



Lab Exercise Guide

10181: Modernizing CICS applications with Java

10182: Modernizing CICS applications with Java

10180: When it comes to CICS, it's all about the API

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Using the web browser, access the lab using the following URL: https://emitchj.github.io/WSC-CICSzVA-Registration/

Lab Environment Connection Instructions

Open a browser window and enter URL https://emitchj.github.io/WSC-CICSzVA-Registration/

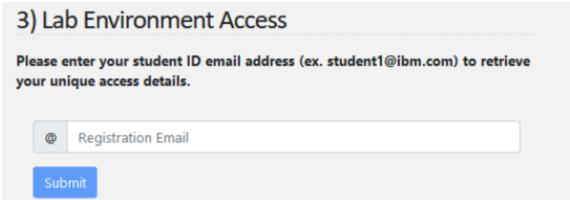
From this site you will see links to various materials.

The first link is to this document and the second link is to a document with important information about the virtual lab environment as well as some information on using a 3270 emulator in the environment.

The next section contains links to the various lab exercises. During the lab you most likely will only have time to perform one of the exercises. Click on the link of the exercise that you want to do and download the lab exercise workbook to your desktop. You will use this to guide you through the lab.

The final section is used to obtain credentials for your personal virtual lab environment. At your workstation located a note that identifies your student id. (i.e., student1@ibm.com)

Under the section entitled "Accessing the hands-on lab", enter your assigned lab student id in the form and click "Submit".



You will see connection details that look like this:

Below is the information you will need to access the exercises:

Using a web browser

Enter this URL address in the browser's URL area:

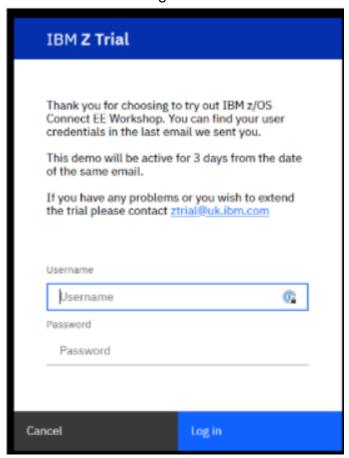
https://T-5249-169-59-184-51.ibmztrialmachines.com/

Authentication with username: Administrator

Using password: MD5EwwBDrJ1E2gYh3IED

Here is how to use the credentials:

- Copy the address that appears beneath "URL" in the connection details and paste it into the address bar of your browser.
- The page will then present a login window. Use the username that appears under "User ID for Web browser" in the connection details and the password that appears under "Password" and click "Log in".



Available Lab Exercises

10181: Modernizing CICS applications with Java

- L20 SOAP based web services.
- L90 JSON based web services.
- L93 RESTful JSON with LINK to COBOL program using JSON and JAX-RS

10182: Modernizing CICS applications with Java

- L34 How to deploy a CICS application program coded in Java using the OSGi JVM
- L72 Java Servlet with LINK to COBOL program
- L93 RESTful JSON with LINK to COBOL program using JSON and JAX-RS

10180: When it comes to CICS, it's all about the API

- L90 JSON based web services.
- L93 RESTful JSON with LINK to COBOL program using JSON and JAX-RS
- Lxx Developing RESTful APIs for a CICS Channel program

Lab Exercise Key:

(z/OS Userids, Password, Port, etc)

The labs have symbols which you will need to substitute. Symbols look like this: <zOS_userid>.CICSLAB.UTIL

You will substitute using one of these values:

- <zOS userid>: USER1
- <zOS_Password> : USER1
- <CICS Port: 1423 (used for all labs except Liberty labs)
- <CICS_APPLID> : CICS1
- <Servlet_JSP_Port>: 1424 (used for Liberty labs)
- <zOS_DNS_Name> : ws31.washington.ibm.com

Results:

USER1.CICSLAB.UTIL

Note: Screen shots are NOT 100% accurate. Follow the text explanations rather than what you see in the screen shot.

Personal Communications Emulator Tips

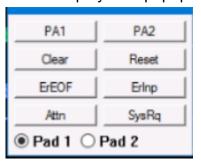
Note: The 3270-terminal sessions for TSO and OMVS screen shots in these exercises are shown in reverse video simply for printing purposes.

There are 3270-emulator keyboard mapping issues encountered when using a web browser to access Windows desktop. As a result, not all keyboard mappings described in this document may not work as intended.

Below is a guide to help you resolve issues if you have inconsistent or non-working 3270 keys.

Any references to the Enter key in non-3270 windows, OMVS terminal session, etc. refers to the key labeled Enter on the keyboard.

- The 3270-emulator used for this workshop (IBM Personal Communication) maps the 3270 *enter* key to the right Ctrl key (see below). If the right Ctrl key does not work, try using the key labeled Enter or Return on your keyboard.
- The 3270 newline key has been mapped to the Shift-Enter key sequence.
- The 3270 *clear* key has been mapped to the Cntl-Enter key sequence.
- If all else fails, select *Actions* on the 3270-emulator tool bar and then select the Display *Popup Keypad* option. This displays the popup below where you select various keys.

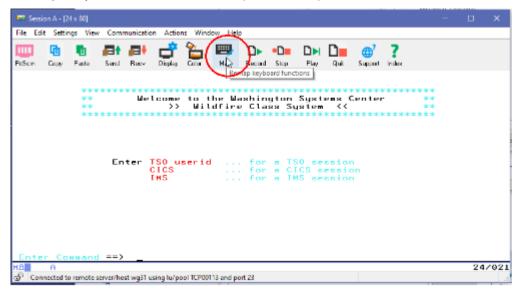


• z/OS Updates Different 3270-terminal emulators will display an icon like the 'Personal Communications' icon below at the bottom of the screen when the keyboard is locked. If this occurs use the left **Ctrl** key to reset or free the keyboard.

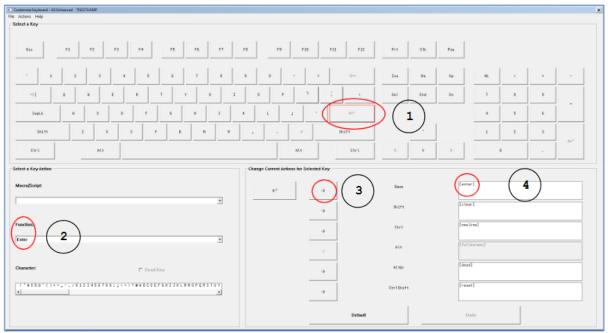


Configuring the Keyboard with Mac keyboards

 To reconfigure the IBM Personal Communications keyboard when using a Mac keyboard, click on *View* on the tool bar and select the Tool Bar option. Next click on the Remap Keyboard functions icon (see below).

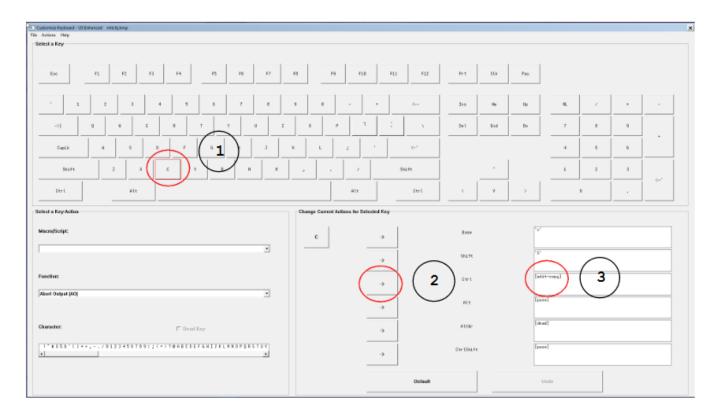


• To set the **Return** key to perform the *enter* function, click on the Return (1) key, use the pull down arrow to select *Enter* from the function list menu (2), and then in the *Change Current Actions for Selected Key* section, click on the arrow to the left of *Base* (3) to set the default function of pressing the **Return** key to [*enter*] (refer to the picture below)



- To set the **Return** key to perform the *clear* the screen function, click on the **Return** (1) key, use the pull down arrow to select *Clear Screen* from the function list menu (2), and then in the *Change Current Actions* for Selected Key section, click on the arrow to the left of *Shift* (3) to set the default function of pressing the **Shift-Return** key sequence [*clear*].
- To set the **Return** key to perform the *new line* function, click on the **Return** (1) key, use the pull down arrow to select **New Line** from the function list menu (2), and then in the *Change Current Actions* for Selected Key section, click on the arrow to the left of *Ctrl* (3) to set the default function of pressing the **Ctrl-Return key** sequence to move the cursor down a line [newline].
- To set the Return key to reset a locked keyboard, click on the Return (1) key, use the
 pull down arrow to select Reset from the function list menu (2), and then in the Change
 Current Actions for Selected Key section, click on the arrow to the left of CtrlShift (3) to
 set the default function of pressing the Ctrl-Shift-Return key sequence to reset or
 unlock a key board [reset].
- When finished, your keyboard actions for the Return key should match the picture above.

• To set the **Ctrl-C** key sequence to perform the *copy* function, click on the **C** key (1) and then in the *Change Current Actions for Selected Key* section, click on the arrow to the left of *Ctrl* (2) to set the default function of pressing the **Ctrl-C** key sequence to [*edit-copy*] (3) (*refer to the picture below*).



• To set the **Ctrl-V** key sequence to perform the *paste* function, click on the **V** key (1) and then in the *Change Current Actions for Selected Key* section, click on the arrow to the left of *Ctrl* (2) to set the default function of pressing the **Ctrl-V** key sequence to [edit-paste] (3) (refer to the picture below).

