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

Contents

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:

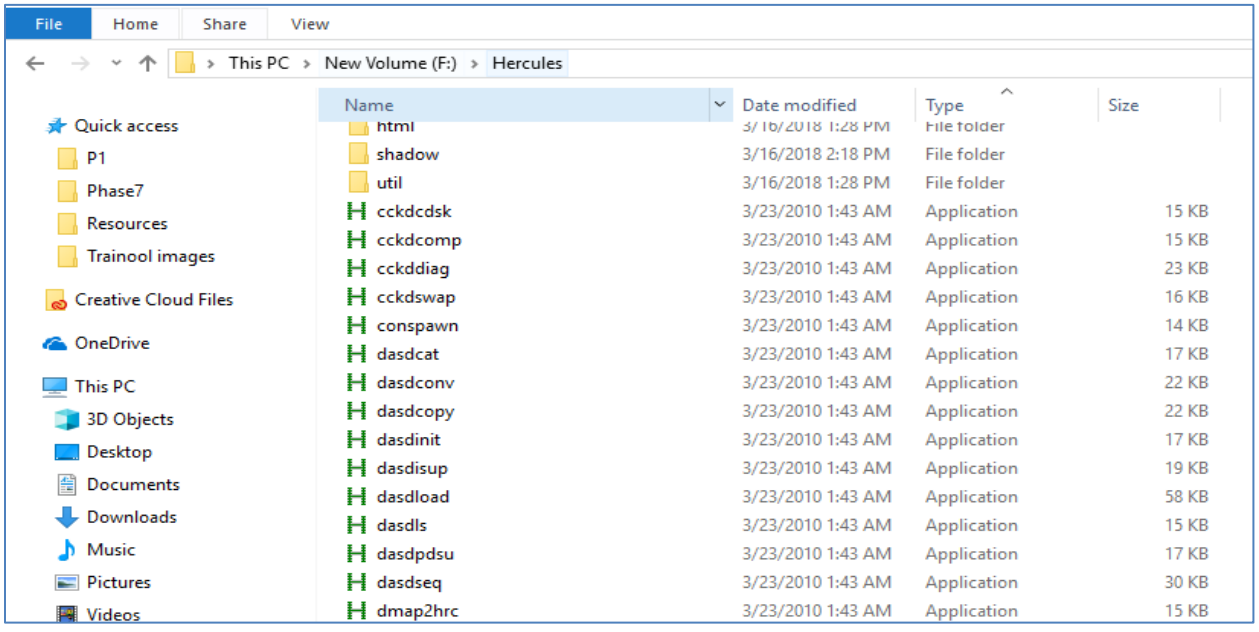
Link is - https://www-03.ibm.com/systems/z/os/zos/tools/downloads/

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.

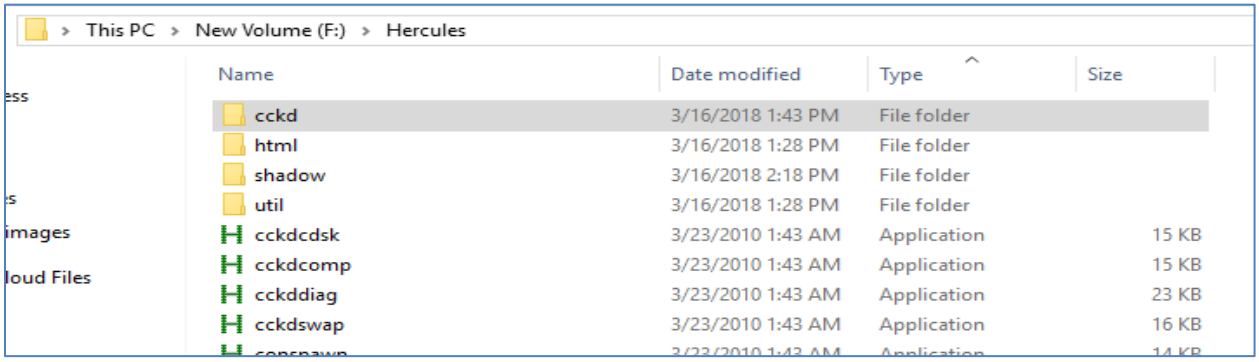
If you purchased this with IBM, It is a 16 GB file so downloading this might take some time.

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

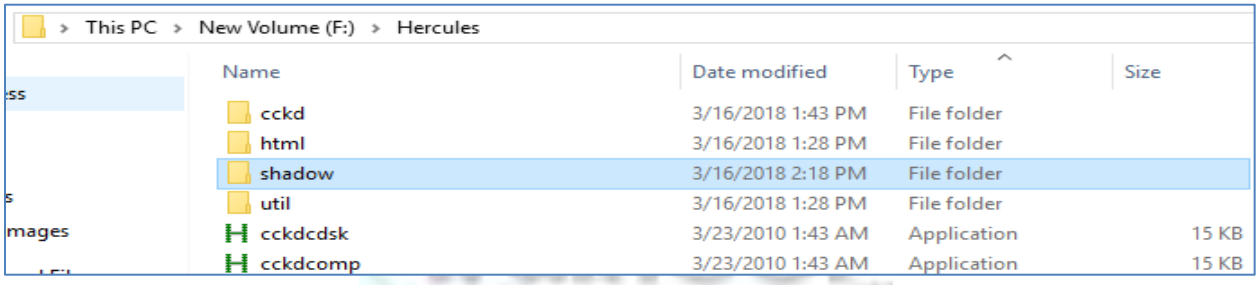
I prefer to install hercules-3.13-w64.zip: 64-bit binaries only archive for Windows as it contains the reloadable run time version of Hercules.



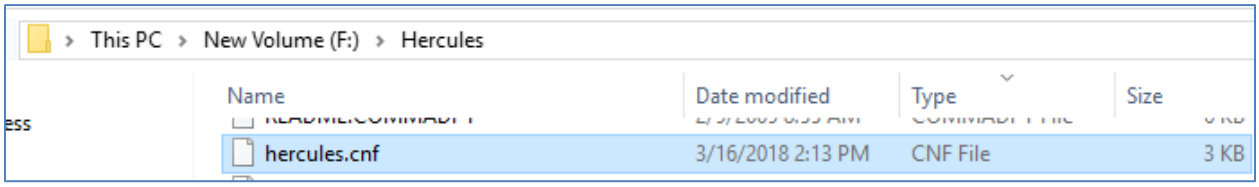
Step3: Copy this ZOS folder inside Hercules (i.e. F:\Hercules) and name this folder as cckd



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



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:



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

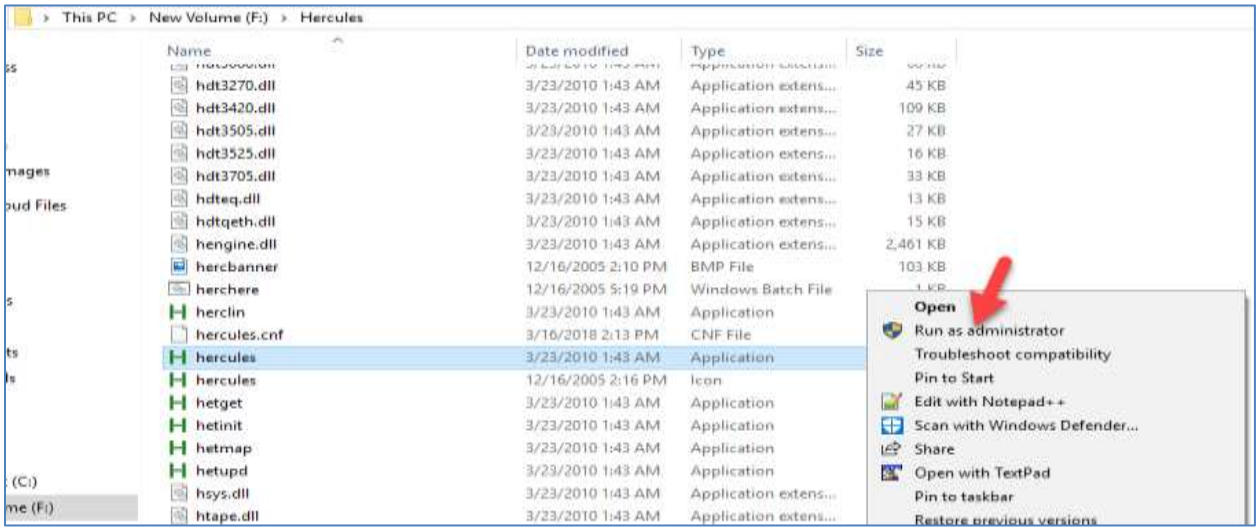
Step6: Download the ZOC terminal from the link (http://download.cnet.com/ZOC-Terminal/3000-7240_4-10125963.html) and install it in your pc.

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

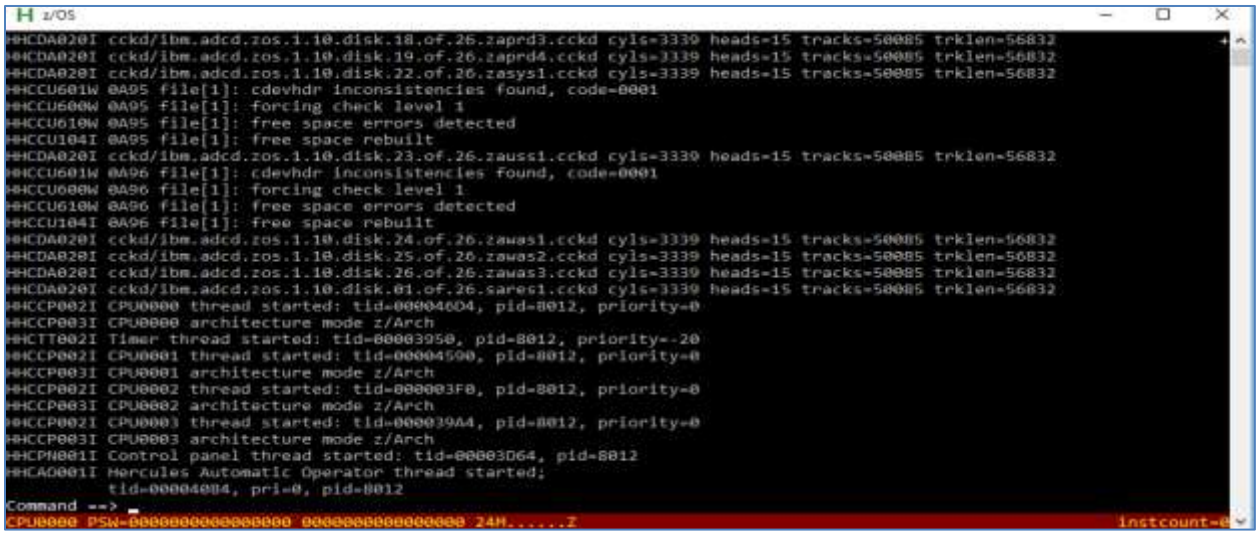
Either download, wc3270-3.6ga5-setup.exe **(SourceForge)** **(Backup)** or wc3270-3.5ga12-setup.exe **(SourceForge)** **(Backup)**

Now, we have to boot the Mainframe server.

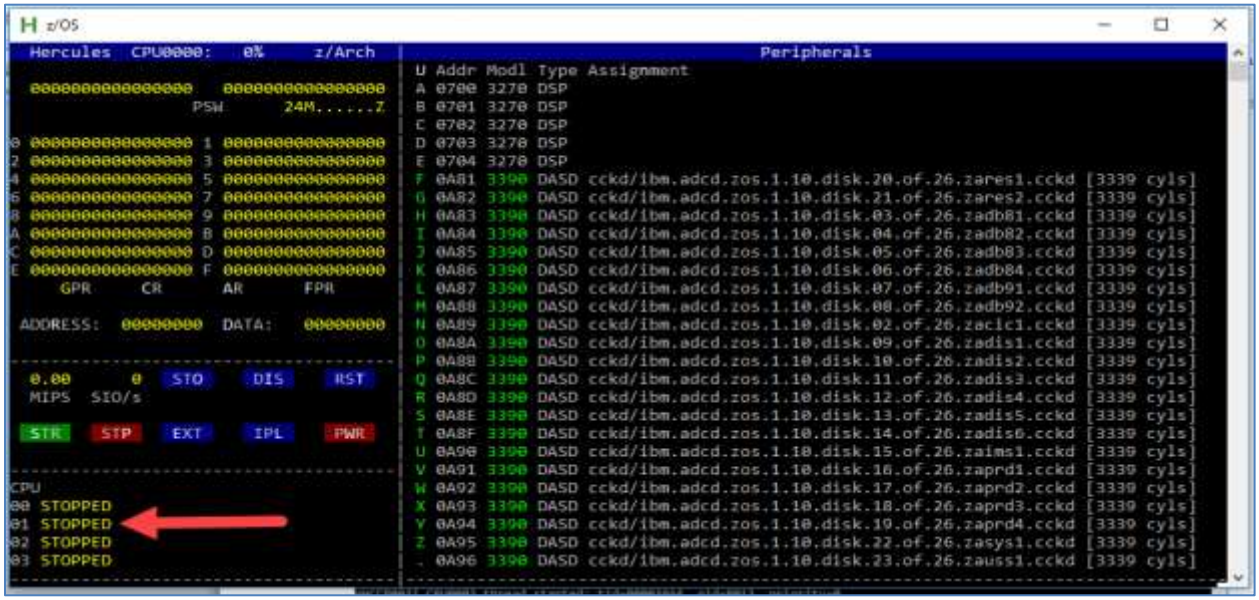
Step6: Go to executable Hercules file and run it as administrator



You will get a screen like this-

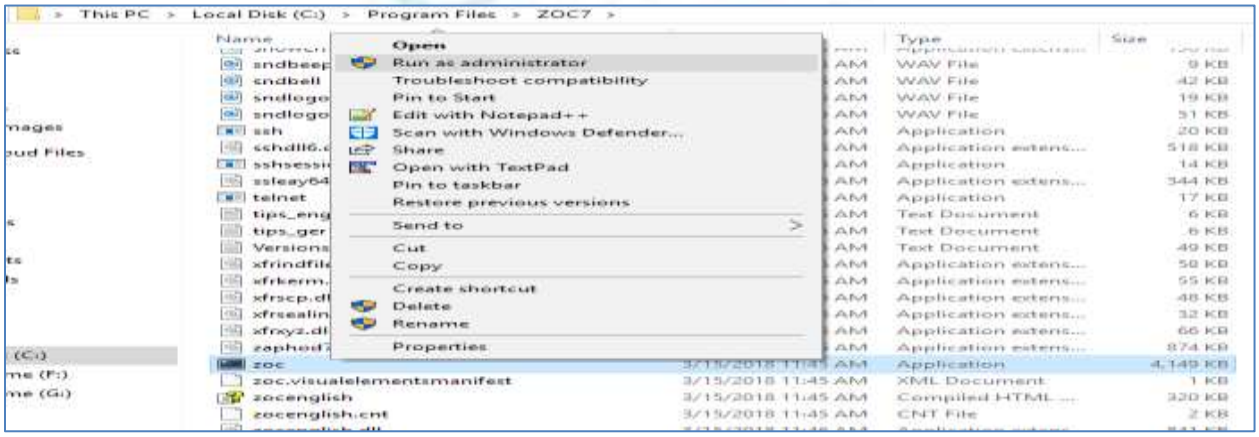


Step7: Now, we have to go to graphic mode. To do this, Press Escape Key (ESC Key) in your keyboard and the screen will change like below –

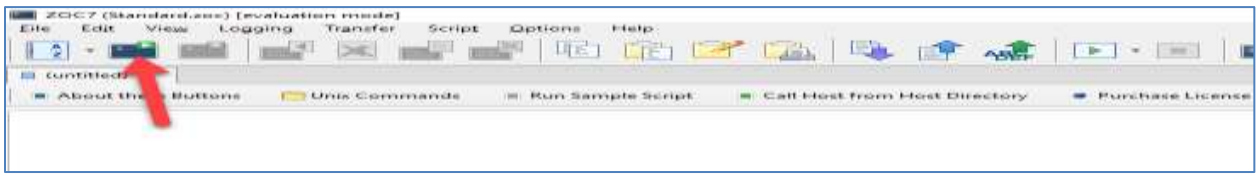


Notice: STOPEED at the bottom left

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

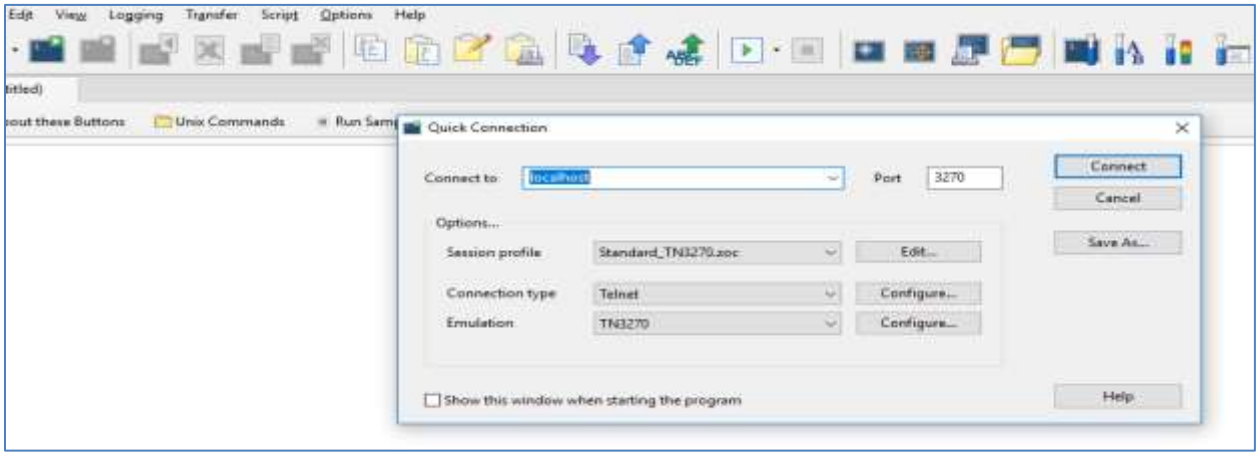


Step9: Click on 'Quick Connect' bottom as below:

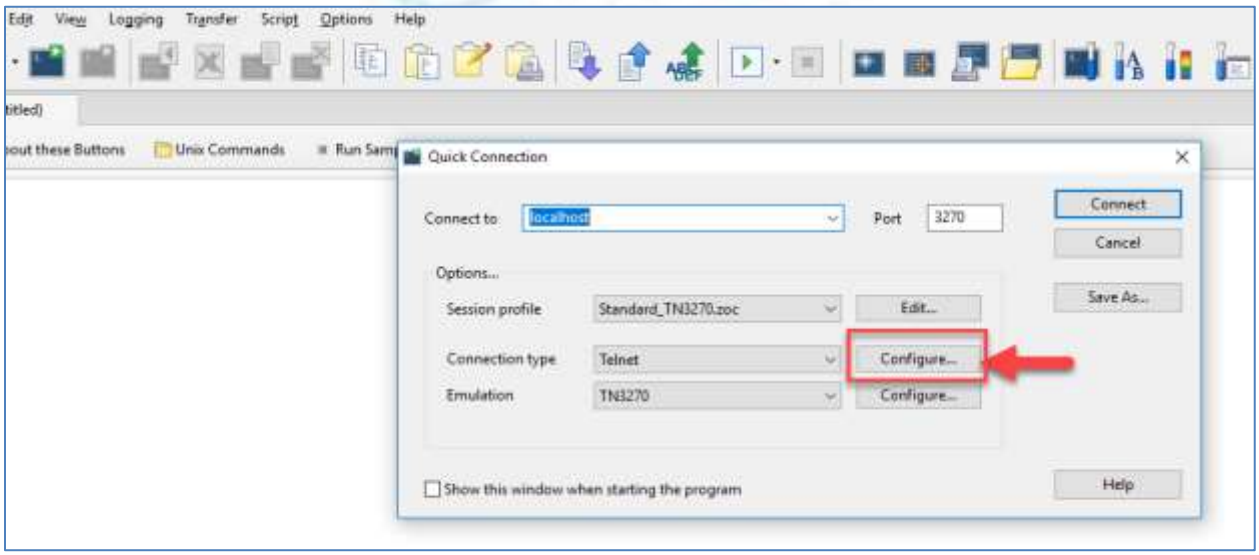


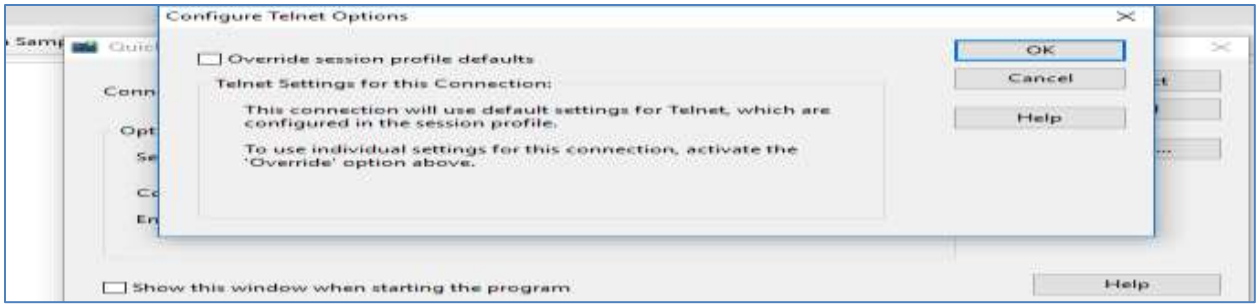
Step10: Change the settings like:

- ✓ 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

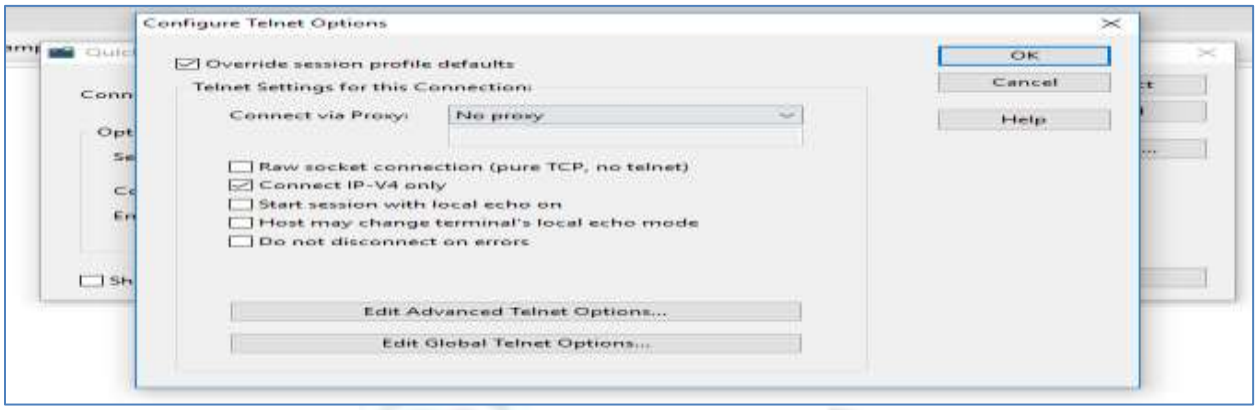


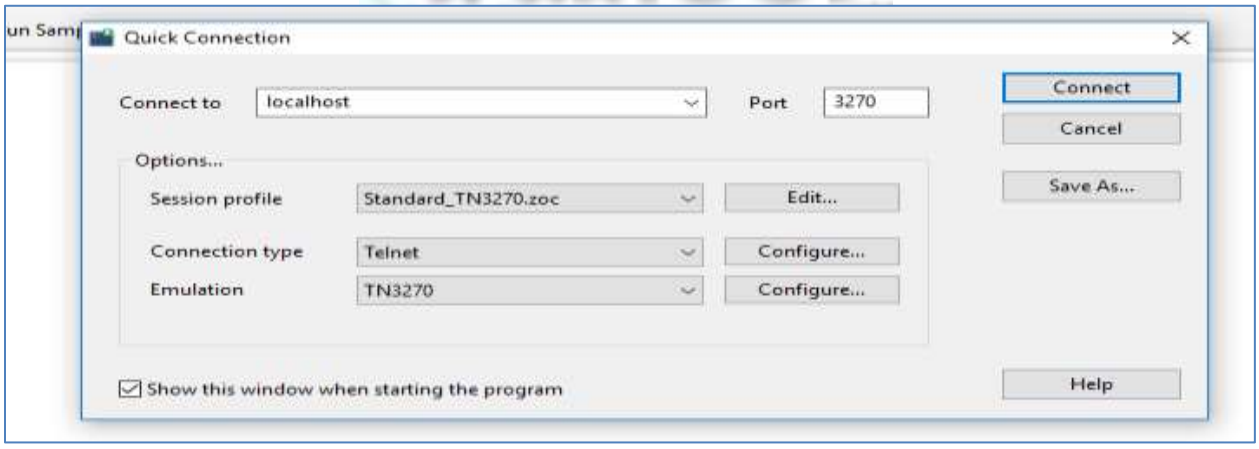
Step11: Check the box 'Show this window when starting the program' and click on configure.





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

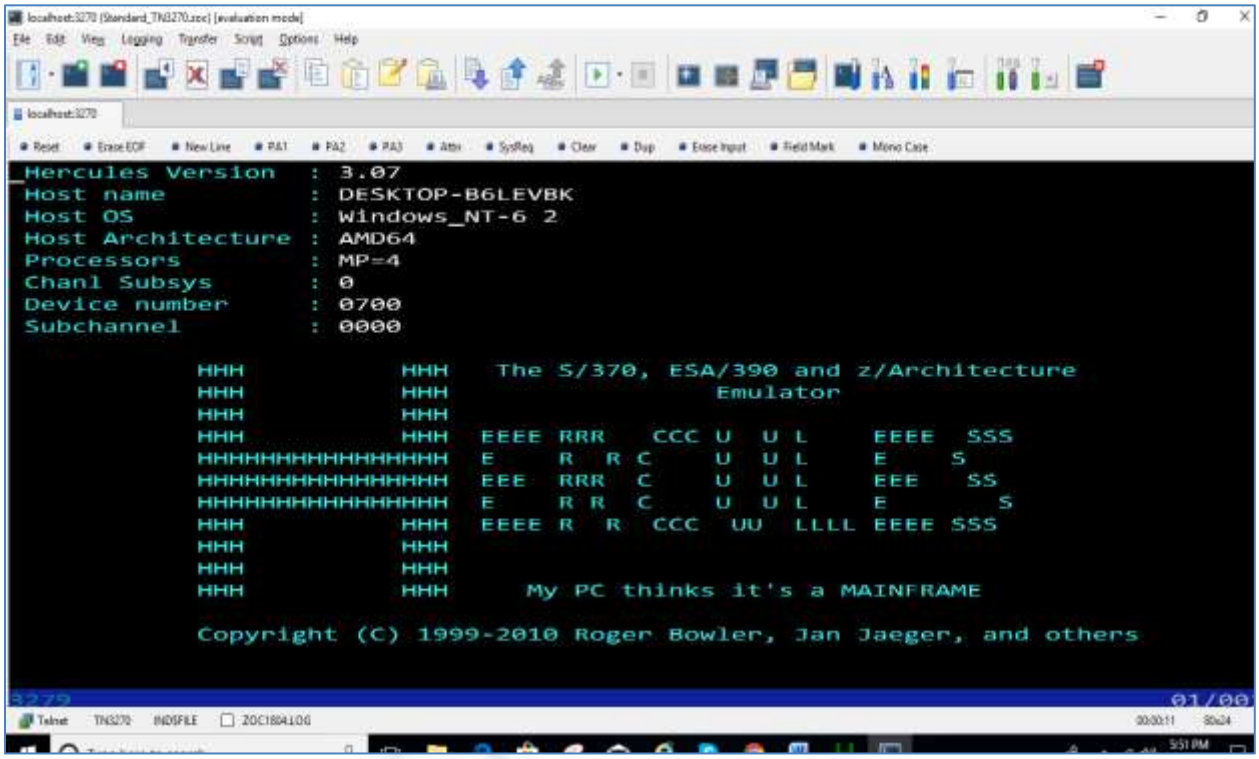




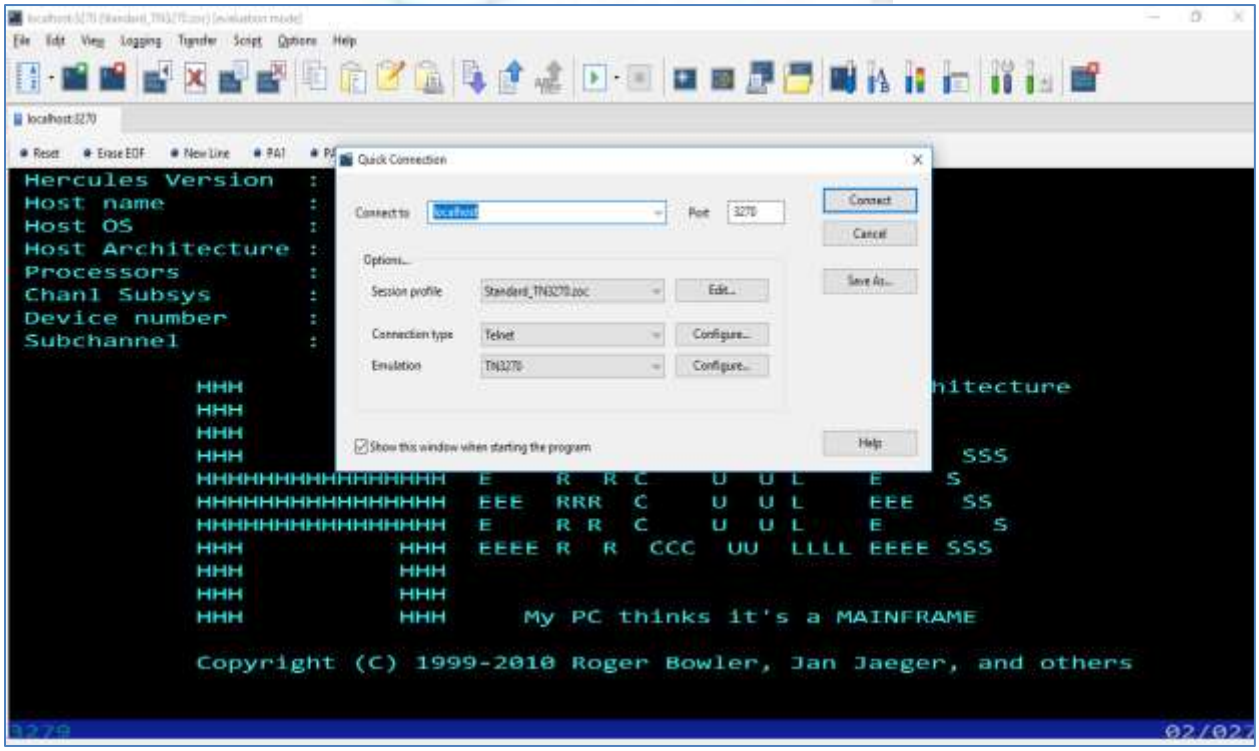
Note:

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.

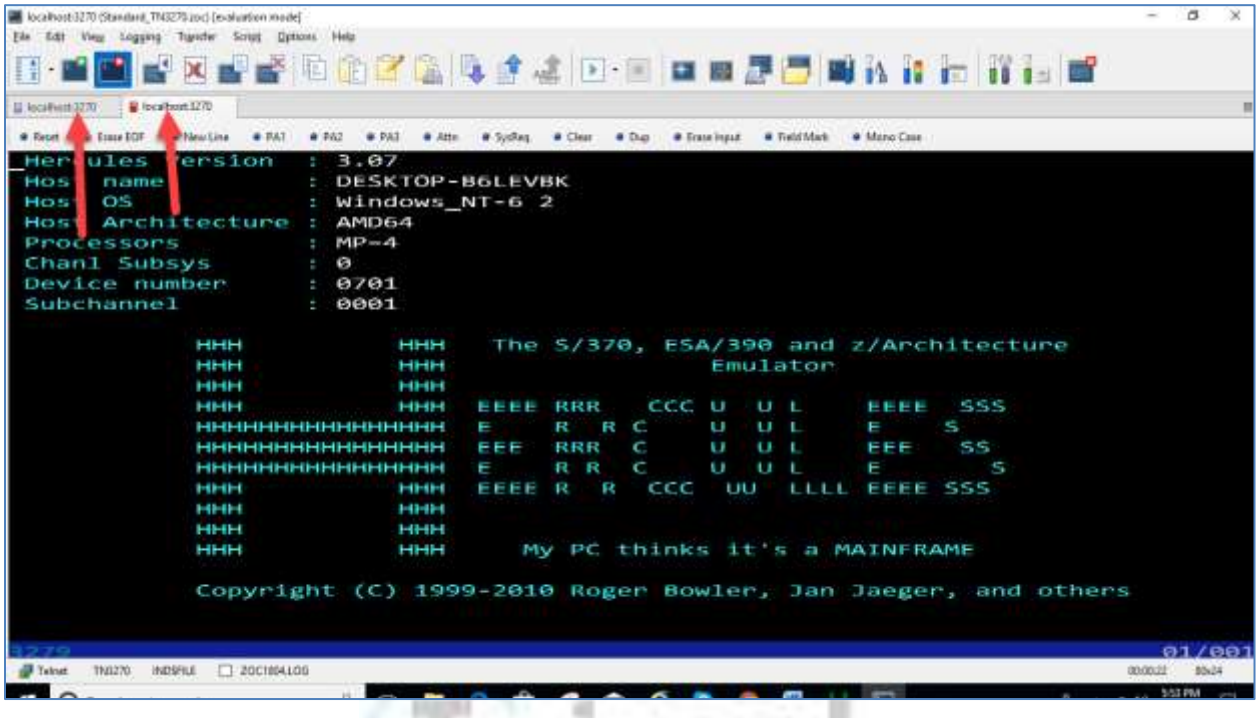
Step12: Click on Connect and you are connected as below-



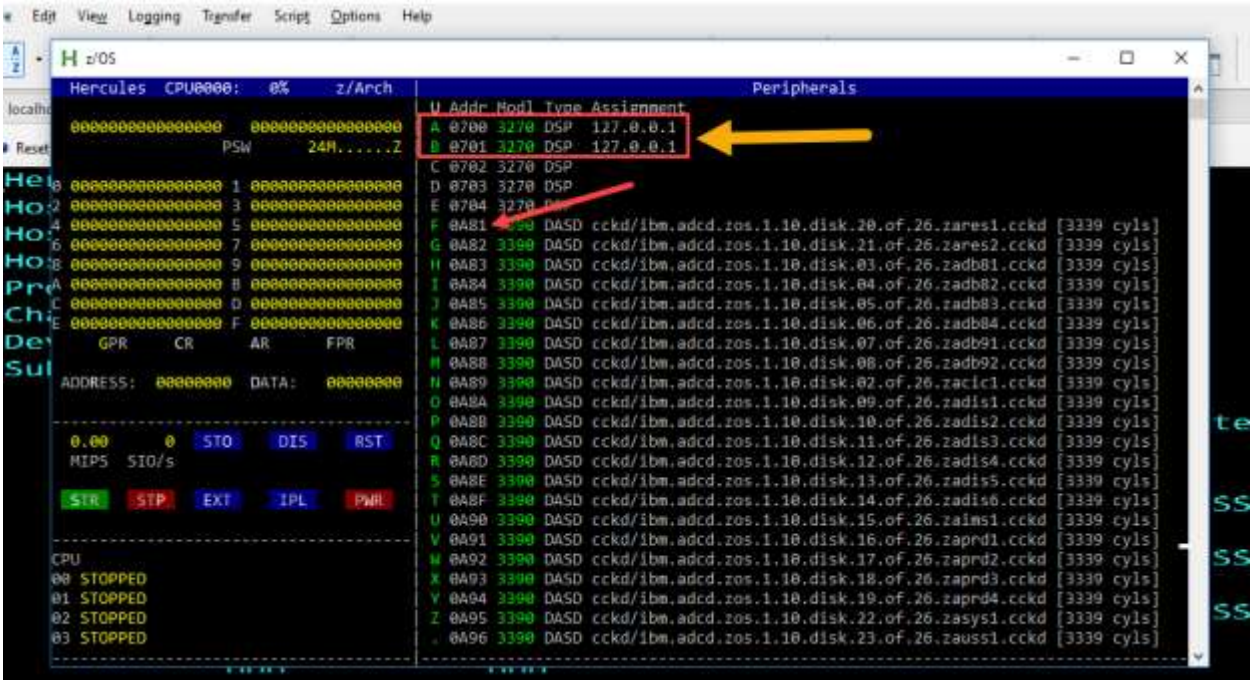
Step 13: Go to File -> Quick connection and you will see like below



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

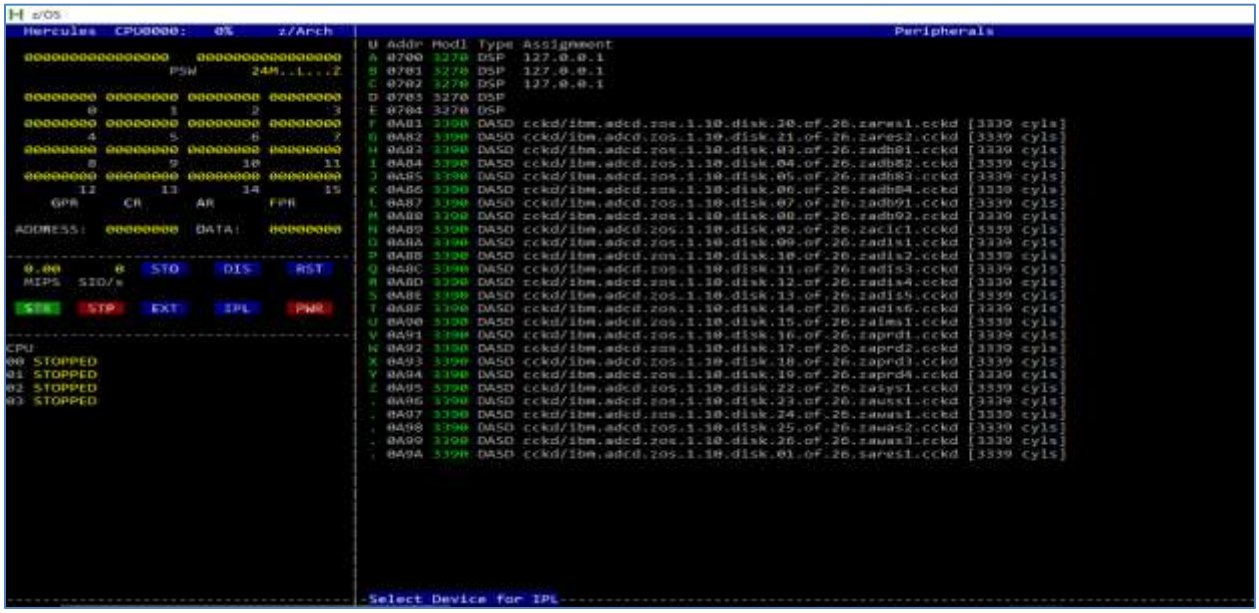


The same can be seen in Hercules as well as below:

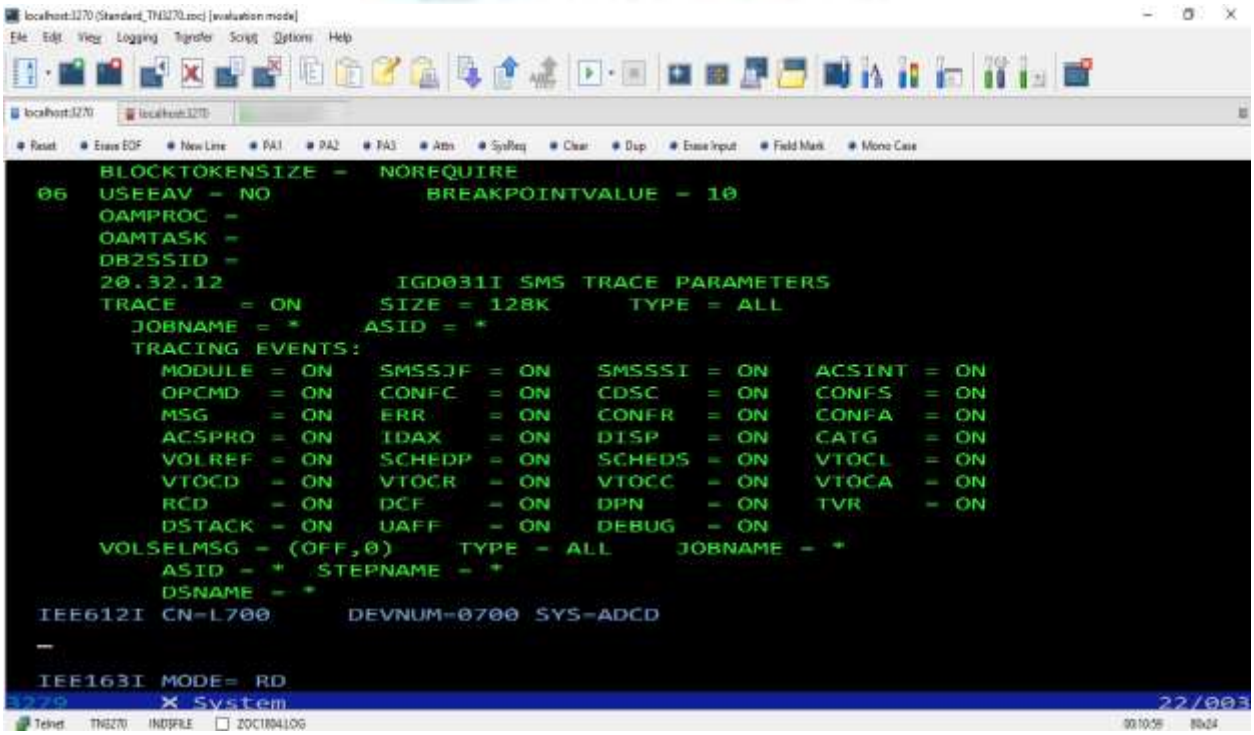


You should see the Z/OS image file mount started at device 0A81 in the above picture.

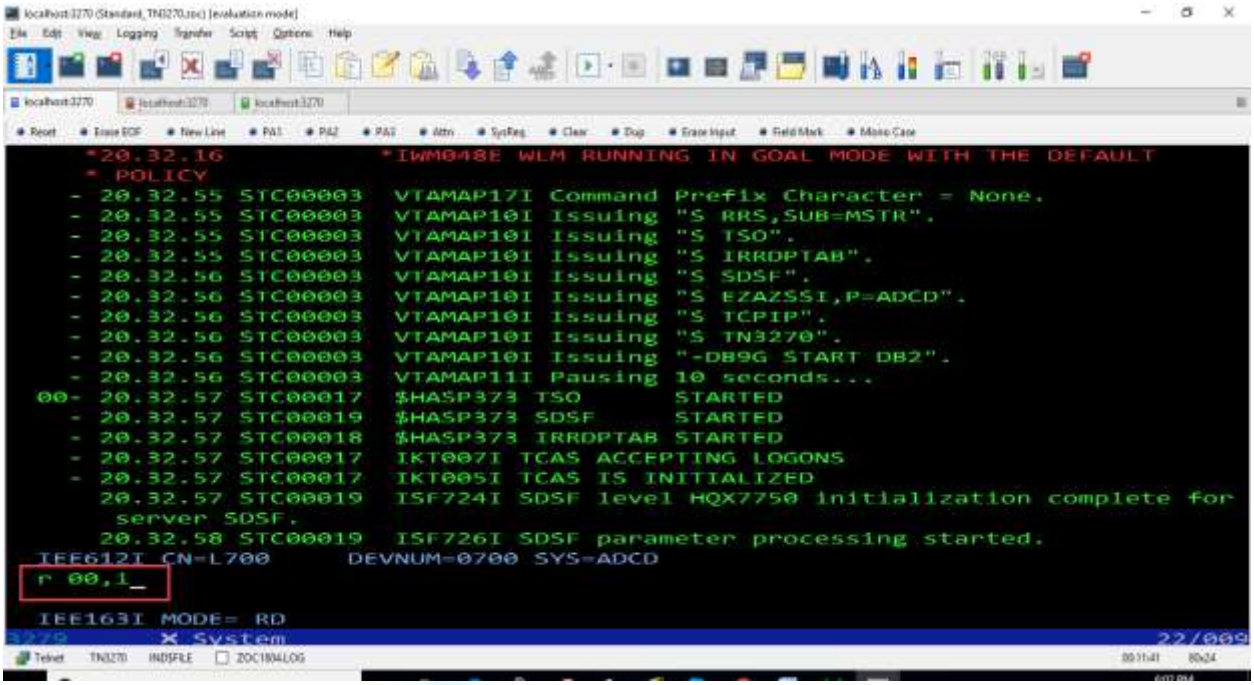
Step 15: Once you see that, Press ‘L’ for IPL and you can see a message ‘Select Device for IPL’ as below -



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:



Step 17: Reply 'I' to initialize the sysplex or 'r' to re-initialize XCF. Reply by either entering r00, r or r00,i as below:

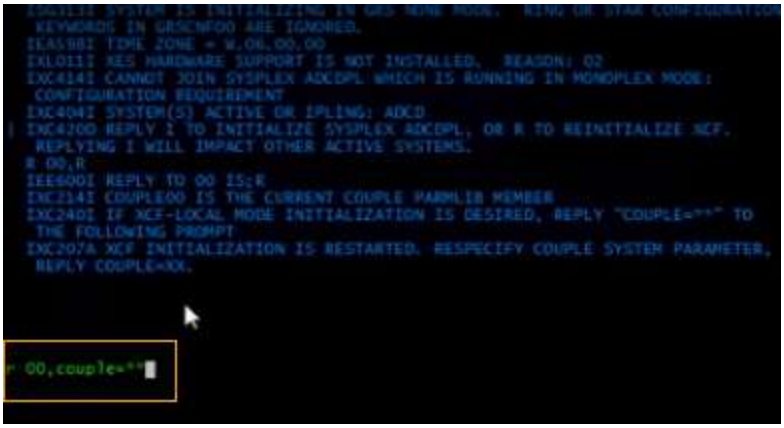


In some cases you might get like this:

Screen1:

Screen2:

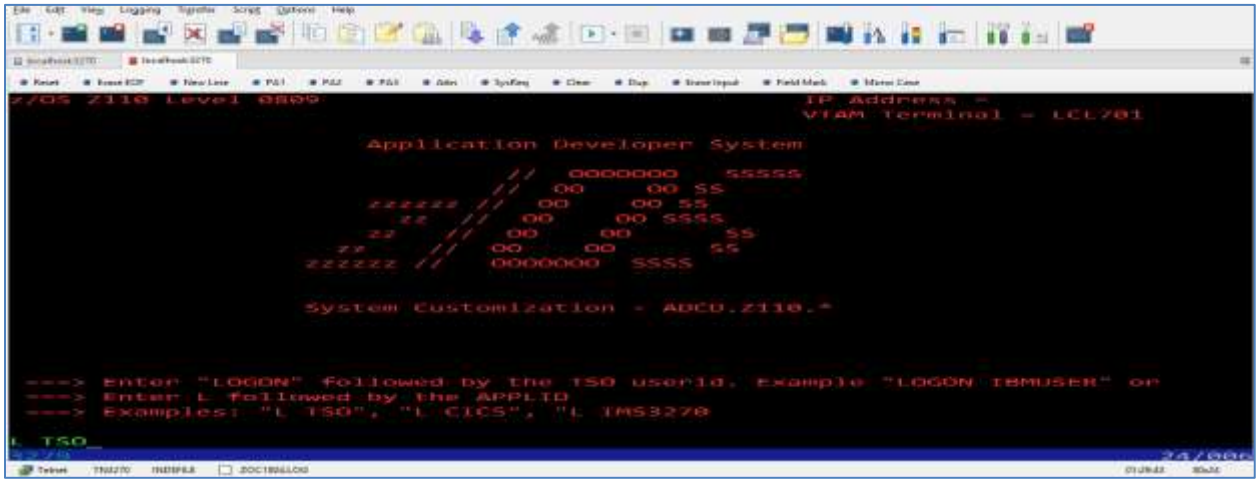
Here you can notice that it says 'REPLY COUPLE =XX' so in this case, you have to give R 00, couple=** as below –



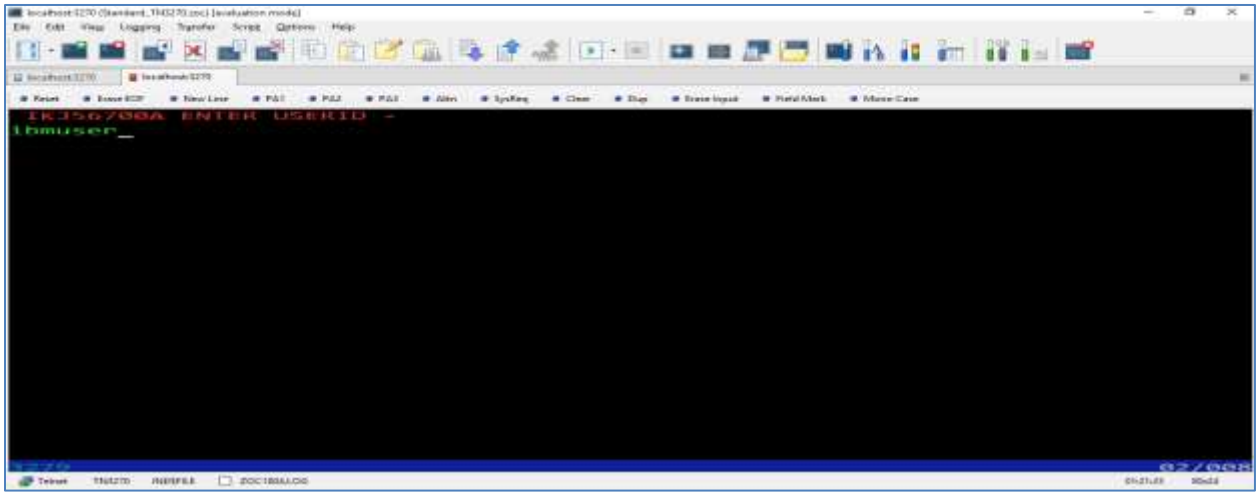
Note: Please follow screen 2 only when you get a screen like screen1.

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

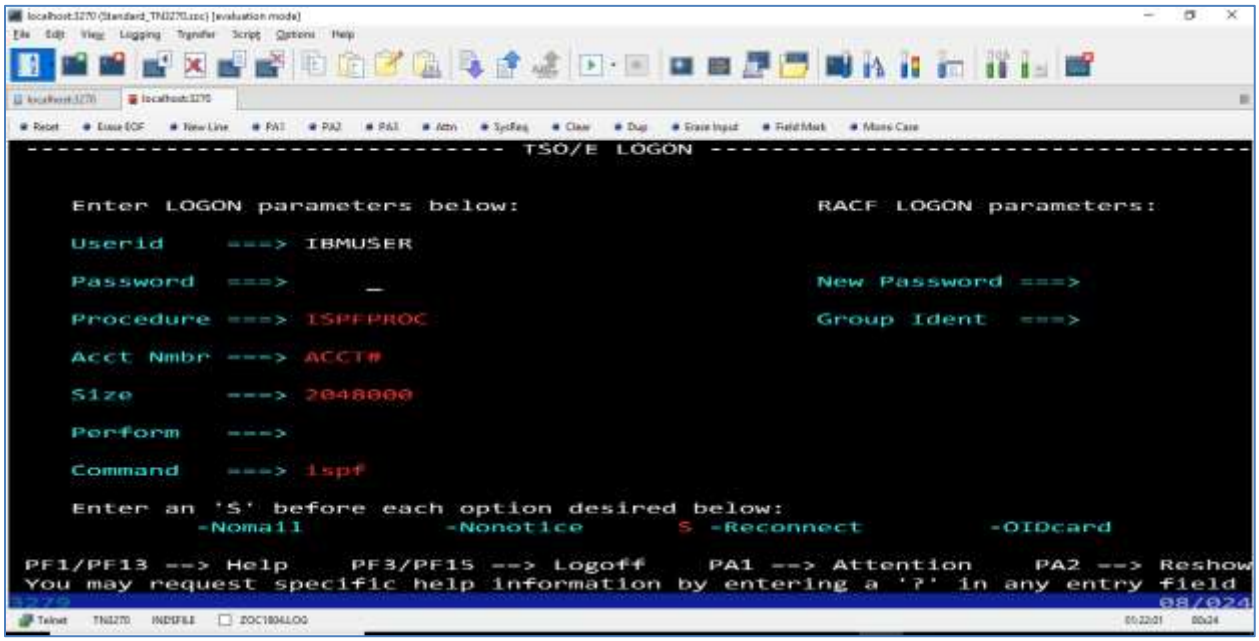
Step 19: Now, you can either give 'L TSO' or 'LOGON ibmuser' like below –



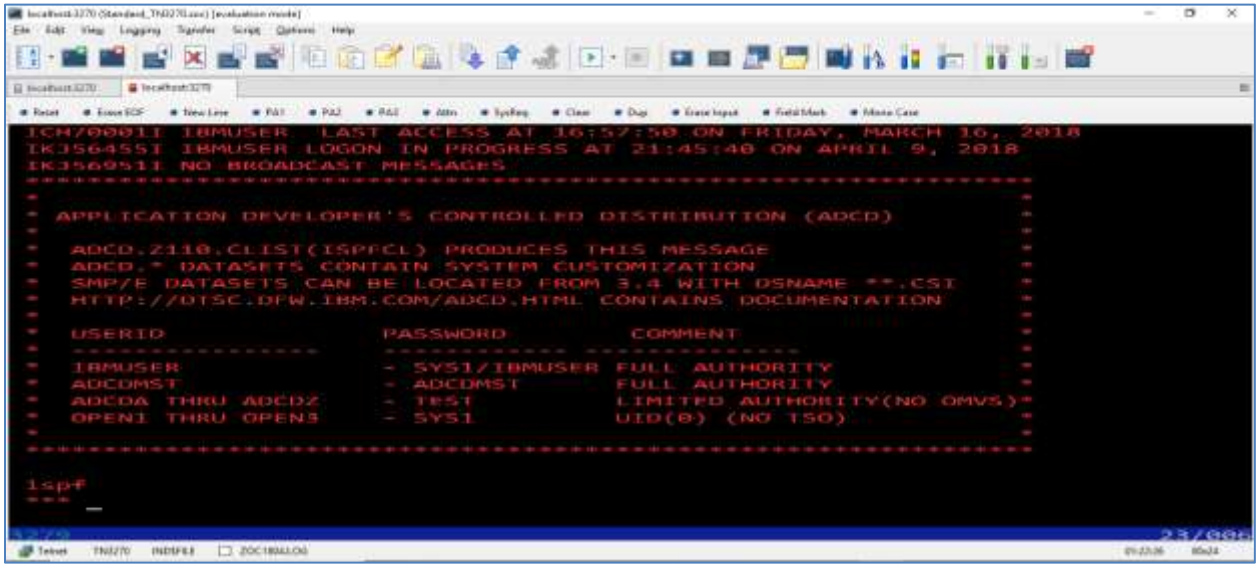
Give userid as – ibmuser



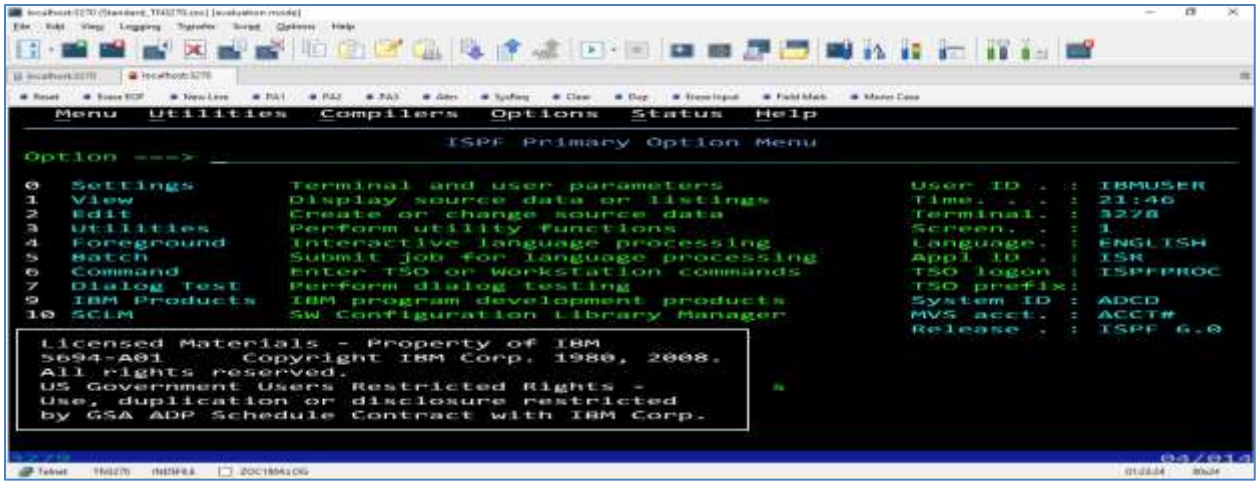
Give the password as SYS1 and press enter.



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



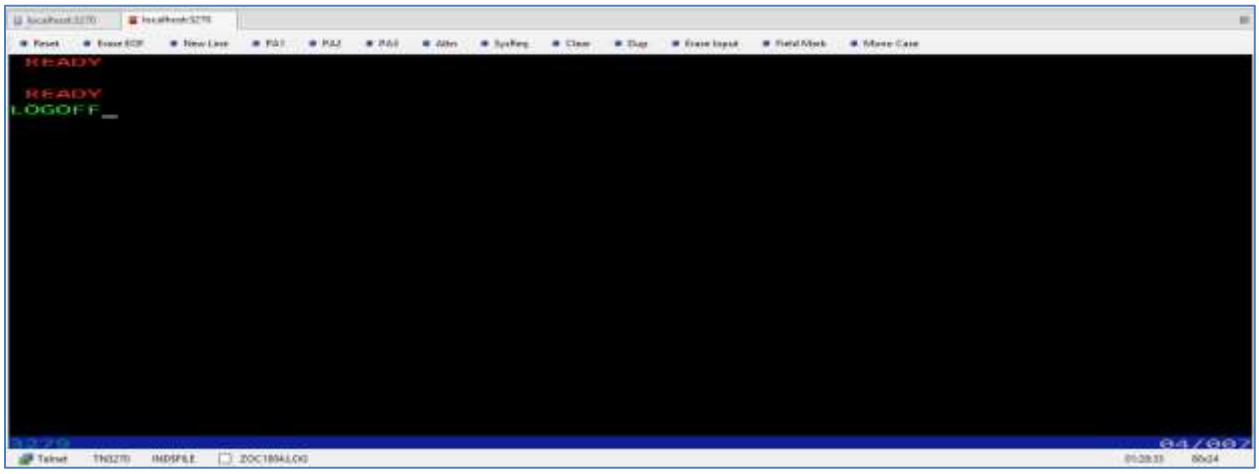
Again, press enter to go to ISPF Primary option menu as below –



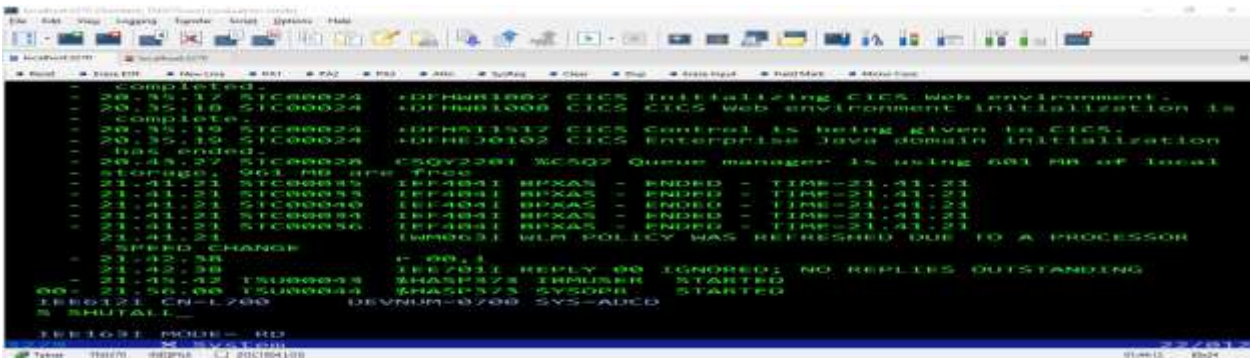
If you get ready prompt, you can give command 'ISPF' to go to the above screen

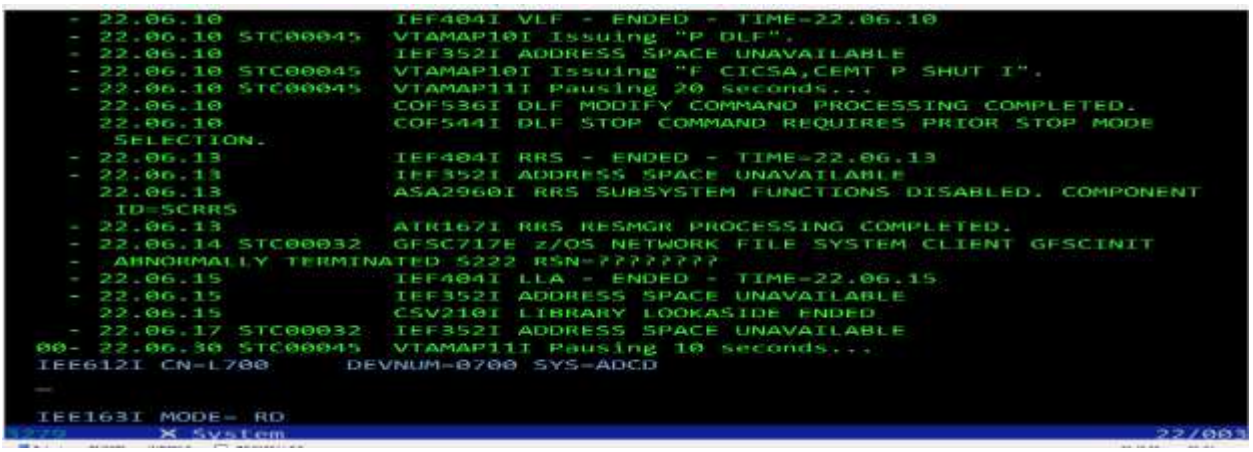
Step20: To logoff, keep on pressing F3 until you get like this –

Type **'LOGOFF'**



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





At end, just give ‘EXIT’