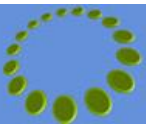


How to connect and use your lab on z Systems (mainframe)

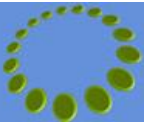


- Access to the lab network (VPN) is provided via an IBM Remote Lab Platform (IRLP) VM based jump box allocated in an on-demand environment provided by IBM Business partner Skytap running on SoftLayer infrastructure.
- The access method to the z Systems lab can and does change as delivery requirements and supported products change. Please use whatever access method is documented for your class and then continue with the general information on how to access the z Systems.
- General Notes for access via Skytap VMware based image.
 - Access URL's are sent to the Instructor and class contacts. The initial communication with the URL's will be sent *approximately 72 hours* prior to the start time of the class.

NOTE: The Skytap resources (via the access URL's) will NOT be active until approximately *23 hours prior* to the start of class.
 - Once the URL's show an active resource, the VM image will need to be "powered on". Use the "play" / "Run this VM" button to power on the image.

NOTE: The Instructor (or the students) should power on the VM images prior to starting labs as it can take a few minutes for the VM image to boot up.
 - At the end of day, if the student closes their browser, Skytap will eventually move the VM image into "suspended" status. Next time the VM image is needed just select the "play" / "Run this VM" button to reactivate the VM image and it will be activated in the same state as when suspended.

NOTE: It can take a little time for Skytap to resume the resources. In the meantime, it will present a screen capture of the image in its last known state....so the image looks like it is "ready", however, it may take a little longer before Skytap has the image fully functional. Be patient.
 - The "RESET VM" button should only be used if the student desires the complete VM image to be rebuilt from scratch. ALL work on the image will be lost. The risk is that the rebuild may not capture all the required network configuration. If the image is "reset" and you have no connectivity back to the z Systems lab environments, open a service request with



the Help Desk to get the configuration modified.

NOTE: It can take 10-20 minutes to fully reset the VM image and the network. All changes to the previous VM image are lost.



Reset Environment

- The Instructor session has tabs that allow it to view and control any of the class student sessions. **WARNING! If both the student and the Instructor attempt to control the keyboard on the VM image at the same time, it "could" cause a hang on the keyboard. If this occurs, one of the controlling sessions needs to release control by returning to the initial VM image screen. That should release the keyboard.**
- The Instructor can use their session's ["Course Lab Kit"](#) link to obtain z System resource information (z System ID & password information if available – otherwise reference lab materials). The "Reference ID" is to help the Instructor know which session is being controlled. The students only have a single tab. (I1 is Instructor and then Sx is students)

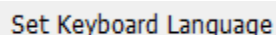
IBM Labs: ES07G

Reference ID: sch1071542.i1

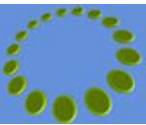
[Course Lab Kit](#)

I1 | S1 | S2 | S3 | S4

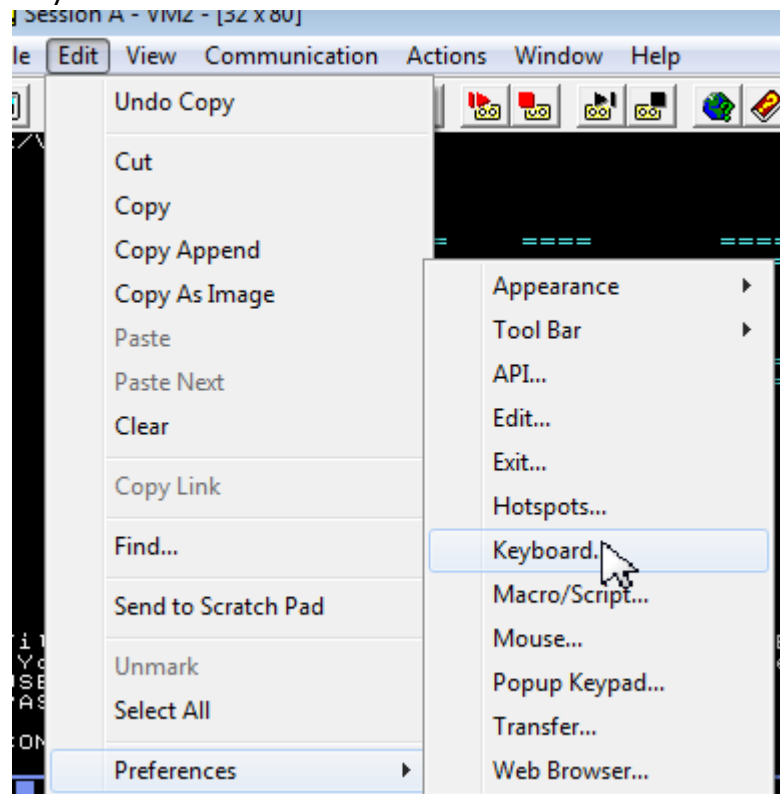
- The Instructor can select any of the student tabs to view or control the student VM images. Remember the note about possible keyboard hangs.
- The IRLP supports lab environments in English. However, if you desire to change the "language" for the keyboard, here are the general steps to make the change. (Course codes that have "course specific" VM images may not support language changes.)
 - On the URL session, Use the "Set Keyboard Language" button. If your VM image is already started, shut the VM image down clean (Windows shutdown) and then start the language change.

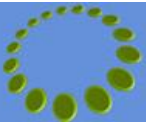


Set Keyboard Language

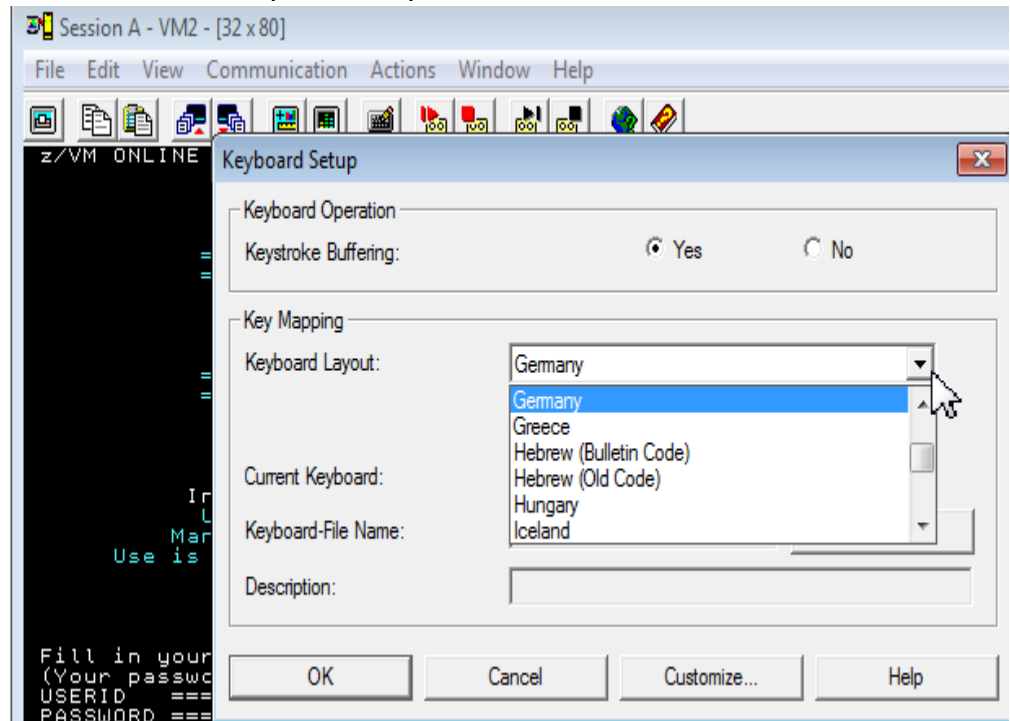


- The above change will force the VM image to power down if you did not shut it down clean prior to the change.
- Next update the language on the VM image by starting the image and using the "Region and Language" settings. Display change will require a "log off" / "log on" of the VM image.
- Remember to change keyboard language in Personal Communications session setup after the language update.
 - In Personal Communications click on "Edit > Preferences > Keyboard"





- Select the new keyboard layout.

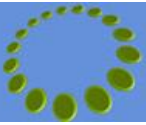


- You may need to logoff / logon to the VM image to complete all language changes.

- **Usage Notes:**

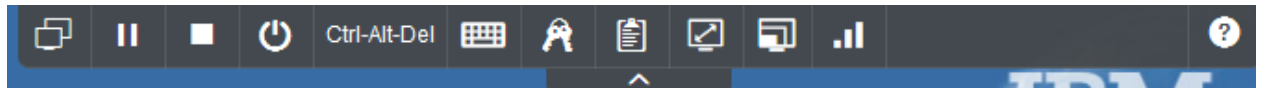
- The “generic” image uses the right “Ctrl” key as the “Enter” key in Personal Communications.
- If you have problems with text input use the “tab” or “space” bars to shift control of the window to the VM image.
- If you have problems with “caret browsing” (mouse navigation) you may need to modify your browser configuration to disable. For Firefox and IE, F7 should turn caret on / off
- The buttons on the Skytap window help control the VMware environment:





- The screen size of the VM image display can be modified using the session control keys. It will be a different setting for every user depending on the local PC image resolution. To get to full screen, these steps are a suggestion:
 - Make sure your VM image is powered up.
 - Select the "Full Screen" button
 - Use the "height" buttons to make the VM image display boundaries be at the bottom of the screen.
 - Use the "Fit to Window" button to adjust the display to fit the full VM window screen (avoids scrolling to see the full display).
 - Use the "Change Resolution" button to adjust the VM screen resolution to fit the current browser window size.

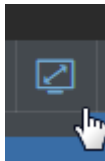
- The buttons in the tool bar at the top of the VM image help control the VM image.



- Place your cursor over each icon to show the icon title. The following URL has information about each tool bar icon:

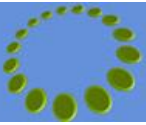
- <http://help.skytap.com/VMClient.html>

- Fit to Window

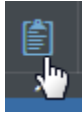


- Credentials has the VM image ID and passwords that can be viewed or inserted into the VM session.





- Clipboard - This can be very tricky. It is a "staging" clip board environment between the VM image and the local PC.



- Additional Help is in the clipboard window.

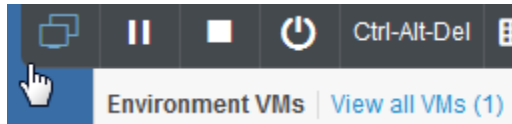
<p>Copy from your local machine to a VM:</p> <p>Paste content from your local machine into the copy/paste area above. You can then paste that content within the VM. Learn more.</p>	<p>Copy from a VM to your local machine:</p> <p>Selecting content within the VM populates the copy/paste area. Select and copy the contents of this field to paste locally. Learn more.</p>
---	--

- You have to recopy the contents of the VM clipboard to your local PC clipboard and then you can paste into a chat or an email on your local PC. Use the "[learn more](#)" for additional examples.
- Power Options for controlling how you shut down the VM image.



ptions

- Environment VM's gets you back to the original session view in Skytap



- Change Resolution

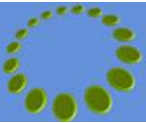


- Network Quality (You will need this information if reporting response time issues)



- Once the VM image is active you can use the Personal Communications, browser or client icons to access the z Systems labs.

- **Performance Notes:**
 - Screen resolution can impact the performance between the local PC and the Skytap VM image.
 - You may need increased cache amounts in Firefox browser to help performance. If you continue to experience slow response, we recommend you try another browser (Google Chrome Browser supports this type image very well).
 - If reporting performance issues, include the network quality information from your session.



Now you'll need to determine the **delivery method** (POKEDVM2, ESSMVS1 or Sysplex) and the **host system** assigned for each 'class number / course code' and 'country'.

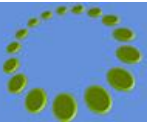
For that, you can use the **"Course Lab Kit"** link or you can use the VM image browser to connect to the z Systems schedule web site (**using the browser published in your VM image**) at the address: <http://iteszos.ilsvpn.ibm.com> and look under "Schedules" and "Current Week" (Or possibly "Next Week").

Example :

Note: Resource assignments are subject to change until class begins

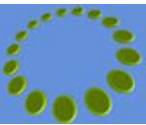
Week	Course	CL##	LOC.	VM/MVS_IDS	Ext_CL_No	MAST	START	END	Environment
Classes on Guest Systems on VM2									
1	BE87G	1095	US	MVSR71 TSOGA01,...,TSOGZ01	1071095	BE87G	03/21/17	03/23/17	VM2
Classes on MVS1 System									
	CM22G	1552	ZZ	TSOIM40-48 STUDENT	1071552	CM22G	03/20/17	03/21/17	MVS1
Classes Using Dedicated SYSPLEX Labs									
	ES24G	1592	FR	PLEX 1,3,5,7	1071592	ES24G	03/22/17	03/24/17	SYSPLEX
Classes on Various Other Systems									
	ES96G	7870	PL	ES96001-20 MVS7,ES96IN1-2	1067870	ES96G	03/20/17	03/23/17	OTHER

Connect to the system using information gathered in previous steps. Use one of the following ways to connect depending on the delivery method:



•[Via pre-defined PCOM session](#): See the Sysplex specific document you should have already received.

WARNING: The PLEX resources assigned to your class are noted on the schedule site and in the email that is sent by our team. If a class uses any PLEX or HMC resources other than what is assigned to that class, then the offending class ID's will be immediately revoked!!!



Example 1:

Course **WM814G** class **7102** environment **VM2** system **MVSNG01** TSO ids **TSOCP01-12**

➔ Connect to pokedvm2.ilsvpn.ibm.com ➔ Do a DIAL MVSNG01 ➔ Use TSO ids TSOCP01 to TSOCP12 with initial password B471024B
OR

➔ Connect to mvsng01.ilsvpn.ibm.com ➔ Use TSO ids TSOCP01 to TSOCP12 with initial password B471024B

Example 2:

Course **ES52G** class **WKEK** environment **MVS1** TSO ids **TSODF00-19**

➔ Connect to essmvs1.ilsvpn.ibm.com ➔ Use TSO ids TSODF00 to TSODF19 with initial password B4WKEK4B

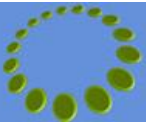
➔ Connect to esscmc1.ilsvpn.ibm.com ➔ Use F2 or enter TSOE or ESSMVS1 on the application screen. Use TSO ids TSODF00 to TSODF19 with initial password B4WKEK4B

Instructor ID's on MVS1 are only for assisting students. They are not provisioned for lab use.

Example 3:

Course **ES42G** class **1004270** environment **SYSPLEX** TSO ids **ES24001-008**

➔ Connect to esscmc1.ilsvpn.ibm.com ➔ Use F7 / F8 to scroll the application list to find your assigned PLEX. Use TSO ids ES24001 to ES24008 with initial password ***** (you should find the password in the received email)



4) Refer to course material for the description of the Lab environment. Other useful information may be found at the z Systems schedule web site ([using the browser in your VM image](#)) at the address: <http://iteszos.ilsvpn.ibm.com> .

This site contains Environment information for each course code (listed alphabetically on the left of the frame). Use the links across the top of the course display to display different information segments.

Example 1:

Course WM816G

➔ Expand section S-Z on the left pane ➔ Click on WM816 WW

Welcome System IPL How to logon TCP/IP Environment Userids Delivery Info

WM816 Environment

Welcome to WM816 "CICS V5.3 Systems Tailoring and Administration"

Document history

- 20160817: ERC 1.0 to production, GH

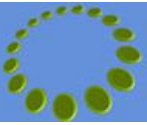
This documentation refers to **WM816 V1.0** from the International Repository.
OS Level: **z/OS 2.2**
CICS Level: **5.3**
DB2 Level: **10.1**
VMWARE Association: **WM816_W2k8_1.0**

- This class runs as a virtual guest system on POKEDVM2.
- The Instructor should go **COMPLETELY** through all the associated labs prior to attempting to teach a production class.
- Resources are available only if a class or test is scheduled in the IBM RLP Web portal.
- A connection information email will be sent prior to the start of class.

Help Desk:
[Help Desk Contact Information](#)

Reservations are made via the Class Manager and must be booked in the [IBM RLP Web Portal](#) to reserve resources.

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Example 2:

Course ES07G

➔ Expand section E-L on the left pane ➔ Click on ES07

Home

News

Courses

A-D

E-L

- [ES07 WW](#)
- [ES10 WW](#)
- [ES10G WW](#)
- [ES15 WW](#)
- [ES19 WW](#)
- [ES24G WW](#)
- [ES26G WW](#)
- [ES27G WW](#)
- [ES28G WW](#)
- [ES34G WW](#)
- [ES35G WW](#)
- [ES40 WW](#)
- [ES41 WW](#)
- [ES42G WW](#)
- [ES52 WW](#)
- [ES54 WW](#)
- [ES66 WW](#)
- [ES68 WW](#)
- [ES73G WW](#)
- [ES82G WW](#)
- [ES84G WW](#)
- [ES85G WW](#)
- [ES88 WW](#)
- [ES90G WW](#)
- [ES96 WW](#)

Welcome System IPL How to logon Userids Delivery Info

ES07 Environment

Welcome to the ES07 "z/OS Job Control Language and Utilities"

Document history

- 20070801: create this document, WK
- 20110928: ES07 V4.0 / #100589 / Move to Production, LC
- 20110928: Update <http://iteszos.ilsvpn.ibm.com/>, PE
- 20150223: Update to ERC V5.0, CW
- 20160430: Upgraded to z/OS 2.2, MM

This documentation refers to **ES07 V5.0** from the International Repository.
Lab System: **ESSMVS1 (MVS1 / TSOE)**
OS Level: **z/OS 2.2**

- This class runs on shared host ESSMVS1 (TSOE / MVS1).
- The Instructor should go **COMPLETELY** through all the associated labs prior to attempting to teach a production class.
- Resources are available only if a class or test is scheduled in the IBM RLP Web portal.
- A connection information email will be sent prior to the start of class.

Help Desk:
[Help Desk Contact Information](#)

Reservations are made via the Class Manager and must be booked in the [IBM RLP Web Portal](#) to reserve resources.

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