

How: Connect to mainframe in local pc using Hercules



Trainool

This document explains how we can connect to mainframe
in local pc using Hercules emulator

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Installing Hercules to connect to Mainframe server

Step1: Download ZOS "IBM ZOS 1.10" from one of the below link

This is application developer control distribution 'ADCD' image files. This is copyright material so you have to get this from the developer of this application. I will advise you to get this copyright material from IBM.

Search in Google as below:



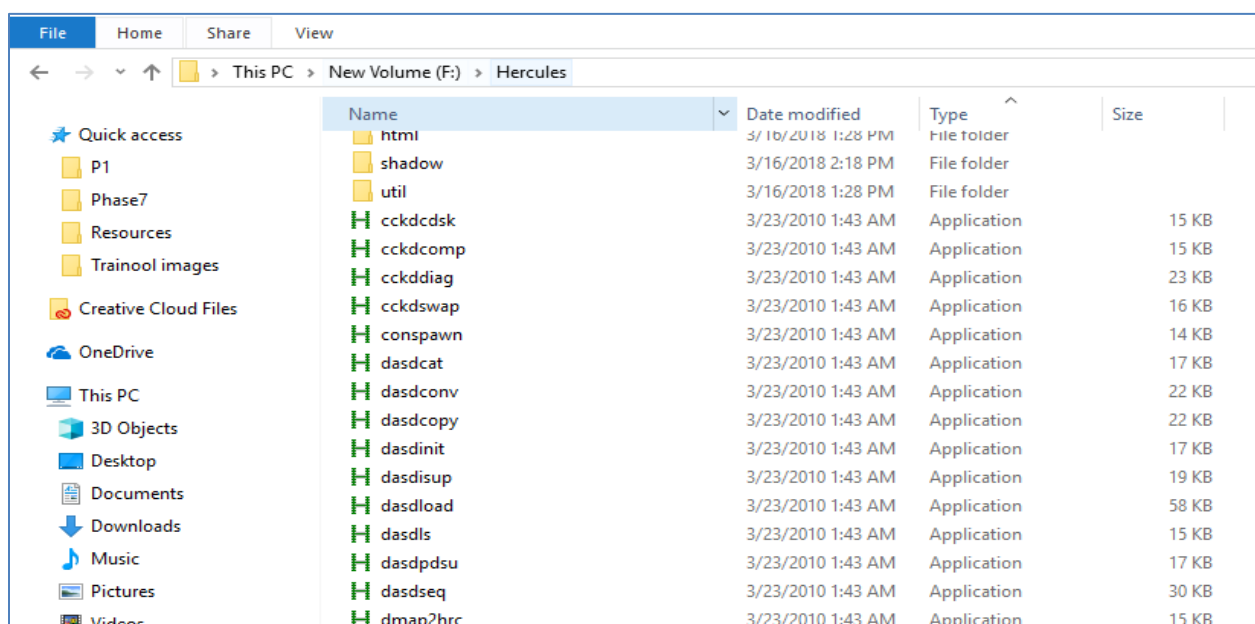
Link is - <https://www-03.ibm.com/systems/z/os/zos/tools/downloads/>

Note: Some of the external links and torrent link might give you this ZOS but I will not advice using zos unofficially as they are copyrighted so a better way is to check with IBM about this.

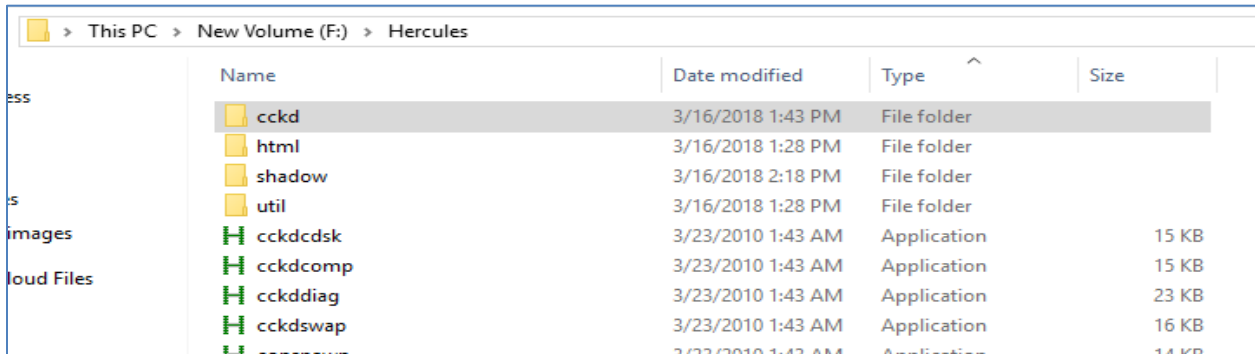
If you purchased this with IBM, It is a 16 GB file so downloading this might take some time.

Step2: Install Hercules (<http://www.hercules-390.eu>)

I prefer to install hercules-3.13-w64.zip: 64-bit binaries only archive for Windows as it contains the reloadable run time version of Hercules.

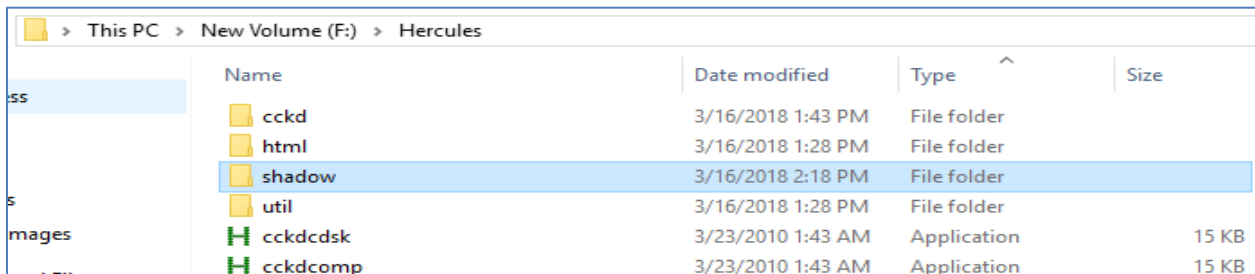


Step3: Copy this ZOS folder inside Hercules (i.e. F:\Hercules) and name this folder as cckd



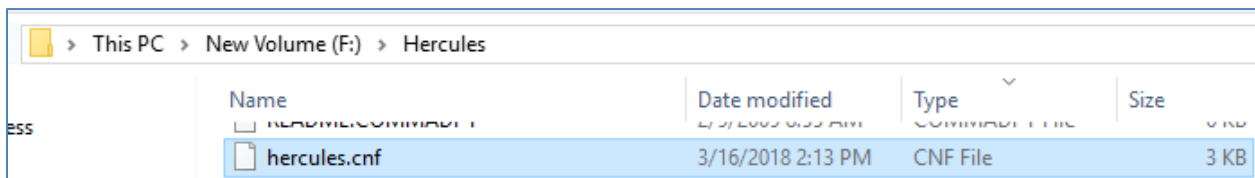
Name	Date modified	Type	Size
cckd	3/16/2018 1:43 PM	File folder	
html	3/16/2018 1:28 PM	File folder	
shadow	3/16/2018 2:18 PM	File folder	
util	3/16/2018 1:28 PM	File folder	
cckdcchk	3/23/2010 1:43 AM	Application	15 KB
cckdcomp	3/23/2010 1:43 AM	Application	15 KB
cckddiag	3/23/2010 1:43 AM	Application	23 KB
cckdswap	3/23/2010 1:43 AM	Application	16 KB
cckdswap	3/23/2010 1:43 AM	Application	14 KB

Step4: Create another folder in Hercules folder and name this folder as 'shadow'.



Name	Date modified	Type	Size
cckd	3/16/2018 1:43 PM	File folder	
html	3/16/2018 1:28 PM	File folder	
shadow	3/16/2018 2:18 PM	File folder	
util	3/16/2018 1:28 PM	File folder	
cckdcchk	3/23/2010 1:43 AM	Application	15 KB
cckdcomp	3/23/2010 1:43 AM	Application	15 KB

Step5: Download the Hercules Configuration file (Hercules.cnf) from the link - <http://www.hercules-390.eu/hercconf.html> and copy it inside the 'Hercules' folder as below:



Name	Date modified	Type	Size
hercules.cnf	3/16/2018 2:13 PM	CNF File	3 KB

Note: If Hercules.cnf file is already present inside your Hercules folder then replace it with this new file which you can copy from the link which I gave above.

If you are not sure whether you have the correct Hercules.cnf file or not, use this attached file –



hercules.cnf

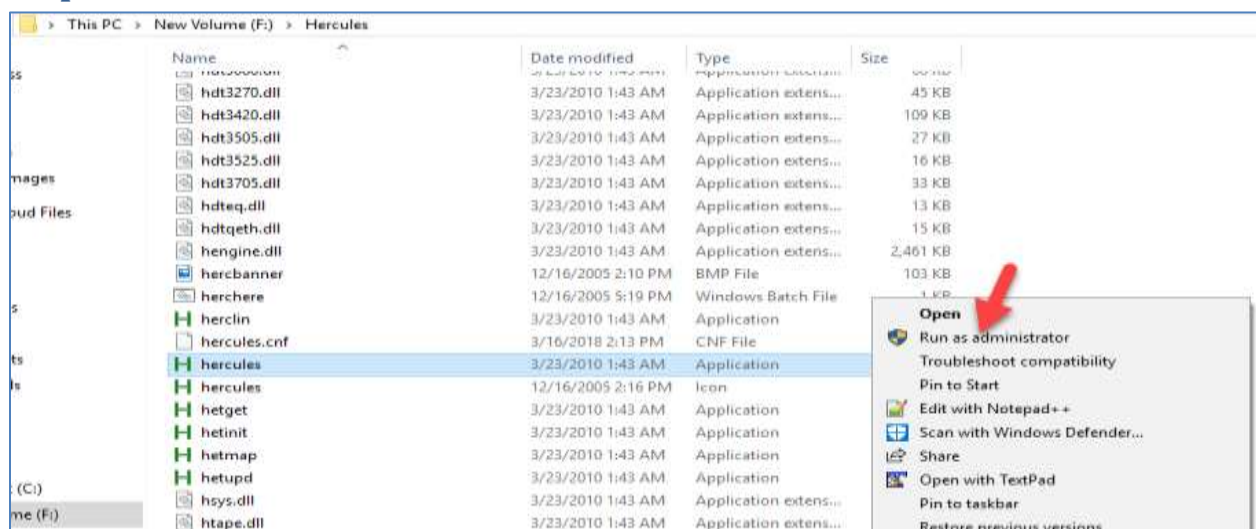
Step6: Download the ZOC terminal from the link (http://download.cnet.com/ZOC-Terminal/3000-7240_4-10125963.html) and install it in your pc.

If there are any issues installing ZOC terminal, install IBM 3270 emulator, the name of this emulator is x3270 – Link is <http://x3270.bgp.nu/download.html>

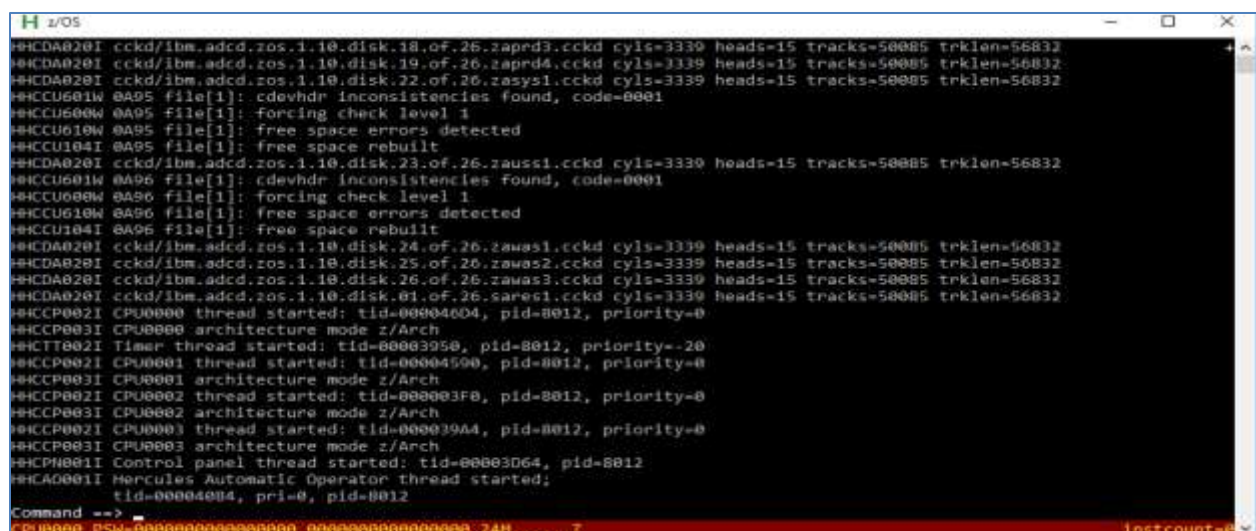
Either download, wc3270-3.6ga5-setup.exe ([SourceForge](#)) ([Backup](#)) or wc3270-3.5ga12-setup.exe ([SourceForge](#)) ([Backup](#))

Now, we have to boot the Mainframe server.

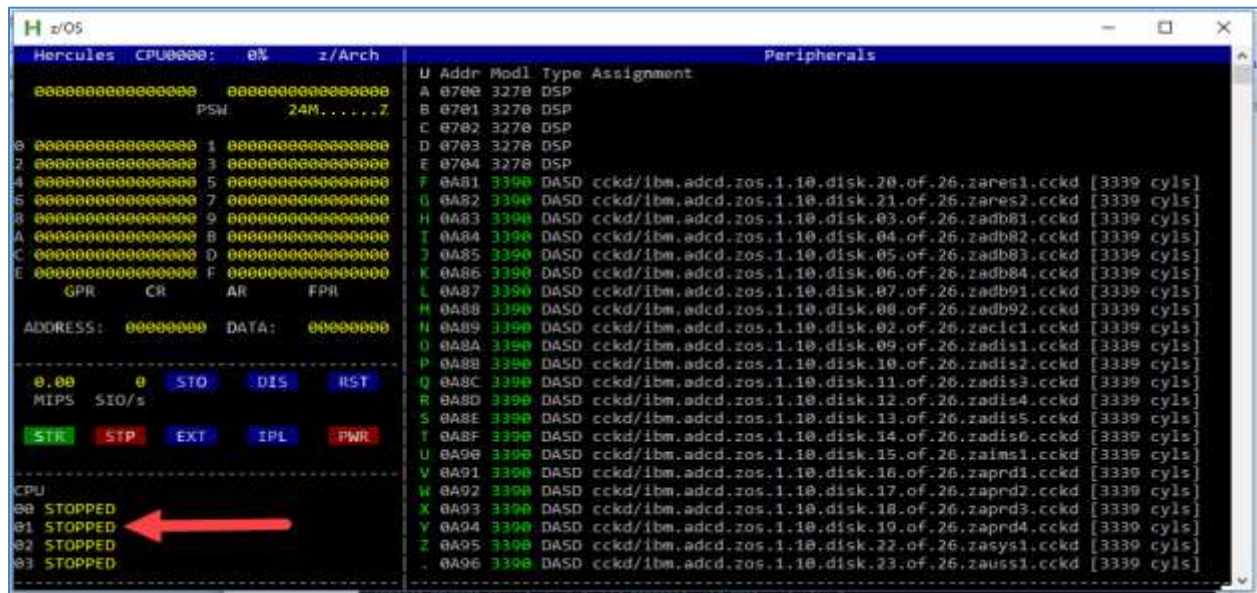
Step6: Go to executable Hercules file and run it as administrator



You will get a screen like this-

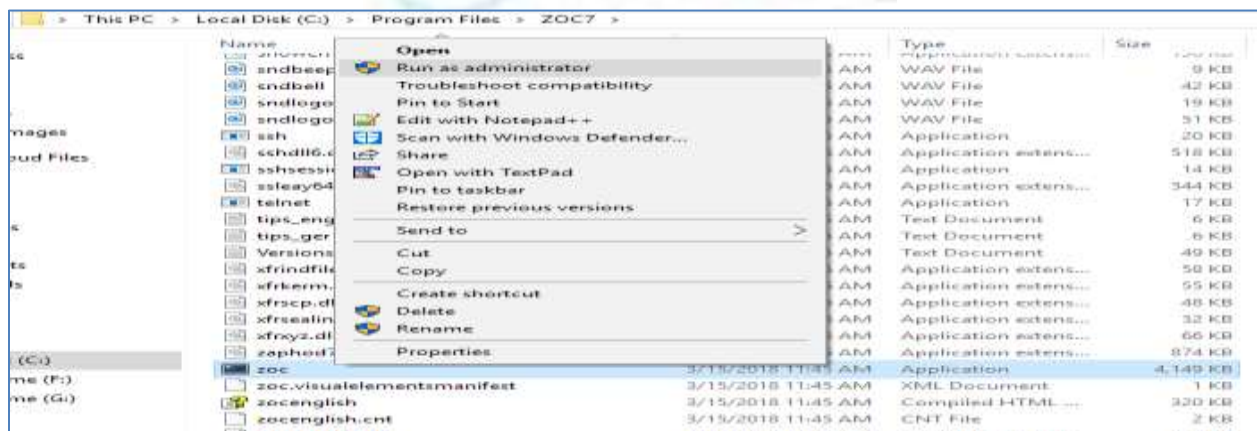


Step7: Now, we have to go to graphic mode. To do this, Press Escape Key (ESC Key) in your keyboard and the screen will change like below -

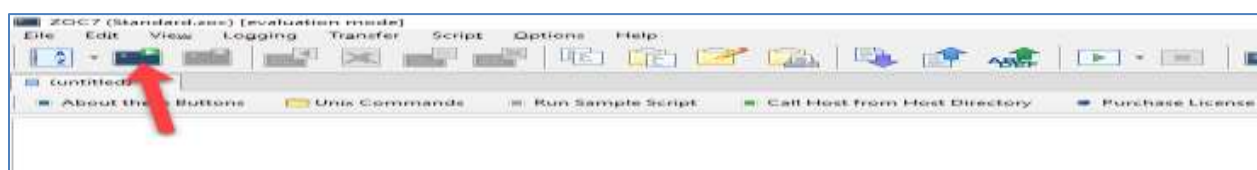


Notice: STOPEED at the bottom left

Step8: Go to the folder where ZOC emulator is installed and run it as administrator like below:



Step9: Click on 'Quick Connect' bottom as below:

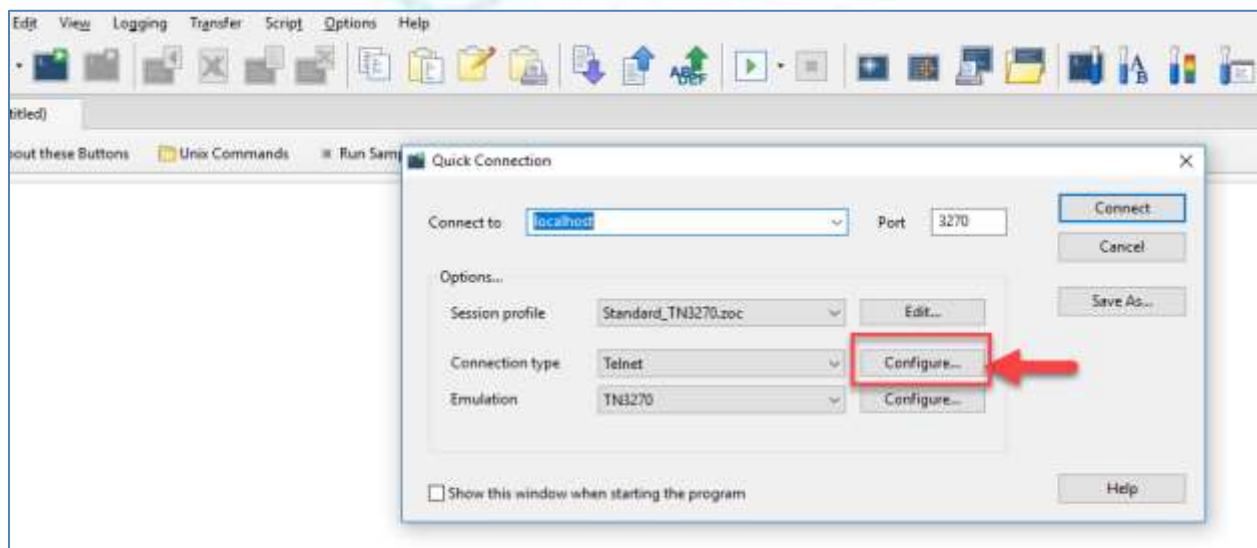


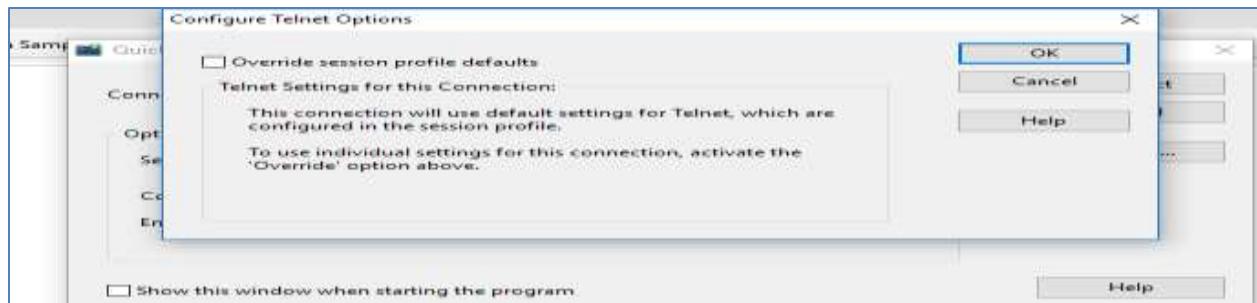
Step10: Change the settings like:

- ✓ Connect to: localhost (as we are running it on local)
- ✓ Port: 3270 (as we are using 3270 emulator)
- ✓ Session profile – Standard_TN3270.zoc
- ✓ Connection type: Telnet
- ✓ Emulation: TN3270

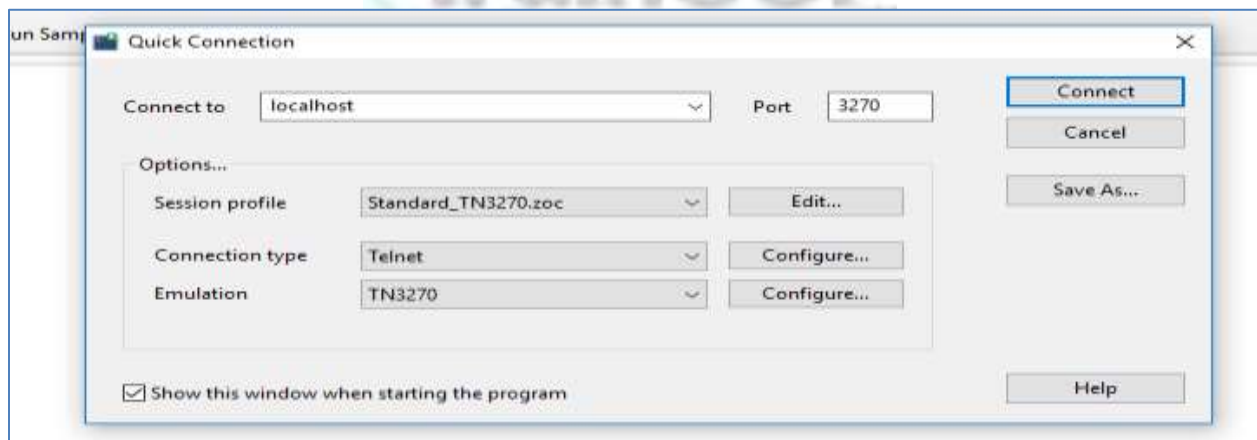
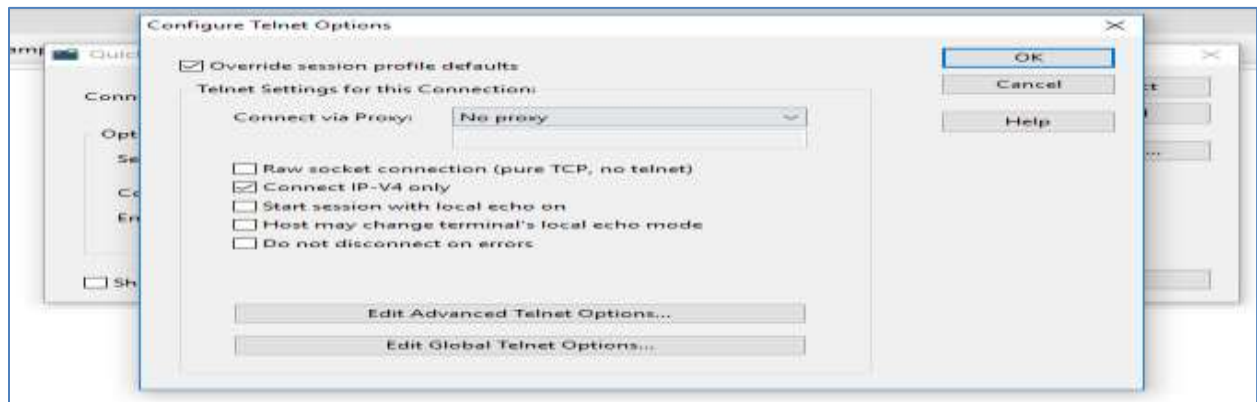


Step11: Check the box 'Show this window when starting the program' and click on configure.





Check the box 'Override session profile defaults'. Make sure that 'Connect IP-V4 only' is also checked.



Note:

It is mandatory to start the 3270 session before IPL. Now, I am ready to start the Hercules emulator and run the ZOS terminal so we need to start 2 terminals where the first one will be console terminal and the second one is a TSO terminal to connect to TSO.

The screenshot shows a Windows 7 desktop with a terminal window titled 'localhost:3270 [Standard_TN3270.exe] [evaluation mode]'. The terminal displays the following system information:

```

Hercules Version : 3.07
Host name       : DESKTOP-B6LEV BK
Host OS        : Windows_NT-6.2
Host Architecture : AMD64
Processors     : MP=4
Chan1 Subsys   : 0
Device number  : 0700
Subchannel1    : 0000
  
```

Below the system information, there is a large ASCII art graphic representing a mainframe console. The text within the graphic reads:

```

                HHH      HHH      The S/370, ESA/390 and z/Architecture
                HHH      HHH      Emulator
                HHH      HHH
                HHH      HHH
                HHH      HHH      EEEE RRR   CCC U  U  L   EEEE  SSS
                HHH      HHH      E   R  R  C   U  U  L   E   S
                HHH      HHH      EEE  RRR   C    U  U  L   EEE  SS
                HHH      HHH      E   R  R  C   U  U  L   E   S
                HHH      HHH      EEEE R  R  CCC  UU  LLLL EEEE SSS
                HHH      HHH
                HHH      HHH
                HHH      HHH
                HHH      HHH      My PC thinks it's a MAINFRAME
  
```

At the bottom of the terminal window, the copyright notice is displayed:

```

Copyright (C) 1999-2010 Roger Bowler, Jan Jaeger, and others
  
```

The taskbar at the bottom of the screen shows the '3270' application icon, the 'TNS3270' window title, and the system clock indicating '01/00' and '00:00:11'.

The screenshot displays the Hercules emulator interface. The top menu bar includes File, Edit, View, Logging, Tiger, Script, Options, and Help. Below the menu is a toolbar with various icons for file operations and simulation control. The main window is titled 'localhost:3270' and contains a terminal window with the following text:

```

Hercules Version  :
Host name         :
Host OS           :
Host Architecture :
Processors        :
Chan1 Subsys      :
Device number     :
Subchannel        :

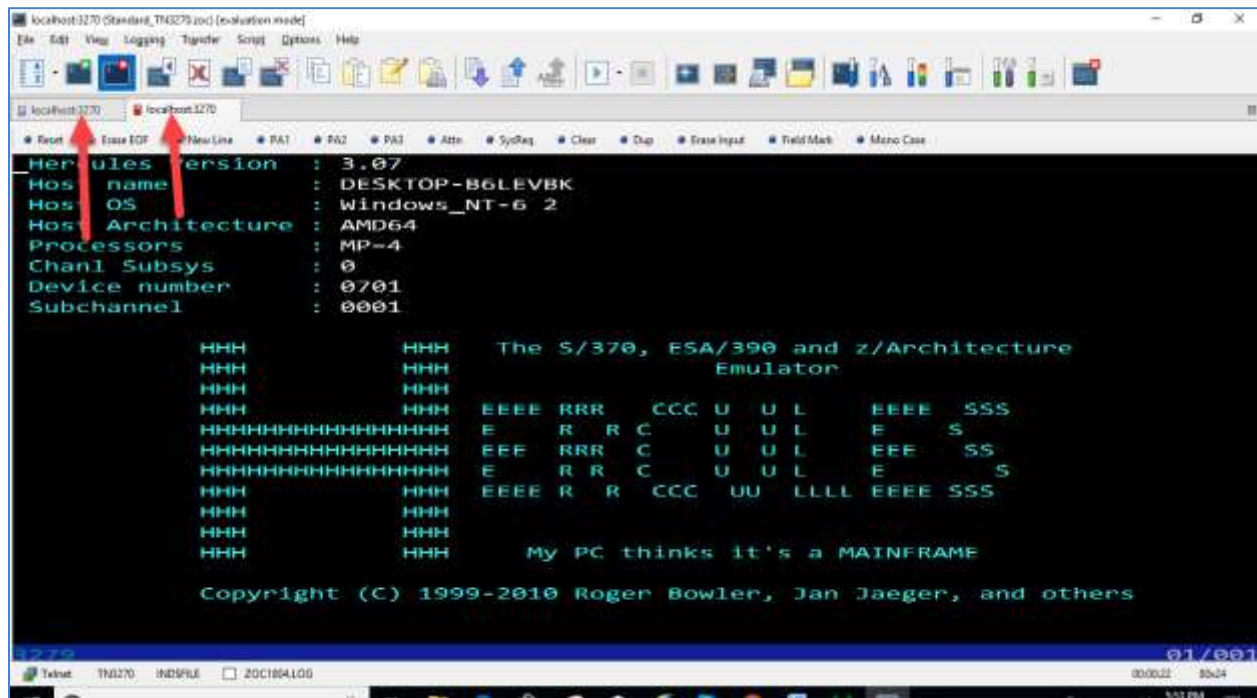
HHH
HHH
HHH
HHH
HHHHHHHHHHHHHHHH E  R  R  C  U  U  L  E  S
HHHHHHHHHHHHHHHH EEE RRR  C  U  U  L  EEE  SS
HHHHHHHHHHHHHHHH E  R  R  C  U  U  L  E  S
HHH      HHH      EEEE R  R  CCC  UU  LLLL EEEE SSS
HHH      HHH
HHH      HHH
HHH      HHH
HHH      HHH

My PC thinks it's a MAINFRAME

Copyright (C) 1999-2010 Roger Bowler, Jan Jaeger, and others
  
```

Overlaid on the terminal is a 'Quick Connection' dialog box. It features a 'Connect to' field with 'localhost' entered, a 'Port' field with '3270' entered, and a 'Connect' button. Below these are 'Options...' and 'Save As...' buttons. The 'Options' section includes a 'Session profile' dropdown set to 'Standard_TN3270.doc', a 'Connection type' dropdown set to 'Telnet', and an 'Emulation' dropdown set to 'TN3270'. Each dropdown has a corresponding 'Edit...' or 'Configure...' button. At the bottom of the dialog is a checkbox labeled 'Show this window when starting the program' which is checked, and a 'Help' button.

Step14: Now, you have 2 sessions which you can see as below –

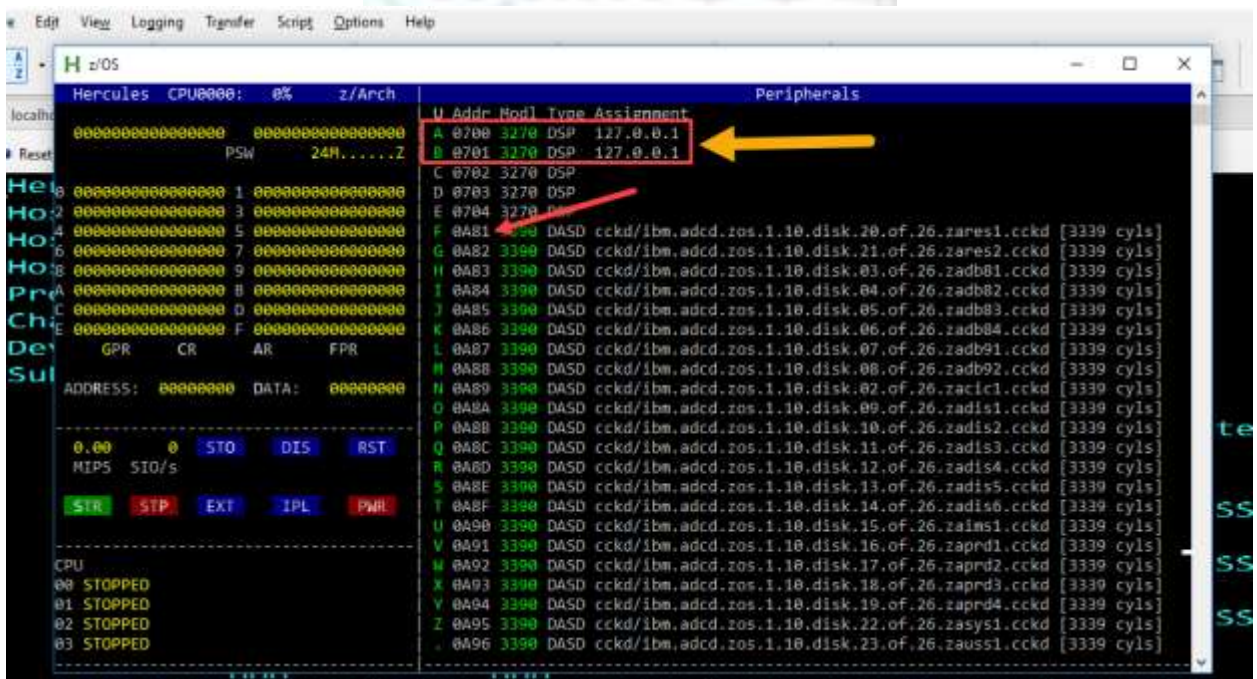


The screenshot shows a Hercules emulator window titled 'localhost:3270 (Standard, TH3270.toc) [evaluation mode]'. The window has a menu bar (File, Edit, View, Logging, Transfer, Script, Options, Help) and a toolbar. Below the toolbar, there are two tabs labeled 'localhost:3270'. The main display area shows the following text:

```
Hercules version : 3.07
Host name       : DESKTOP-B6LEVBK
Host OS         : Windows_NT-6 2
Host Architecture : AMD64
Processors      : MP-4
Chan1 Subsys    : 0
Device number   : 0701
Subchannel      : 0001
```

Below this, there is a large ASCII art graphic that reads 'The S/370, ESA/390 and z/Architecture Emulator'. At the bottom, it says 'My PC thinks it's a MAINFRAME' and 'Copyright (C) 1999-2010 Roger Bowler, Jan Jaeger, and others'.

The same can be seen in Hercules as well as below:



The screenshot shows the Hercules emulator window with the 'z/OS' interface. The window has a menu bar (File, Edit, View, Logging, Transfer, Script, Options, Help) and a toolbar. The main display area is divided into several sections:

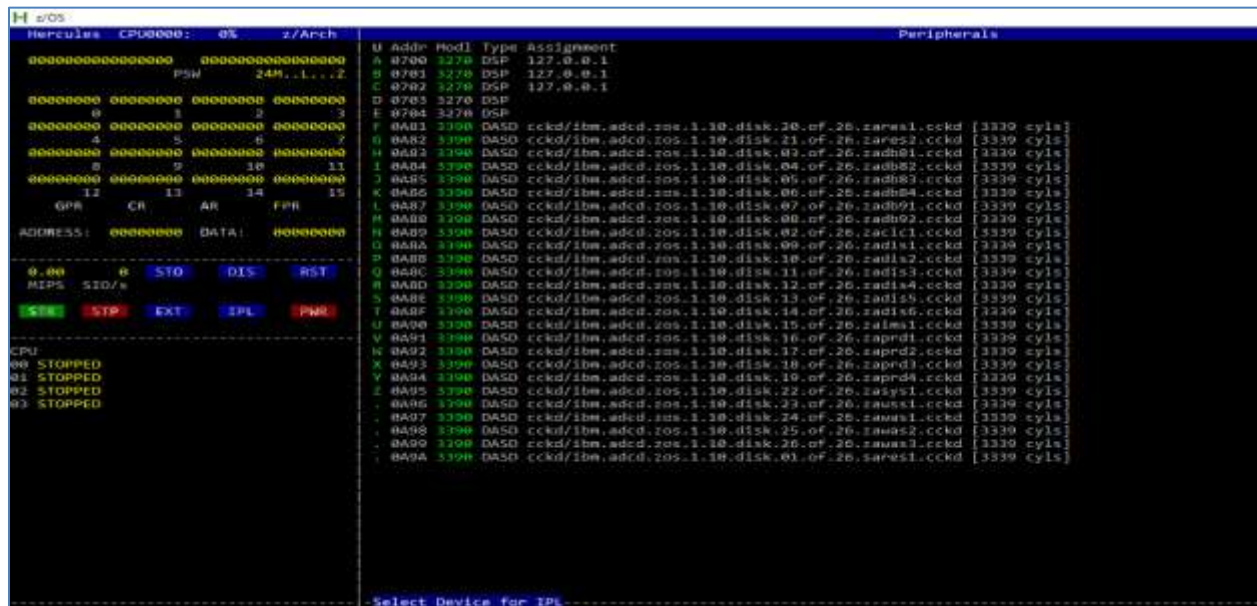
- Top Left:** Hercules CPU0000: 0% z/Arch. PSW: 24M.....Z
- Top Right:** Peripherals table with columns: U, Addr, Mod1, Type, Assignment.
- Bottom Left:** GPR, CR, AR, FPR registers. ADDRESS: 00000000 DATA: 00000000. MIPS: 0.00 SIO/s: 0. Buttons: STR, STP, EXT, IPL, PWR.
- Bottom Right:** List of peripherals (0A81 to 0A96) with their addresses, models, types, and assignments.

The Peripherals table is as follows:

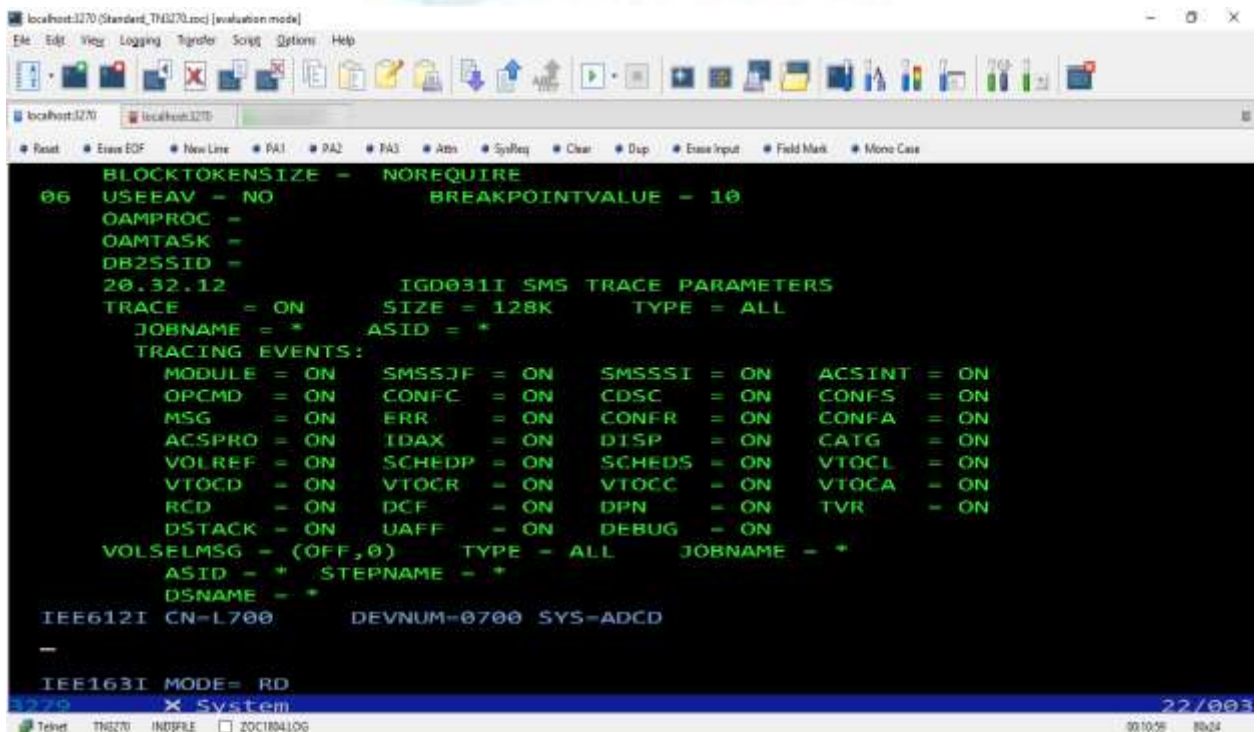
U	Addr	Mod1	Type	Assignment
A	0700	3270	DSP	127.0.0.1
B	0701	3270	DSP	127.0.0.1
C	0702	3270	DSP	
D	0703	3270	DSP	
E	0704	3270	DSP	
F	0A81	3390	DASD	cckd/ibm.adcd.zos.1.10.disk.20.of.26.zares1.cckd [3339 cyls]
G	0A82	3390	DASD	cckd/ibm.adcd.zos.1.10.disk.21.of.26.zares2.cckd [3339 cyls]
H	0A83	3390	DASD	cckd/ibm.adcd.zos.1.10.disk.03.of.26.zadb01.cckd [3339 cyls]
I	0A84	3390	DASD	cckd/ibm.adcd.zos.1.10.disk.04.of.26.zadb02.cckd [3339 cyls]
J	0A85	3390	DASD	cckd/ibm.adcd.zos.1.10.disk.05.of.26.zadb03.cckd [3339 cyls]
K	0A86	3390	DASD	cckd/ibm.adcd.zos.1.10.disk.06.of.26.zadb04.cckd [3339 cyls]
L	0A87	3390	DASD	cckd/ibm.adcd.zos.1.10.disk.07.of.26.zadb01.cckd [3339 cyls]
M	0A88	3390	DASD	cckd/ibm.adcd.zos.1.10.disk.08.of.26.zadb02.cckd [3339 cyls]
N	0A89	3390	DASD	cckd/ibm.adcd.zos.1.10.disk.02.of.26.zacicl.cckd [3339 cyls]
O	0A8A	3390	DASD	cckd/ibm.adcd.zos.1.10.disk.09.of.26.zadis1.cckd [3339 cyls]
P	0A8B	3390	DASD	cckd/ibm.adcd.zos.1.10.disk.10.of.26.zadis2.cckd [3339 cyls]
Q	0A8C	3390	DASD	cckd/ibm.adcd.zos.1.10.disk.11.of.26.zadis3.cckd [3339 cyls]
R	0A8D	3390	DASD	cckd/ibm.adcd.zos.1.10.disk.12.of.26.zadis4.cckd [3339 cyls]
S	0A8E	3390	DASD	cckd/ibm.adcd.zos.1.10.disk.13.of.26.zadis5.cckd [3339 cyls]
T	0A8F	3390	DASD	cckd/ibm.adcd.zos.1.10.disk.14.of.26.zadis6.cckd [3339 cyls]
U	0A90	3390	DASD	cckd/ibm.adcd.zos.1.10.disk.15.of.26.zains1.cckd [3339 cyls]
V	0A91	3390	DASD	cckd/ibm.adcd.zos.1.10.disk.16.of.26.zaprd1.cckd [3339 cyls]
W	0A92	3390	DASD	cckd/ibm.adcd.zos.1.10.disk.17.of.26.zaprd2.cckd [3339 cyls]
X	0A93	3390	DASD	cckd/ibm.adcd.zos.1.10.disk.18.of.26.zaprd3.cckd [3339 cyls]
Y	0A94	3390	DASD	cckd/ibm.adcd.zos.1.10.disk.19.of.26.zaprd4.cckd [3339 cyls]
Z	0A95	3390	DASD	cckd/ibm.adcd.zos.1.10.disk.22.of.26.zasys1.cckd [3339 cyls]
.	0A96	3390	DASD	cckd/ibm.adcd.zos.1.10.disk.23.of.26.zauss1.cckd [3339 cyls]

You should see the Z/OS image file mount started at device 0A81 in the above picture.

Step 15: Once you see that, Press 'L' for IPL and you can see a message 'Select Device for IPL' as below -



Step 16: Press 'F' for the first mounted Z/Os file/disk. Once you press 'F', the Z/Os should start loading on the console terminal as below:



The screenshot shows a Windows command prompt window with the title "localhost:3270 (Standard, T140270,3270) [Evolution]". The window contains a Telnet session to a local host (127.0.0.1) on port 3270. The session displays a VTAM map command and its output, including various VTAM commands and their status.

```

*20.32.16
* POLICY
- 20.32.55 STC00003 VTAMAP17I Command Prefix Character = None.
- 20.32.55 STC00003 VTAMAP10I Issuing "S RRS,SUB=MSTR".
- 20.32.55 STC00003 VTAMAP10I Issuing "S TSO".
- 20.32.55 STC00003 VTAMAP10I Issuing "S IRROPTAB".
- 20.32.56 STC00003 VTAMAP10I Issuing "S SDSF".
- 20.32.56 STC00003 VTAMAP10I Issuing "S EZAZSSI,P=ADCD".
- 20.32.56 STC00003 VTAMAP10I Issuing "S TCPIP".
- 20.32.56 STC00003 VTAMAP10I Issuing "S TN3270".
- 20.32.56 STC00003 VTAMAP10I Issuing "-DB9G START DB2".
- 20.32.56 STC00003 VTAMAP11I Pausing 10 seconds...
00- 20.32.57 STC00017 $HASP373 TSO STARTED
- 20.32.57 STC00019 $HASP373 SDSF STARTED
- 20.32.57 STC00018 $HASP373 IRROPTAB STARTED
- 20.32.57 STC00017 IKT007I TCAS ACCEPTING LOGONS
- 20.32.57 STC00017 IKT005I TCAS IS INITIALIZED
20.32.57 STC00019 ISF724I SDSF level HXQ7750 initialization complete for
server SDSF.
20.32.58 STC00019 ISF726I SDSF parameter processing started.
IEE612I CN=L700 DEVNUM=0700 SYS=ADCD
r 00,1_
IEE163I MODE= RD
3270 X System
Telnet TN3270 INDFILE ZOC1804LOG
22/000
00:14:01 00:04

```

like this:

```
IXC207A XCF INITIALIZATION IS RESTARTED. RESPECIFY COUPLE SYSTER PARAMETER.  
REPLY COUPLE=00.
```

Here you can notice that it says 'REPLY COUPLE =XX' so in this case, you have to give R 00, couple=** as below –

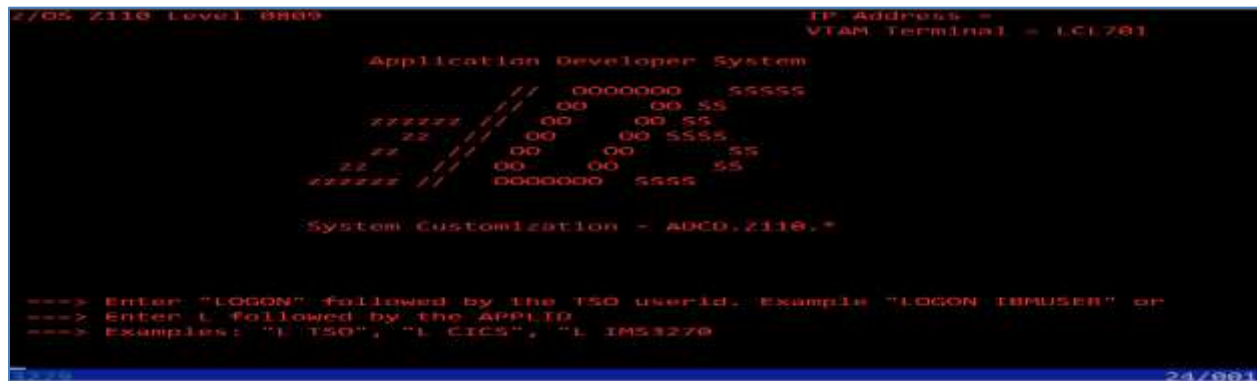
```

EMULATED SYSTEM IS INITIALIZING IN GDS MEMO MODE.  KING OR SYAM CONFIGURATION
KEYWORDS IN GDSMEMO ARE IGNORED.
FEAS582 TIME ZONE = W.06.00.00
EXC0111 KES HARDWARE SUPPORT IS NOT INSTALLED.  REASON: 02
EXC4141 CANNOT JOIN SYSPLEX ADCEPL WHICH IS RUNNING IN MONOMPLEX MODE:
  CONFIGURATION REQUIREMENT
EXC4042 SYSTEM(S) ACTIVE OR IPLING: ADCC
EXC4200 REPLY 2 TO INITIALIZE SYSPLEX ADCEPL, OR R TO REINITIALIZE XCF.
  REPLYING 1 WILL IMPACT OTHER ACTIVE SYSTEMS.
R 00,R
IEE8001 REPLY TO 00 IS:R
EXC2142 COUPLE00 IS THE CURRENT COUPLE PARMLIB MEMBER
EXC2402 IF XCF-LOCAL MODE INITIALIZATION IS DESIRED, REPLY "COUPLE=*" TO
  THE FOLLOWING PROMPT
EXC207A XCF INITIALIZATION IS RESTARTED.  RESPECIFY COUPLE SYSTEM PARAMETER.
  REPLY COUPLE=XX.

```

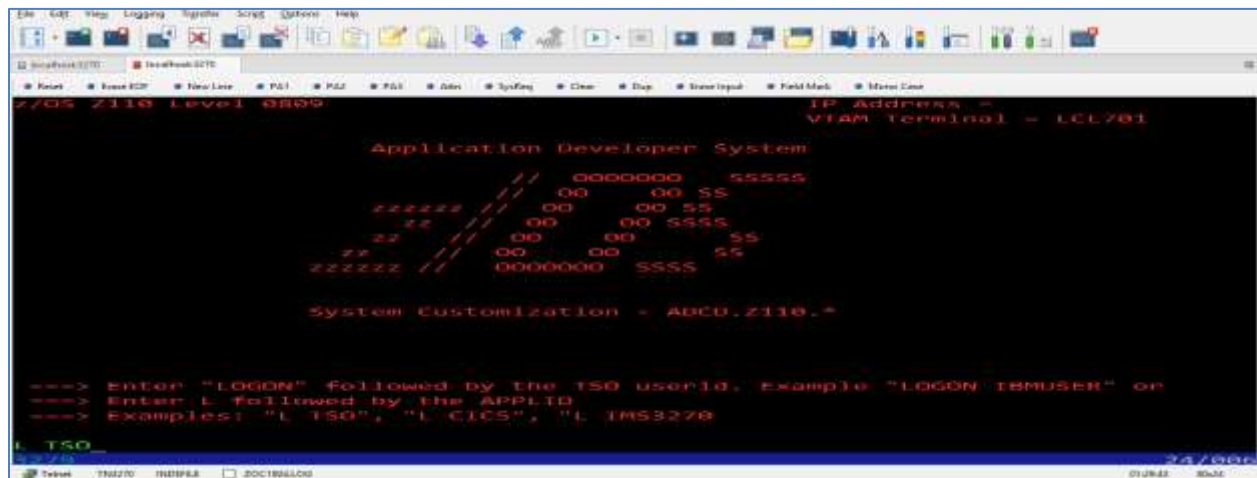
11

Step 18: After some time, you will see a TSO logon screen on one of the Terminal as below –



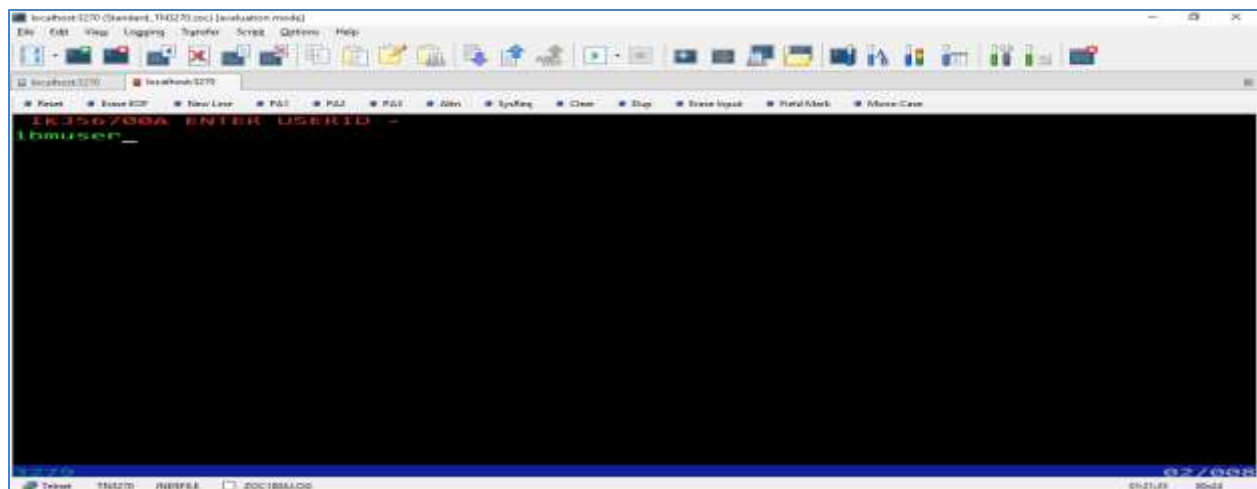
The screenshot shows a terminal window with a black background and red text. At the top left, it says "z/OS 2.11.0 Level 0809". At the top right, it says "IP Address = VTAM Terminal = LCL781". In the center, there is a large graphic of a stylized 'Z' made of red characters, with the text "Application Developer System" above it and "System Customization - ADCC2.11.0.*" below it. At the bottom, there are instructions: "====> Enter 'LOGON' followed by the TSO userid. Example 'LOGON IBMUSER' or", "====> Enter L followed by the APPLID", and "====> Examples: 'L TSO', 'L CICS', 'L IMS3270'". The bottom status bar shows "24/001".

Step 19: Now, you can either give 'L TSO' or 'LOGON ibmuser' like below –



This screenshot is similar to the previous one, but the text "L TSO" has been entered at the bottom of the screen, below the instructions. The rest of the screen content remains the same.

Give userid as – ibmuser



This screenshot shows the terminal window after the user has entered "ibmuser" as the userid. The text "ENTER USERID -" is visible at the top, and "ibmuser" has been entered below it. The rest of the screen content remains the same.

Give the password as **SYS1** and press enter.

```
localhost:3270 (Standard, TH0270) [evaluation mode]
File Edit View Logging Transfer Script Options Help

----- TSO/E LOGON -----

Enter LOGON parameters below:                                RACF LOGON parameters:

Userid      ==> IBMUSER                                       New Password ==>
Password    ==> SYS1                                         Group Ident  ==>
Procedure   ==> ISPFPROC
Acct Nmbr   ==> ACCT#
Size        ==> 2048000
Perform     ==>
Command     ==> ispf

Enter an 'S' before each option desired below:
      -Nomail      -Nonotice      S -Reconnect      -OIDcard

PF1/PF13 ==> Help    PF3/PF15 ==> Logoff    PA1 ==> Attention    PA2 ==> Reshow
You may request specific help information by entering a '?' in any entry field

05/23/01 00:24
```

Press enter again on your keyboard to go to the next screen as below-



```
localhost:3270 (Standard, TH0270) [evaluation mode]
File Edit View Logging Transfer Script Options Help

----- TSO/E LOGON -----

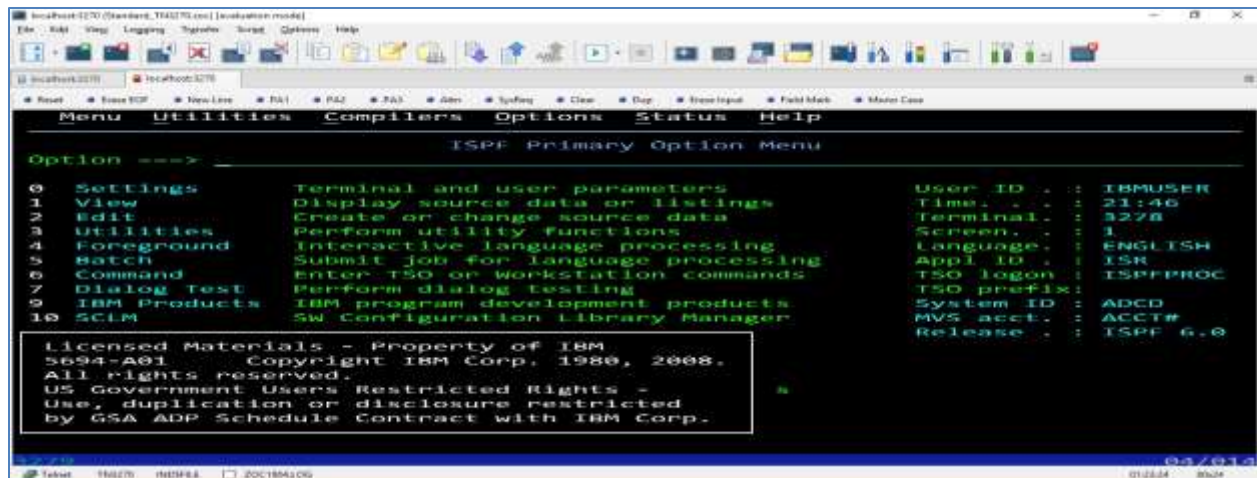
ICH000011 IBMUSER LAST ACCESS AT 16:57:50 ON FRIDAY, MARCH 16, 2018
IK3564551 IBMUSER LOGON IN PROGRESS AT 21:45:40 ON APRIL 9, 2018
IK3569511 NO BROADCAST MESSAGES

*****
* APPLICATION DEVELOPER'S CONTROLLED DISTRIBUTION (ADCD)
*
* ADCD.Z110.CLIST(ISPFCL) PRODUCES THIS MESSAGE
* ADCD.* DATASETS CONTAIN SYSTEM CUSTOMIZATION
* SMP/E DATASETS CAN BE LOCATED FROM 3.4 WITH DSNNAME **.*CSI
* HTTP://DTSC.DFW.IBM.COM/ADCD.HTML CONTAINS DOCUMENTATION
*
* USERID            PASSWORD            COMMENT
* -----
* IBMUSER           - SYS1/IBMUSER  FULL AUTHORITY
* ADCDMST           - ADCDMST      FULL AUTHORITY
* ADCDA THRU ADCDZ  - TEST        LIMITED AUTHORITY(NO OMVS)*
* OPEN1 THRU OPEN3 - SYS1         UID(8) (NO TSO)
*
*****

ispf
==> _

05/23/01 00:24
```

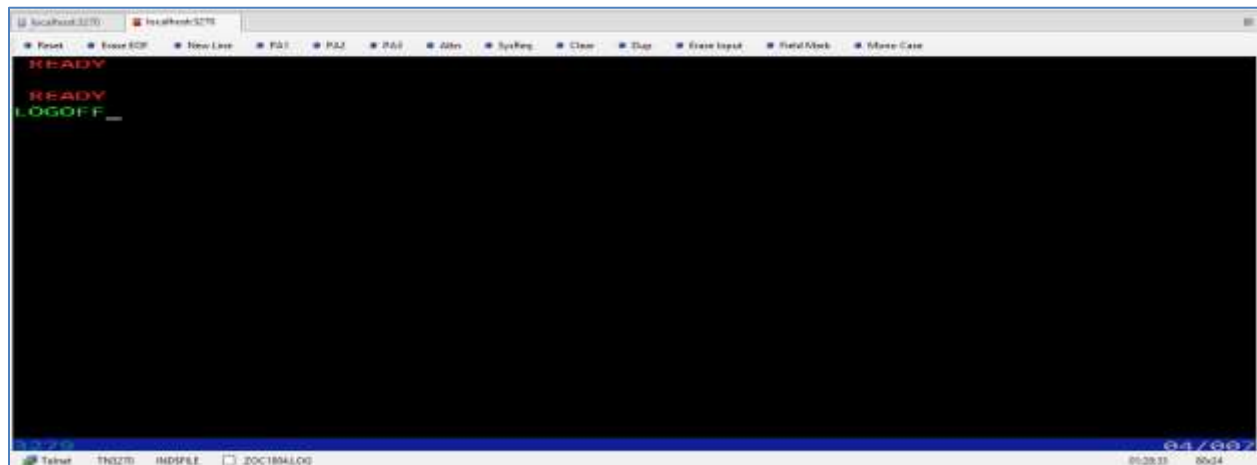
Again, press enter to go to ISPF Primary option menu as below –



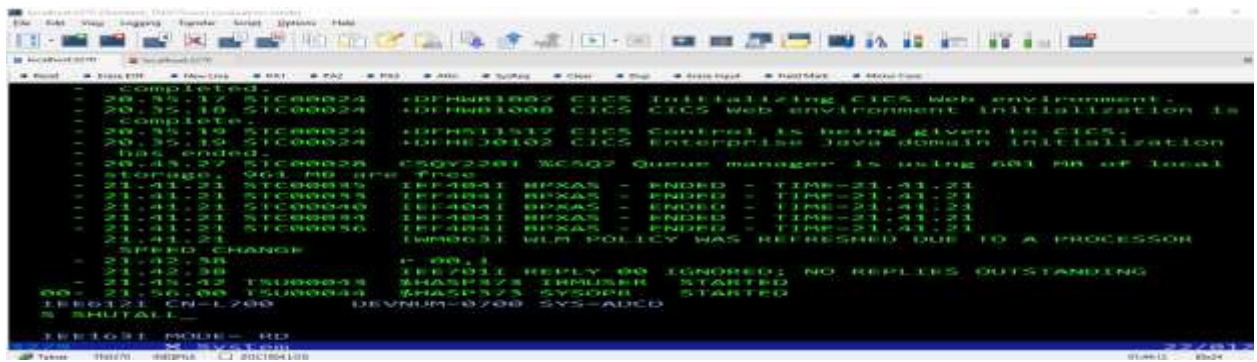
If you get ready prompt, you can give command 'ISPF' to go to the above screen

Step20: To logoff, keep on pressing F3 until you get like this -

Type 'LOGOFF'



Step21: To shut down the server, give's shutall'



```

- 22.06.10 IEF404I VLF - ENDED - TIME=22.06.10
- 22.06.10 STC00045 VTAMAP10I Issuing "P DLF".
- 22.06.10 IEF352I ADDRESS SPACE UNAVAILABLE
- 22.06.10 STC00045 VTAMAP10I Issuing "F CICS,CEMT P SHUT I".
- 22.06.10 STC00045 VTAMAP11I Pausing 20 seconds...
- 22.06.10 COF536I DLF MODIFY COMMAND PROCESSING COMPLETED.
- 22.06.10 COF544I DLF STOP COMMAND REQUIRES PRIOR STOP MODE
SELECTION.
- 22.06.13 IEF404I RRS - ENDED - TIME=22.06.13
- 22.06.13 IEF352I ADDRESS SPACE UNAVAILABLE
- 22.06.13 ASA2960I RRS SUBSYSTEM FUNCTIONS DISABLED. COMPONENT
ID=5CRR5
- 22.06.13 ATR167I RRS RESMGR PROCESSING COMPLETED.
- 22.06.14 STC00032 GFSC717E z/OS NETWORK FILE SYSTEM CLIENT GFSCINIT
- 22.06.15 IEF404I LLA - ENDED - TIME=22.06.15
- 22.06.15 IEF352I ADDRESS SPACE UNAVAILABLE
- 22.06.15 CSV210I LIBRARY LOOKASIDE ENDED
- 22.06.17 STC00032 IEF352I ADDRESS SPACE UNAVAILABLE
- 22.06.30 STC00045 VTAMAP11I Pausing 10 seconds...
IEF612I CN=L700 DEVNUM=0700 SYS=ADCD

IEF163I MODE= RD
22.06.30 X System 22/06.30

```



At end, just give 'EXIT'

```

H #05
HHCCP075I 0703:Stat=0200 Count=0001
HHCCP076I 0703:Sense=40000000 00000000 00000000 00000000 00000000 00000000
HHCCP077I 0703:Sense=INTREQ
HHCCP048I 0703:COB=05A001DE 29A50075->C711077F 10C81100 00A061D6 E240E9F1 0...H...I/O5 Z1
HHCCP075I 0703:Stat=0240 Count=01DE
HHCCP076I 0703:Sense=40000000 00000000 00000000 00000000 00000000 00000000
HHCCP077I 0703:Sense=INTREQ
HHCCP048I 0704:COB=03200001 2B9573F8->03300001 2B9573F8 00000000 00000000 .....0..0.....
HHCCP075I 0704:Stat=0200 Count=0001
HHCCP076I 0704:Sense=40000000 00000000 00000000 00000000 00000000 00000000
HHCCP077I 0704:Sense=INTREQ
HHCCP048I 0704:COB=03200001 00000000->00040000 0050007A 40404040 F0F04040 ..... 00
HHCCP075I 0704:Stat=0200 Count=0001
HHCCP076I 0704:Sense=40000000 00000000 00000000 00000000 00000000 00000000
HHCCP077I 0704:Sense=INTREQ
HHCCP048I 0704:COB=05A001DE 29A5CC55->C711077F 10C81100 00A061D6 E240E9F1 0...H...I/O5 Z1
HHCCP075I 0704:Stat=0240 Count=01DE
HHCCP076I 0704:Sense=40000000 00000000 00000000 00000000 00000000 00000000
HHCCP077I 0704:Sense=INTREQ
HHCTE014I 3270 device 0702 client 127.0.0.1 connection reset
HHCCP048I 0702:COB=03200001 00000000->00040000 0050007A 40404040 F0F04040 ..... 00
HHCCP075I 0702:Stat=0200 Count=0001
HHCCP076I 0702:Sense=40000000 00000000 00000000 00000000 00000000 00000000
HHCCP077I 0702:Sense=INTREQ
HHCCP048I 0703:COB=03200001 00000000->00040000 0050007A 40404040 F0F04040 ..... 00
HHCCP048I 0704:COB=03200001 00000000->00040000 0050007A 40404040 F0F04040 ..... 00
HHCCP075I 0703:Stat=0200 Count=0001
HHCCP075I 0704:Stat=0200 Count=0001
HHCCP076I 0703:Sense=40000000 00000000 00000000 00000000 00000000 00000000
HHCCP077I 0703:Sense=INTREQ
HHCCP076I 0704:Sense=40000000 00000000 00000000 00000000 00000000 00000000
HHCCP077I 0704:Sense=INTREQ
HHCTE014I 3270 device 0701 client 127.0.0.1 connection reset
HHCTE014I 3270 device 0700 client 127.0.0.1 connection reset
HHCCP048I 0700:COB=40400001 00000000->00040000 0050007A 40404040 F0F04040 ..... 00
HHCCP075I 0700:Stat=0200 Count=0001
HHCCP076I 0700:Sense=40000000 00000000 00000000 00000000 00000000 00000000
HHCCP077I 0700:Sense=INTREQ
HHCCP048I 0700:COB=05A00001 00000000->00040000 0050007A 40404040 F0F04040 ..... 00
HHCCP075I 0700:Stat=0200 Count=0001
HHCCP076I 0700:Sense=40000000 00000000 00000000 00000000 00000000 00000000
HHCCP077I 0700:Sense=INTREQ
Command ==> EXIT
CP0000 P10=07000000000000 00000000000000 24..N....Z
InstCount=4,489,140,700

```