IBM Software Group

IBM Developer for z Systems – for ISPF Developers

Module 6 – Remote Systems - ISPF 3.x and Batch Job Management



Jon Sayles: jsayles@us.ibm.comn

IBM Trademarks and Copyrights

© Copyright IBM Corporation 2008 through 2019.

All rights reserved – including the right to use these materials for IDz instruction.

The information contained in these materials is provided for informational purposes only, and is provided AS IS without warranty of any kind, express or implied. IBM shall not be responsible for any damages arising out of the use of, or otherwise related to, these materials. Nothing contained in these materials is intended to, nor shall have the effect of, creating any warranties or representations from IBM or its suppliers or licensors, or altering the terms and conditions of the applicable license agreement governing the use of IBM software. References in these materials to IBM products, programs, or services do not imply that they will be available in all countries in which IBM operates.

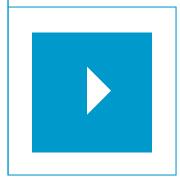
This information is based on current IBM product plans and strategy, which are subject to change by IBM without notice. Product release dates and/or capabilities referenced in these materials may change at any time at IBM's sole discretion based on market opportunities or other factors, and are not intended to be a commitment to future product or feature availability in any way.

IBM, the IBM logo, the on-demand business logo, Rational, the Rational logo, and other IBM Rational products and services are trademarks or registered trademarks of the International Business Machines Corporation, in the United States, other countries or both. Other company, product, or service names may be trademarks or service marks of others.



UNIT

The IDz Workbench



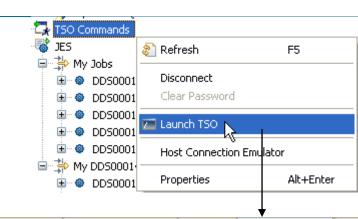
Topics:

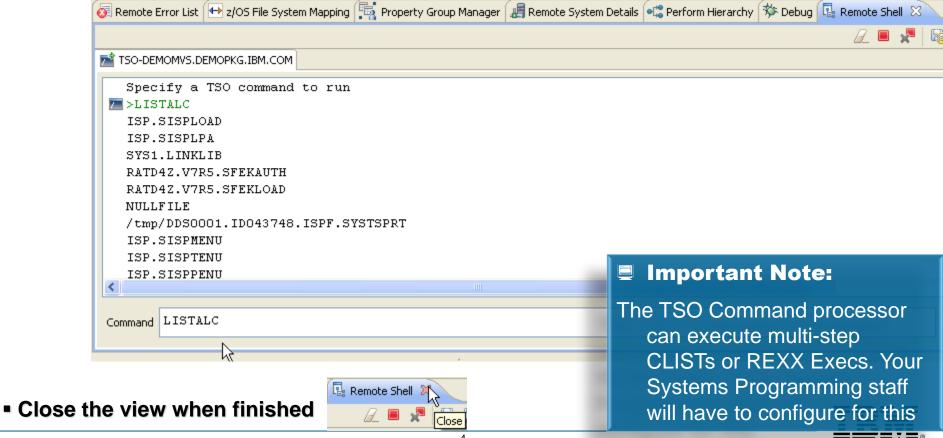
- z/OS Dataset Management
- Submit and Manage z/OS Jobs
- Issue TSO Commands and Host Connect Emulation



TSO commands

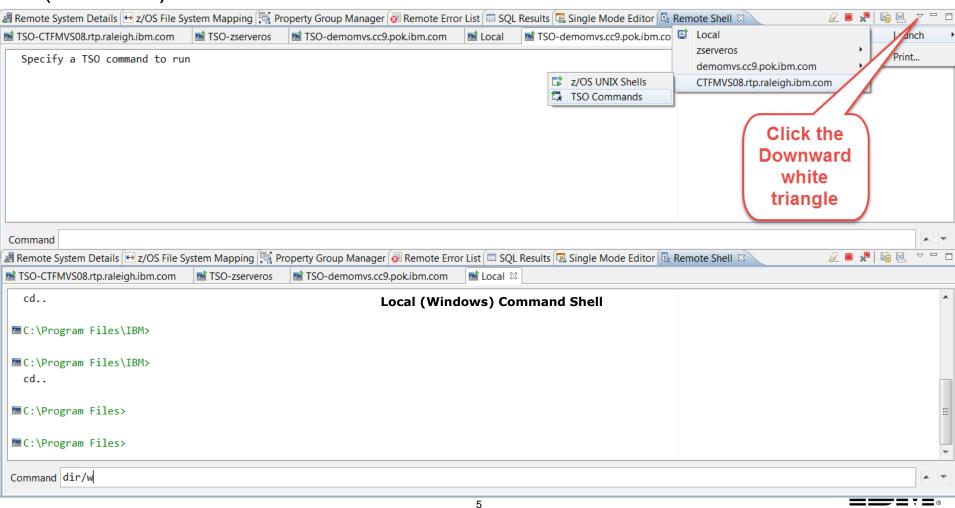
- Right-click TSO Commands, then select Launch TSO from the context menu.
- Enter a:
 - ▶ TSO command
 - **▶** CLIST
 - ▶ REXX Exec
- Press **Enter** (note the up/down arrows retrieve previous commands)





TSO Command Shell – As part of your default z/OS Projects Perspective

- You can add the TSO Command Shell to any Perspective
 - ▶ Window → Show View → Other → Remote Shell
- From a Command Shell you can issue Remote or Local (Windows) commands



Show View

remote

▲ Bemote Systems

Remote Index Search
Remote Monitor

Remote Scratchpad
Remote Search

Remote Shell

Remote System Details
Remote Systems

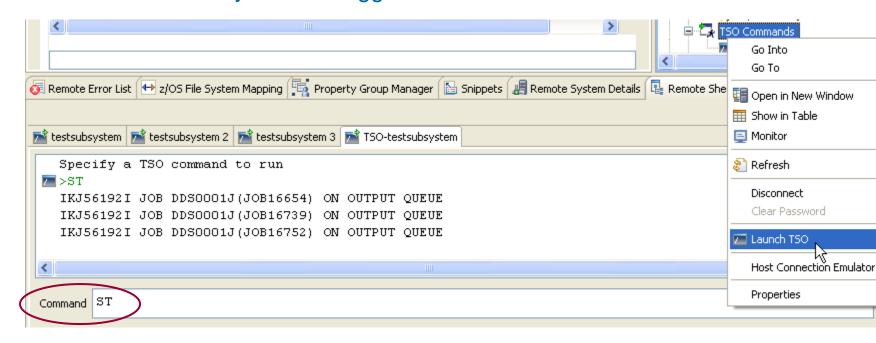
TPF Toolkit

Using the TSO Command Shell to Obtain Batch Job Status

- You may wish to know when your jobs have finished
 - ▶ Or to display active IMS and CICS regions, etc.

Steps:

- ▶ Keep a TSO Command view open
- ▶ Issue commands as if you were logged into native TSO



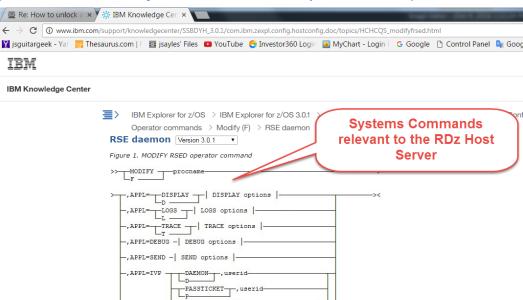


Unlocking a Dataset using IDz Host System Commands

- You will occasionally find that datasets are locked.
- To unlock them issue the following command from a TSO Command Shell:
 - F RS03040, APPL=C U=USER170
 - ▶ This will tell the IDz Server on port 3040 to cancel USER170.
 - ▶ This should also free all locks held by that user.
- If you're not the one holding the lock,
 - F R03040, APPL=D O, D=dsn (member)

▶ This will tell you who is (assuming it's somebody connected to port 3040)

the client will tell you as well



You will need Systems-Level

authority to issue this command

For more information on this topic:

http://www.ibm.com/support/knowledgecenter/SSBDYH 3.0.1/com.ibm.zexpl.config.hostconfig.doc/topics/HCHCOS modifyfrsed.html

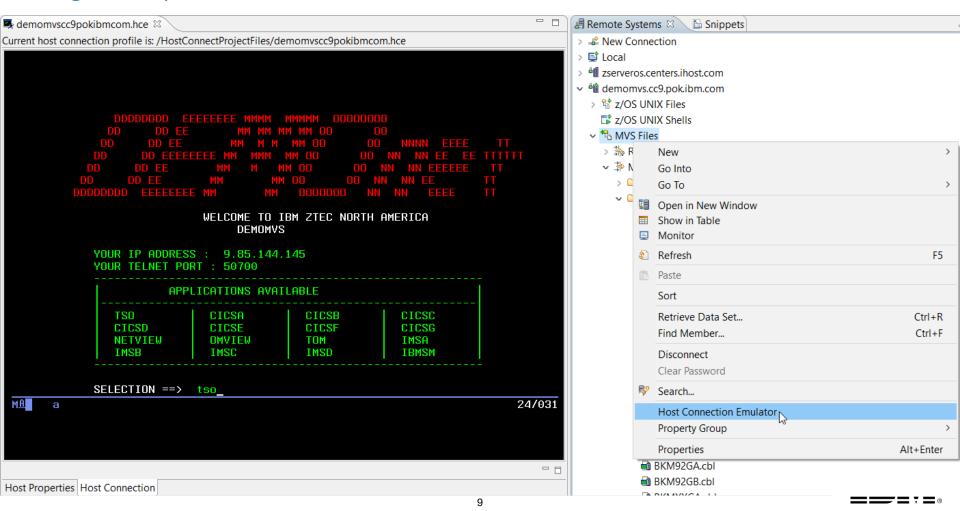
Issuing Multi-Step REXX Execs and CLISTs

- (z/OS Explorer) Host Config Guide Legacy and Interactive ISPF Gateway
- Interactive ISPF Gateway
- Upper Case
- Must prefix with TSO ...
- (can still abbreviate)
- Must be aware of Logon Proc (Properties off of TSO)
- Can't be in TSO Command Shell & HCE at the same time
- Must have separate LOGON Procs between HCE and TSO Command Shell



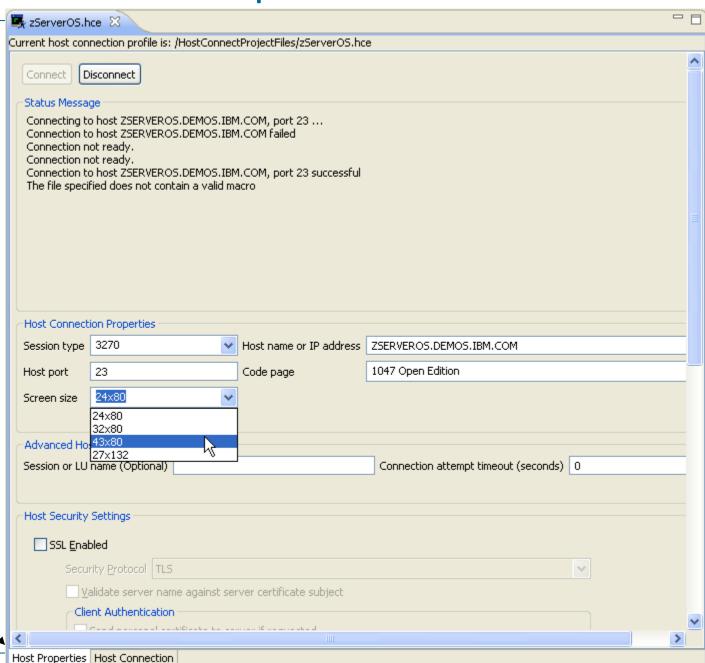
TSO Host Connection Emulation (HCE)

- Right-click over an RSE option
- From the Context Menu select Host Connection Emulator
- Select your mainframe application; TSO, IMS, CICS, etc.
- Login as per normal



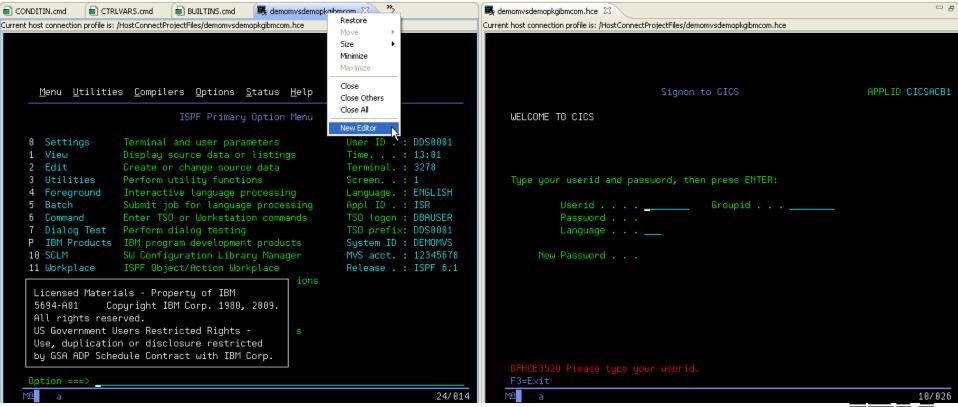
Customizing your Host Connection Properties

- From the Host Properties tab, you can change the following settings:
 - Screen size
 - ▶ LU name
 - For CICS and IMS testing
 - Code page
 - Connection timeout
 - Security



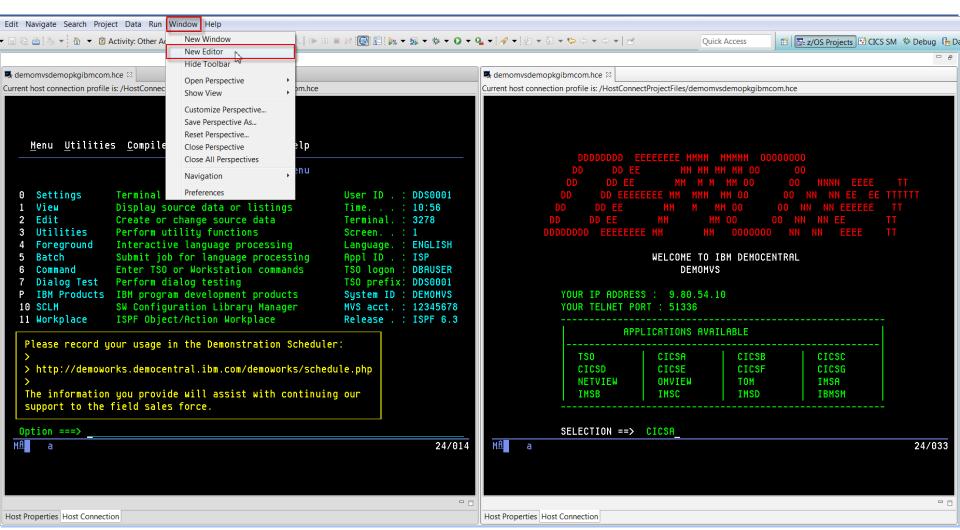
Connect to a Second LPAR from HCE

- You can connect to a separate LPAR or open a 2nd emulator session into a different subsystem:
 - Connect to your first LPAR using Host Connection Emulator
 - ▶ Right-click over the view tab
 - ▶ Select New Editor
 - ▶ Connect to z/OS through a 2nd emulation session



Connect to a Second LPAR from HCE – v9 and Later

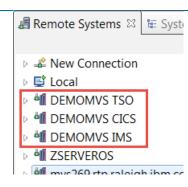
 If you are using IDz version 9 or later, access the New Editor functionality from the Window menu

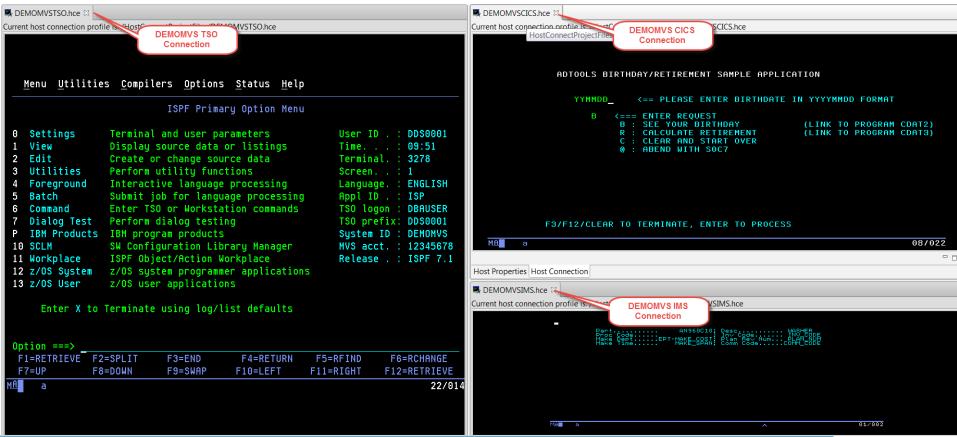




How can you tell which HCE window is which?

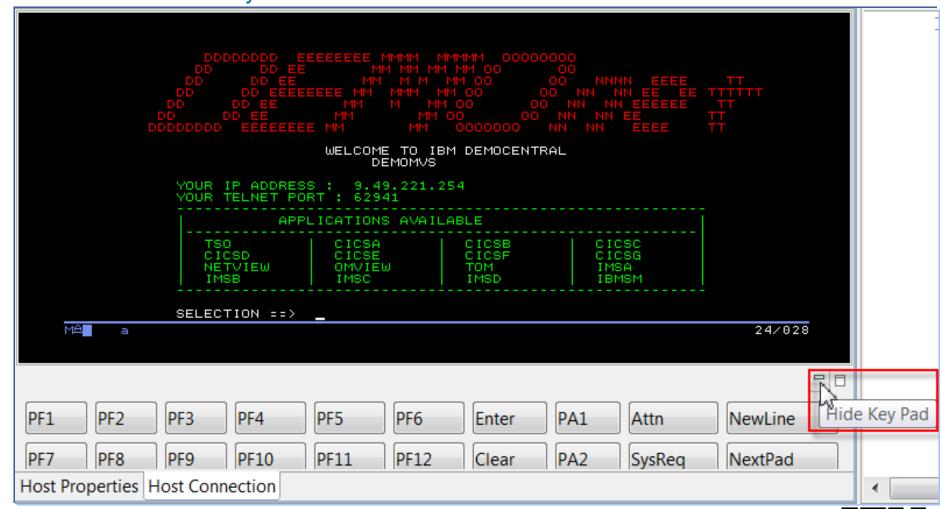
- The window for HCE will be named the RSE connection name
- If you want to uniquely identify HCE windows:
 - Create separate, named connections to your LPAR(s)
 - Launch Host Connection Emulator from the different connections





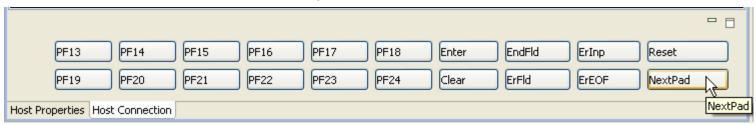
Hide/Show Keypad – for PF Keys in the Emulator

- Use the two icons on the bottom/right-hand side of the window, to:
 - ▶ Hide the PF-Key Pad
 - ▶ Show the PF-Key Pad

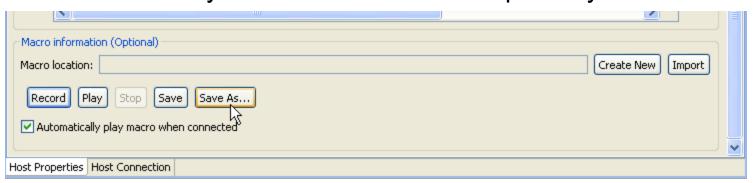


Other HCE Considerations

- HCE is a Java plugin it runs locally (on your desktop)
- To see next set of function keys, click: NextPad



You can Record/Play back/Save As... and Import keystrokes:



- Useful for:
 - Logging into multiple applids
 - Doing/playing regression test scripts
 - See next slide for details

You can create a macro to automatically log on to a remote system. Macros are captured key strokes and screen progressions that complete repeatable tasks.

Defining/Recording/Playing Back a Macro

Creating a macro

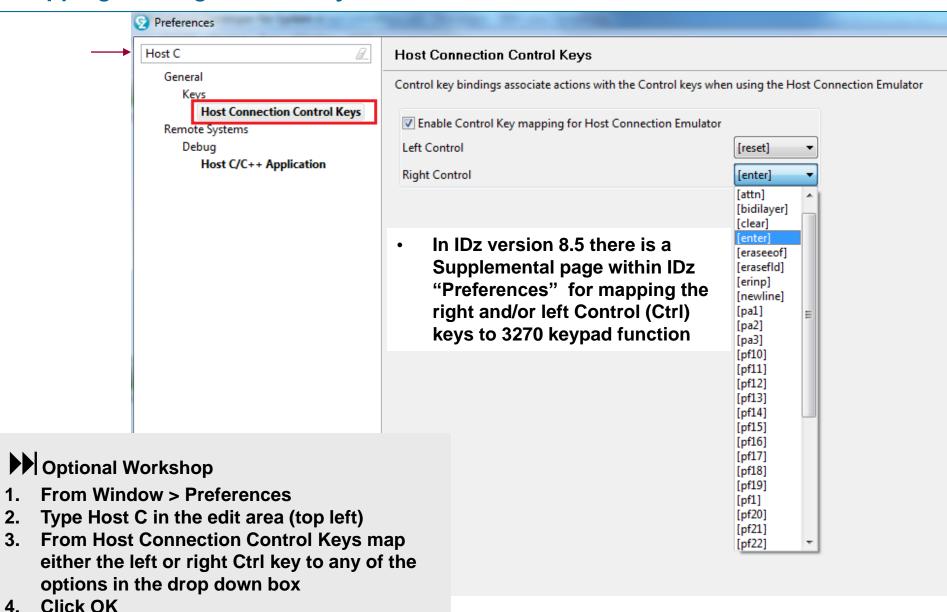
- Open the Host Properties page for the remote system to work with.
- ▶ Scroll to the Macro information area of the Host Properties page, and click **Create New**.
- ▶ In the Save As window, type a name for the macro and click **Save**.
 - A typical naming convention is a file name with a .macro file extension, such as: some_name.macro
- Click Record.
- ▶ From the Host Connection window, capture a sequence of key strokes
 - Note: Not GUI (mouse) development ... just keyboard activity
- ▶ To stop recording and save the macro, click:
 - Stop
 - Save

Playing a macro

- ▶ Import an existing macro from the file system and select Play.
 - This action plays the sequence that was recorded in the macro from the screen that was last open in the Host Connection Emulator window.
 - Note: If a macro must run from a particular screen, go to the required screen before starting the macro.



Mapping Left/Right "Ctrl" key in Host Connection Emulator - v8.5





Test your new control key mappings

Copying Remote Shell Commands to TSO Through Host Connection Emulation

 You can copy/paste Remote Shell commands from the Command line (or results window) up to TSO through Host Connection Emulator (HCE)

Steps

- 1. Issue the command in the Remote Shell
- 2. Select the command
- 3. Right-click and select Copy
- 4. Click inside of HCE
- 5. Press Ctrl/V
 - Note that there is no Context Menu, but Ctrl/V works

