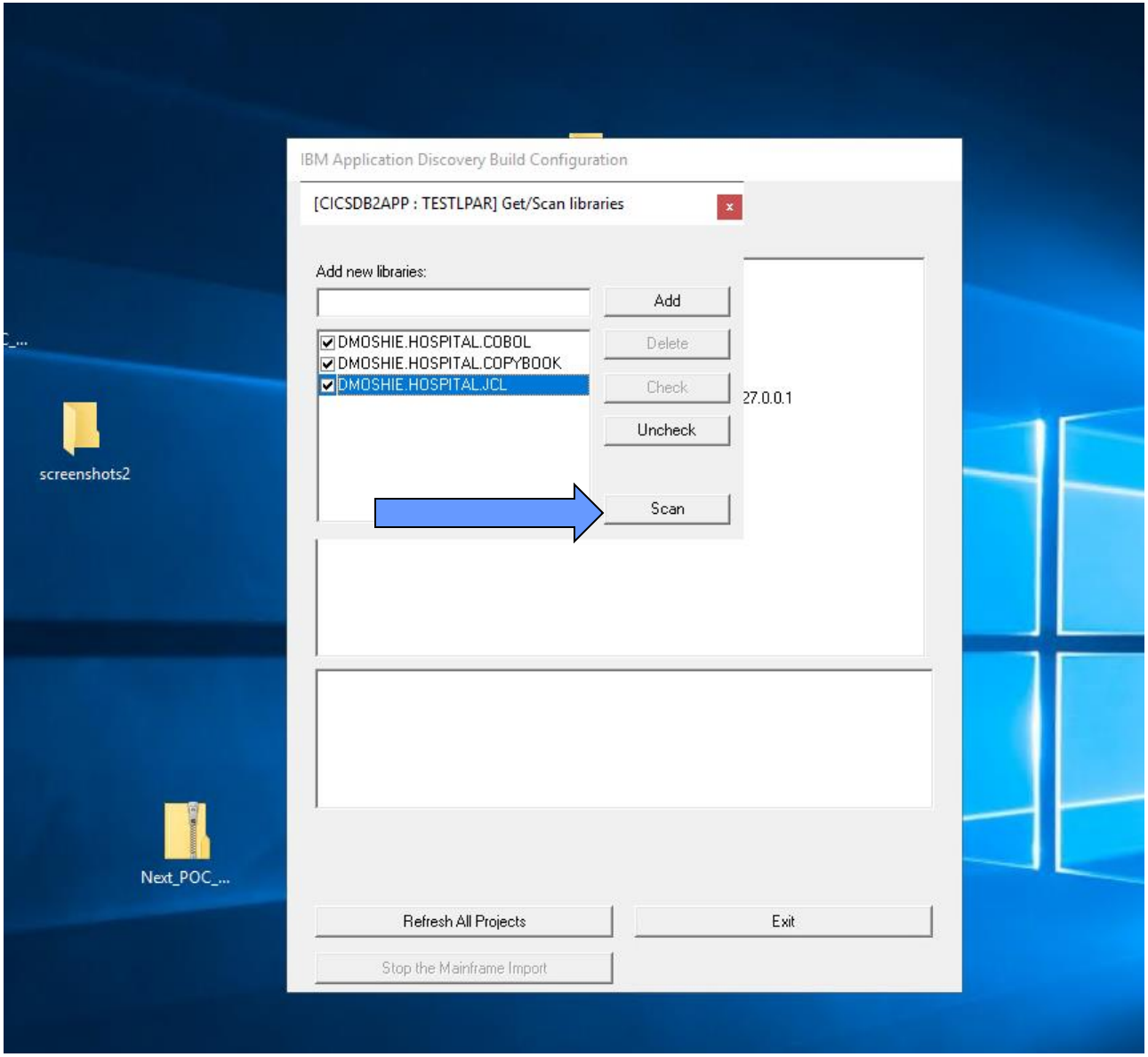
CHECK/SCAN FOR DATASET ACCESS: RETRIEVE SOURCE CODE INFO



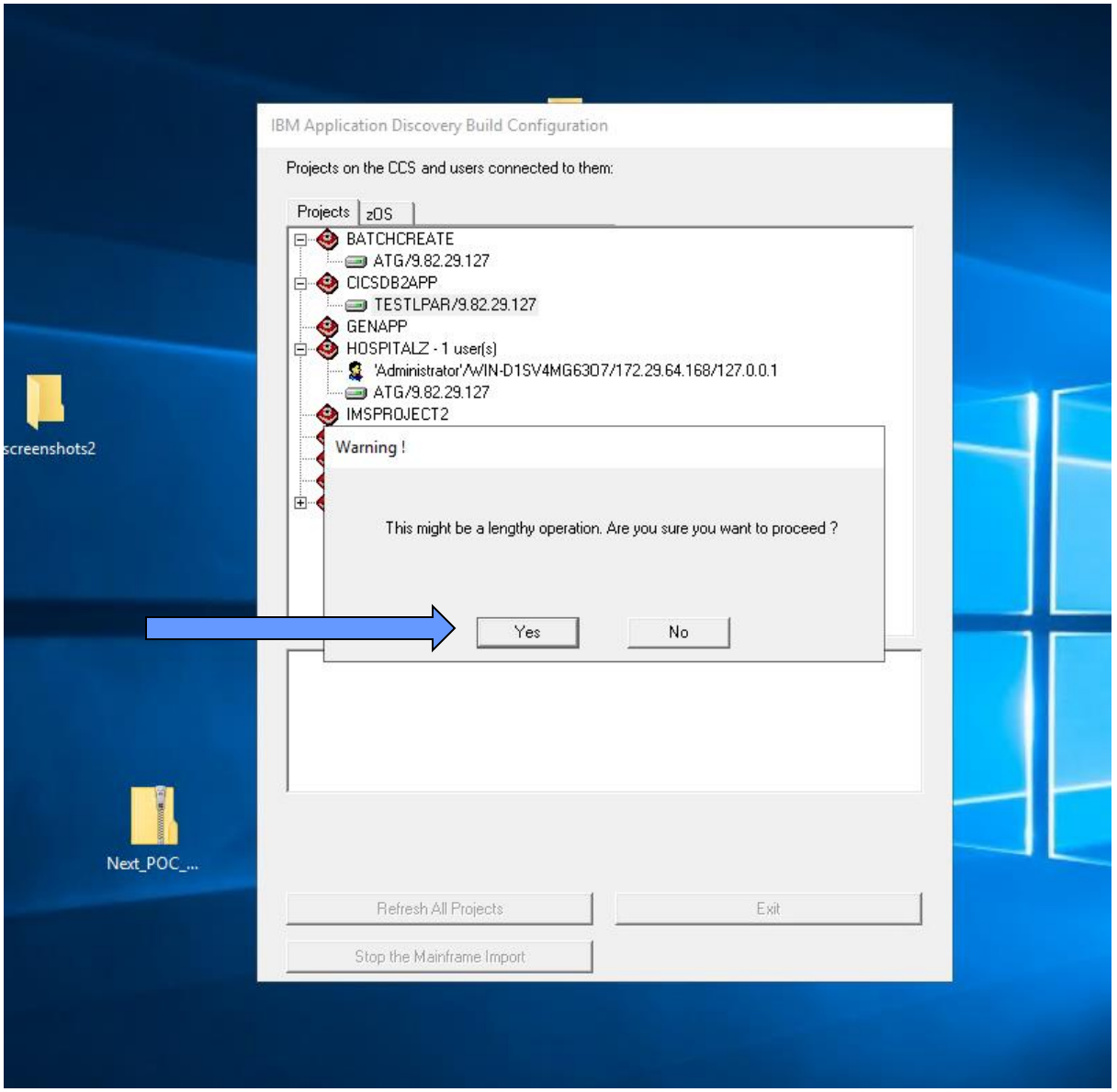
SCAN PDS LIBRARIES.....



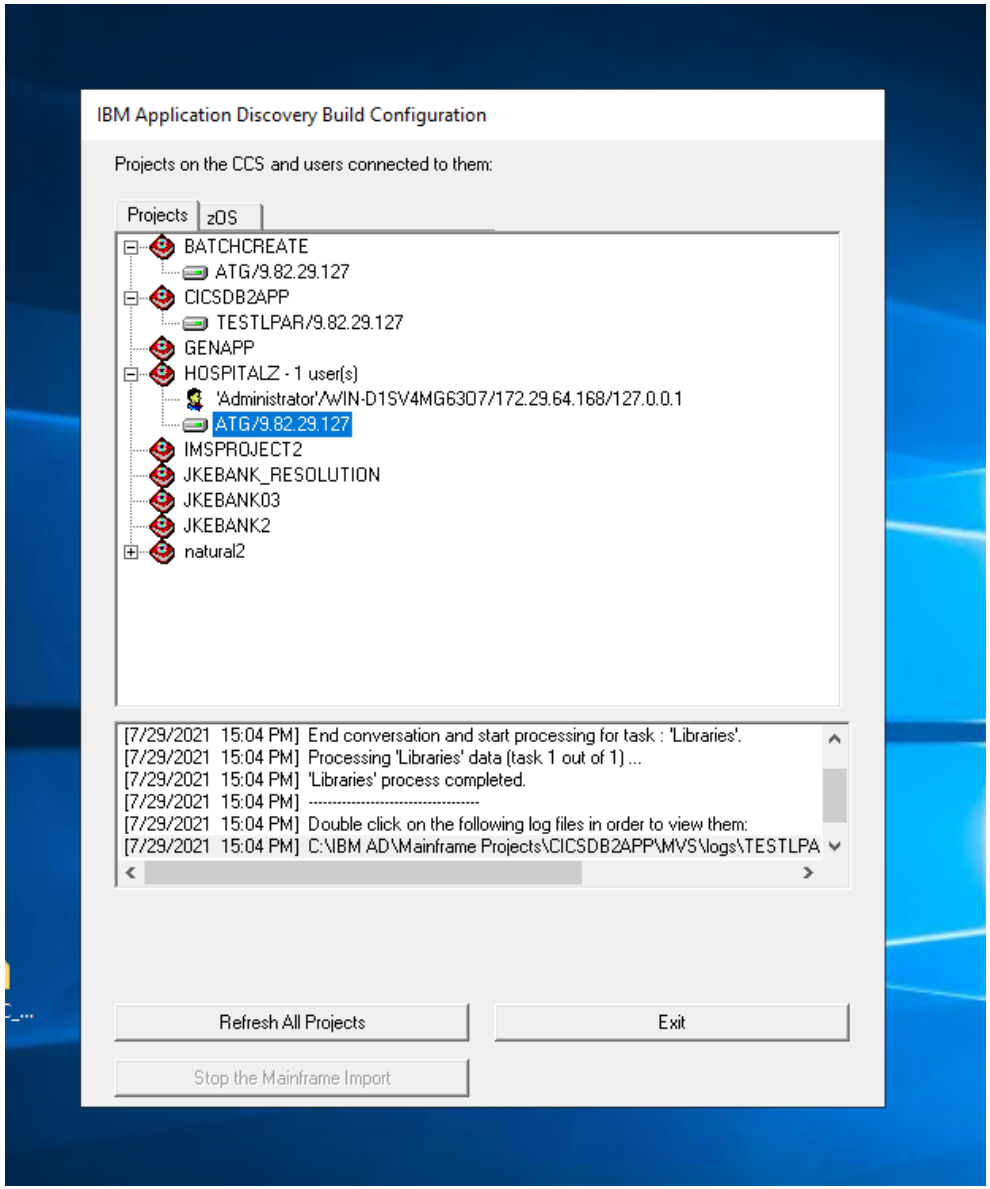
SCANNED ALL THE SOURCE PDS



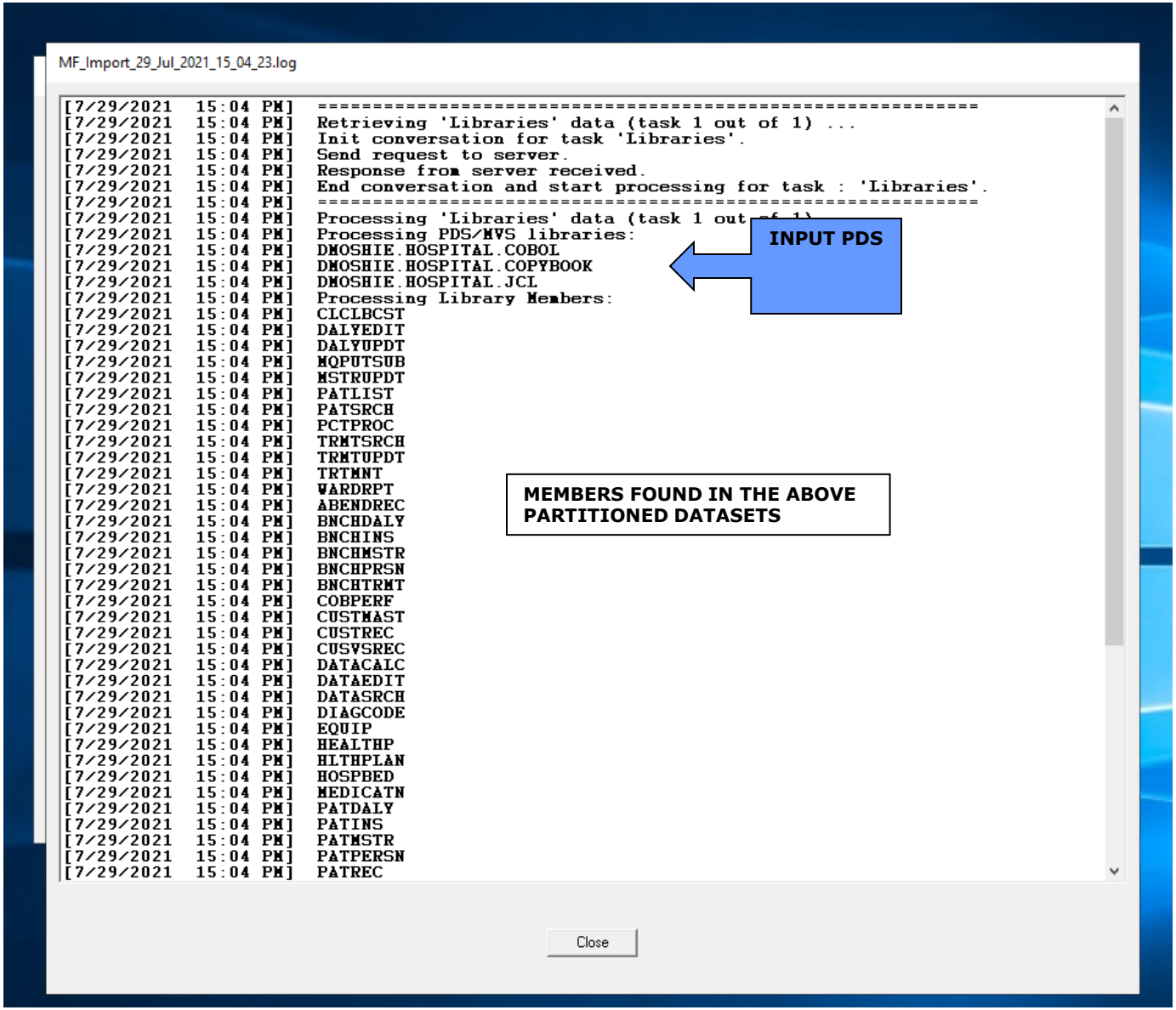
WARNING ABOUT LENGTHY OPERATION



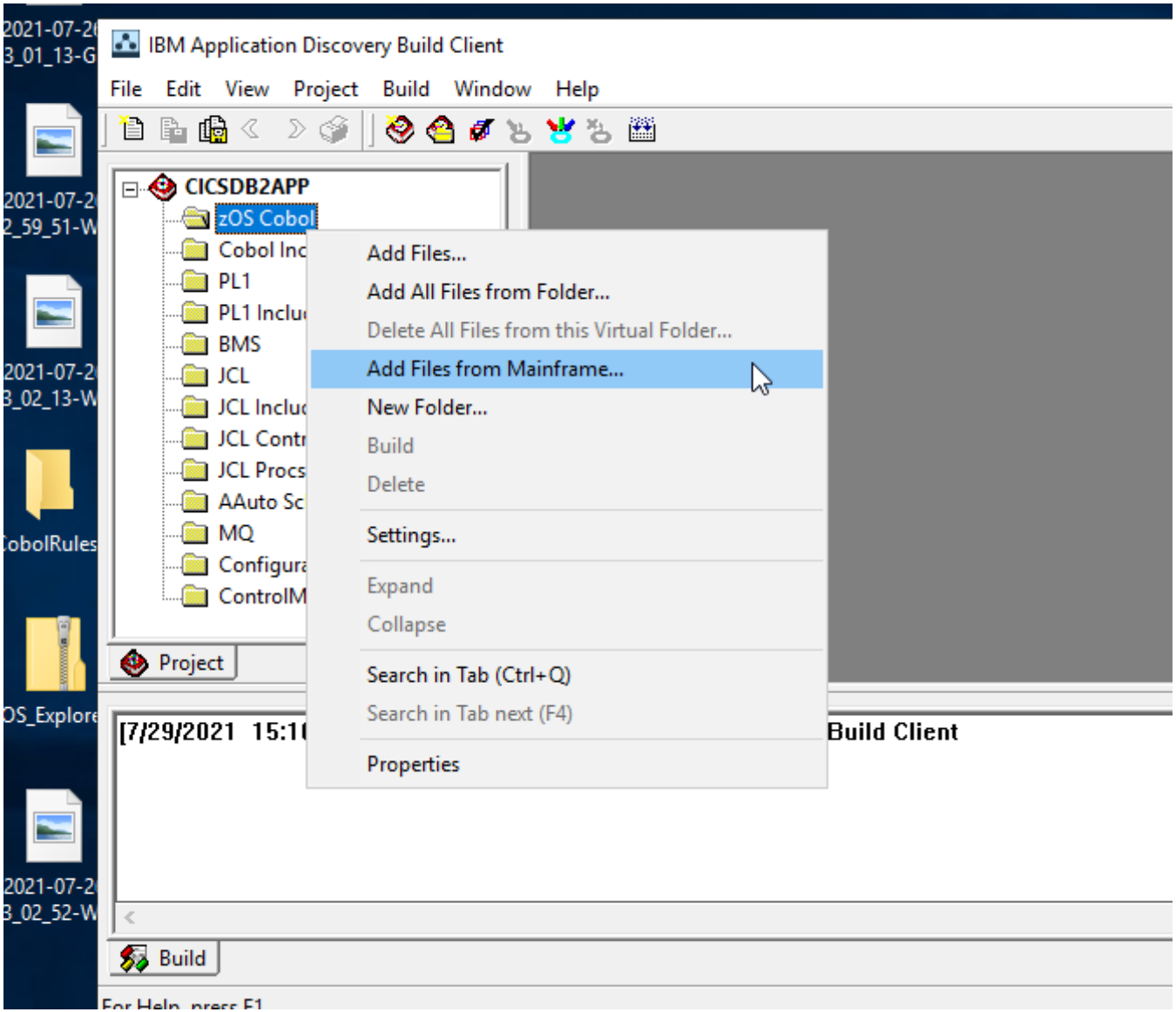
SCAN COMPLETED....LOOK AT LOG



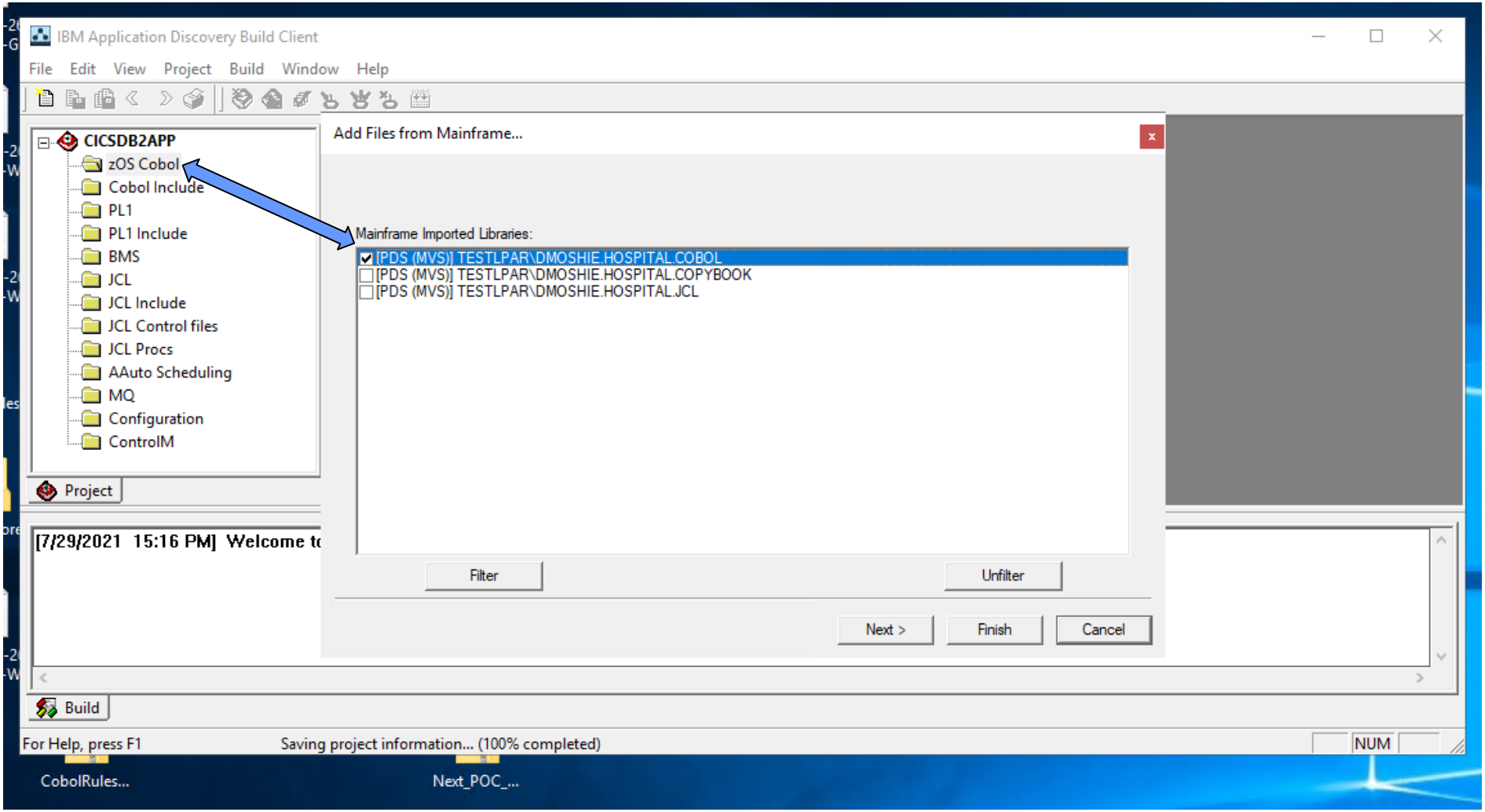
SCAN LOG....


MF_Import_29_Jul_2021_15_04_23.log
[7/29/2021 15:04 PM] ==
[7/29/2021 15:04 PM] Retrieving 'Libraries' data (task 1 out of 1) ...
[7/29/2021 15:04 PM] Init conversation for task 'Libraries'.
[7/29/2021 15:04 PM] Send request to server.
[7/29/2021 15:04 PM] Response from server received.
[7/29/2021 15:04 PM] End conversation and start processing for task : 'Libraries'.
[7/29/2021 15:04 PM] ==
[7/29/2021 15:04 PM] Processing 'Libraries' data (task 1 out of 1)
[7/29/2021 15:04 PM] Processing PDS/MVS libraries:
[7/29/2021 15:04 PM] DMOSHIE.HOSPITAL.COBOL
[7/29/2021 15:04 PM] DMOSHIE.HOSPITAL.COPYBOOK
[7/29/2021 15:04 PM] DMOSHIE.HOSPITAL.JCL
[7/29/2021 15:04 PM] Processing Library Members:
[7/29/2021 15:04 PM] CLCLBCST
[7/29/2021 15:04 PM] DALYEDIT
[7/29/2021 15:04 PM] DALYUPDT
[7/29/2021 15:04 PM] MQPUTSUB
[7/29/2021 15:04 PM] MSTRUPDT
[7/29/2021 15:04 PM] PATLIST
[7/29/2021 15:04 PM] PATSRCH
[7/29/2021 15:04 PM] PCTPROC
[7/29/2021 15:04 PM] TRMTSRCH
[7/29/2021 15:04 PM] TRMTUPDT
[7/29/2021 15:04 PM] TRTMNT
[7/29/2021 15:04 PM] WARDRPT
[7/29/2021 15:04 PM] ABENDREC
[7/29/2021 15:04 PM] BNCHDALY
[7/29/2021 15:04 PM] BNCHINS
[7/29/2021 15:04 PM] BNCHMSTR
[7/29/2021 15:04 PM] BNCHPRSN
[7/29/2021 15:04 PM] BNCHTRMT
[7/29/2021 15:04 PM] COBPERF
[7/29/2021 15:04 PM] CUSTMAST
[7/29/2021 15:04 PM] CUSTREC
[7/29/2021 15:04 PM] CUSVSREC
[7/29/2021 15:04 PM] DATACALC
[7/29/2021 15:04 PM] DATAEDIT
[7/29/2021 15:04 PM] DATASRCH
[7/29/2021 15:04 PM] DIAGCODE
[7/29/2021 15:04 PM] EQUIP
[7/29/2021 15:04 PM] HEALTHP
[7/29/2021 15:04 PM] HLTHPLAN
[7/29/2021 15:04 PM] HOSPBED
[7/29/2021 15:04 PM] MEDICATN
[7/29/2021 15:04 PM] PATDALY
[7/29/2021 15:04 PM] PATINS
[7/29/2021 15:04 PM] PATMSTR
[7/29/2021 15:04 PM] PATPERSN
[7/29/2021 15:04 PM] PATREC
INPUT PDS
MEMBERS FOUND IN THE ABOVE PARTITIONED DATASETS
Close

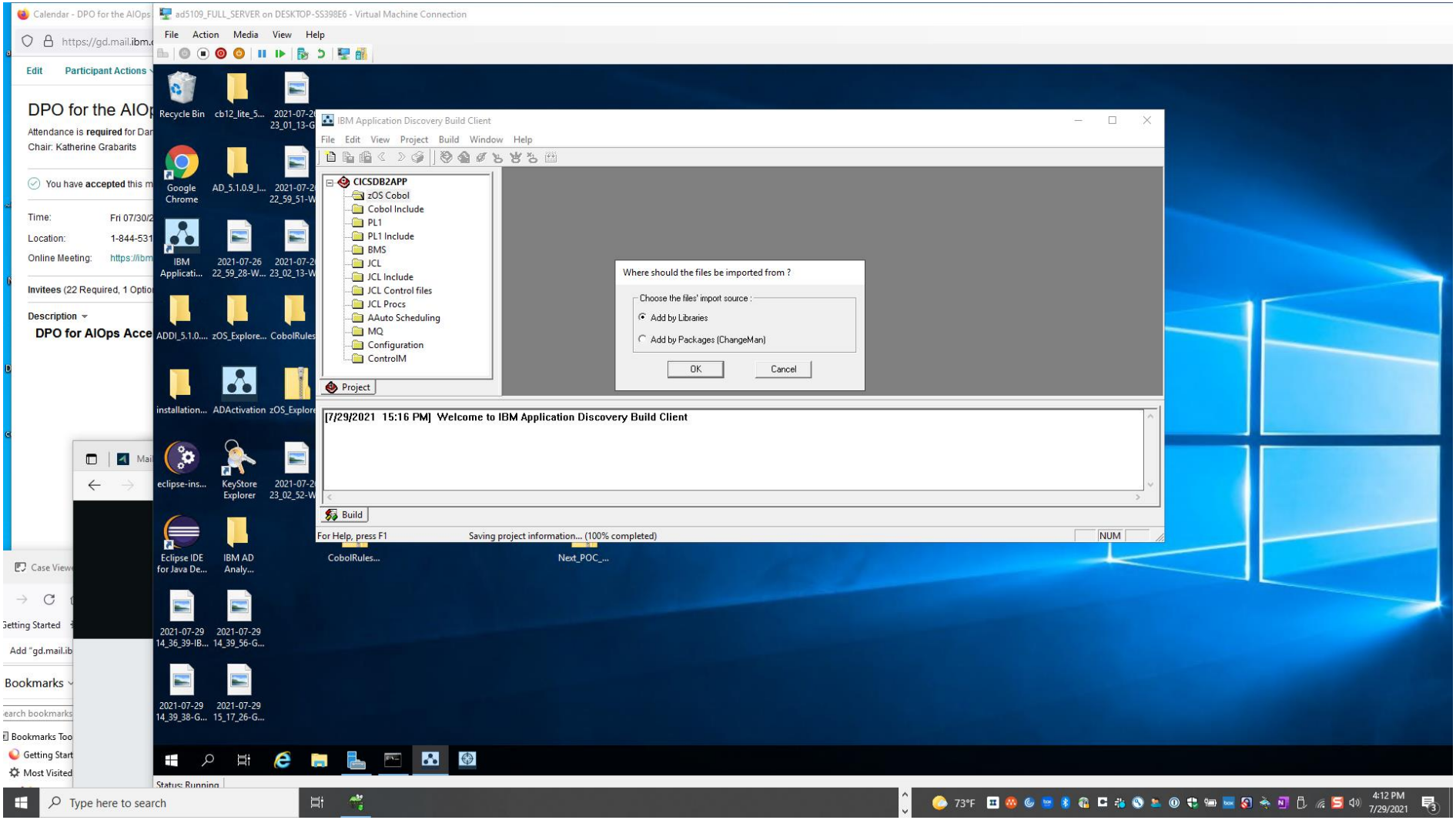
ADD FILES FROM zOS....



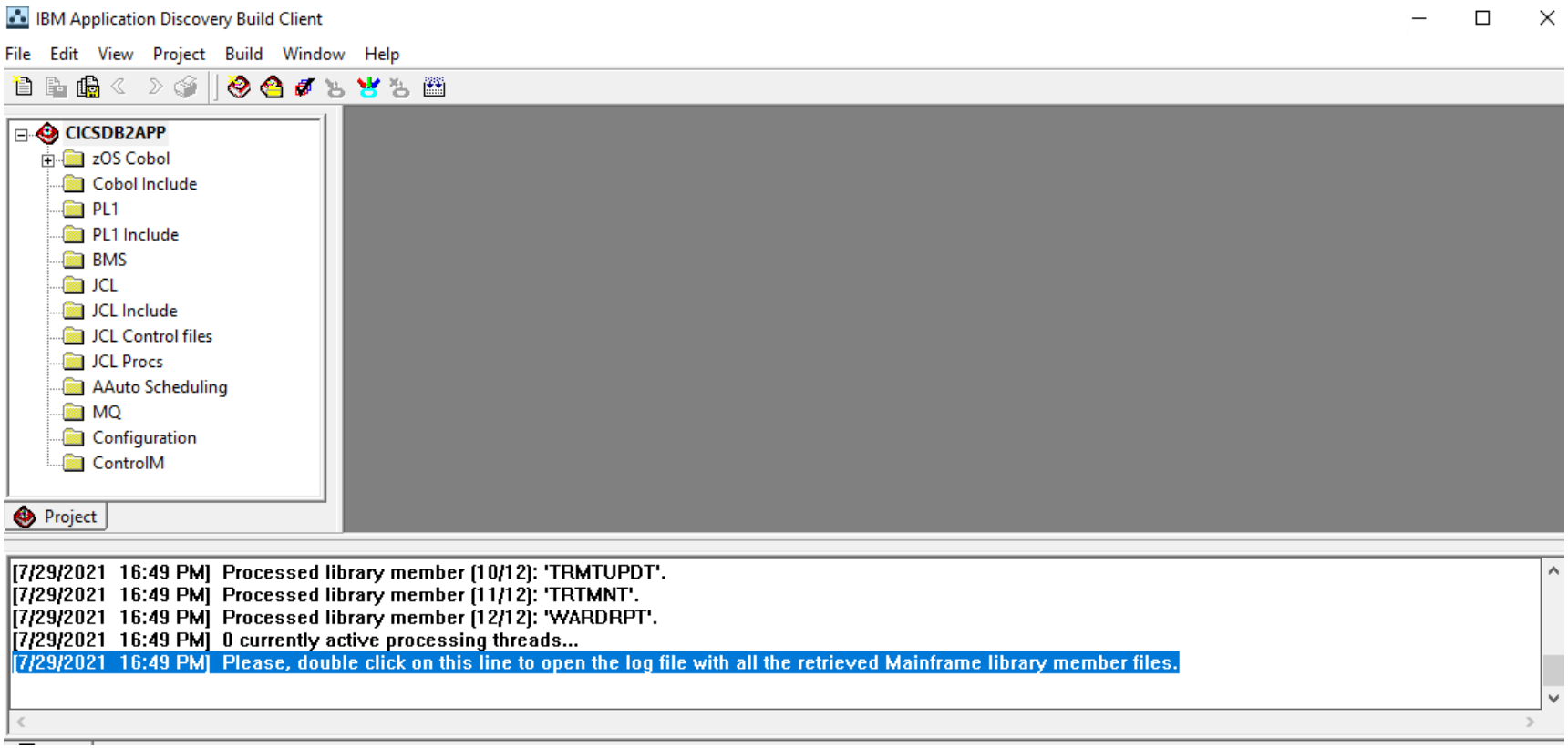
CREATE ASSOCIATION BETWEEN COBOL PDS AND COBOL AD FOLDER



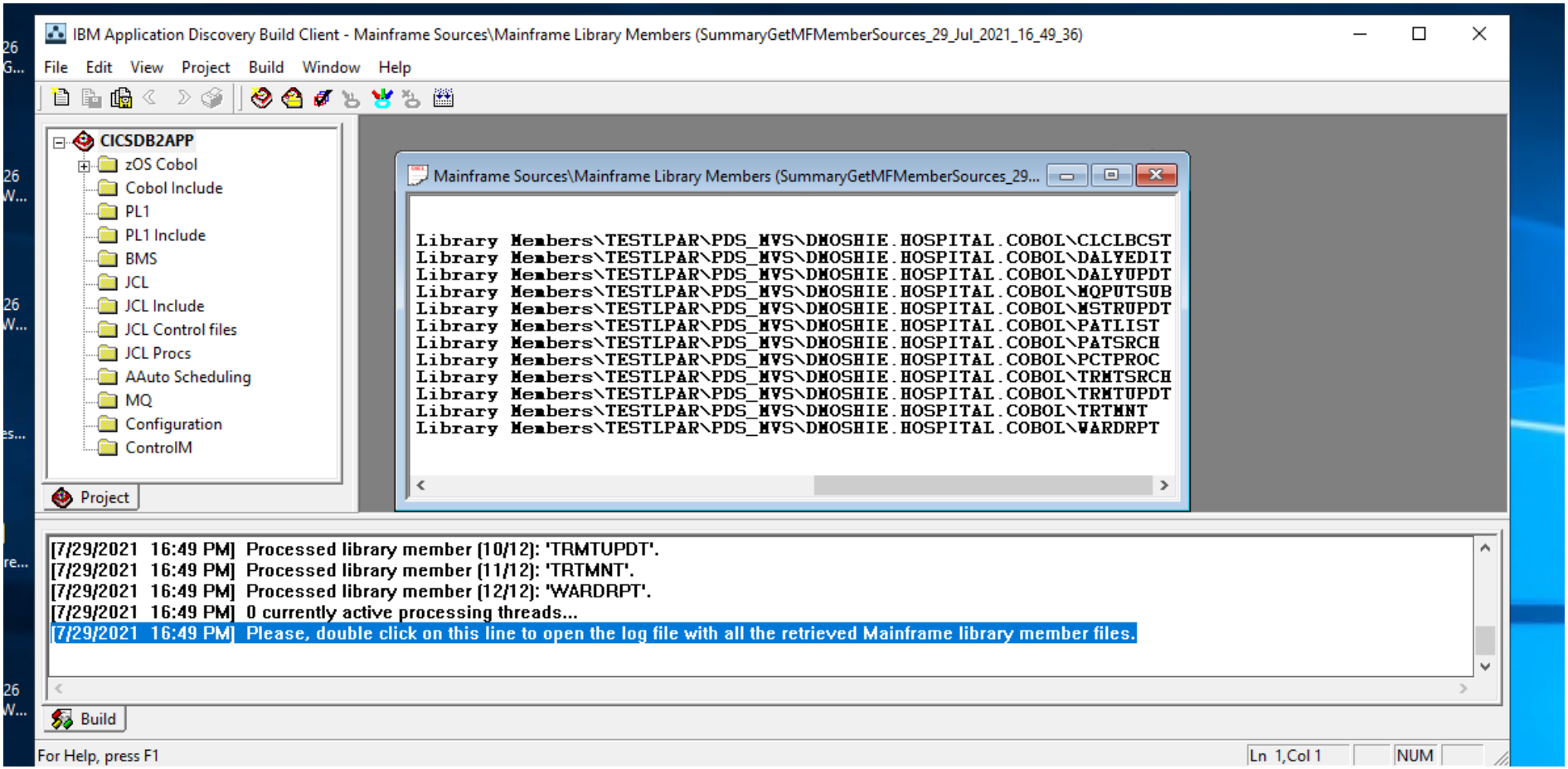
SCAN VIA LIBRARIES (NOT CHANGEMAN)



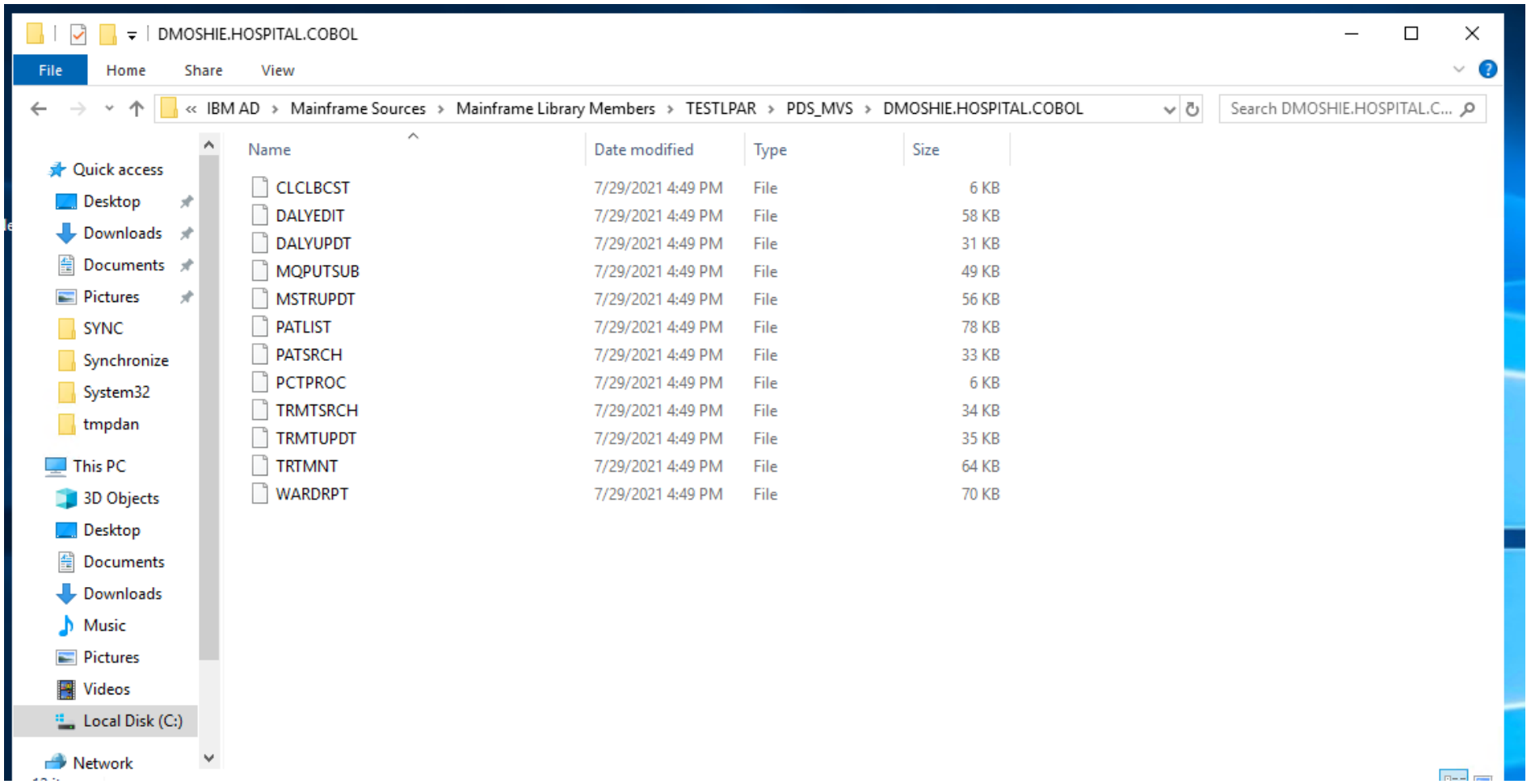
RETRIEVAL OF COBOL MEMBERS



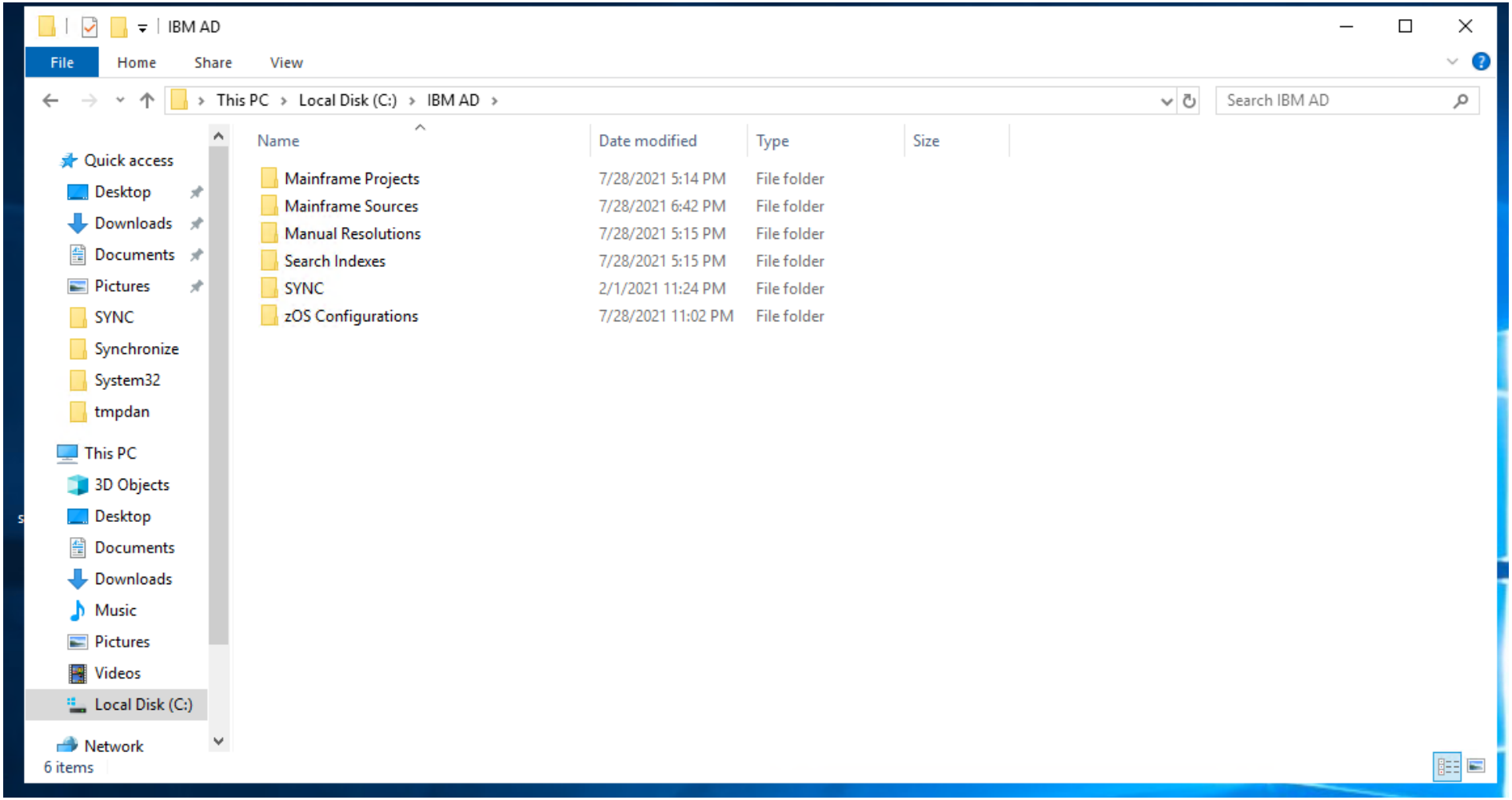
LISTING OF SOURCE FILES COPIED FROM zOS TO SHARED FOLDER



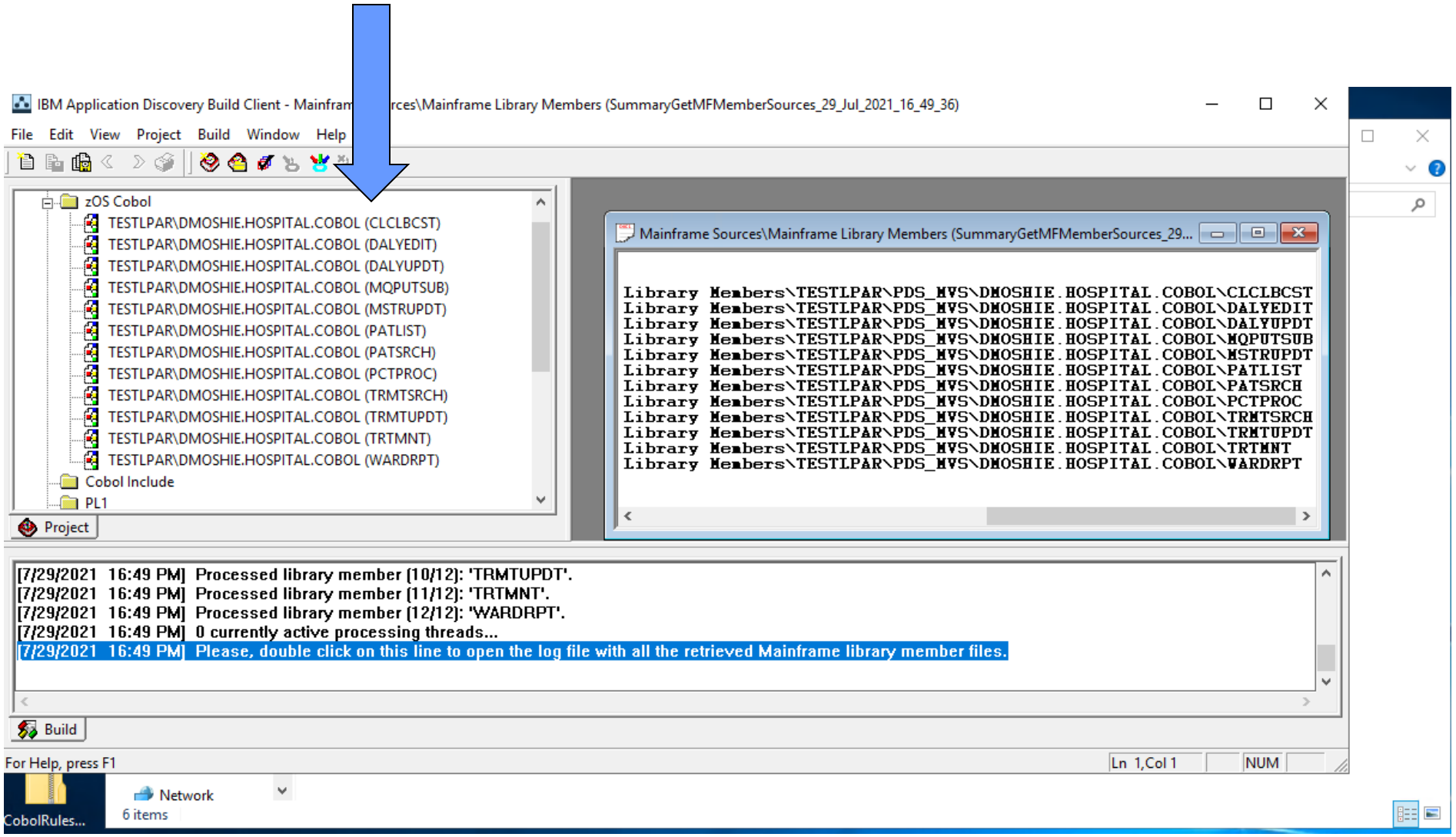
SOURCE CODE ON SHARED FOLDER



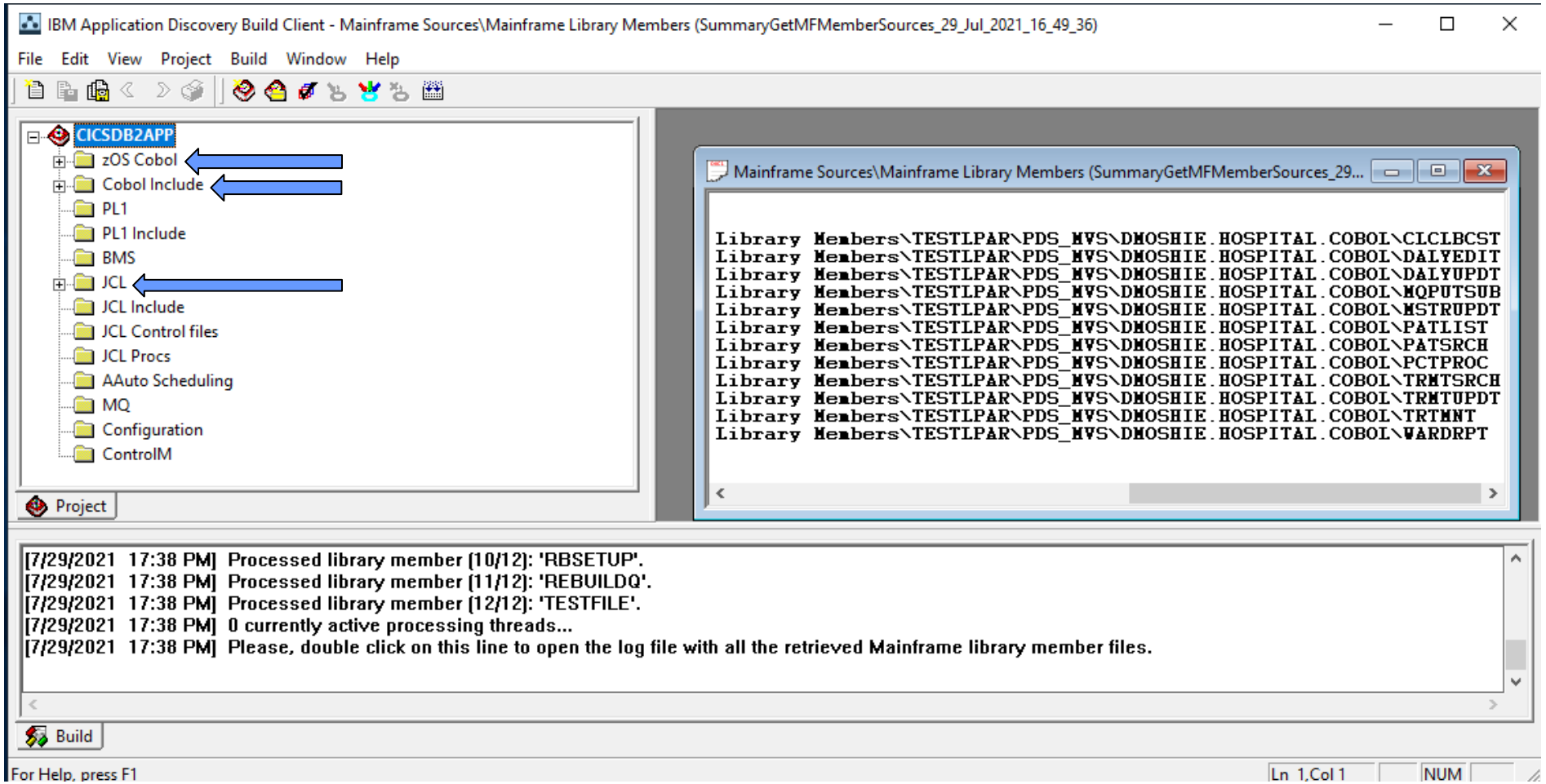
SHARED FOLDERS CREATED AT INSTALLATION TIME



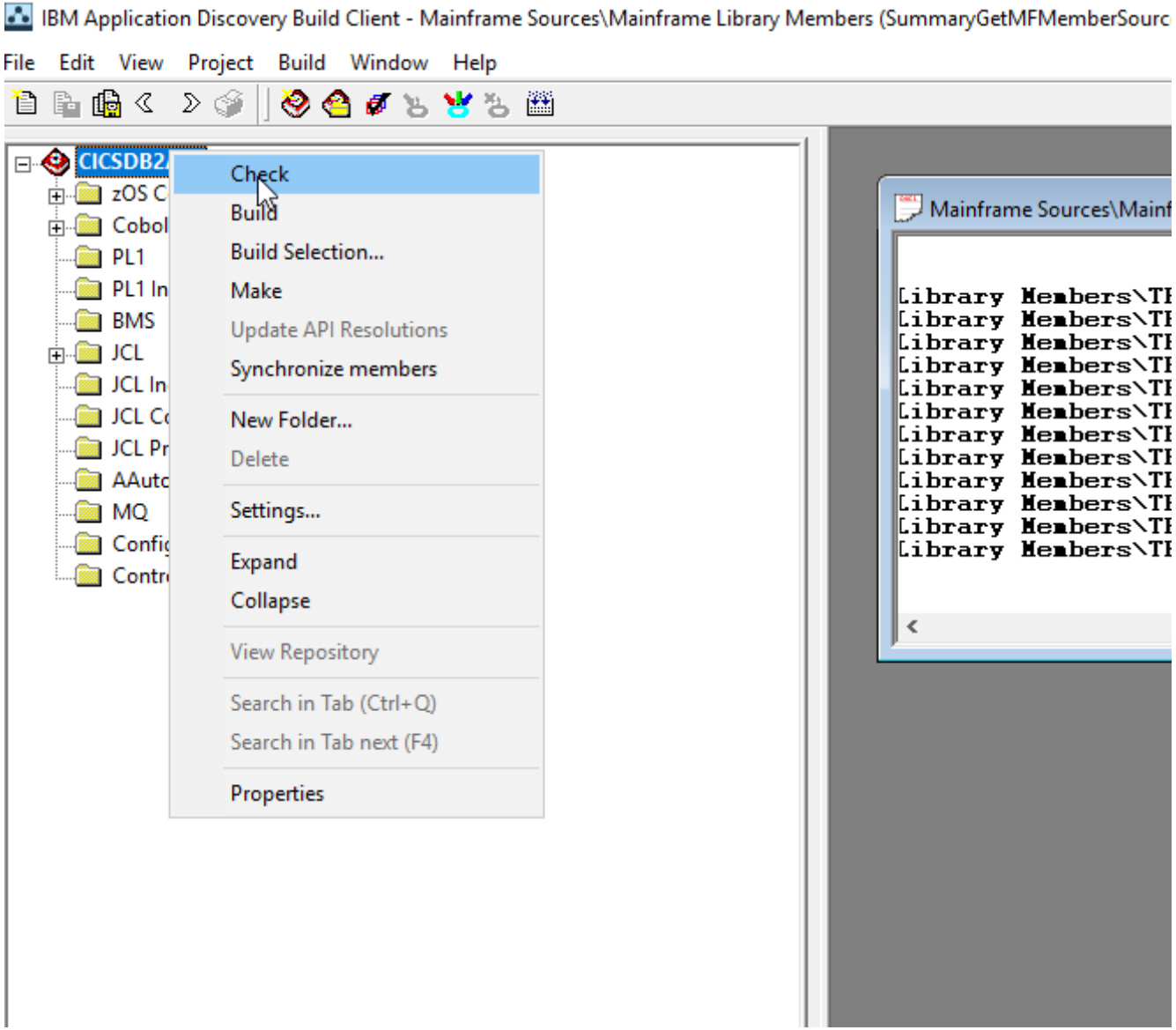
SOURCE FILES PLACED IN VIRTUAL FOLDER



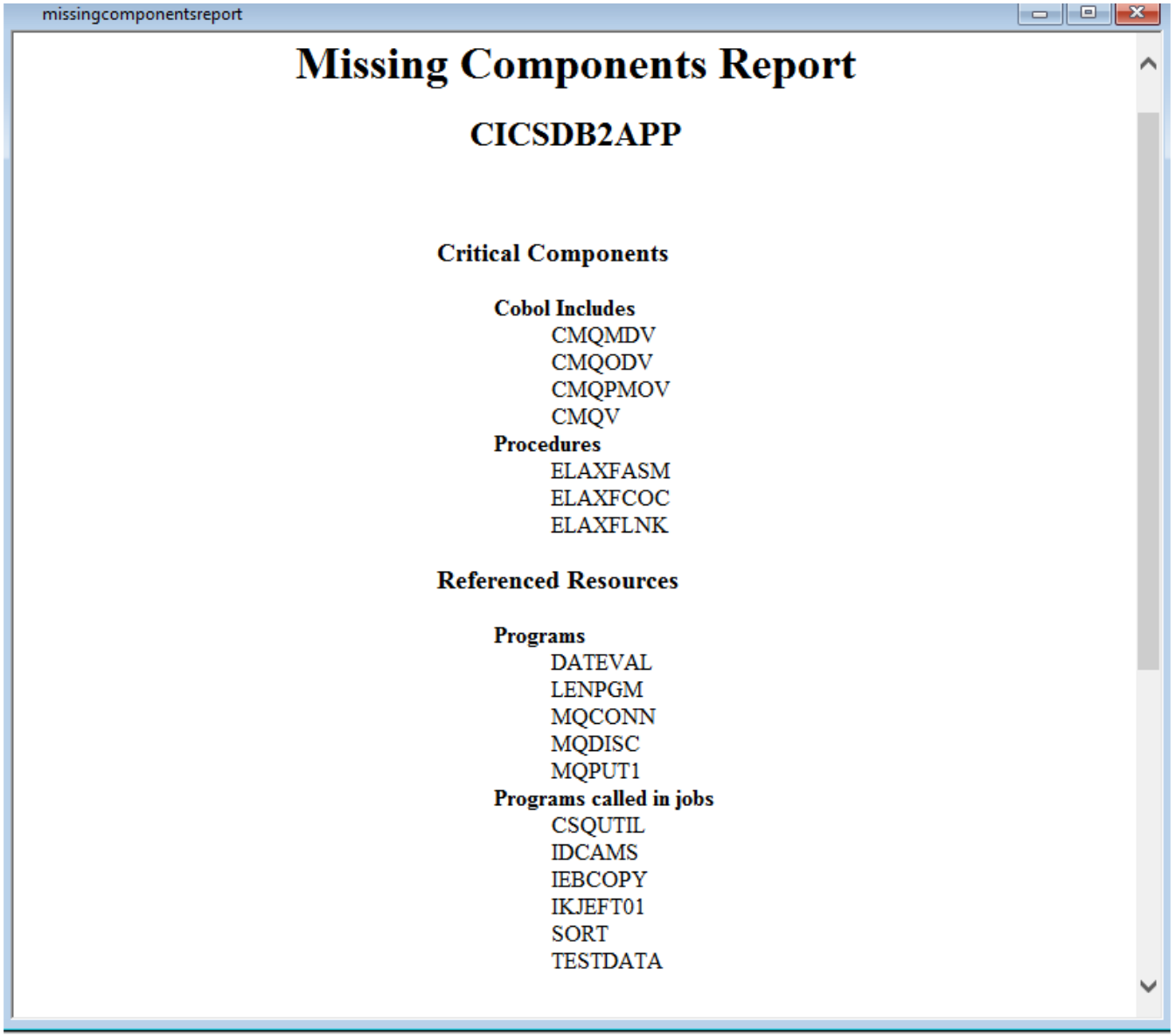
PROJECT INGESTING COBOL, COPYBOOK, JCL



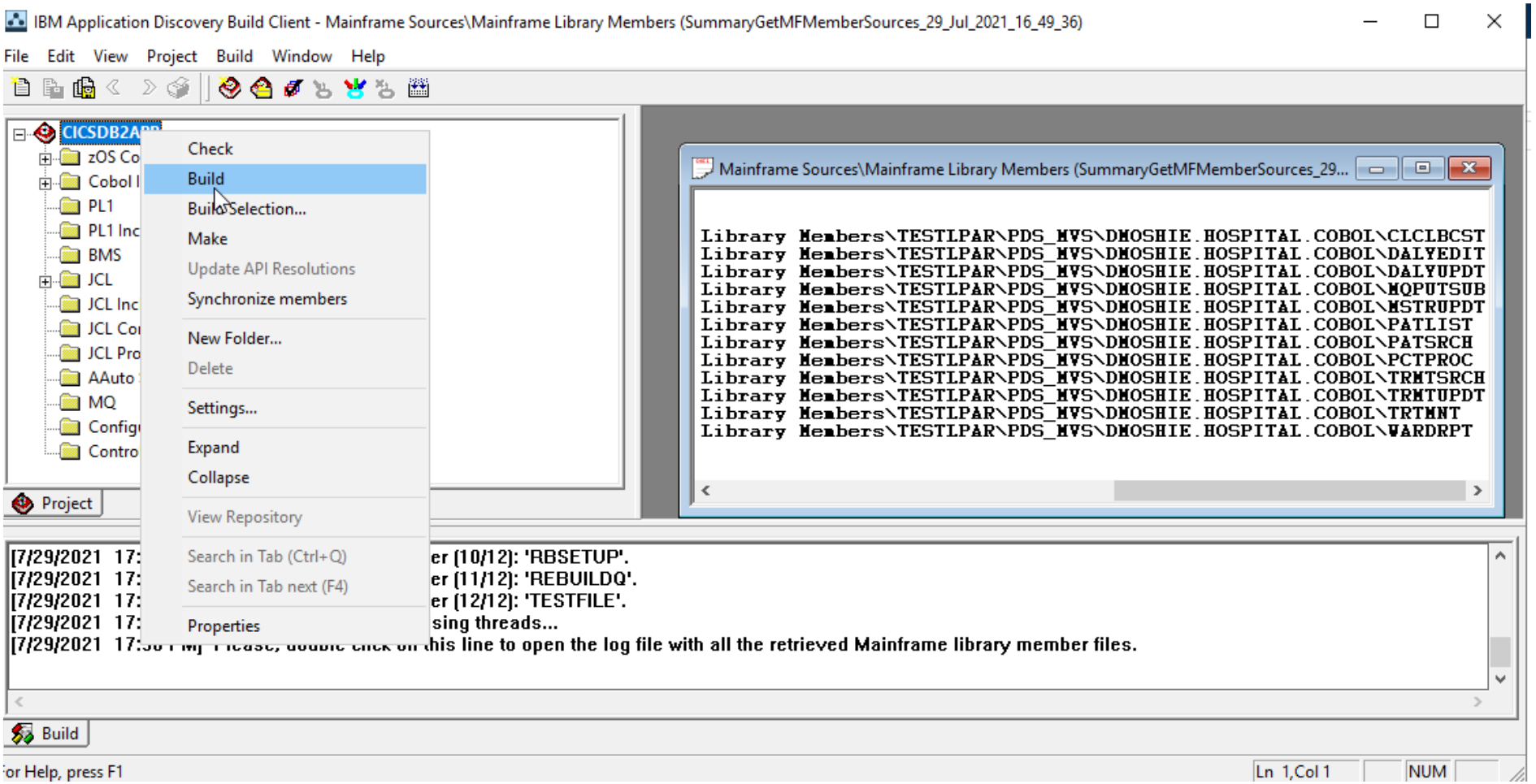
BUILD CHECK ....LIST MISSING COMPONENTS



MISSING COMPONENT LISTING



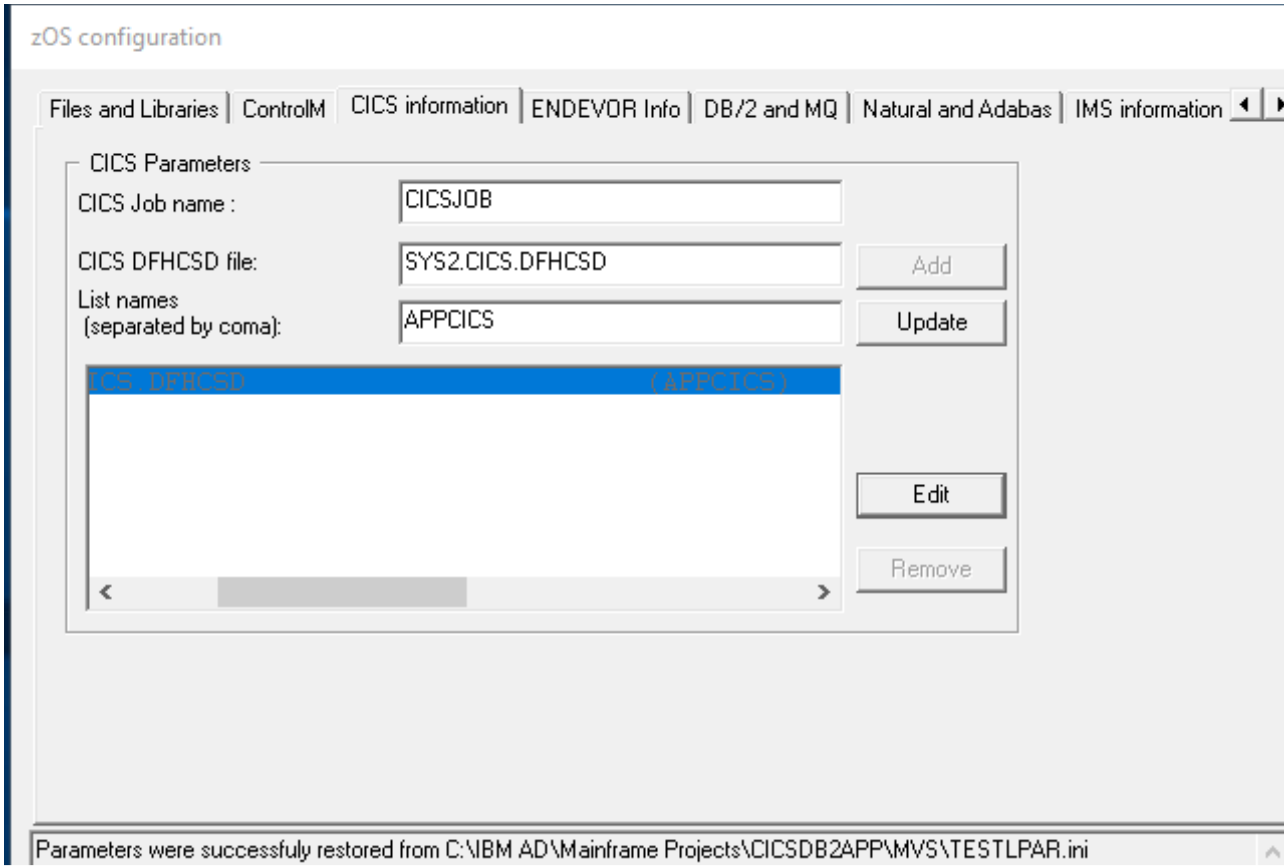
BUILD PROJECT



BUILD CONFIGURATOR: CICS CSD INPUT TO AD PROJECT

BATCH JOB CICSJOB IS RUN WITH SYS2.CICS.DFHCSD AS INPUT CSD DATASET, ISSUING DFHCSD COMMAND
LIST LIST(APPCICS)

LIST OUTPUT IS TRANSFERRED FROM JES SPOOL TO APPLICATION DISCOVERY AND SQL DATABASE IS UPDATED WITH CICS RELATED TABLES

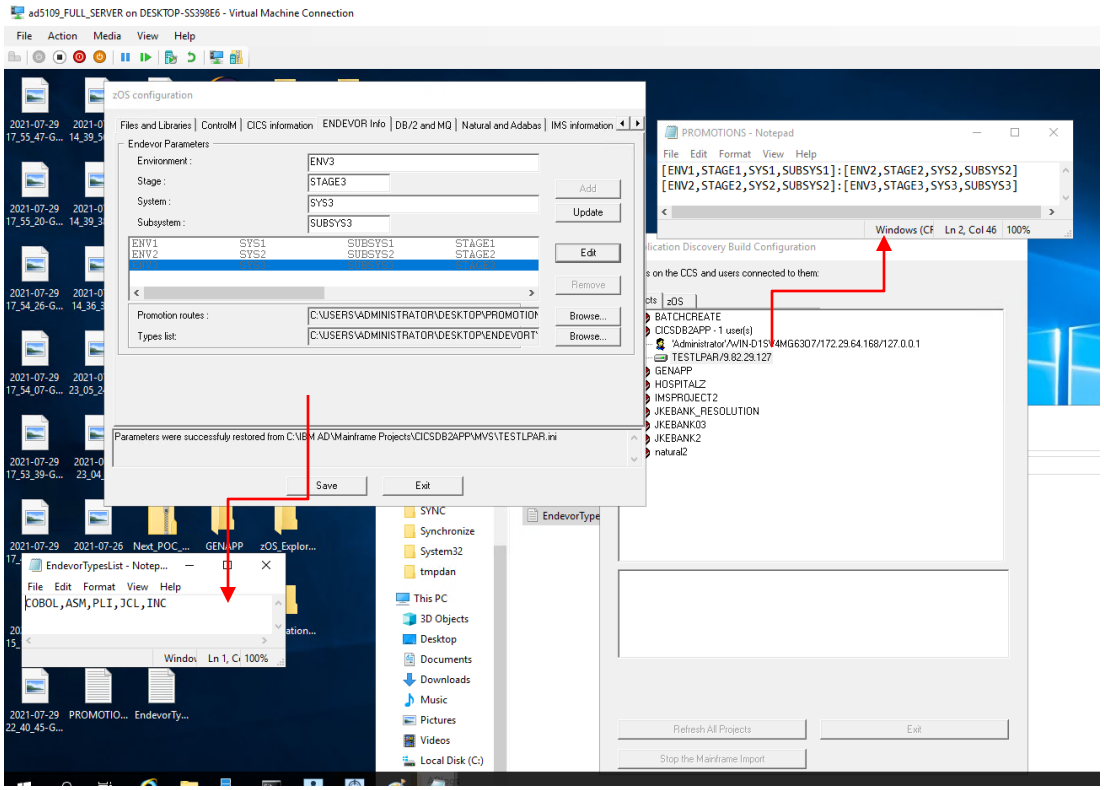


DB2 FIELD LEVEL ANALYSIS

- DCLGEN MUST BE INCLUDED AS INPUT TO COBOL AND PLI

- IF DCLGENs ARE NOT PART OF COBOL SOURCE CODE THEN ALL DCLGENs CAN BE CONSOLIDATED INTO A SINGLE PDS MEMBER, NAMING THAT MEMBER “AAAAA” SO THAT ON A BUILD, IT IS PARSED ALPHABETICALLY FIRST.

ENDEVOR CONFIGURATION

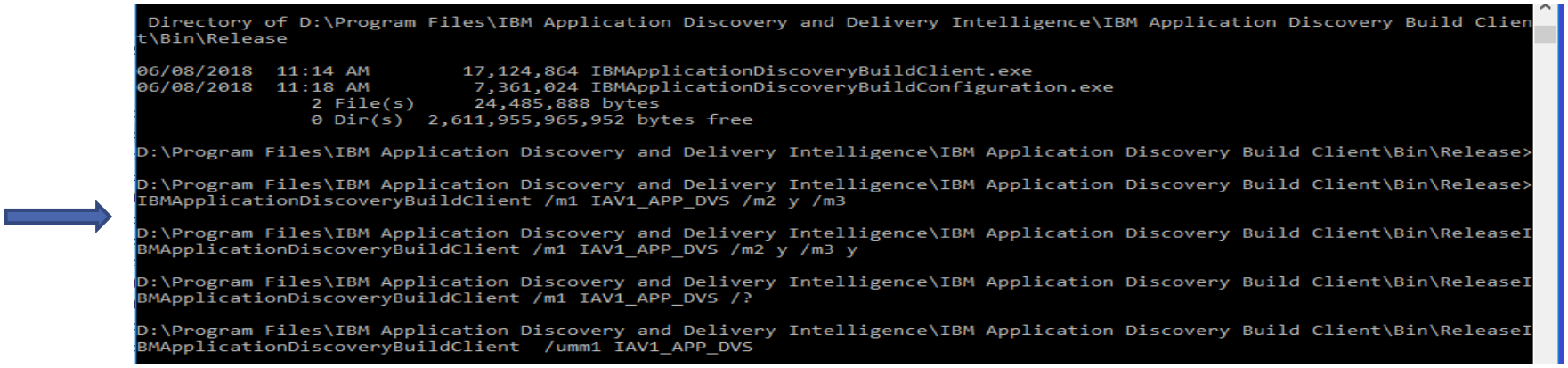


- **ADMINISTRATOR PROVIDES ENVIRONMENT,STAGE,SYSTEM, SUBSYSTEM SETS AS INPUT**
- **THERE IS A TYPES FILE THAT SPECIFY THE "ENDEVOR TYPES" THAT ARE INPUT TO APPLICATION DISCOVERY PROJECT**
- **THERE IS A PROMOTION FILE THAT IF APPLICATION THAT CAN DESCRIBE PROGRESSION OF SOURCE CODE WITHIN ENDEVOR**

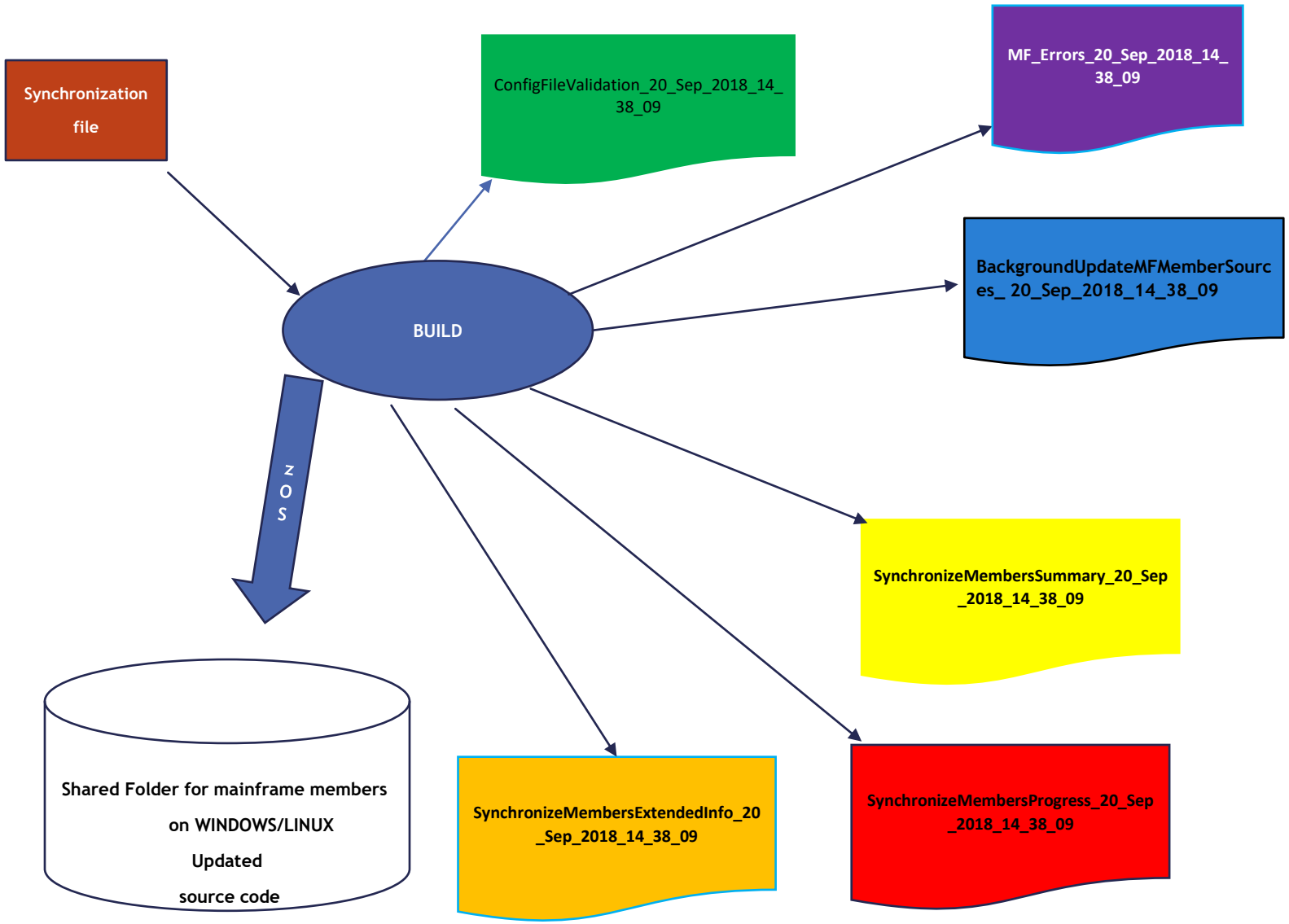
SYNCHRONIZATION

- Synchronization process is where we acquire the most recent sources from ENDEVOR or regular Partitioned Datasets on the mainframe using a synchronization file and update the mainframe sources that are placed in the Application Discovery mainframe source directory (windows).
- Synchronization is done via running the line mode BUILD CLIENT with specific syntax

Synchronization Command Syntax:
IBMApplicationBuildClient /umm1 IAV1_APP_DVS
Specified Project Name: IAV1_APP_DVS



SYNCHRONIZATION PROCESS AND FILES



SYNCHRONIZATION file

This is a sample for TEST_Synchronize_DVS.txt file as a synchronization file:

IAV1_APP_DVS,Endevor,PROD.DVS.DVS.COBOL.P,zOS Cobol,COBOL_MVS,IAV1_APP_DVS

IAV1_APP_DVS,Endevor,PROD.DVS.DVS.COPY.P,Cobol Include,COPY,IAV1_APP_DVS

IAV1_APP_DVS,PDS(MVS),PMIS01.MROH.CTLCDPDS,JCL Control files,JCL_CTRL,IAV1_APP_DV

**********END OF FILE**********

The syntax of this file is described in the AD USERS GUIDE manual.

Each logical line is a 6 tuple

1. PROJECT NAME,
2. how the source is accessed: either Endevor or PDS,
3. the zOS source partitioned datasetname or ENDEVOR: ENVIRONMENT.STAGE.SYSTEM.SUBSYSTEM,
4. the directory Folder Name in the Project virtual folder,
5. the type of file (the encoded file type that is documented in APPLICATION USERS MANUAL),
6. the ini file used by z/OS in the BUILD CONFIGURATOR to access the source code on z/OS.

SYNCHRONIZATION FILE: MULTIPLE PROJECTS ARE SUPPORTED BY A SINGLE SYNCHRONIZATION FILE

IAV1_SHARED_INCLUDES,PDS(MVS),SEDV01.PROD.COMMON.PROCLIB,JCL Procs,JCL_PROCLIB,,IAV1_SHARED_INCLUDES

IAV1_SHARED_INCLUDES,PDS(MVS),SEDV01.PROD.SS.PROCLIB,JCL Procs,JCL_PROCLIB,,IAV1_SHARED_INCLUDES

IAV1_SHARED_INCLUDES,PDS(MVS),BNCS.CTLCARDS,JCL Control files,JCL_CTRL,IAV1_SHARED_INCLUDES

IAV1_SHARED_INCLUDES,PDS(MVS),PEDV01.PROD.ASP.CARDLIB,JCL Control files,JCL_CTRL,IAV1_SHARED_INCLUDES

IAV1_SHARED_INCLUDES,PDS(MVS),PESP01.ESP.CTLCDPDS,JCL Control files,JCL_CTRL,IAV1_SHARED_INCLUDES

IAV1_SHARED_INCLUDES,PDS(MVS),PEDV01.PROD.ASP.COPYLIB,Cobol Include,COPY,IAV1_SHARED_INCLUDES

IAV1_SHARED_INCLUDES,PDS(MVS),PEDV01.PROD.COMMON.COPYLIB,Cobol Include,COPY,IAV1_SHARED_INCLUDES

IAV1_SHARED_INCLUDES,PDS(MVS),PEDV01.QA.COMMON.COPYLIB,Cobol Include,COPY,IAV1_SHARED_INCLUDES

IAV1_SHARED_INCLUDES,PDS(MVS),XCIC11.CICS.APPLV510.SDFHCOB,Cobol Include,COPY,IAV1_SHARED_INCLUDES

IAV1_SHARED_INCLUDES,PDS(MVS),XMQS11.SCSQCOBC,Cobol Include,COPY,IAV1_SHARED_INCLUDES

IAV1_APP_GSP,PDS(MVS),PESP01.ESP.JCLLIB,JCL,JCL,IAV1_APP_GSP

IAV1_APP_GSP,PDS(MVS),PEDV01.PROD.GSP.CARDLIB,JCL Control files,JCL_CTRL,IAV1_APP_GSP

IAV1_APP_GSP,PDS(MVS),PMIS01.MPTJ.CTLCDPDS,JCL Control files,JCL_CTRL,IAV1_APP_GSP

IAV1_APP_GSP,Endevor,PROD.GSP.GSP.COBOL.P,zOS Cobol,COBOL_MVS,IAV1_APP_GSP

IAV1_APP_GSP,Endevor,PROD.GSP.GSP.COPY.P,Cobol Include,COPY,IAV1_APP_GSP

IAV1_APP_GSP,Endevor,PROD.GSP.GSP.MAP.P,BMS,BMS,IAV1_APP_GSP

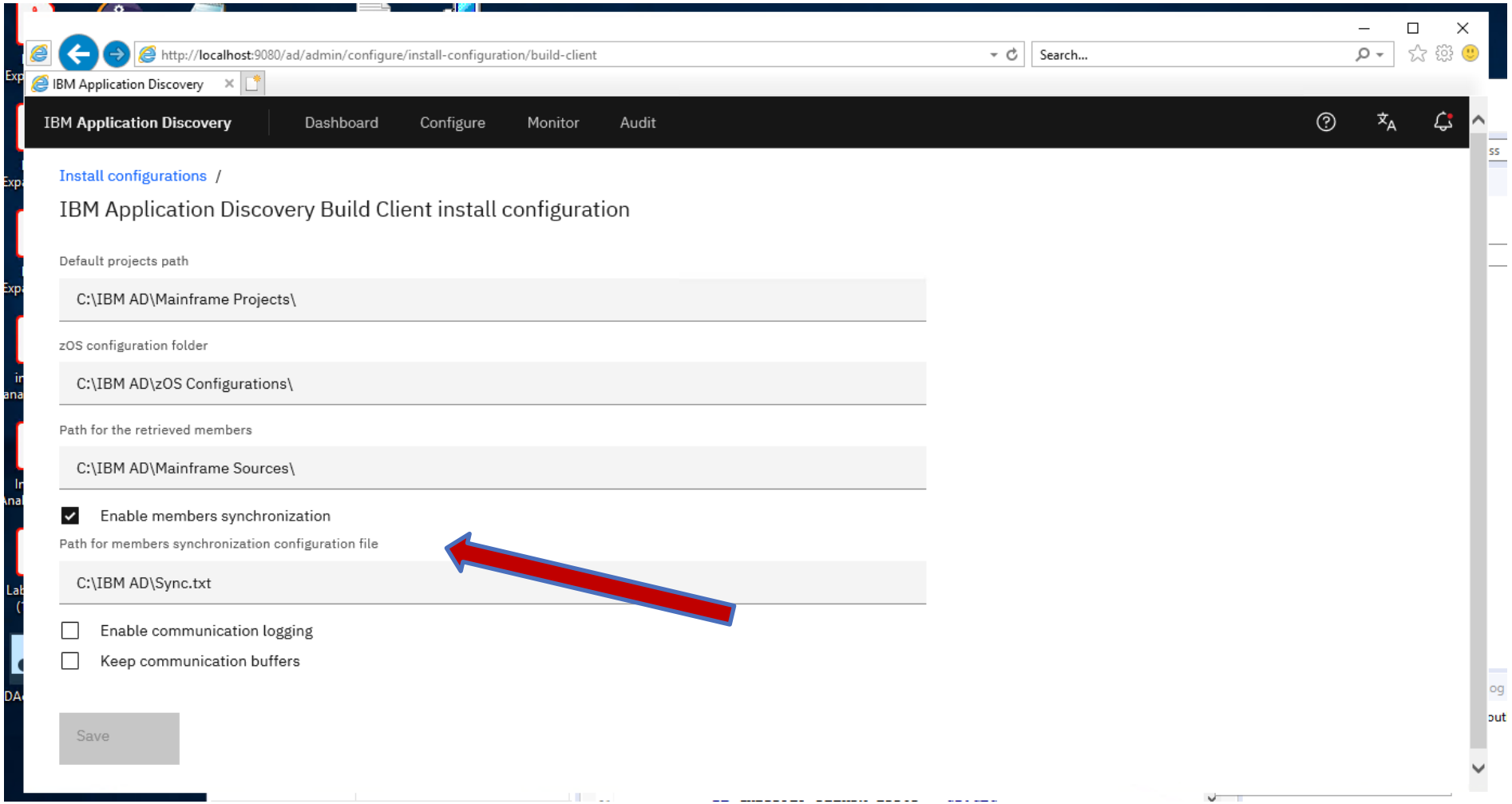
IAV1_APP_GSP,Endevor,PROD.GSP.GSP.ASSEM.P,Assembler,ASSEMBLER,IAV1_APP_GSP

IAV1_APP_GSP,Endevor,PROD.GSP.GSP.MACRO.P,Assembler Macro,ASM_MACRO,IAV1_APP_GSP

TEST_IAD_PROJECT,Endevor,TEST.GSP.GSP.COBOL.D,zOS Cobol,COBOL_MVS,TEST_IAD_PROJECT

TEST_IAD_PROJECT,PDS(MVS),XGSP01.XSYS.RETRIEVE,zOS Cobol,COBOL_MVS,TEST_IAD_PROJECT

APPLICATION DISCOVERY DASHBOARD: BUILD CLIENT INSTALL SYNCHRONIZATION FILE SPECIFICATION



Checking the status of Synchronization:

Review the following files located in the Shared Project folder under the Synchronize Folder:

- SynchronizeMembersProgress_*timestamp*.txt : Get a quick snapshot of status of activities ie. Success or Failure.
- SynchronizeMembersSummary_*timestamp*.txt: See which files are updated, added, deleted
- SynchronizeMembersExtendedInfo_*timestamp*.txt: Combines ConfigFileValidation and BackgroundUpdateMFMemberSources files
- ConfigFileValidation_*timestamp*.txt Verify that the Synchronization File is syntactically correct

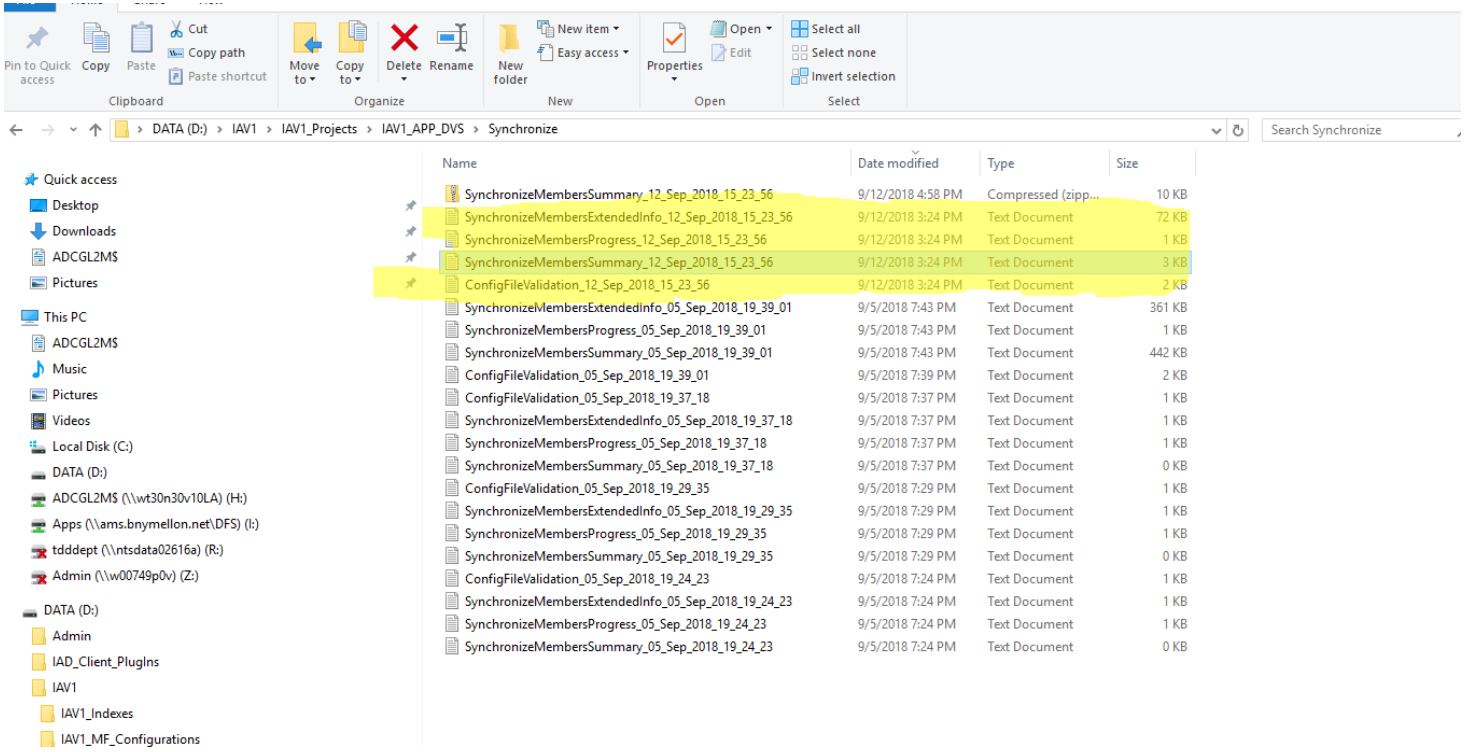
Review the following file located in Shared Project folder under \MVS\logs

- MF_Errors_timestamp.txt LIST OUT ERRORS IN Mainframe processing typically ENDEVOR

Review the following file located in the Shared Sources folder under Mainframe Library Members:

- BackgroundUpdateMFMemberSources _*timestamp.txt*: *scan of library members*

Synchronize Output Files:
located in Synchronization folder in Project Directory



SynchronizeMembersSummary:
Listing which members were updated, deleted, added

Location in Shared Projects Folder\Projectname\Synchronized folder

SynchronizeMembersSummary_12_Sep_2018_15_23_56 - Notepad

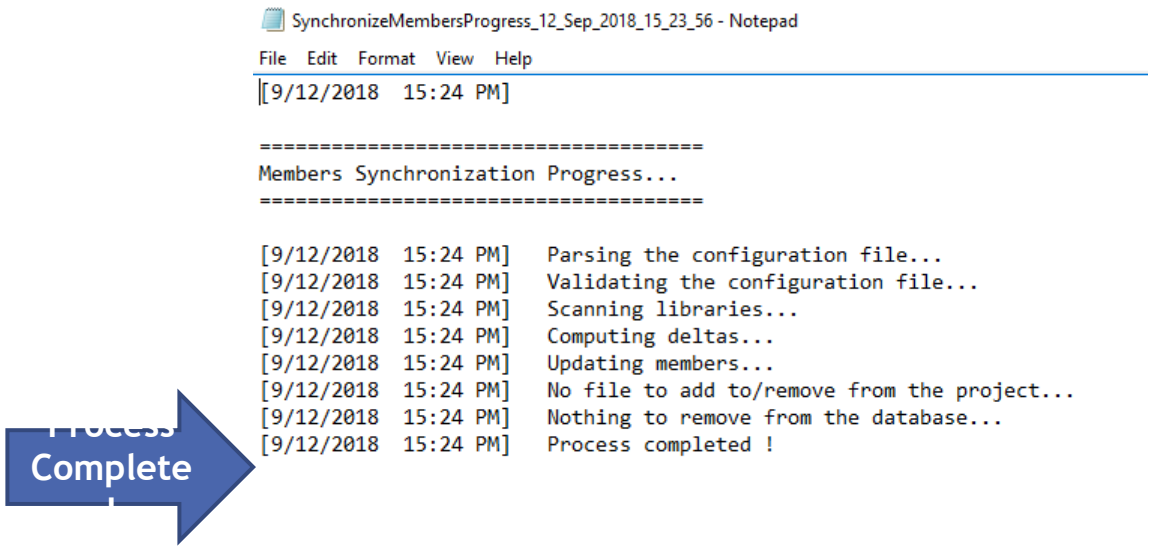
File Edit Format View Help

```
================================================================================

MVS Connection  : IAV1_APP_DVS
[9/12/2018  15:24 PM]  Updated : \\W00749P0V\IAV1_Source\Mainframe Library Members\IAV1_APP_DVS\PDS_MVS\PMIS01.MROH.CTLCDPDS\ASN90AD1
[9/12/2018  15:24 PM]  Updated : \\W00749P0V\IAV1_Source\Mainframe Library Members\IAV1_APP_DVS\PDS_MVS\PMIS01.MROH.CTLCDPDS\ASP90BAP
[9/12/2018  15:24 PM]  Updated : \\W00749P0V\IAV1_Source\Mainframe Library Members\IAV1_APP_DVS\PDS_MVS\PMIS01.MROH.CTLCDPDS\ASP90BUX
[9/12/2018  15:24 PM]  Updated : \\W00749P0V\IAV1_Source\Mainframe Library Members\IAV1_APP_DVS\PDS_MVS\PMIS01.MROH.CTLCDPDS\ASP90BY2
[9/12/2018  15:24 PM]  Updated : \\W00749P0V\IAV1_Source\Mainframe Library Members\IAV1_APP_DVS\PDS_MVS\PMIS01.MROH.CTLCDPDS\ASP90DE1
[9/12/2018  15:24 PM]  Updated : \\W00749P0V\IAV1_Source\Mainframe Library Members\IAV1_APP_DVS\PDS_MVS\PMIS01.MROH.CTLCDPDS\ASPBT09X
[9/12/2018  15:24 PM]  Updated : \\W00749P0V\IAV1_Source\Mainframe Library Members\IAV1_APP_DVS\PDS_MVS\PMIS01.MROH.CTLCDPDS\ASPHD09X
[9/12/2018  15:24 PM]  Updated : \\W00749P0V\IAV1_Source\Mainframe Library Members\IAV1_APP_DVS\PDS_MVS\PMIS01.MROH.CTLCDPDS\ASPX317X
[9/12/2018  15:24 PM]  Updated : \\W00749P0V\IAV1_Source\Mainframe Library Members\IAV1_APP_DVS\PDS_MVS\PMIS01.MROH.CTLCDPDS\SCBD0CX
[9/12/2018  15:24 PM]  Updated : \\W00749P0V\IAV1_Source\Mainframe Library Members\IAV1_APP_DVS\PDS_MVS\PMIS01.MROH.CTLCDPDS\SCBDDOL
[9/12/2018  15:24 PM]  Updated : \\W00749P0V\IAV1_Source\Mainframe Library Members\IAV1_APP_DVS\PDS_MVS\PMIS01.MROH.CTLCDPDS\SCBDDRI
[9/12/2018  15:24 PM]  Updated : \\W00749P0V\IAV1_Source\Mainframe Library Members\IAV1_APP_DVS\PDS_MVS\PMIS01.MROH.CTLCDPDS\SCBDPLRC
[9/12/2018  15:24 PM]  Updated : \\W00749P0V\IAV1_Source\Mainframe Library Members\IAV1_APP_DVS\PDS_MVS\PMIS01.MROH.CTLCDPDS\XCBDDTX
[9/12/2018  15:24 PM]  Updated : \\W00749P0V\IAV1_Source\Mainframe Library Members\IAV1_APP_DVS\PDS_MVS\PMIS01.MROH.CTLCDPDS\XCBDMFS
[9/12/2018  15:24 PM]  Updated : \\W00749P0V\IAV1_Source\Mainframe Library Members\IAV1_APP_DVS\PDS_MVS\PMIS01.MROH.CTLCDPDS\XSP90702
[9/12/2018  15:24 PM]  Updated : \\W00749P0V\IAV1_Source\Mainframe Library Members\IAV1_APP_DVS\PDS_MVS\PMIS01.MROH.CTLCDPDS\XSPABBI1
[9/12/2018  15:24 PM]  Updated : \\W00749P0V\IAV1_Source\Mainframe Library Members\IAV1_APP_DVS\PDS_MVS\PMIS01.MROH.CTLCDPDS\XSPAC21X
```

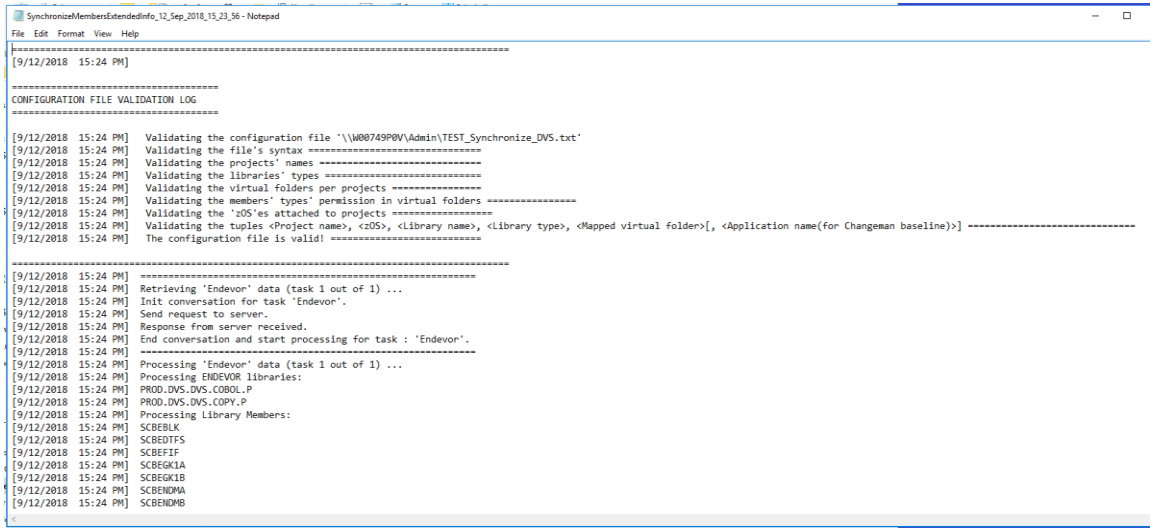
Synchronization Members Progress: Determine Success/Failure

location in Shared Projects folder\Projectname\Synchronize folder



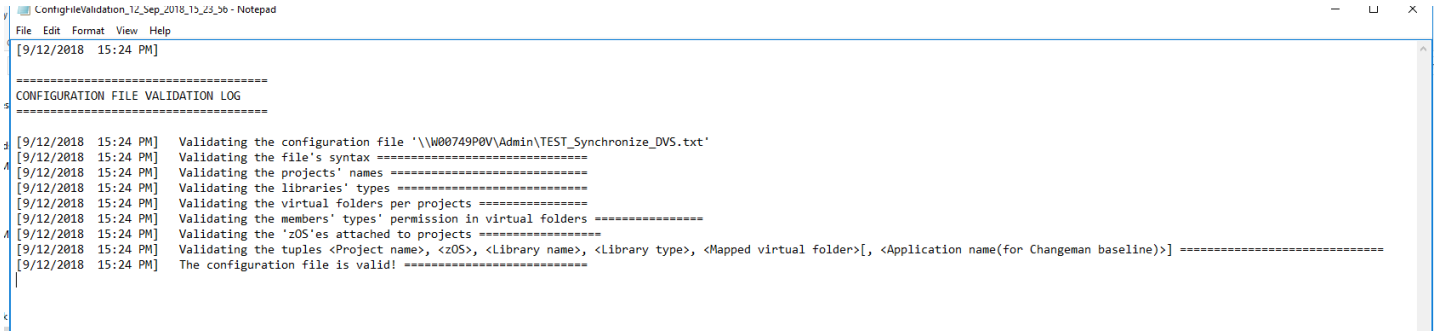
Synchronization Members Extended:
combines config file validation and BackgroundUpdateMFMember Sources

location in Shared Projects Folder\Projectname\Synchronization folder



Configuration File Validation Log: verifies that Config parses

location in Shared Projects Folder\Projectname\Synchronization folder



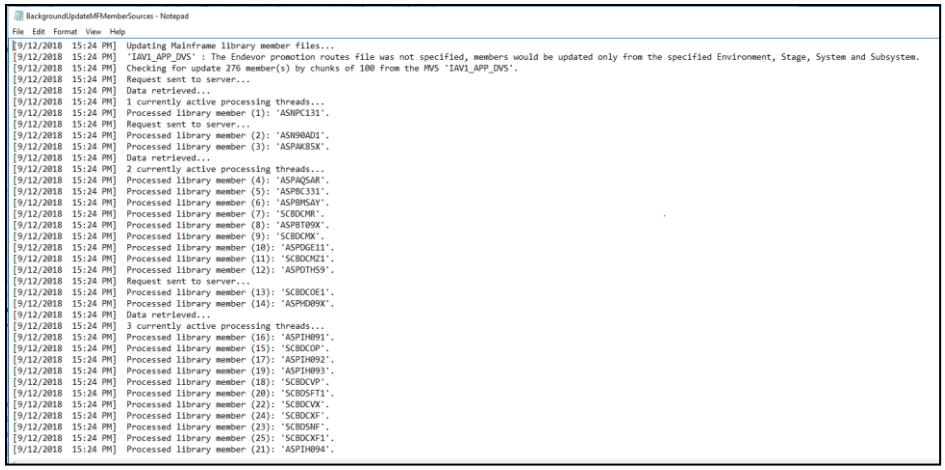
MF_Errors:
List out Mainframe Errors in accessing source code

Location in Shared Projects folder\Projectname\MVS\error

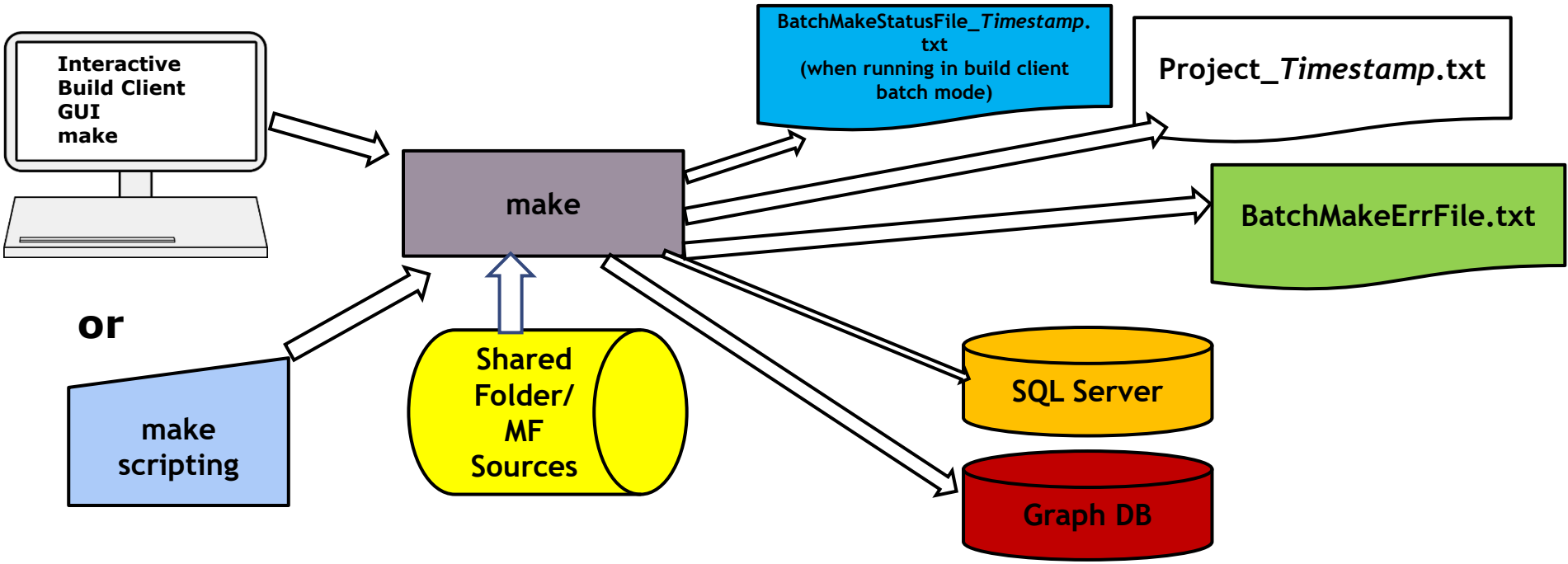
```
[8/28/2018  17:41 PM]  ============================================================
[8/28/2018  17:41 PM]  Init conversation for task 'Endevor'.
[8/28/2018  17:41 PM]  End conversation and start processing for task : 'Endevor'.
[8/28/2018  17:41 PM]  ============================================================
[8/28/2018  17:41 PM]  Processing task: ENDEVOR
[8/28/2018  17:41 PM]  MF Agent ( ZLG1030U ):
Agent/module IAYCONN :  ERROR accessing:PROD     DVS      DVS      ASSEM    P         , ELEMENT not found
[8/28/2018  17:41 PM]  MF Agent ( ZLG1030U ):
Agent/module IAYCONN :  ERROR accessing:PROD     DVS      DVS      INCLASM  P         , ELEMENT not found
[8/28/2018  17:41 PM]  MF Agent ( ZLG1030U ):
Agent/module IAYCONN :  ERROR accessing:PROD     DVS      DVS      INCLDAT  P         , TYPE not found
[8/28/2018  17:41 PM]  MF Agent ( ZLG1030U ):
Agent/module IAYCONN :  ERROR accessing:PROD     DVS      DVS      INCLUDE  P         , ELEMENT not found
[8/28/2018  17:42 PM]  MF Agent ( ZLG1030U ):
Agent/module IAYCONN :  ERROR accessing:PROD     DVS      DVS      MACRO    P         , ELEMENT not found
[8/28/2018  17:42 PM]  End task: ENDEVOR
```

BackgroundUpdateMFMemberSources: a log of retrieval of sources from zOS

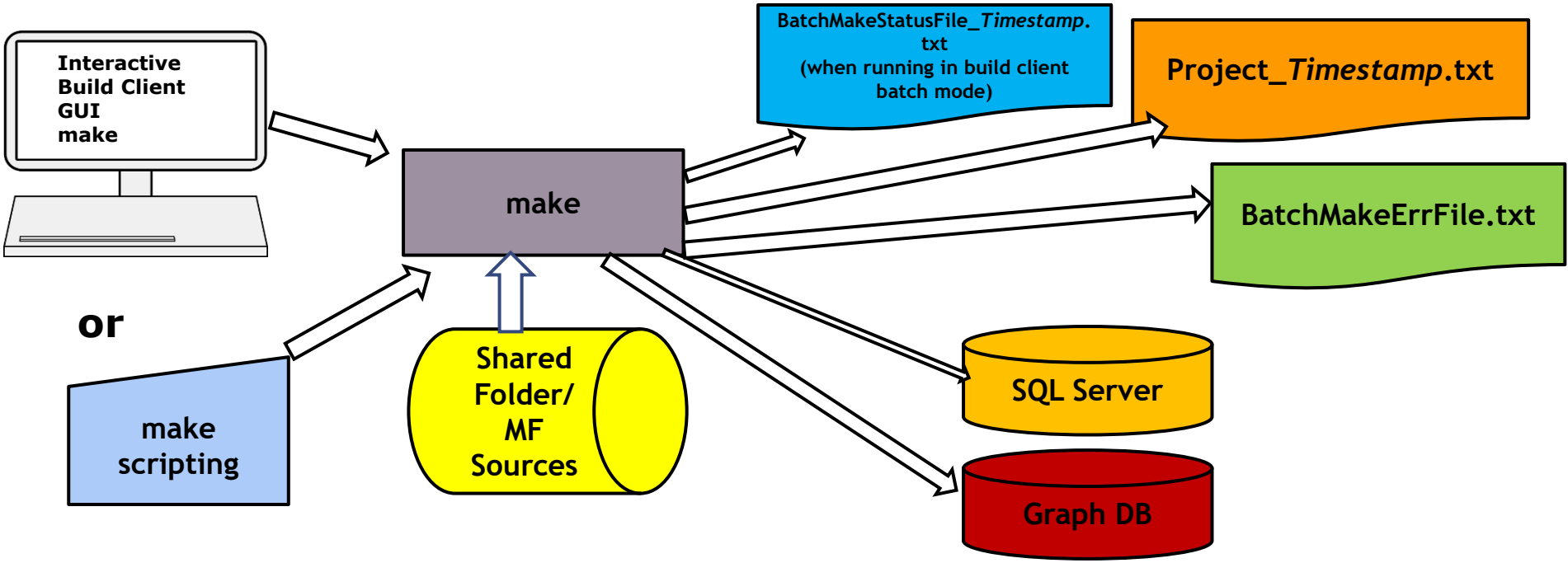
Location in Shared Sources Folder\Mainframe Library Members



make processing



make processing



make syntax in Application Discovery

PROGRAM Found in this directory:

...\Program Files\IBM Application Discovery and Delivery Intelligence\IBM Application Discovery Build Client\Bin\Release>

IBMApplicationDiscoveryBuildClient /m1 Project /m2 y /m3 y

Syntax: /m1 PROJECTNAME /m2 (y/n) /m3 (y/n)

/m1 Projectname Specify the Projectname to be “make”

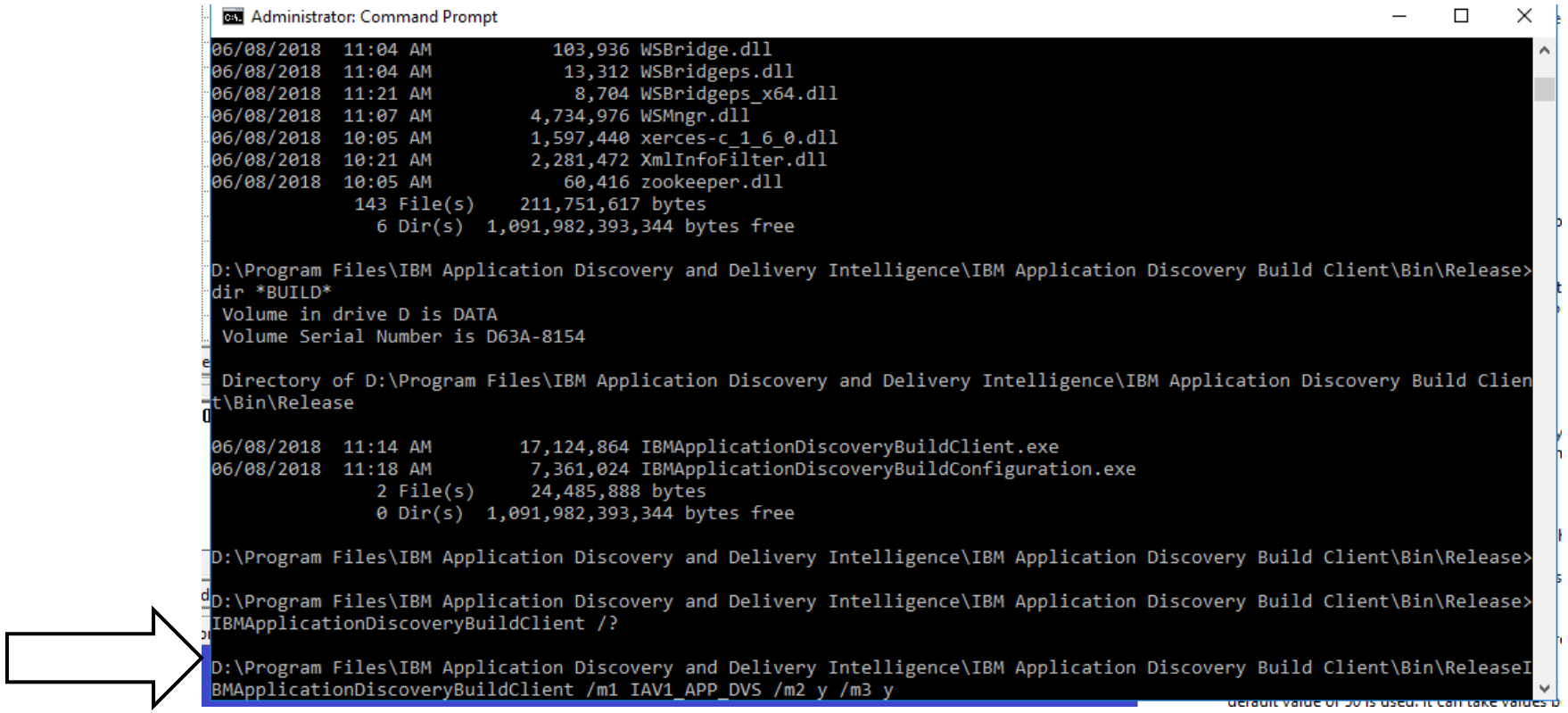
/m2 yes or no specify **yes** to run the build client in the background so that the build client can be run elsewhere

/m3 **yes** or **no** for generating the make status file **BatchMakeStatus_*timestamp*.txt**

It is recommended that ***/m3 y*** is specified to generate the BatchMakeStatus file

Unlike the unix make command, there is NO file input for the Application Discovery make process.

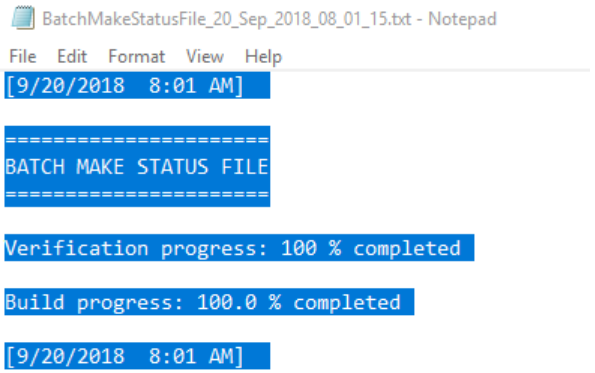
Invocation of build client in batch make mode



Determining Success of make processing: BatchMakeStatusFile_timestamp.txt

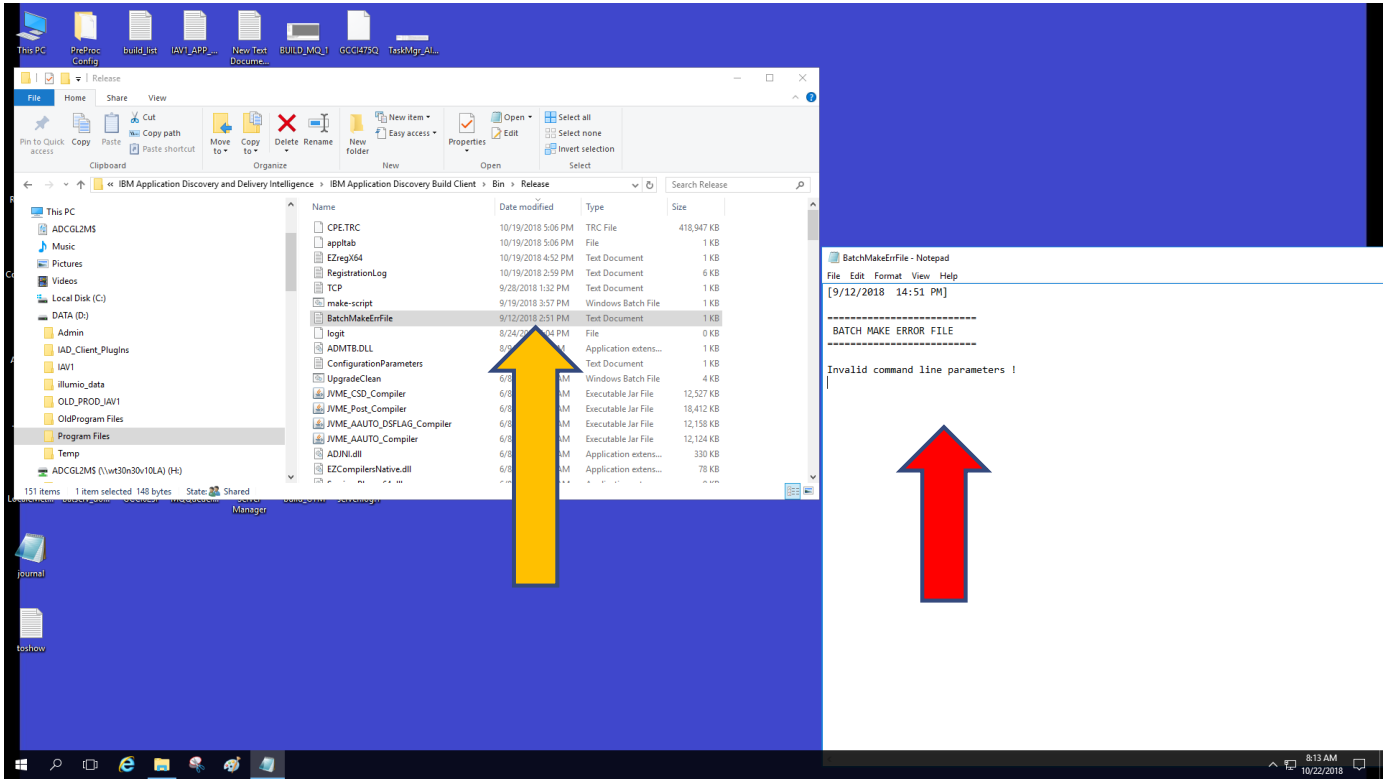
BatchMakeStateFile_timestamp.txt is located in PROJECT SHARED FOLDER/Project folder.

CHECK THE BUILD PROGRESS STATUS FOR 100%



BatchMakeErrFile.txt:
syntax error in make command

Located in D:\Program Files\IBM Application Discovery and Delivery Intelligence\IBM Application Discovery Build Client\Bin\Release



Project_Timestamp.txt
Running log of entire make processing

Project_Timestamp.txt is located in PROJECT SHARED FOLDER/Project folder.

```
User Name : admin
Computer Name : IBMServer
IP Address : 192.168.159.162
[8/27/2018  20:06 PM]  Building project...
[8/27/2018  20:11 PM]  zOS Cobol Program                    CSMRT001
...
...
[8/27/2018  20:12 PM]  BMS Map                              JKEMORT
[8/27/2018  20:12 PM]
C:\Users\admin\Desktop\JKEBANK\JKEBank\BMS\JKEMORT(24) : Warning
[1043] : Syntax Error: 'Length attribute is Missing'
[8/27/2018  20:13 PM]   - 15 error(s), 20 warning(s)
```

BATCH CREATE, POPULATE AND FULL BUILD OF A NEW PROJECT

- CUSTOMER CAN AUTOMATE THE MANUAL PROCESSING (USING BATCH CLIENT) INTERFACE, SAVING TIME, AND EFFORT

- REQUIRES CREATING/UPDATE FILES FOR:
  - DESCRIBING APPLICATION TYPE: COBOL, CICS, DB2
  - SPECIFYING “ENVIRONMENT” AND REPOSITORY
  - WHICH LPAR IS PROJECT GETTING SOURCE CODE FROM
  - UPDATE SYNC FILE WITH SOURCE CODE INFORMATION ON LPAR

- RUNNING BATCH COMMANDS
  - REFER TO USERS GUIDE FOR SYNTAX
  - LOGGING IS IN VARIOUS LOCATIONS

CREATE NEW PROJECT INI FILE

FILE: HOSPBAT.INI

```
[ADNewProj]
ProjectName = "HOSPBAT"
Path = "C:\IBM AD\Mainframe Projects\HOSPBAT"
Environment = "zOS"
ProjectLanguages = "Assembler,Cobol"
DBTypes = "Relational"
MapTypes = "CICS (BMS)"
ProjectDBType = "SQL"
CCSEnvironment = "Default"
DBServerName = "SQLServer [127.0.0.1:1433]"
AttachToDB = "N"
EnableBRD = "Y"
EnableCross = "Y
```

LINE MODE COMMAND

```
C:\Program Files\IBM Application Discovery and Delivery Intelligence\IBM Application Discovery Build Client\Bin\Release\
IBMApplicationDiscoveryBuildClient
/np "c:\IBM AD\BUILD_CLIENT_CNTL\HOSPBAT.ini
```

CREATE INI FILE TO ASSOCIATE LPAR TO PROJECT

FILE: HOSPBATLPAR.INI

```
[ProjectsActions]
AssociatezOS=[HOSPBAT,WASHSYS]
```

LINE MODE COMMAND

```
C:\Program Files\IBM Application Discovery and Delivery Intelligence\IBM Application Discovery Build
Client\Bin\Release>IBMApplicationDiscoveryBuildConfiguration.exe /ba "c:\IBM
AD\BUILD_CLIENT_CNTL\HOSPBATLPAR.ini"
```

POPULATE SOURCE CODE FROM LPAR, AND DO FULL BUILD

filename: SYNC.txt

```
HOSPBAT,PDS(MVS),DMOSHIE.HOSPITAL.COBOL,zOS Cobol,COBOL_MVS,WASHSYS
HOSPBAT,PDS(MVS),DMOSHIE.HOSPITAL.COPYBOOK,Cobol Include,COPY,WASHSYS
HOSPBAT,PDS(MVS),DMOSHIE.HOSPITAL.ASM,Assembler,ASSEMBLER,WASHSYS
HOSPBAT,PDS(MVS),DMOSHIE.HOSPITAL.JCL,JCL,JCL,WASHSYS
```

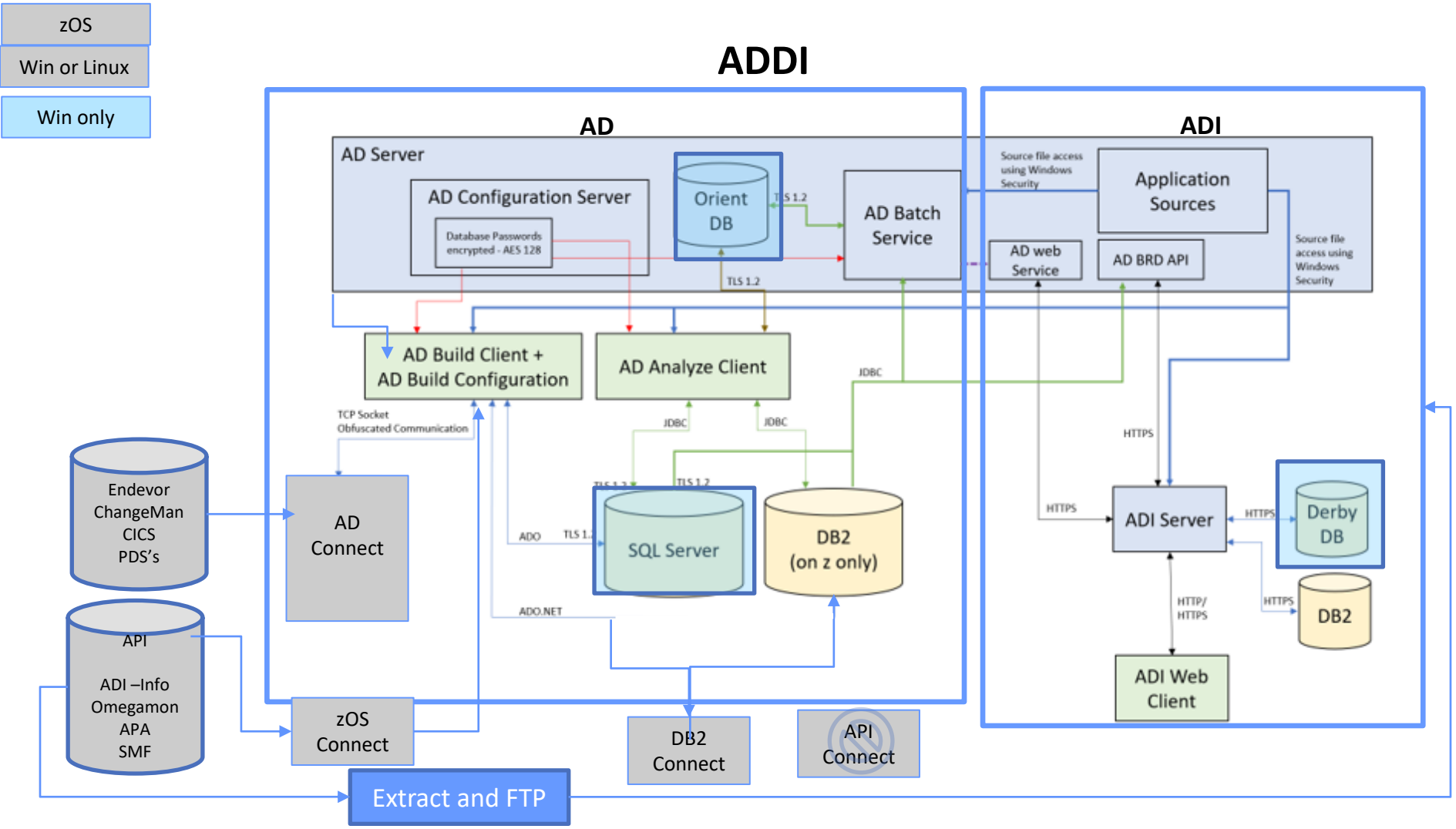
LINE MODE COMMAND: COPY SOURCE CODE FROM LPAR WASHSYS

```
C:\Program Files\IBM Application Discovery and Delivery Intelligence\IBM Application Discovery Build
Client\Bin\ReleaseIBMApplicationDiscoveryBuildClient /umm1  HOSPBAT
```

LINE MODE COMMAND: RUN FULL BUILD OF PROJECT

```
C:\Program Files\IBM Application Discovery and Delivery Intelligence\IBM Application Discovery Build
Client\Bin\ReleaseIBMApplicationDiscoveryBuildClient /fb HOSPBAT
```

APPLICATION DISCOVERY ARCHITECTURE



INSTALLATION OF APPLICATION DISCOVERY

- PLANNING
  - BUILD CLIENT MUST RUN IN WINDOWS: WINDOWS SERVER OR WIN10
  - AD SERVER CAN RUN IN MS SERVER OR LINUX
  - REPOSITORY ON WINDOWS, LINUX, ZOS (SQL SERVER/DB2)
  - AD CLIENT CAN BE IN ANY ECLIPSE SUPPORTED ENVIRONMENT
  - ACTIVE DIRECTORY/SECURE STORAGE
  - FIREWALL/PORT ADMINISTRATION
- PREREQUISITES
  - JAVA 8 (NOT JAVA 9 OR HIGHER)
  - REPOSITORY (SQL SERVER, DB2)
  - ACTIVE DIRECTORY SETUP
  - ECLIPSE/IDz
- IMPLEMENTION
  - RUN INSTALLATION SCRIPT
  - CONFIGURE SERVERS
  - INSTALL PLUGIN FOR ANALYZE CLIENT
  - CONFIGURE ANALYZE CLIENT

I

SERVER/LISTENER PORTS

SERVER	PORT
CONFIGURATOR SERVER	2181
SQL SERVER	1433
GRAPH DB	2424
FILE SERVER	7700
MAINFRAME PROJECT	7650
MANUAL RESOLUTIONS	7900
SEARCH SERVICE	7800

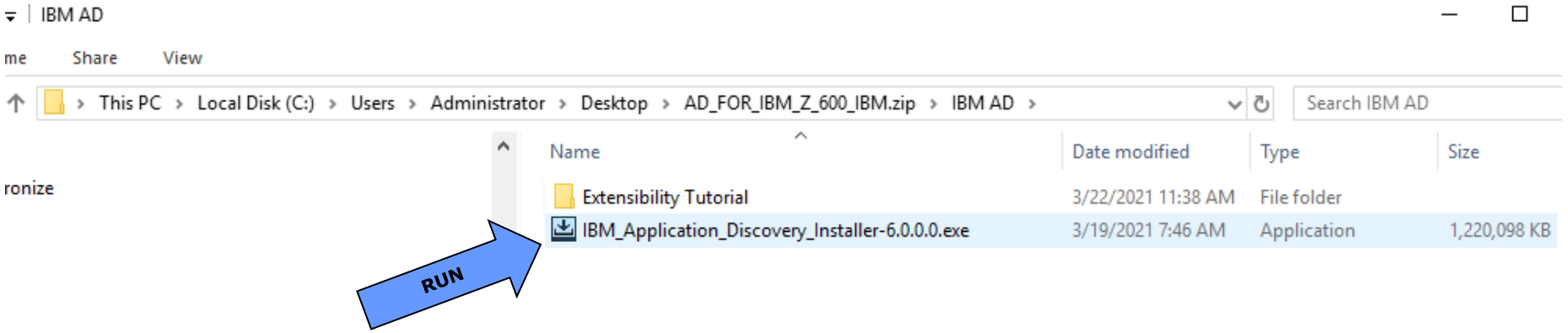
AD CONFIGURATION INFORMATION MAY BE STORED IN

- SERVER “CONF” FILES
- SERVER “YAML” FILES
- .INI FILES
- SHARED FOLDERS:
  1. PROJECT
  2. SOURCE CODE
  3. MAINFRAME INI FILES
  4. INDEX FILES
- RELATIONAL DATABASE/REPOSITORY
- CONFIGURATION SERVER

RUN INSTALLATION PROGRAM

1. UNZIP ZIP FILE: ADDI_FOR_Z_600.ZIP

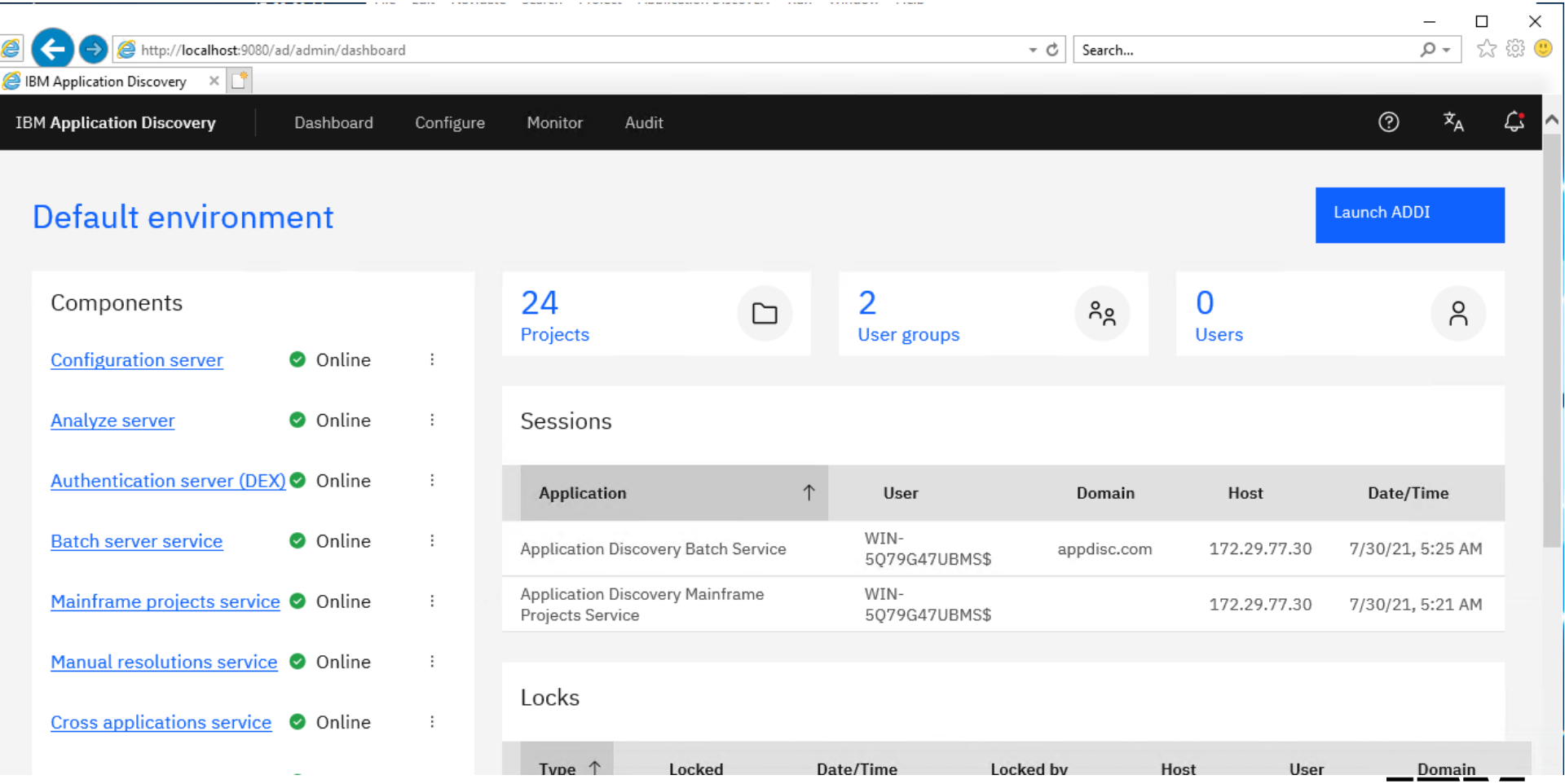
2. RUN INSTALLER



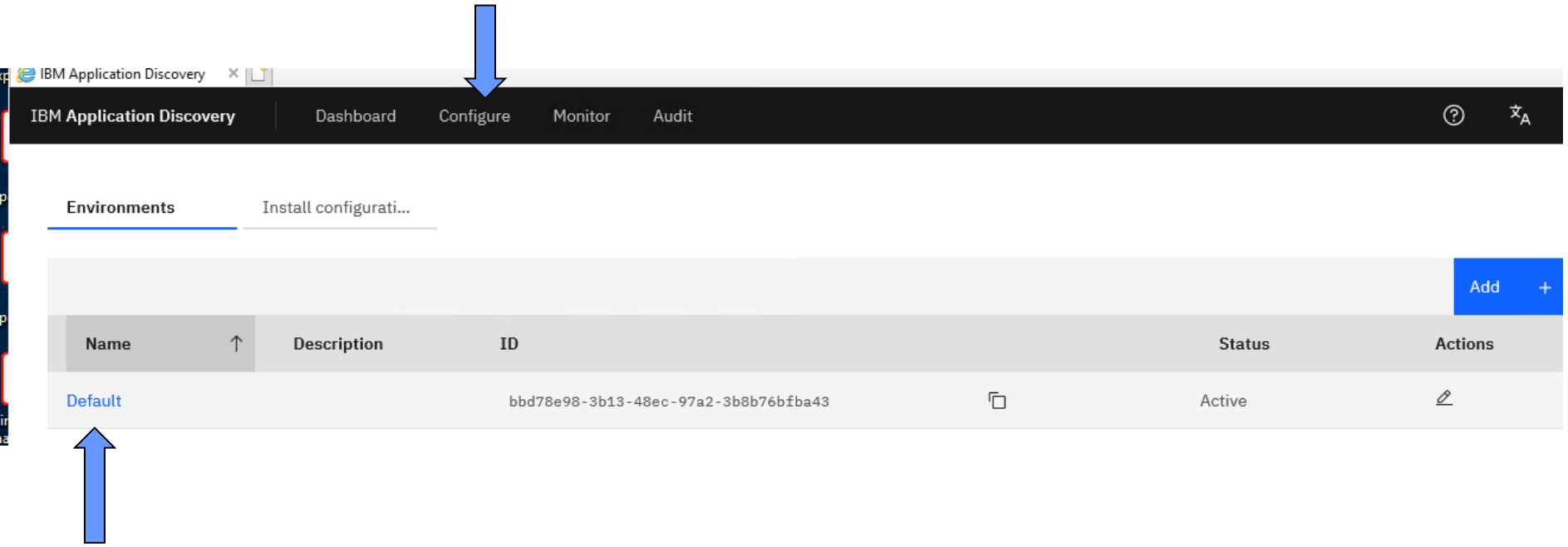
ACCESS ADDI CONFIGURATION DASHBOARD

http://localhost:9080/ad/admin/dashboard

CHECK STATUS OF THE SERVERS, SESSIONS



ACCESS ADDI DASHBOARD: CONFIGURE AND ACCESS ENVIRONMENT



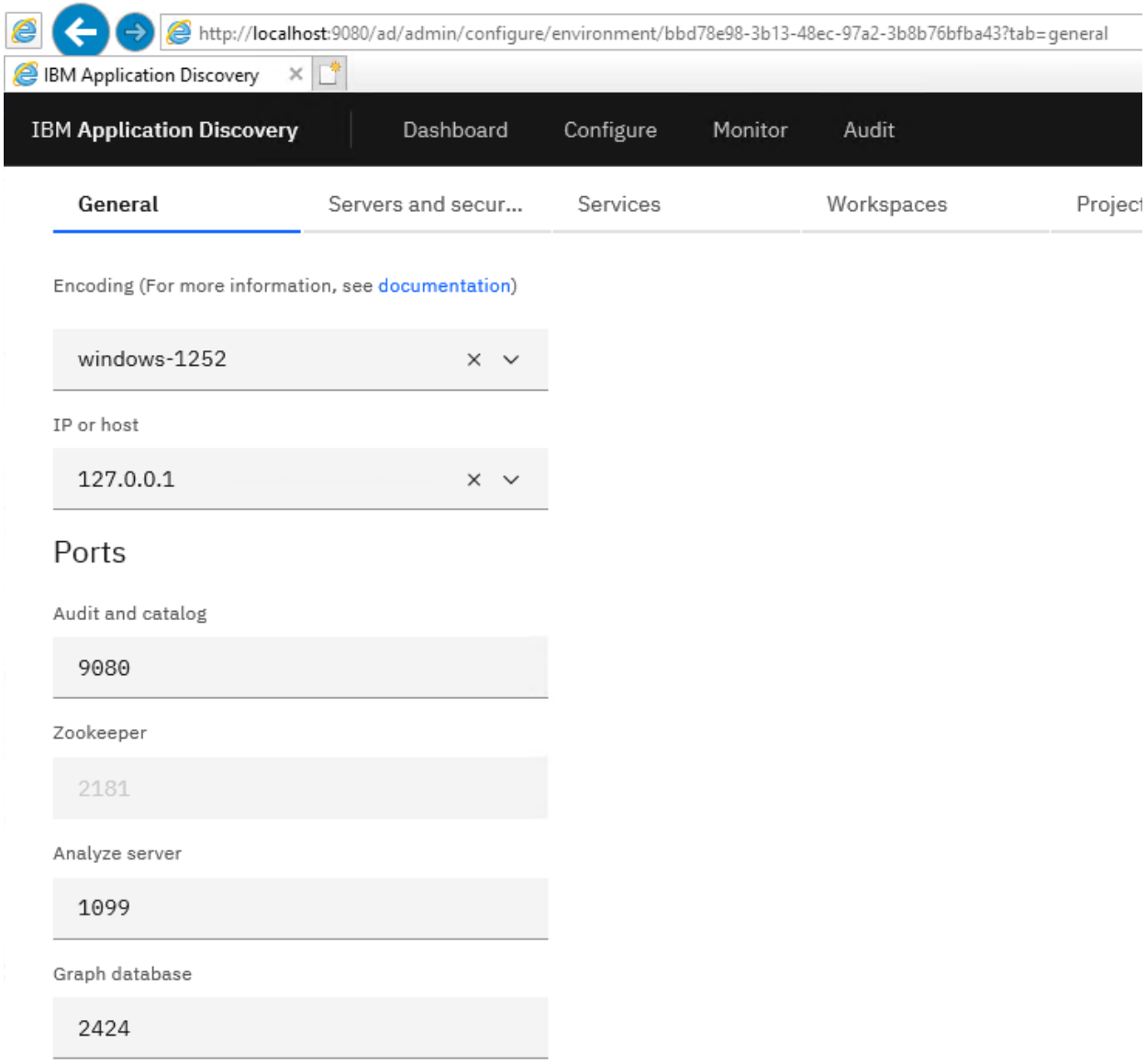
"ENVIROMENT" ALLOWS FOR MULTIPLE AD SERVERS TO BE VIEWED BY CONFIGURATION SERVER.

"ENVIRONMENT" PHYSICALLY SEPARATES AD PROJECTS. (IE. PROJECTS RESIDING ON ONE ENVIRONMENT IS NOT ACCESSIBLE ON A DIFFERENT ENVIRONMENT)

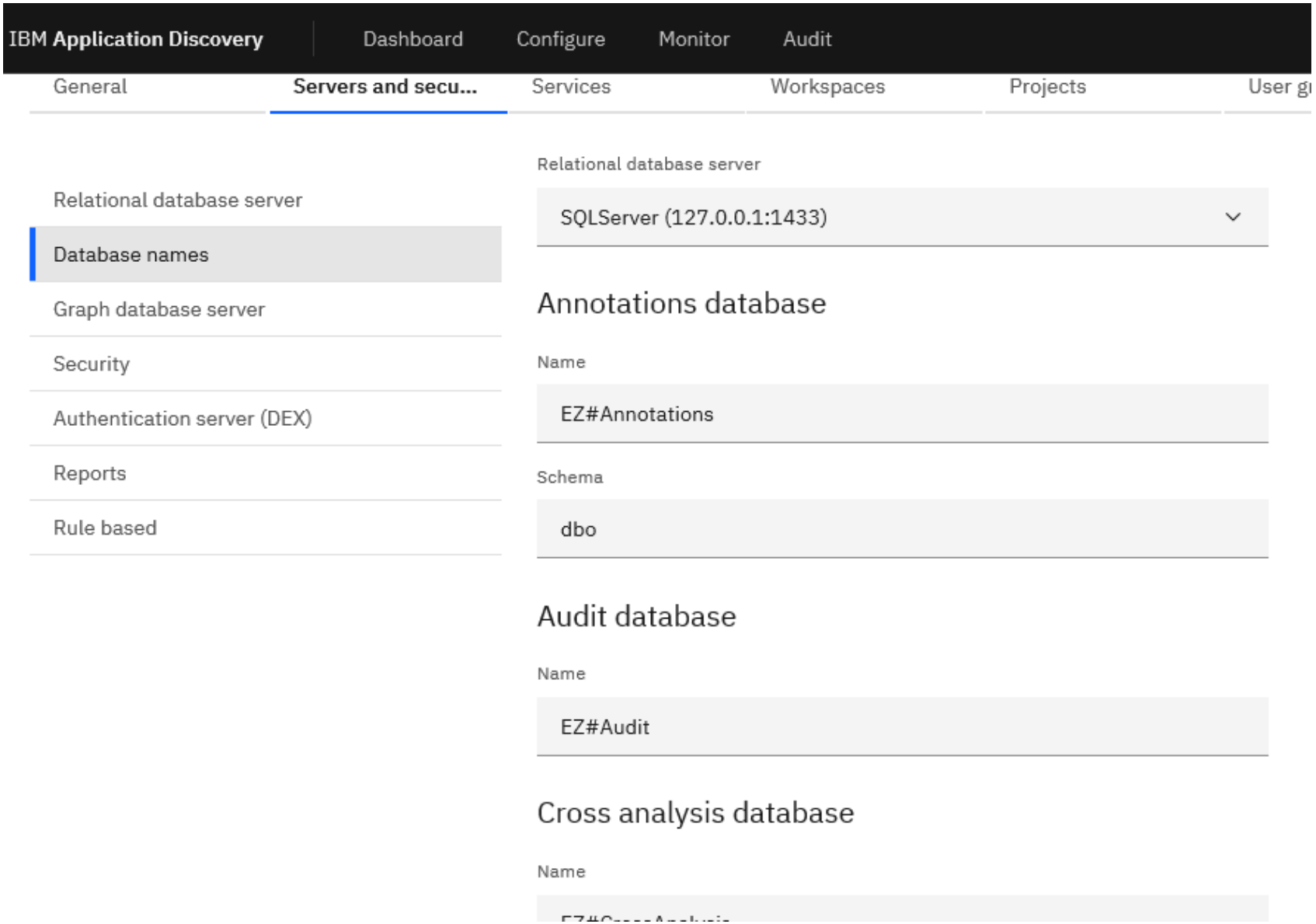
ENVIRONMENT ALLOWS FOR EXPANSION OF AD USAGE.

ENVIRONMENT ID IS USED WHEN CONFIGURING THE ANALYZE CLIENT.

CONFIGURE: GENERAL....THE HOST IP AND PORT NUMBERS

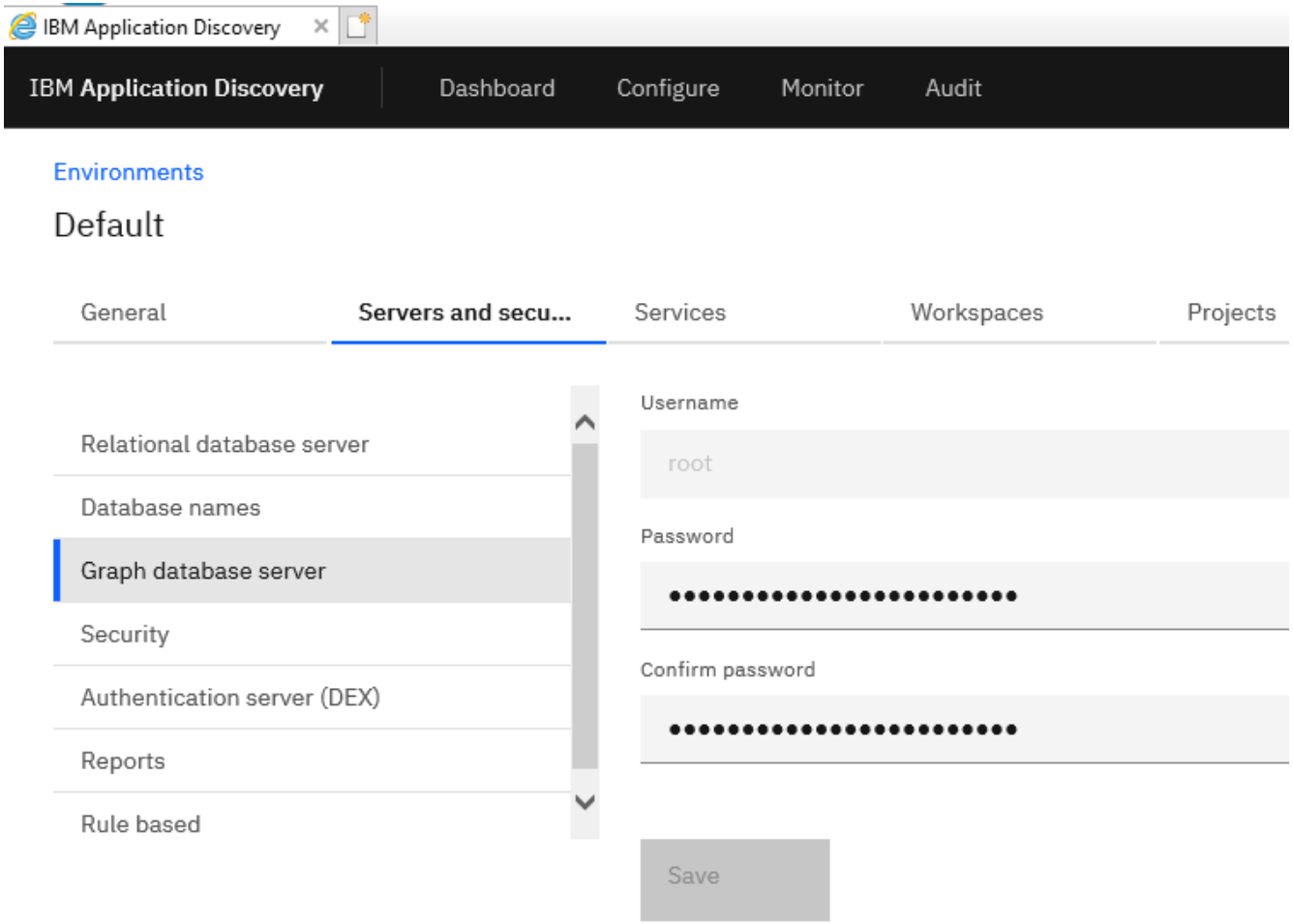


SQL DATABASE SPECIFICATIONS



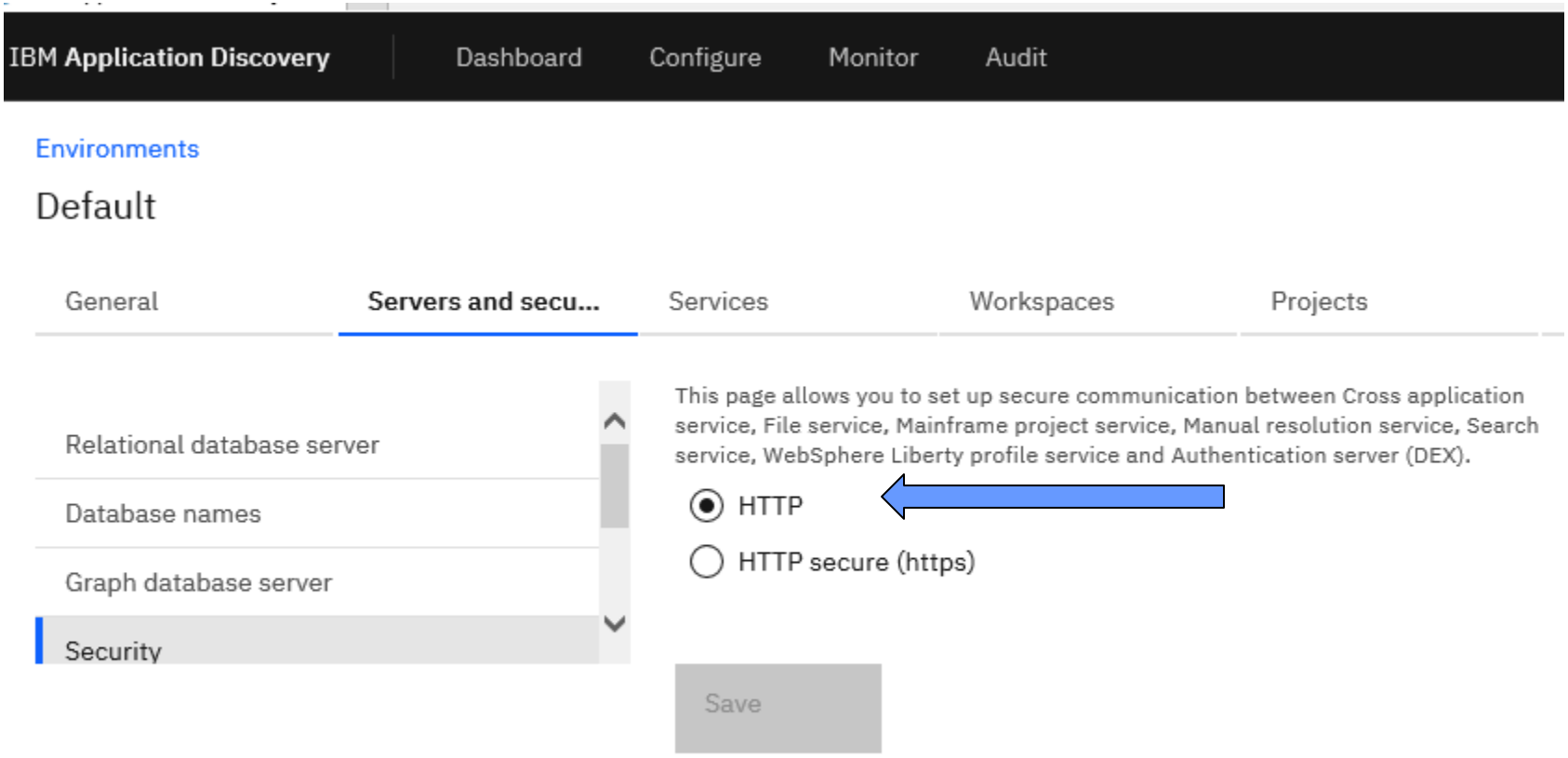
GRAPHICS DATABASE

GRAPHICS DATABASE USAGE ENTAILS SETTING A PASSWORD FOR THE ROOT PASSWORD

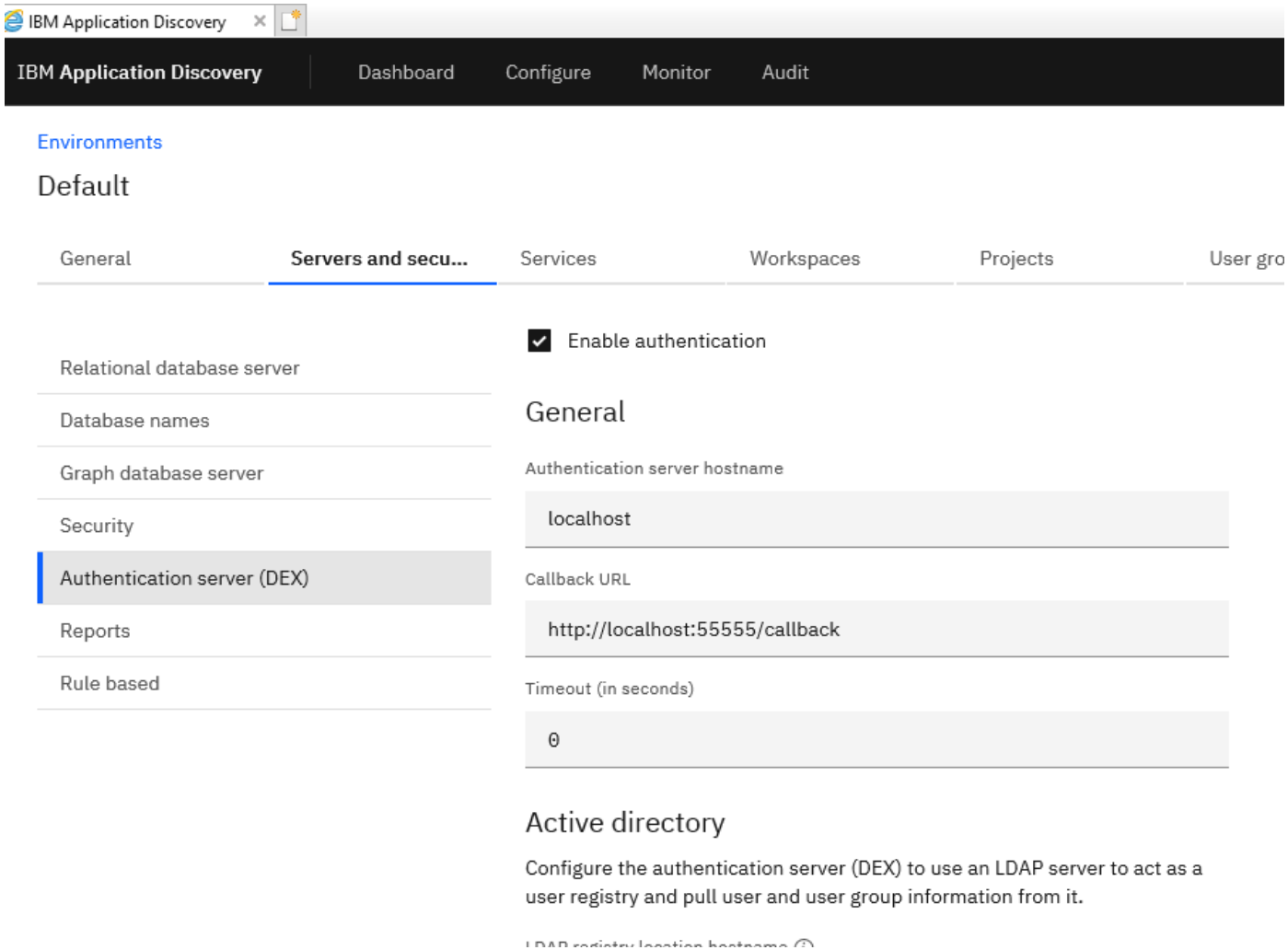


HTTP VS. HTTPS SETUP

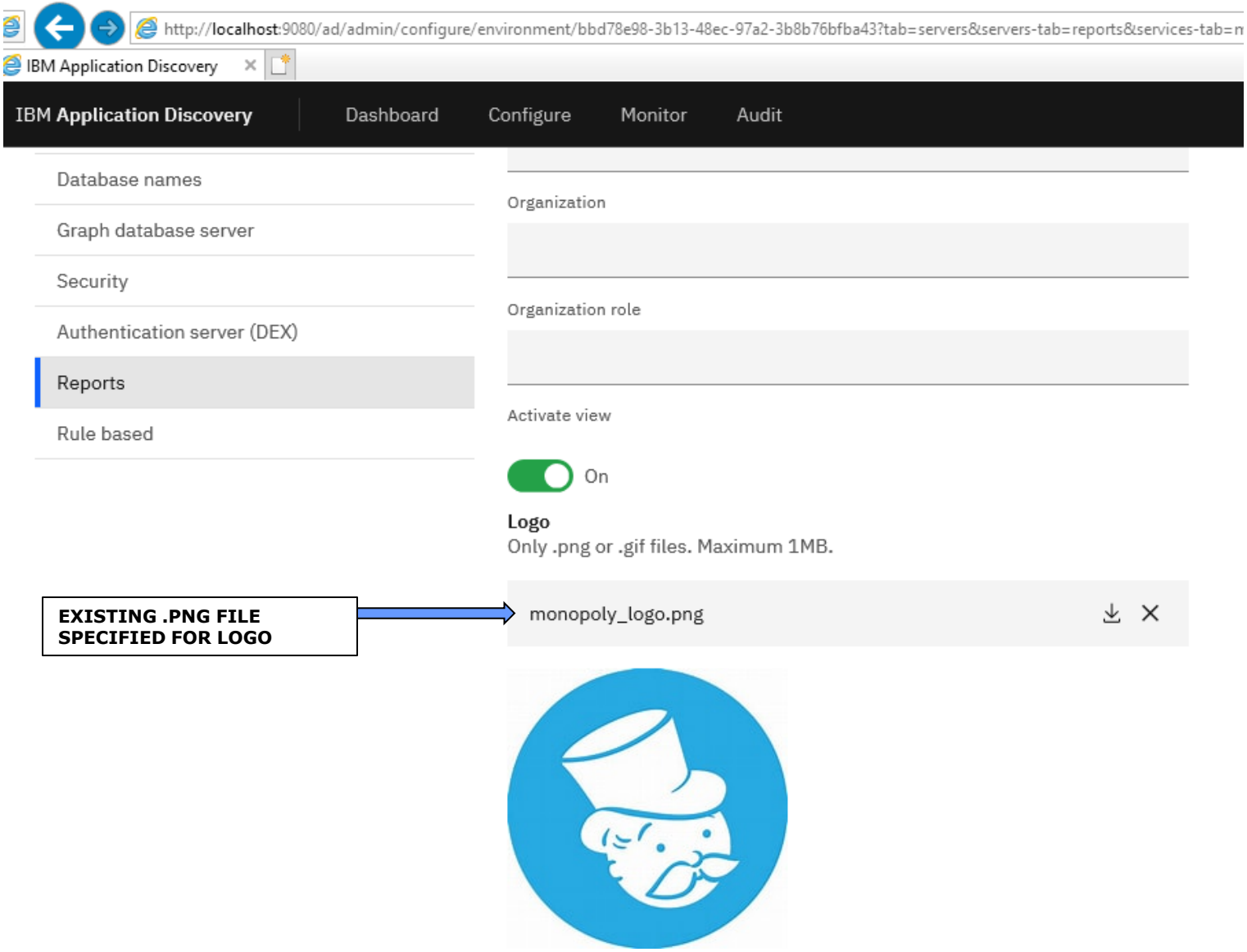
IT is recommended to initially setup ADDI without HTTPS



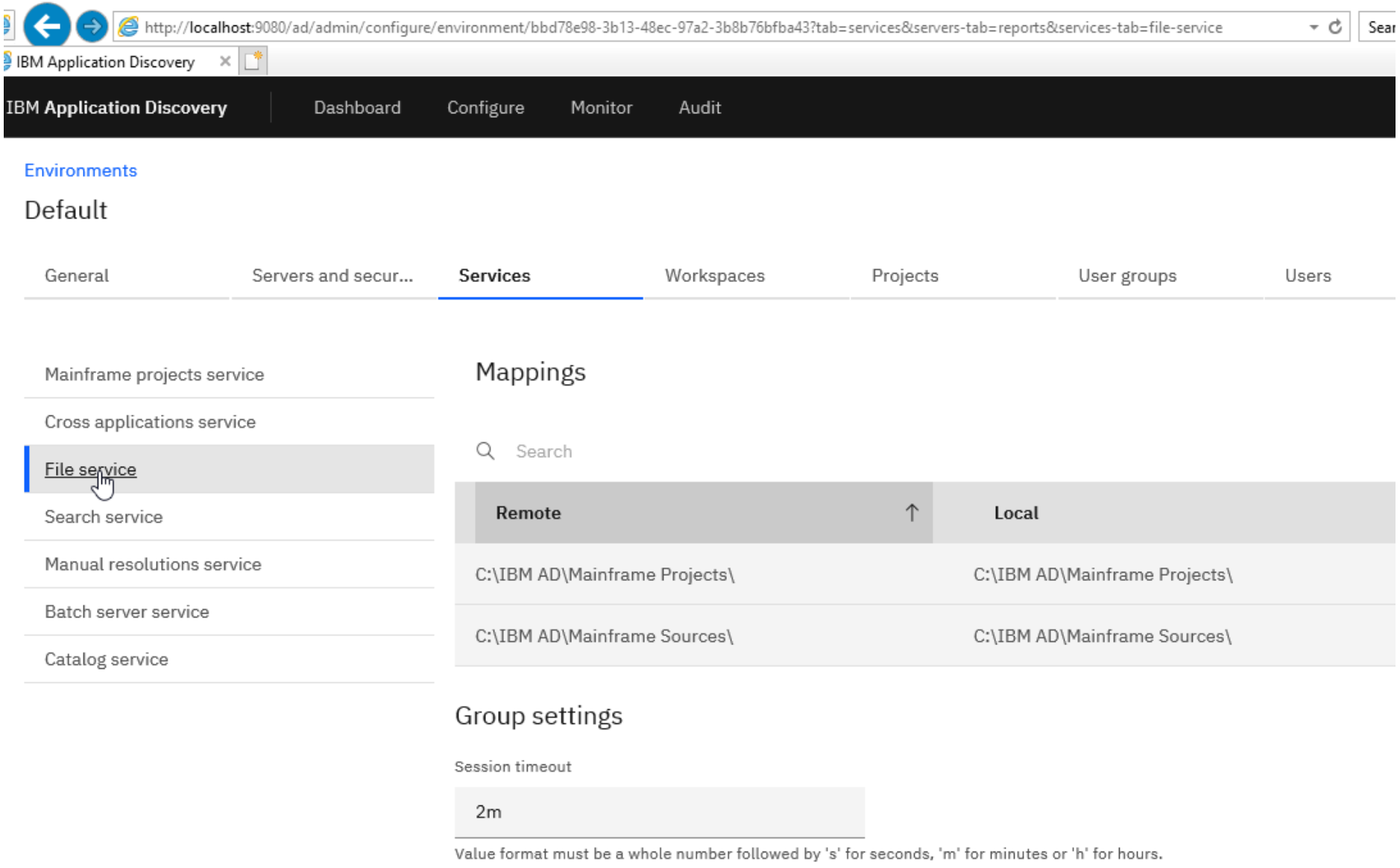
SETUP FOR DEX/OAUTH2



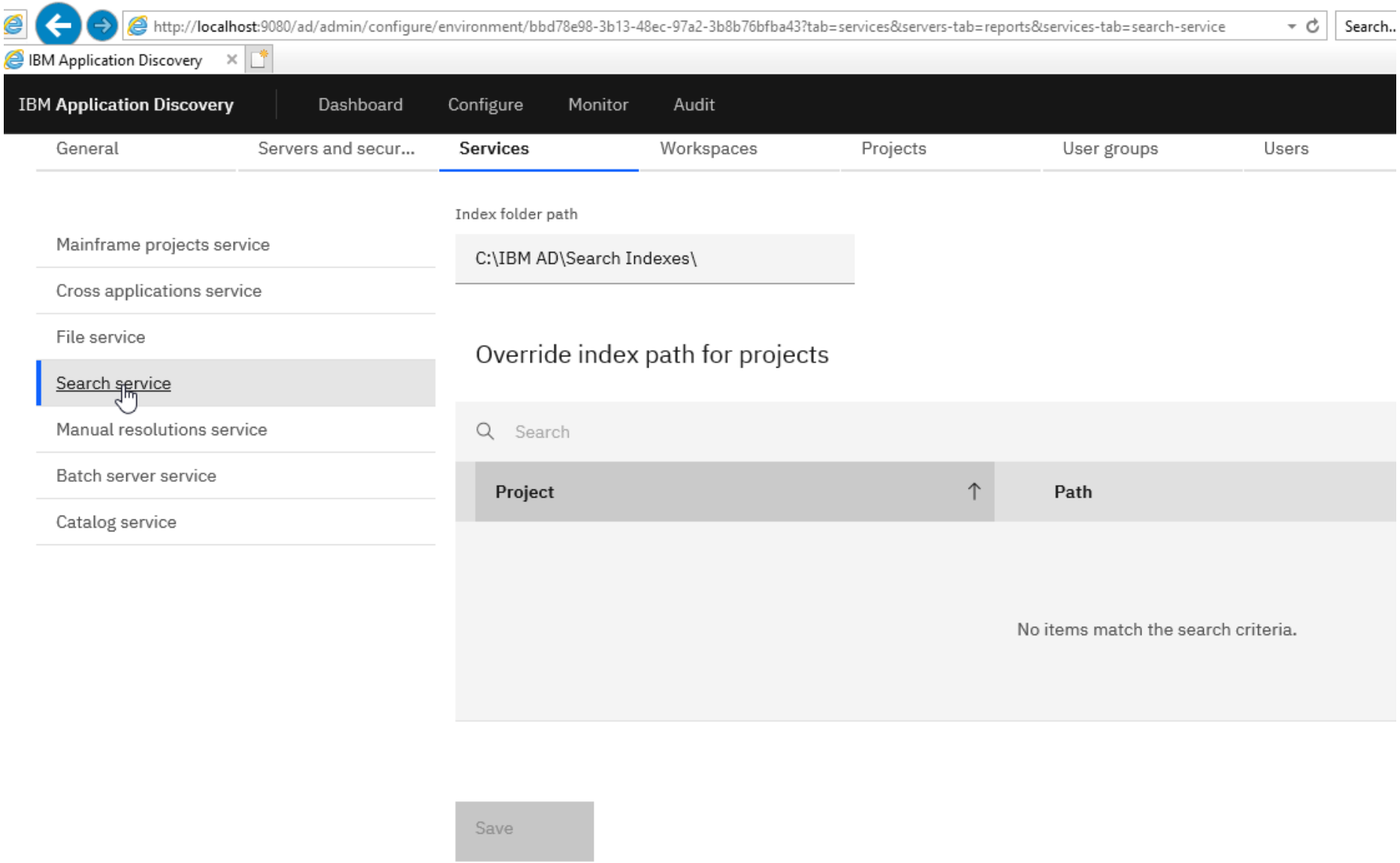
REPORTS CONFIGURATION: SET LOGO FOR REPORT OUTPUT



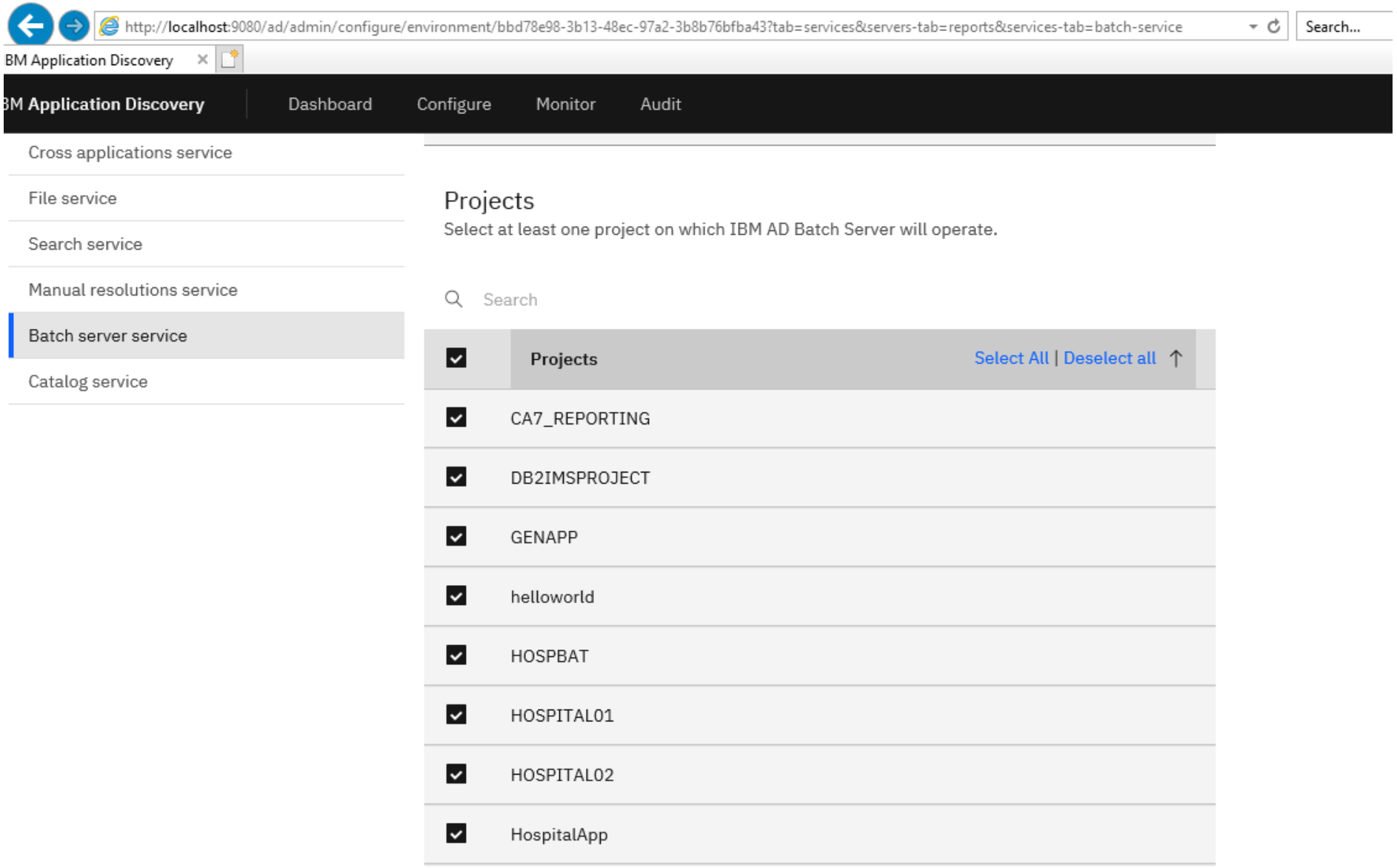
FILE SERVICE: SHARING SOURCE AND PROJECT FOLDERS



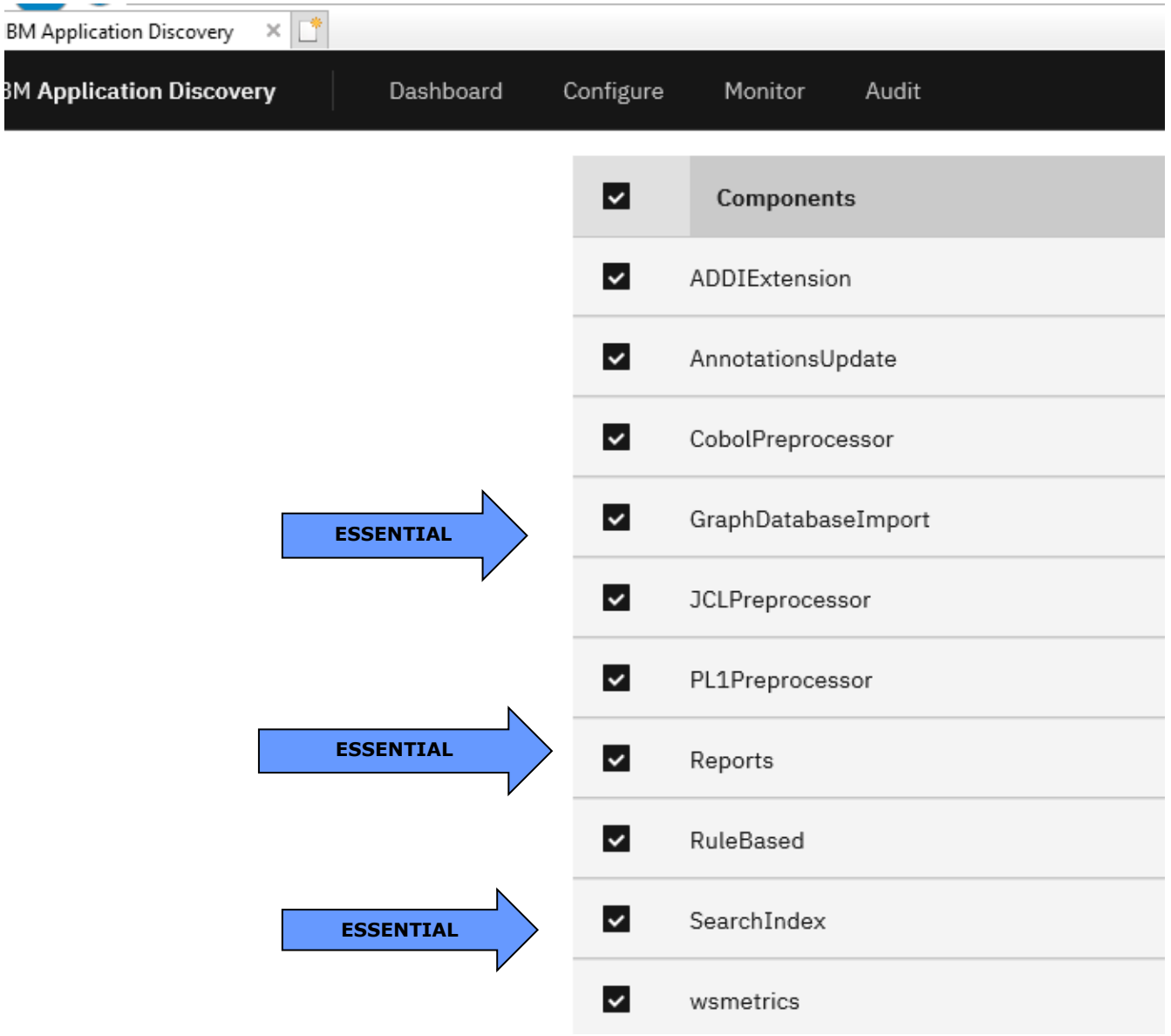
SEARCH SERVICE: SHARED FOLDERS TO MAINTAIN INDEXES



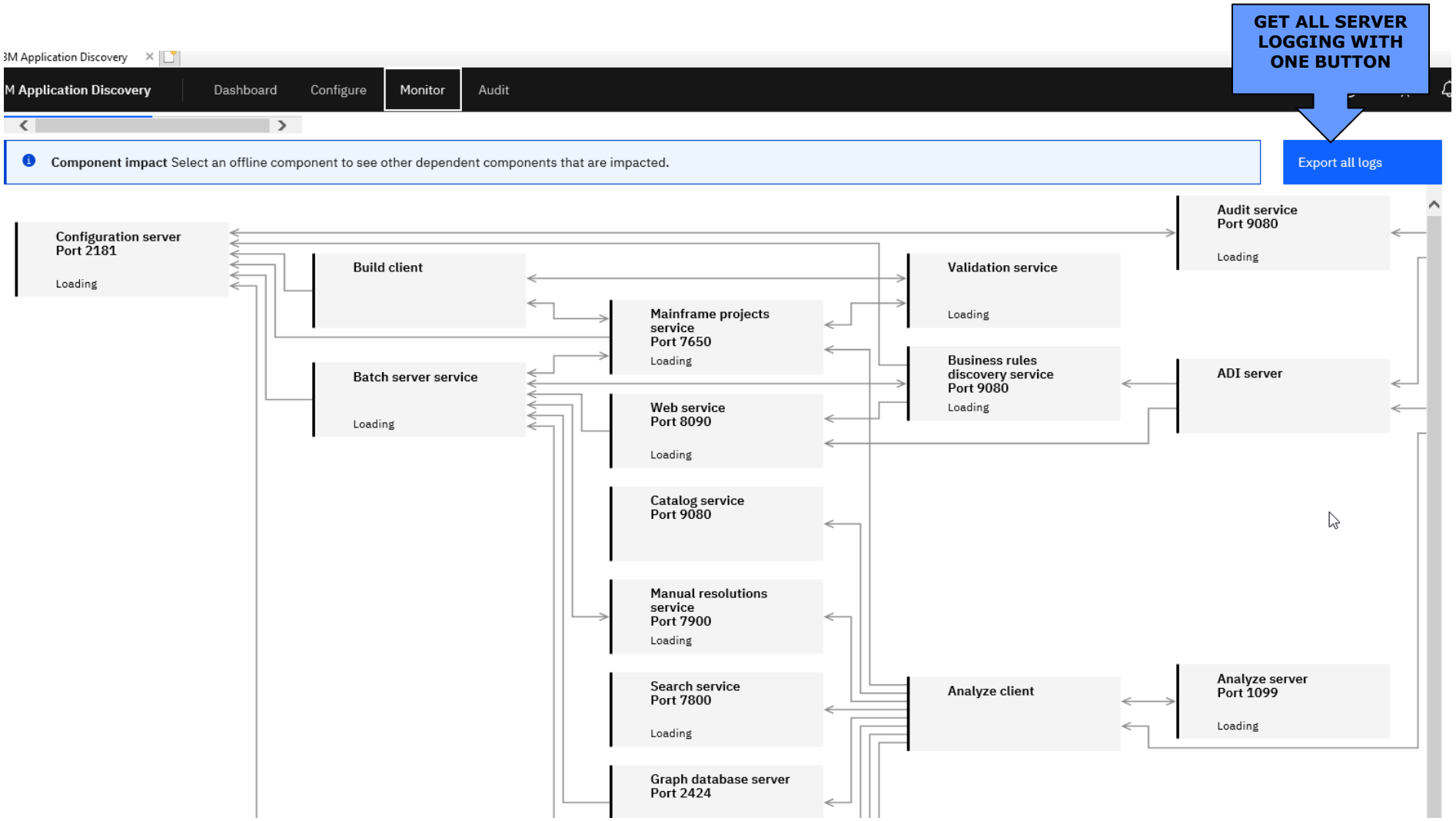
BATCH SERVER: PROJECTS MANAGED



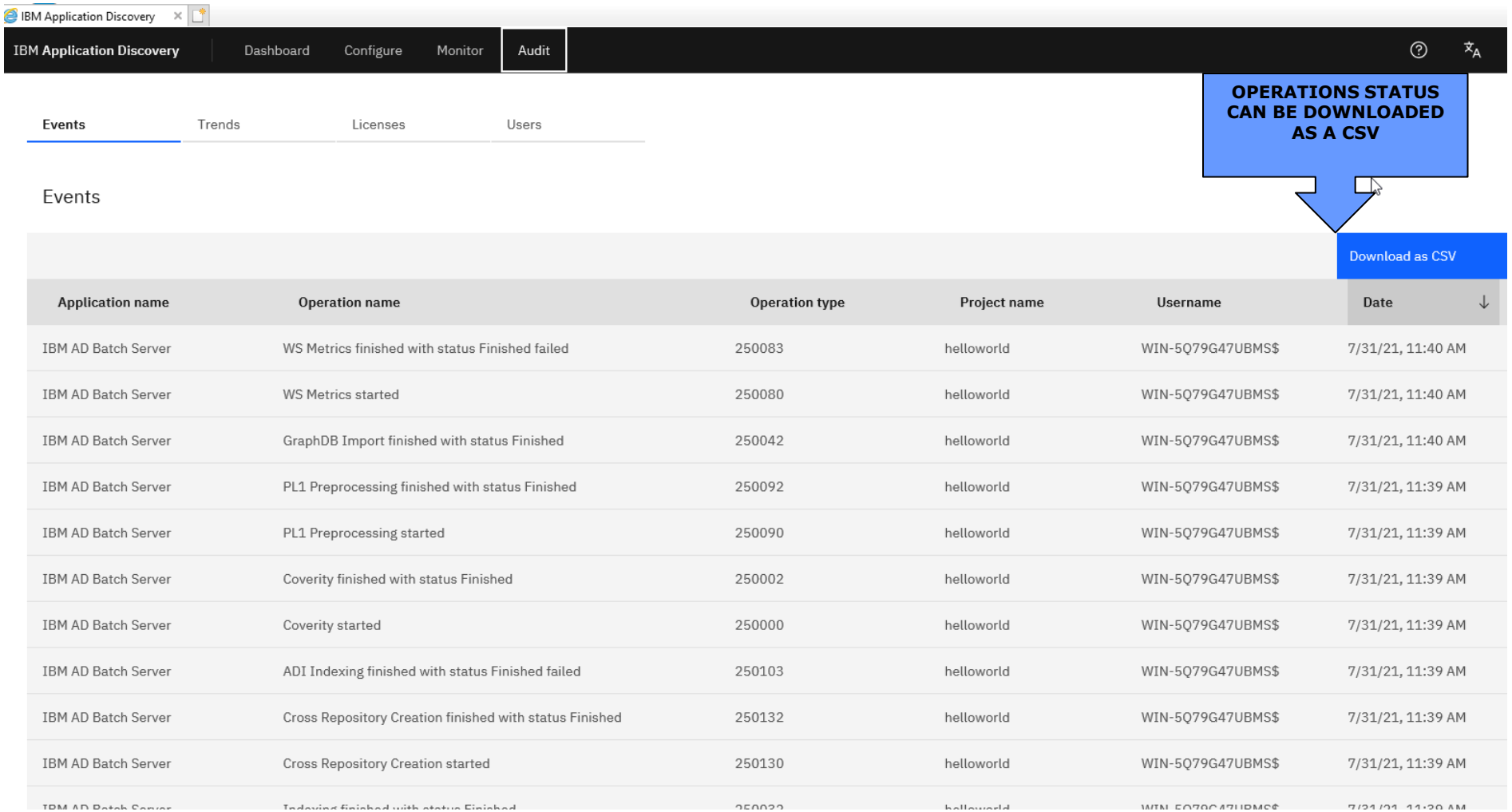
BATCH SERVER: OPTIONS FOR PROCESSING



MONITOR: GET BIG PICTURE OF APPLICATION AND LOGGING



AUDIT



Application name	Operation name	Operation type	Project name	Username	Date
IBM AD Batch Server	WS Metrics finished with status Finished failed	250083	helloworld	WIN-5Q79G47UBMS$	7/31/21, 11:40 AM
IBM AD Batch Server	WS Metrics started	250080	helloworld	WIN-5Q79G47UBMS$	7/31/21, 11:40 AM
IBM AD Batch Server	GraphDB Import finished with status Finished	250042	helloworld	WIN-5Q79G47UBMS$	7/31/21, 11:40 AM
IBM AD Batch Server	PL1 Preprocessing finished with status Finished	250092	helloworld	WIN-5Q79G47UBMS$	7/31/21, 11:39 AM
IBM AD Batch Server	PL1 Preprocessing started	250090	helloworld	WIN-5Q79G47UBMS$	7/31/21, 11:39 AM
IBM AD Batch Server	Coverity finished with status Finished	250002	helloworld	WIN-5Q79G47UBMS$	7/31/21, 11:39 AM
IBM AD Batch Server	Coverity started	250000	helloworld	WIN-5Q79G47UBMS$	7/31/21, 11:39 AM
IBM AD Batch Server	ADI Indexing finished with status Finished failed	250103	helloworld	WIN-5Q79G47UBMS$	7/31/21, 11:39 AM
IBM AD Batch Server	Cross Repository Creation finished with status Finished	250132	helloworld	WIN-5Q79G47UBMS$	7/31/21, 11:39 AM
IBM AD Batch Server	Cross Repository Creation started	250130	helloworld	WIN-5Q79G47UBMS$	7/31/21, 11:39 AM

PROJECTS

Environments

Default

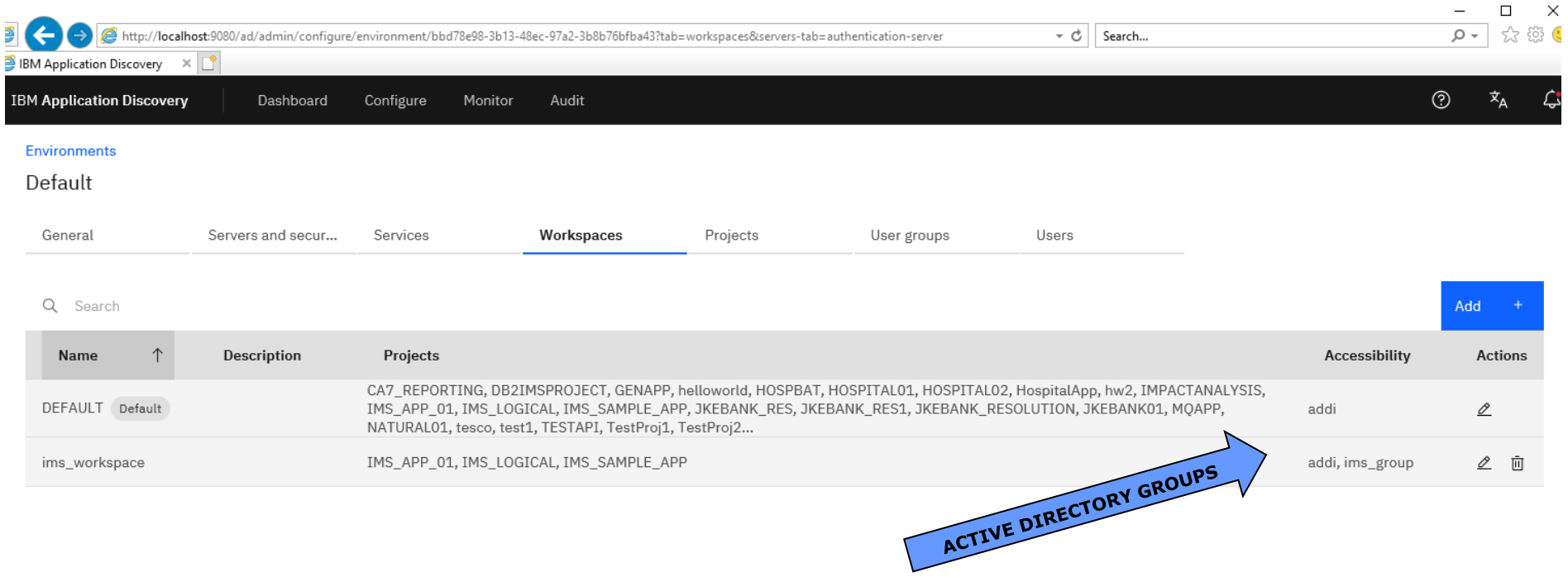
General | Servers and secur... | Services | Workspaces | **Projects** | User groups | Users

Search

Project name	Description	Project type	Local project path	Relational database name	Business rules discovery	Cross applicatio
CA7_REPORTING		mainframe	C:\IBM AD\Mainframe Projects\CA7_REPORTING	EZ_CA7_REPORTING	Disabled	Disabled
DB2IMSPROJECT		mainframe	C:\IBM AD\Mainframe Projects\DB2IMSPROJECT	EZ_DB2IMSPROJECT	Disabled	Disabled
GENAPP		mainframe	C:\IBM AD\Mainframe Projects\GENAPP	EZ_GENAPP	Disabled	Enabled
helloworld		mainframe	C:\IBM AD\Mainframe Projects\helloworld	EZ_helloworld	Disabled	Disabled
HOSPBAT		mainframe	C:\IBM AD\Mainframe Projects\HOSPBAT	EZ_HOSPBAT	Enabled	Enabled
HOSPITAL01		mainframe	C:\IBM AD\Mainframe Projects\HOSPITAL01	EZ_HOSPITAL01	Enabled	Enabled
HOSPITAL02		mainframe	C:\IBM AD\Mainframe Projects\HOSPITAL02	EZ_HOSPITAL02	Enabled	Enabled

WORKSPACES: LOGICAL MANAGE PROJECT ACCESS

WINDOW ACTIVE DIRECTORY USERS WITH GROUP ACCESS TO ADDI CAN ACCESS ALL PROJECTS.
WINDOW ACTIVE DIRECTORY USERS WITH GROUP ACCESS IMS_GROUP CAN ONLY ACCESS PROJECTS IN IMS_WORKSPACE



Cleaning up the OrientDB database

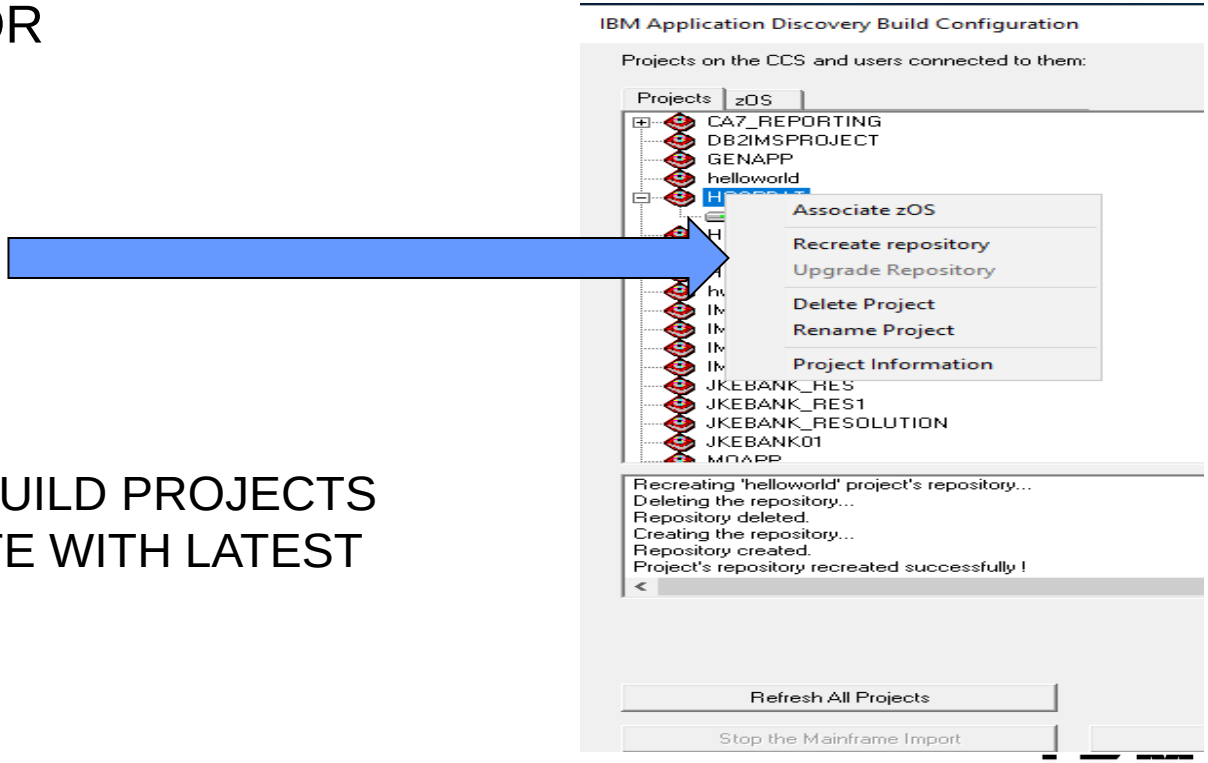
- **About this task**
  - The OrientDB Maintenance script can be used to clean up the OrientDB database. The script identifies the
  - OrientDB databases that are not longer referenced by the symbolic links and deletes them. The
  - OrientDBDatabaseMaintenance-*x.x*.bat script is located in the <IBM ADDI Installation
  - Folder>\support\OrientDBDatabaseMaintenance\ folder.
  - **Note:** For security reasons, the deletion steps are commented (REM) at lines 255 and 257.
- **Procedure**
  - 1. Go to <IBM ADDI Installation Folder>\support\OrientDBDatabaseMaintenance\ folder
  - and run the OrientDBDatabaseMaintenance-*x.x*.bat script.
  - 2. If unnecessary database folders are found, use option Y (Yes) to remove all unused database
  - folders.
  - 3. Check the logs under the C:\ADlogs\BatchServer\orientdb\MaintenanceLogs\ folder to
  - review any database folder name that was removed.
- **Results**
  - All unused database folders are removed

UPGRADING APPLICATION DISCOVERY

RERUN INSTALLATION SCRIPT TO REPLACE MAINTAINED CODE

REINSTALL NEW ECLIPSE PLUG-IN, AND CONFIGURE ANALYZE CLIENT

REPOSITORY IS LIKELY UPDATED IN TERMS FOR NEW FIELDS IN EXISTING TABLES AND NEW TABLES. REPOSITORY UPGRADE DONE IN BUILD CONFIGURATOR



CUSTOMER SHOULD REBUILD PROJECTS TO CORRECTLY POPULATE WITH LATEST REPOSITORY

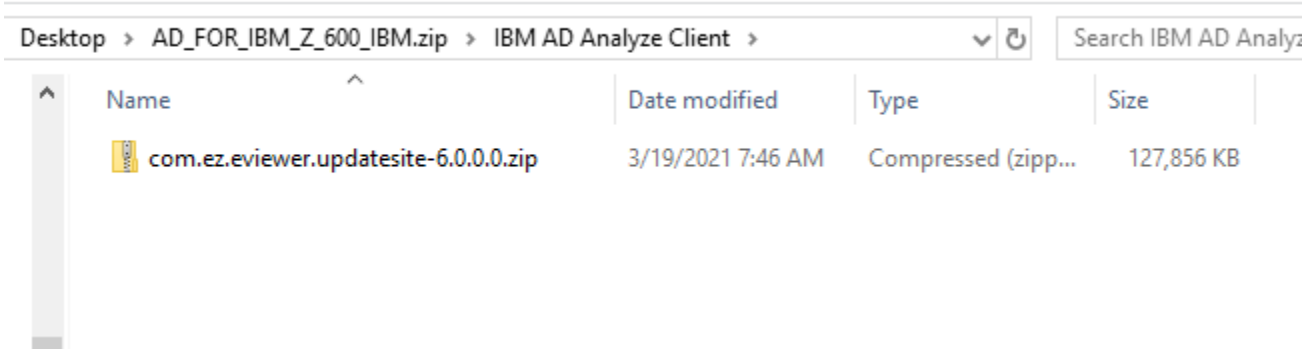
UNLOCK TRIAL VERSION OF APPLICATION DISCOVERY

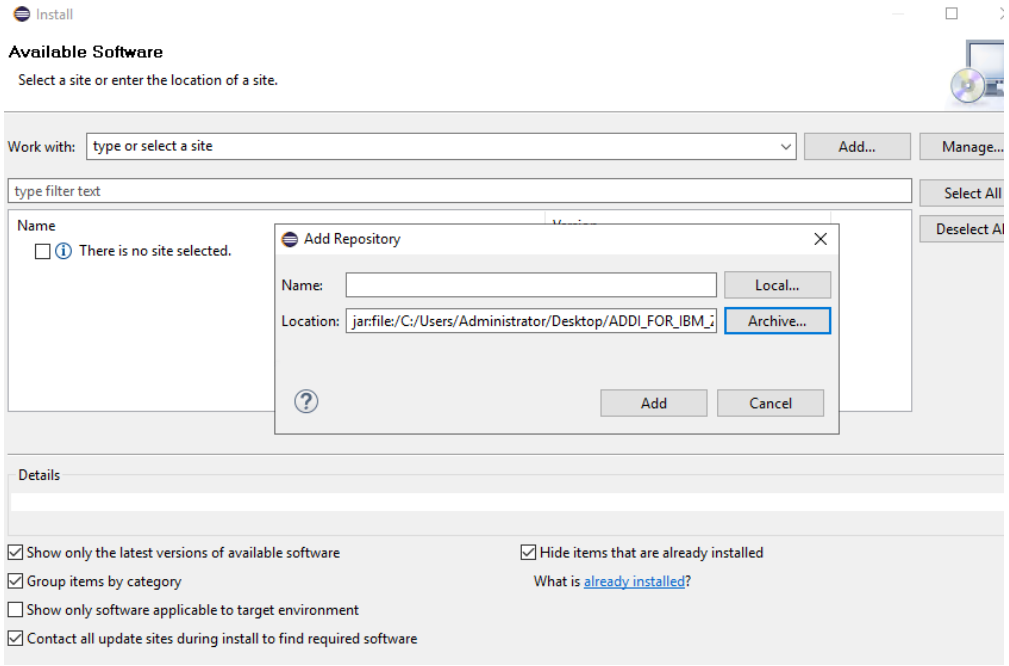
INSTALLATION IS INITIALLY LIMITED TO 5 PROJECTS

LICENSED CUSTOMER CAN DOWNLOAD "ACTIVATION KIT" FROM PASSPORT ADVANTAGE

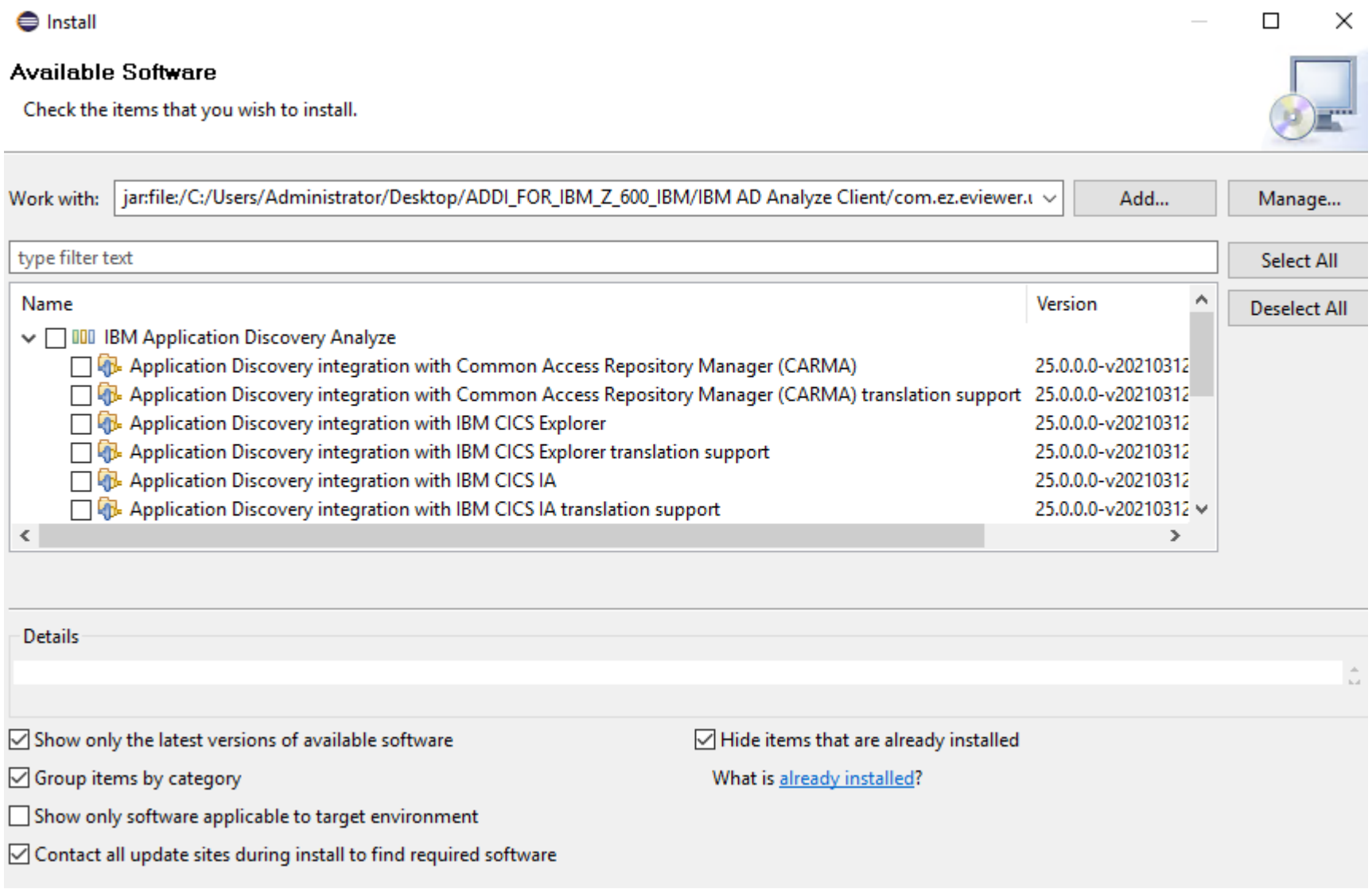
RUN **ADACTIVATION.EXE** IN ADMINISTRATION MODE

ANALYZE CLIENT ECLIPSE PLUGIN

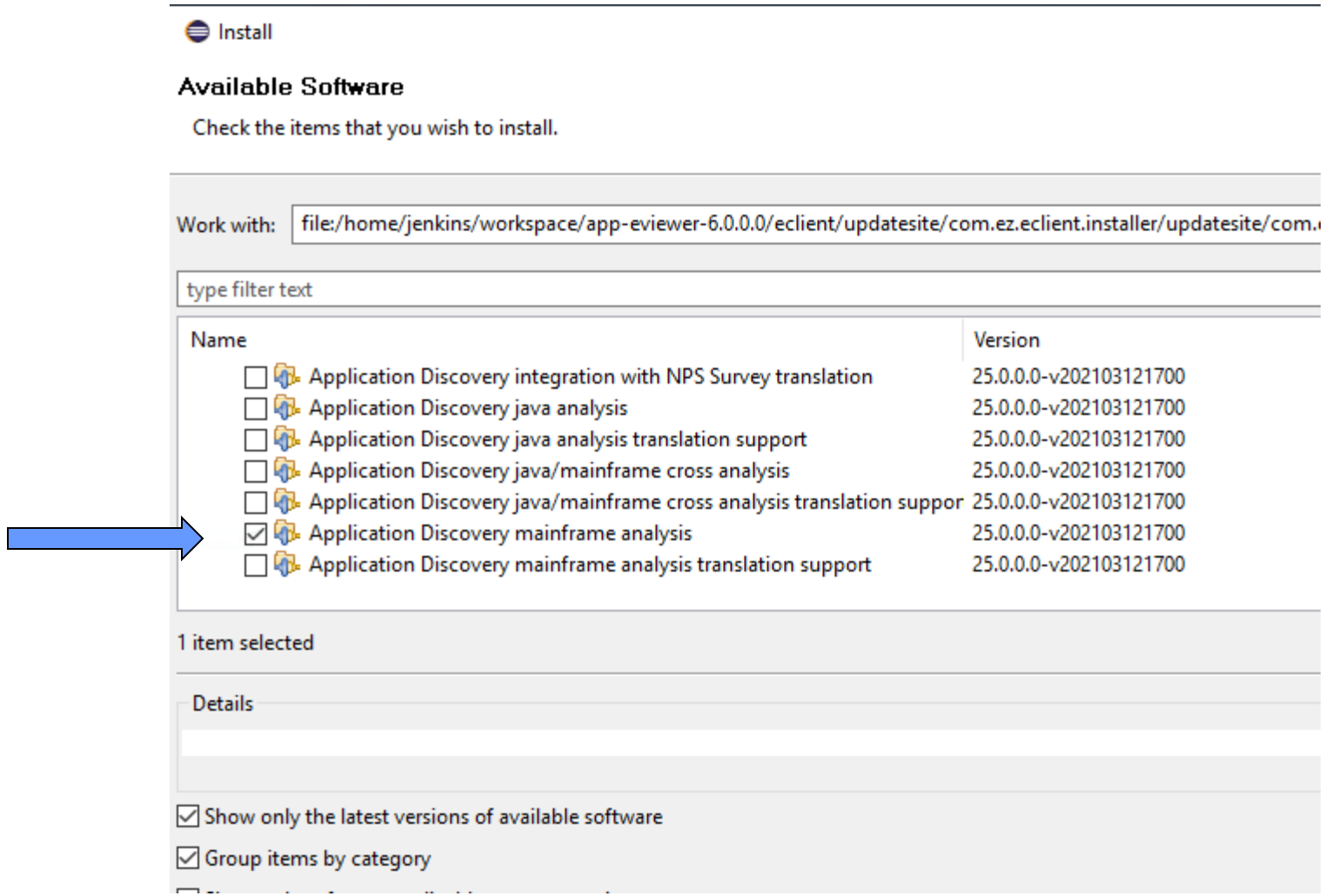




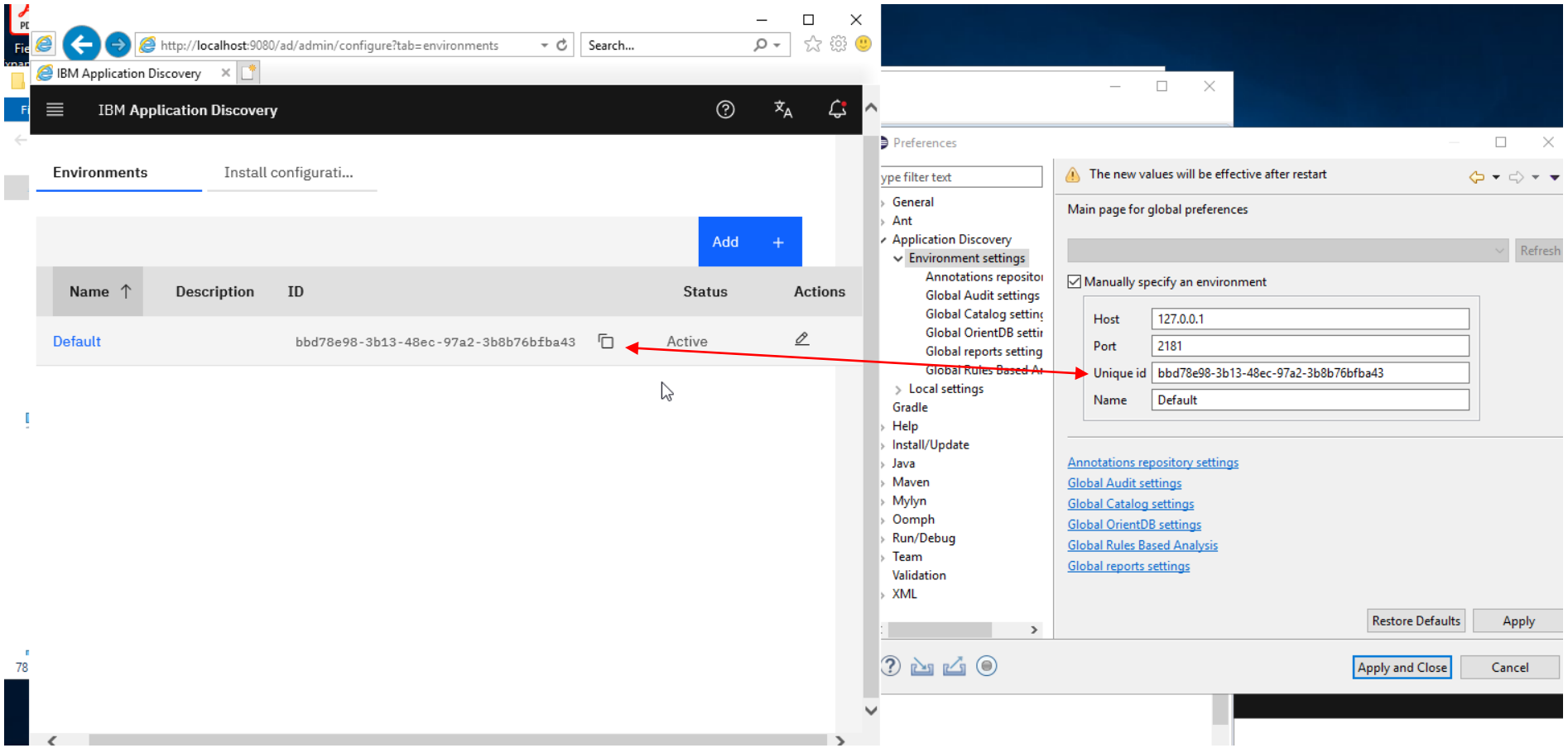
COMPONENTS IN PLUGIN: SELECT



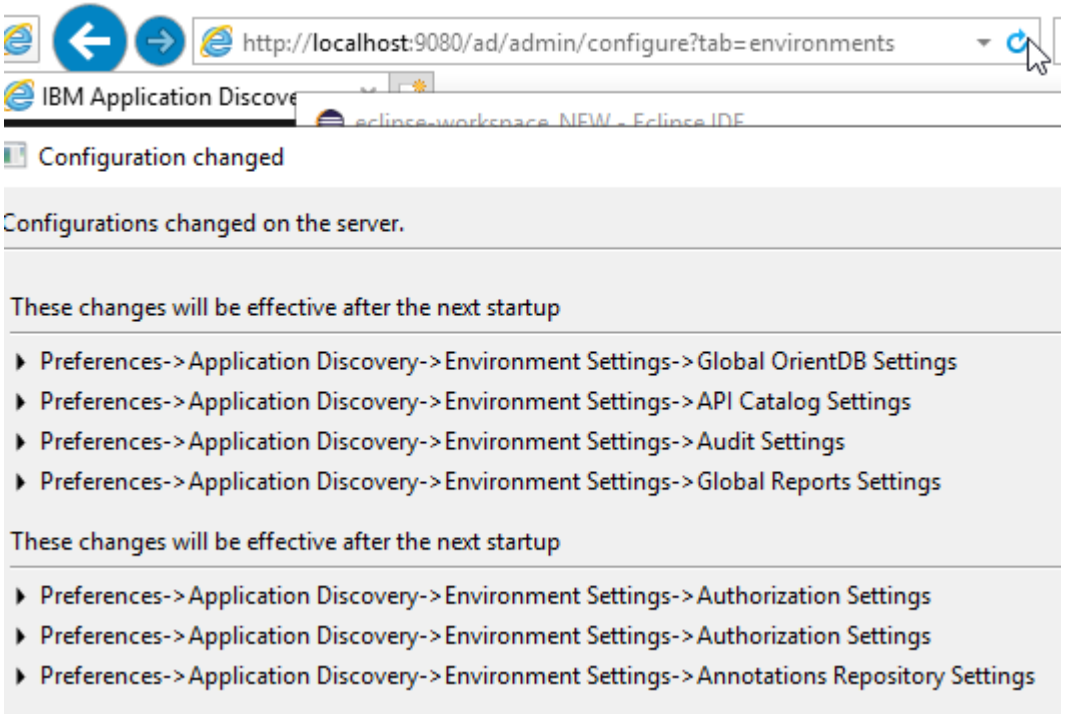
SELECT MAINFRAME ANALYSIS



UPDATE ANALYZE CLIENT WITH ENVIRONMENT ID/NAME, HOST, PORT

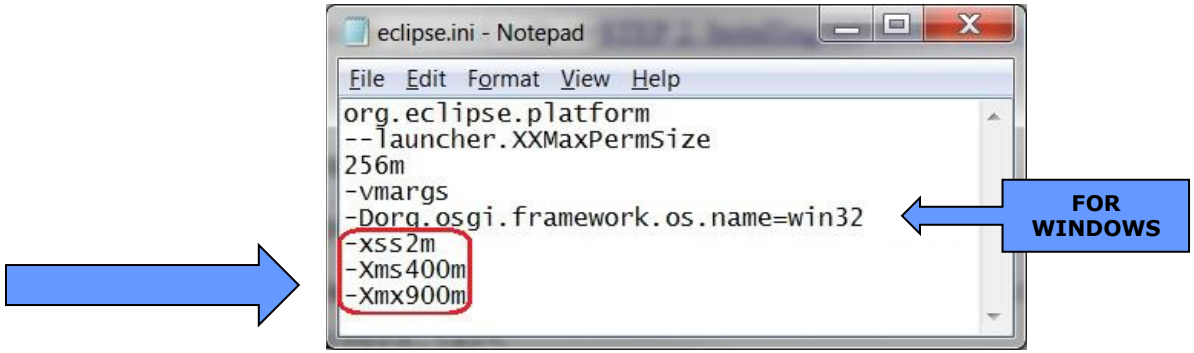


ANALYZE CLIENT RESTART SHOWS UPDATE TO PREFERENCES



ECLIPSE.INI FILE UPDATES

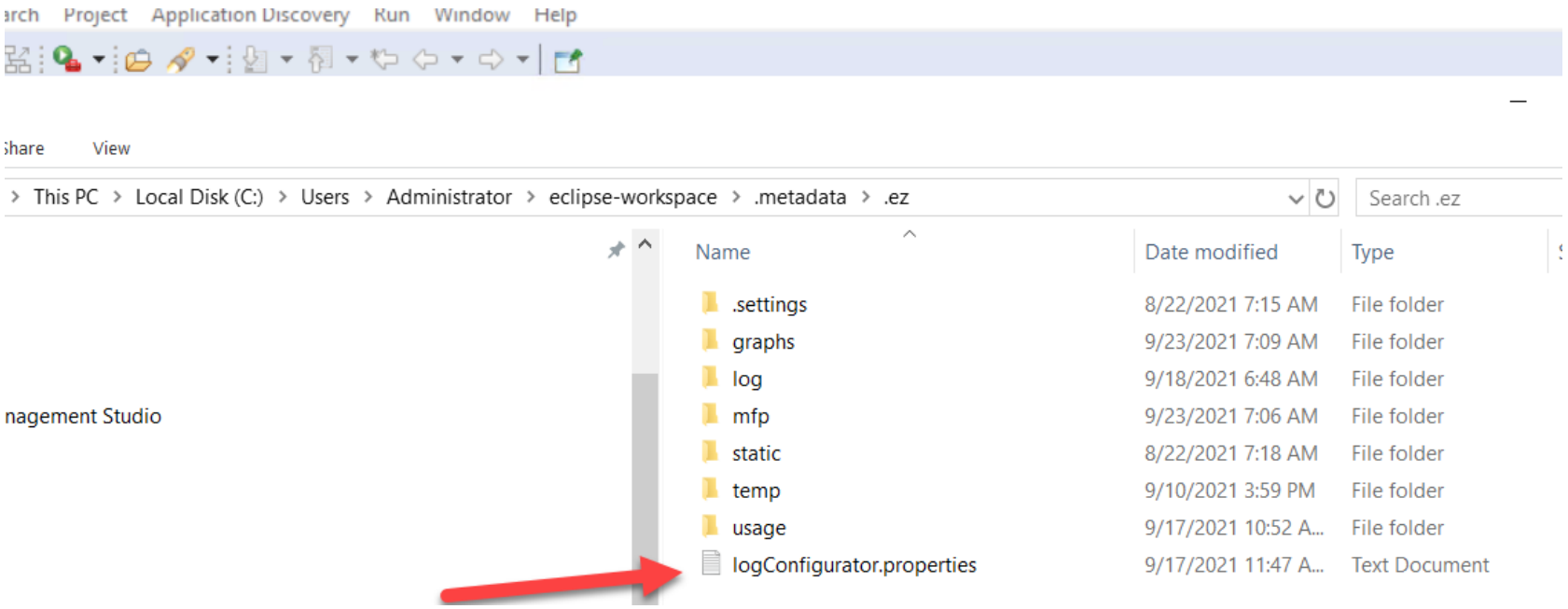
THESE ARE THE ESSENTIAL UPDATES



REFER TO AD USERS GUIDE FOR MORE DETAILS.

DEBUGGING ANALYZE CLIENT....LOGGING FOR IBM LEVEL 2 SUPPORT

- IBM LEVEL 2 SUPPORT NEEDS TO ENSURE ALL ANALYZE CLIENT DIAGNOSTICS BE SAVED TO A SINGLE LOG FILES
- IN FOLDER:



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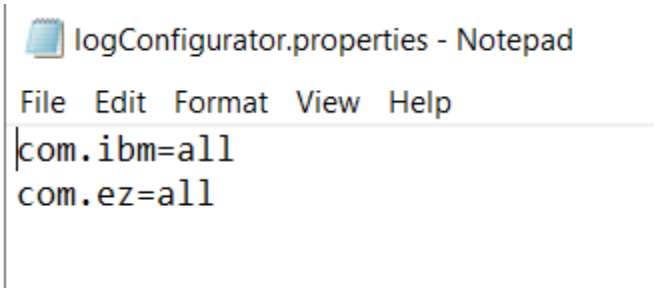
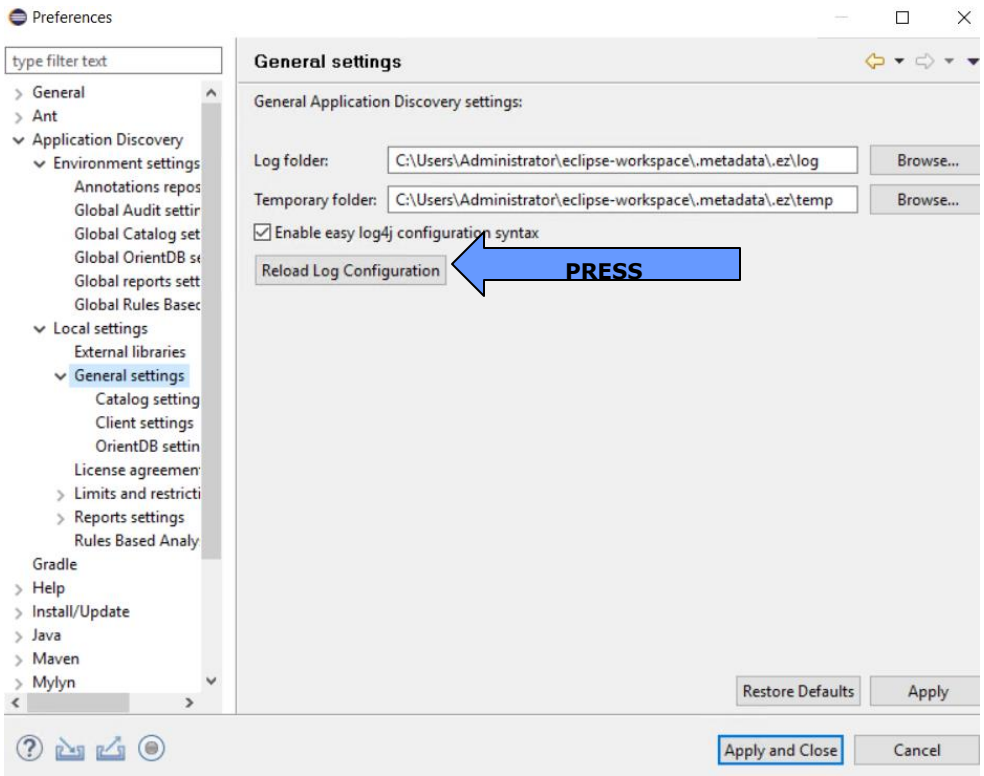
- LogConfiguration.properties

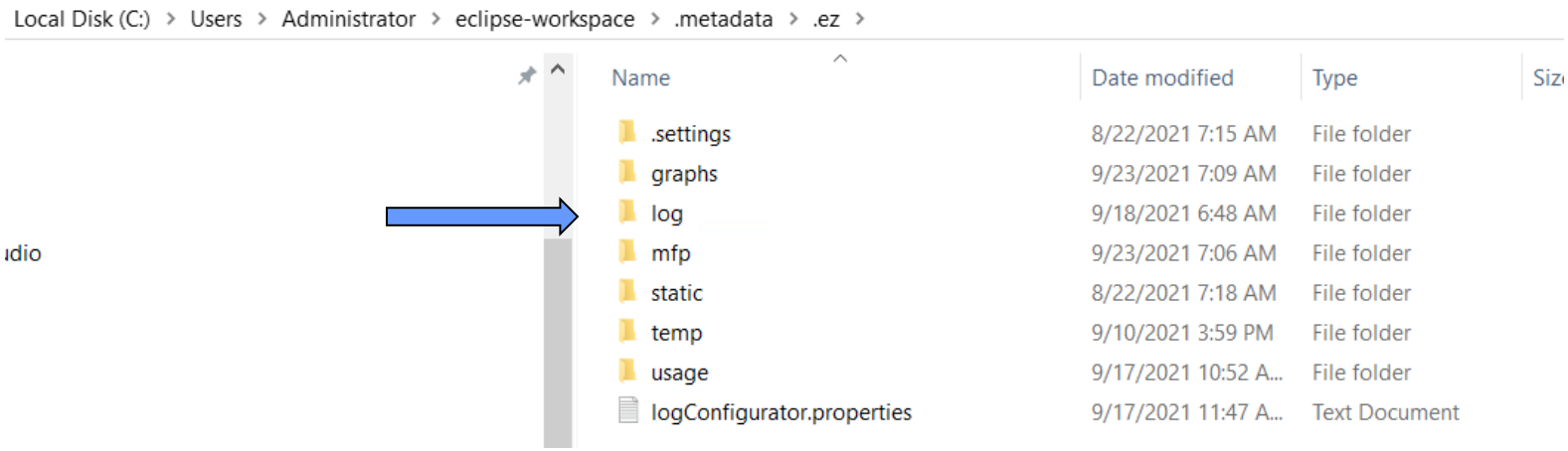


- IN AD ECLIPSE PREFERENCES:



WHAT TO SUBMIT TO IBM LEVEL 2 SUPPORT

.log file This has logging for the ECLIPSE/IDz environment
example: C:\Users\Administrator\eclipse-workspace\.metadata\.log
.log file is to be submitted to IBM Support

log folder containing ez.log file and other ADDI configuration settings via zip
example: C:\Users\Administrator\eclipse-workspace\.metadata\.ez

zip .ez folder for submission to IBM Support
.... note that ez.log file is contained in log folder below (blue arrow)