

DataPower Course Labs via Skytap

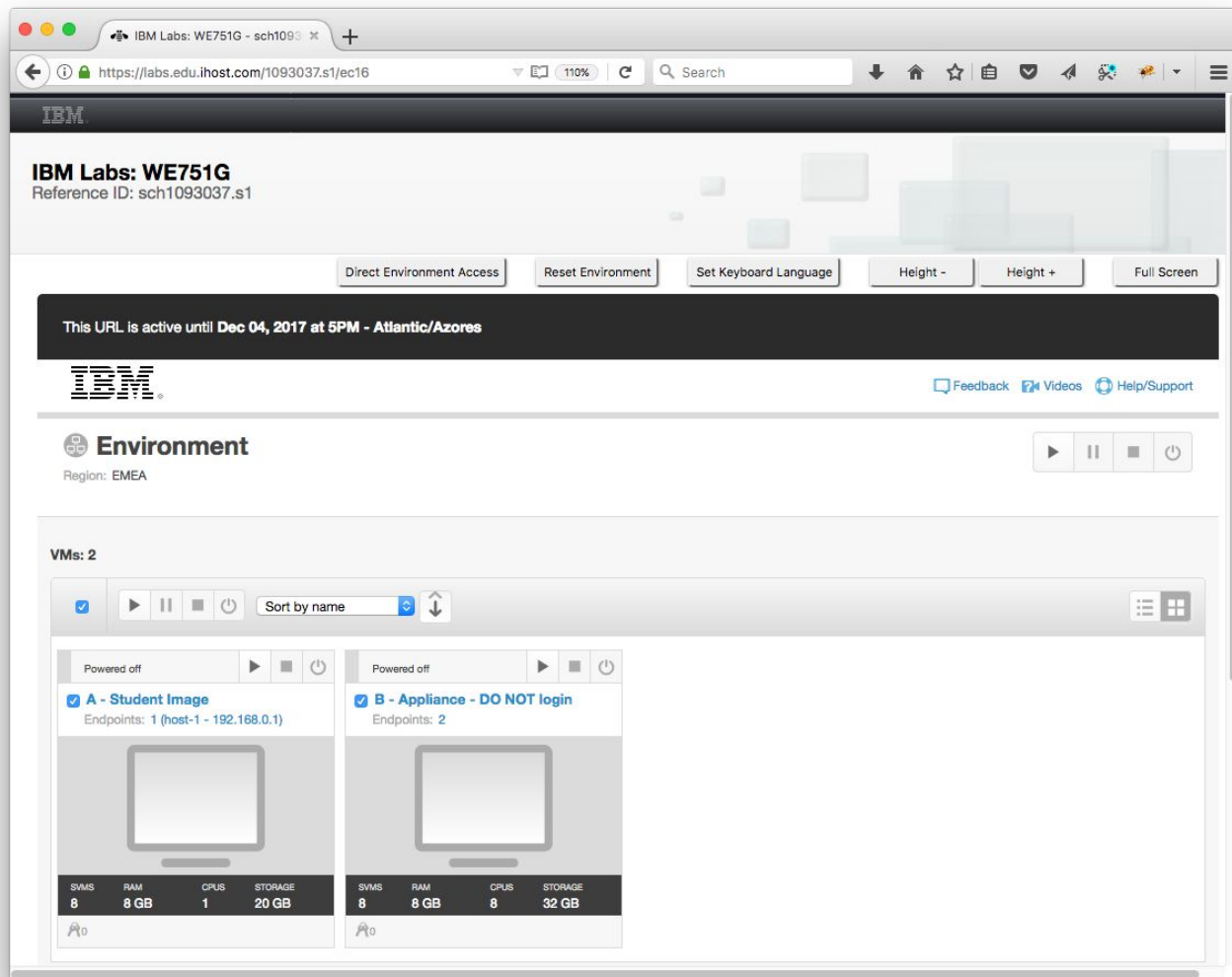
Accessing DataPower and Linux Desktop
remote images
by Steve Edwards

Main Page. Two images:

**A - Student
Image:** allows
start & access to
Linux desktop

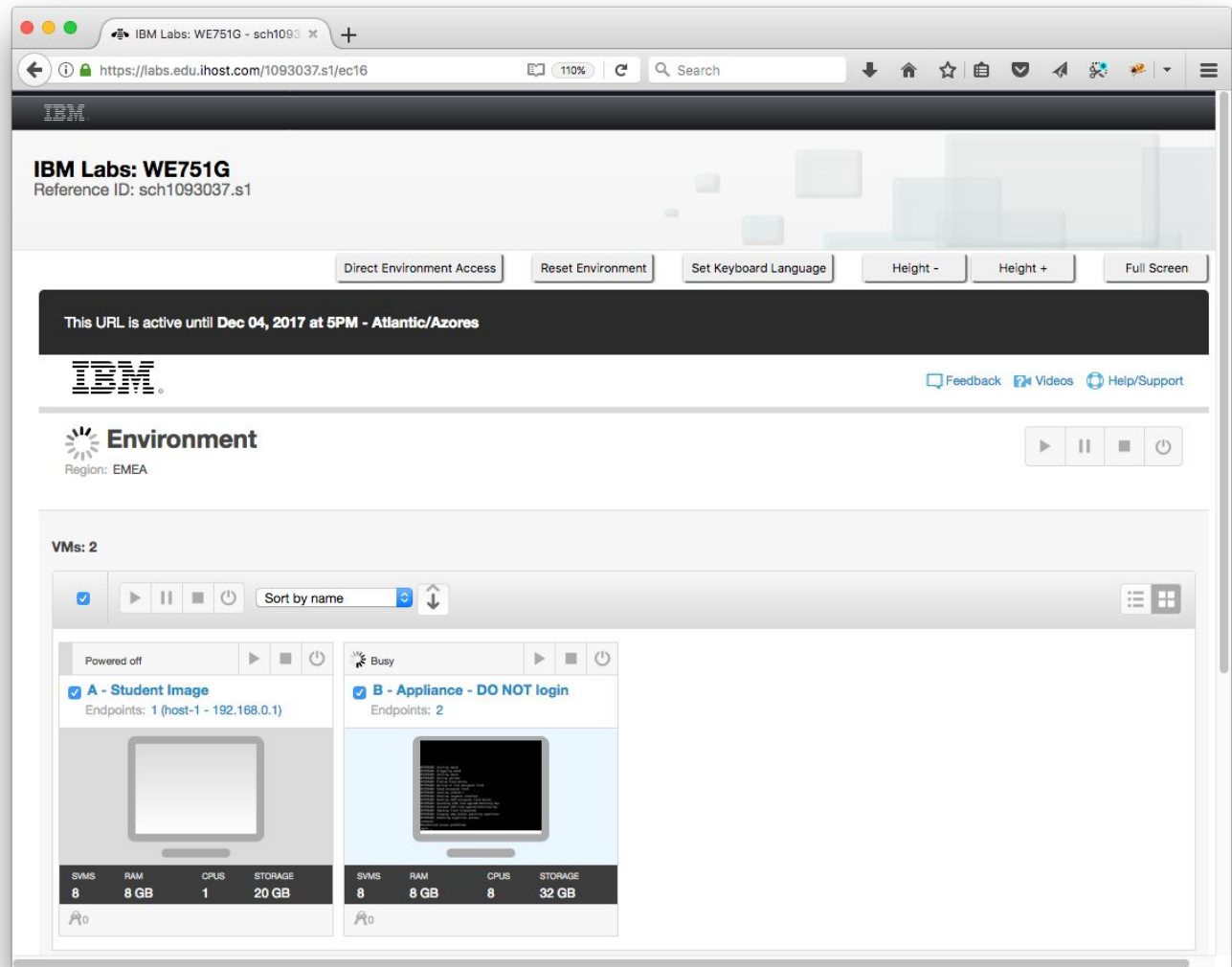
B - Appliance ...:
allows start of
remote DataPower
image

Start an image by
clicking on arrow
icon above the
image name.



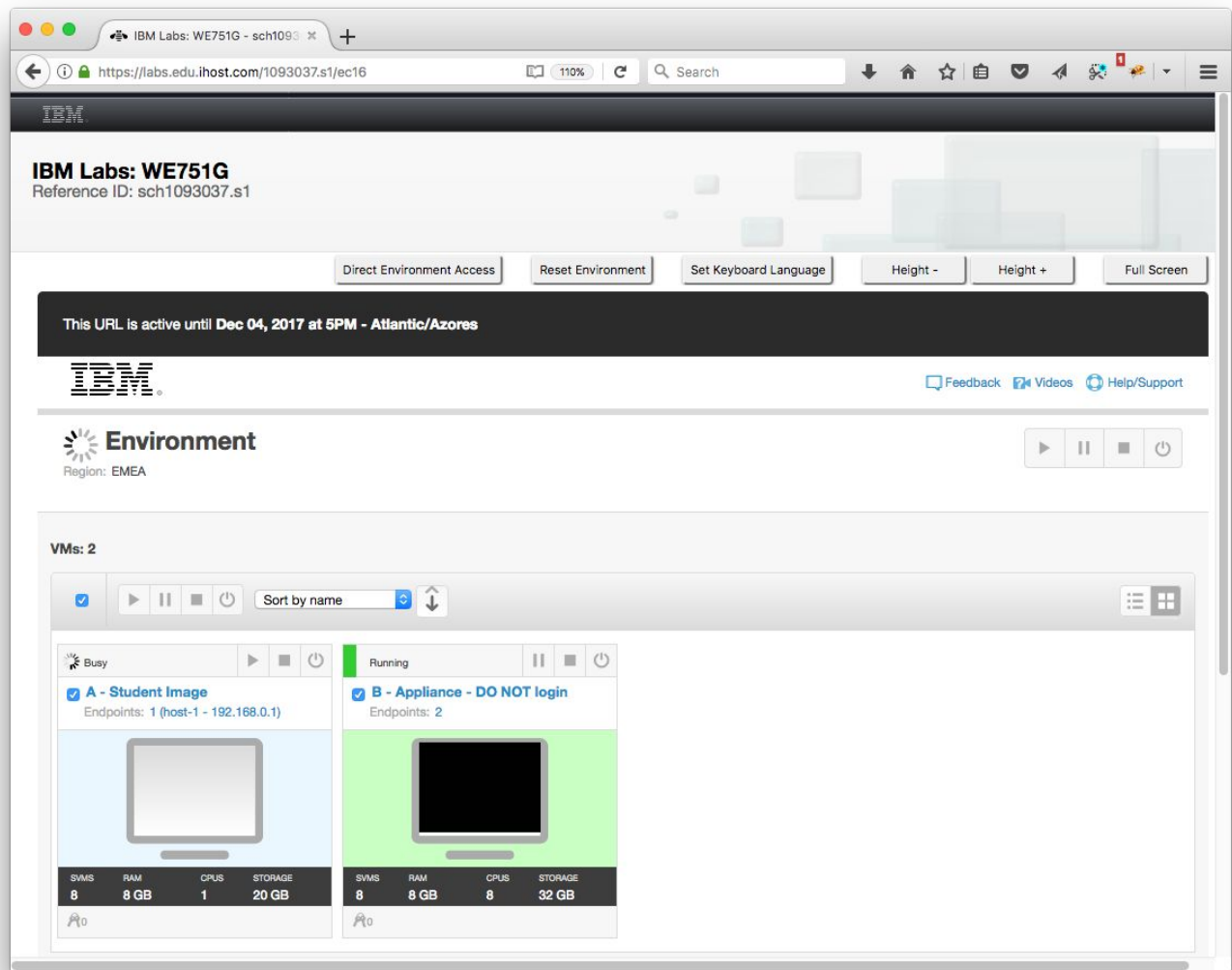
Start remote DataPower image first:

- note **Busy** icon
- takes few minutes
- **DO NOT login**: need to access DataPower through browser started in *Student Image* (i.e. Linux desktop)



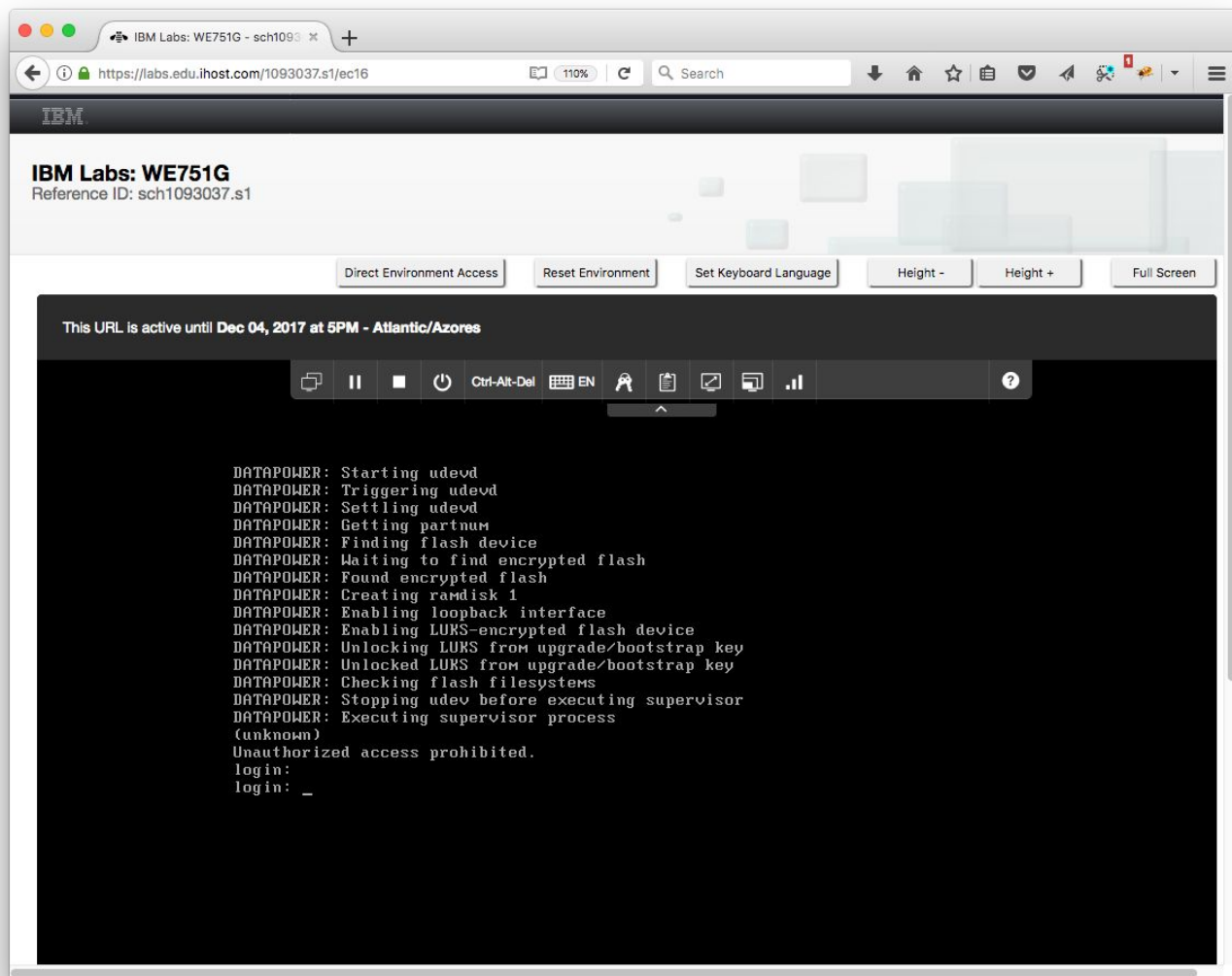
Start remote
Linux desktop
image after
Appliance image
is running:

- note **Busy** icon
- takes few minutes to start up
- a green background will indicate it is *Running*



DataPower CLI:

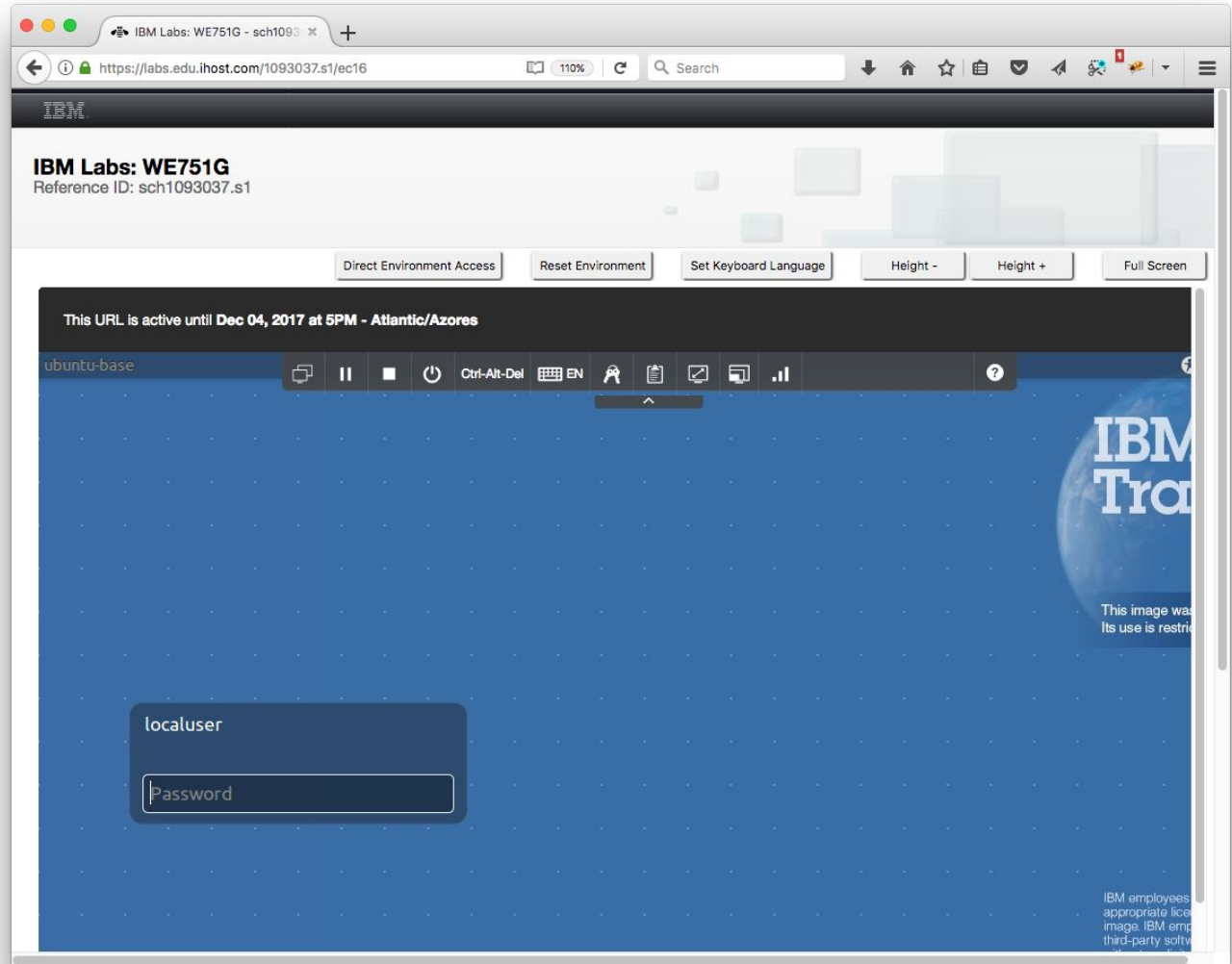
- lab window open on DataPower image
- but CLI accessed via terminal in Linux image desktop
- CLI not used on *developers* course
- CLI used in the *admin* course



Linux desktop login:

Double click the green rectangle of the *Student Image* and wait until the login screen appears:

- name:
localuser
- password:
passw0rd



Linux desktop:

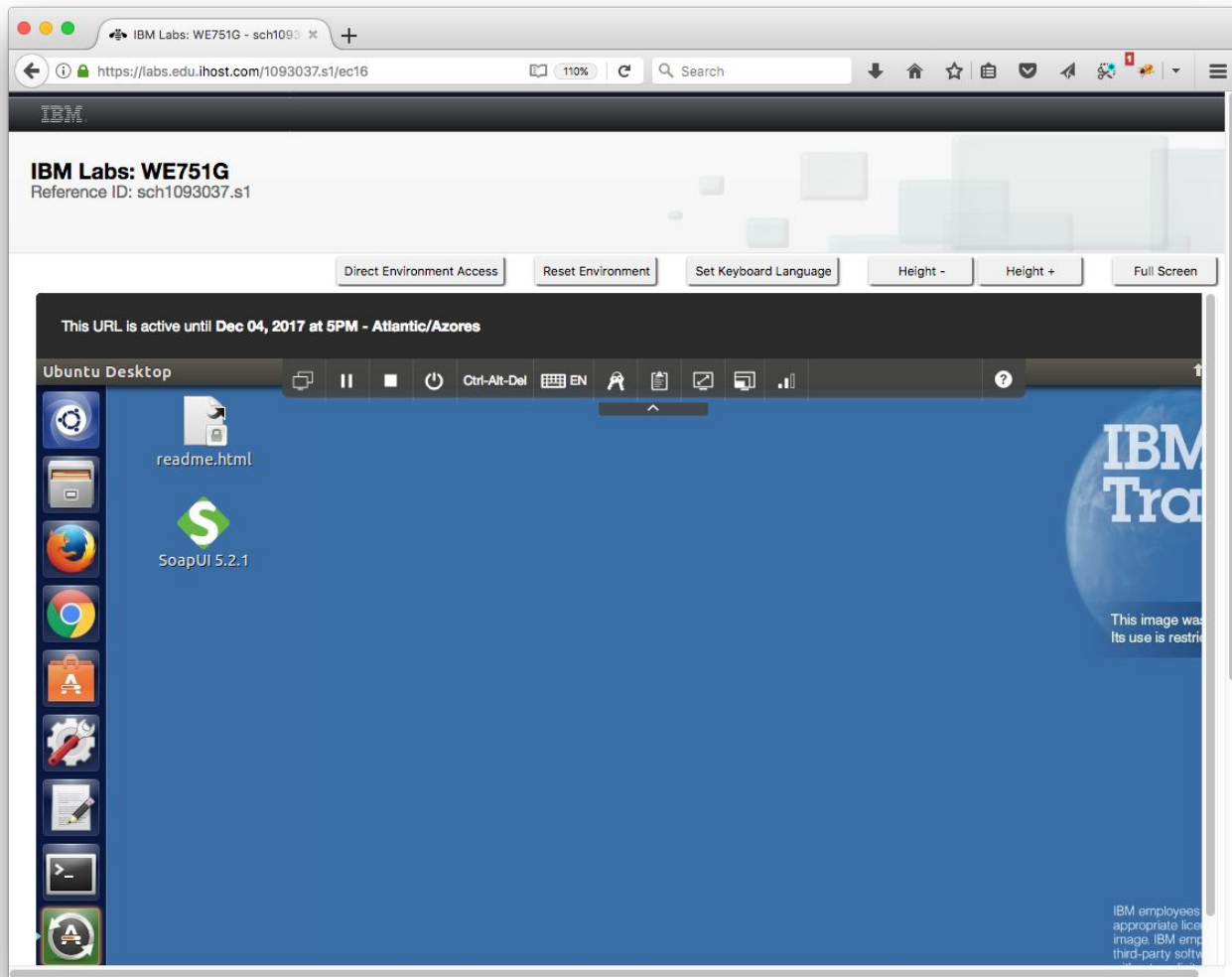
Firefox:

- allows WebGUI access to DataPower

SoapUI:

- message sending utility
- set up to send SOAP / REST messages to DataPower
- not used in WE761

Terminal Files



Initial Log in to DataPower

WE75*

User Name:

student01

Password (initial):

student01

Domain:

student01-domain

WE761

User Name:

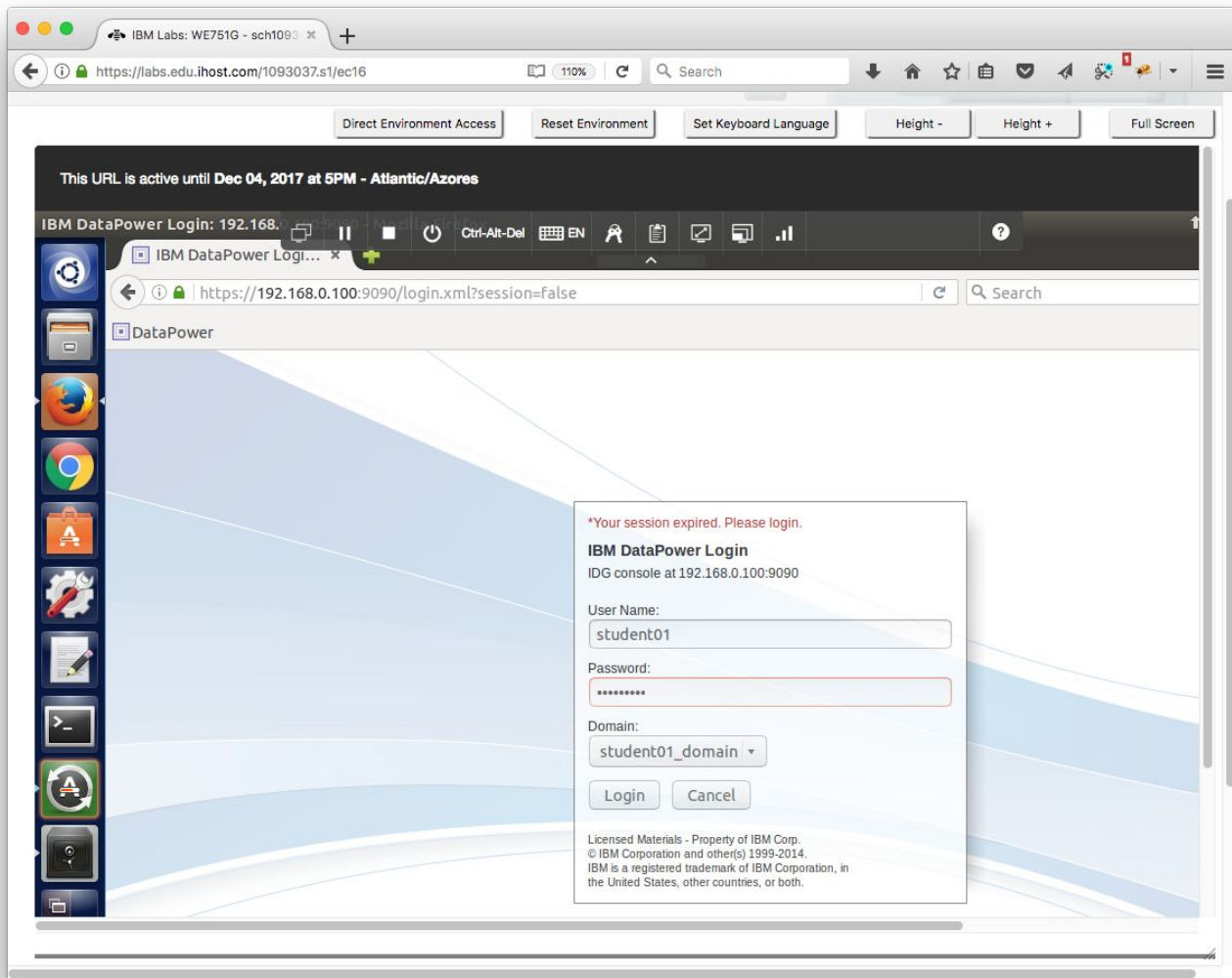
sysadmin

Password:

sysadminpassw0rd

Domain:

default



DataPower Web Interface - *Blueprint Console*

The screenshot shows the IBM DataPower Gateways console. The top header bar contains the text "IBM DataPower Gateways | IDG console at IDG-75-MacAir-V7.5", user information "student01_domain" and "student01", a help icon, and the IBM logo. A left sidebar lists various services: Services, All Services, Multi-Protocol Gateway, Web Service Proxy, B2B Gateway, Access Manager Reverse Proxy, XML Firewall, Web Application Firewall, Web Token Service, XSL Proxy, HTTP Service, TCP Proxy Service, and SSL Proxy Service. The main content area is titled "All Services" and includes a "New Service" button, a refresh icon, a filter input, and a table with columns for Service, Status, Service Type, Front side URL, and Actions. The table is currently empty, showing "Total: 0".

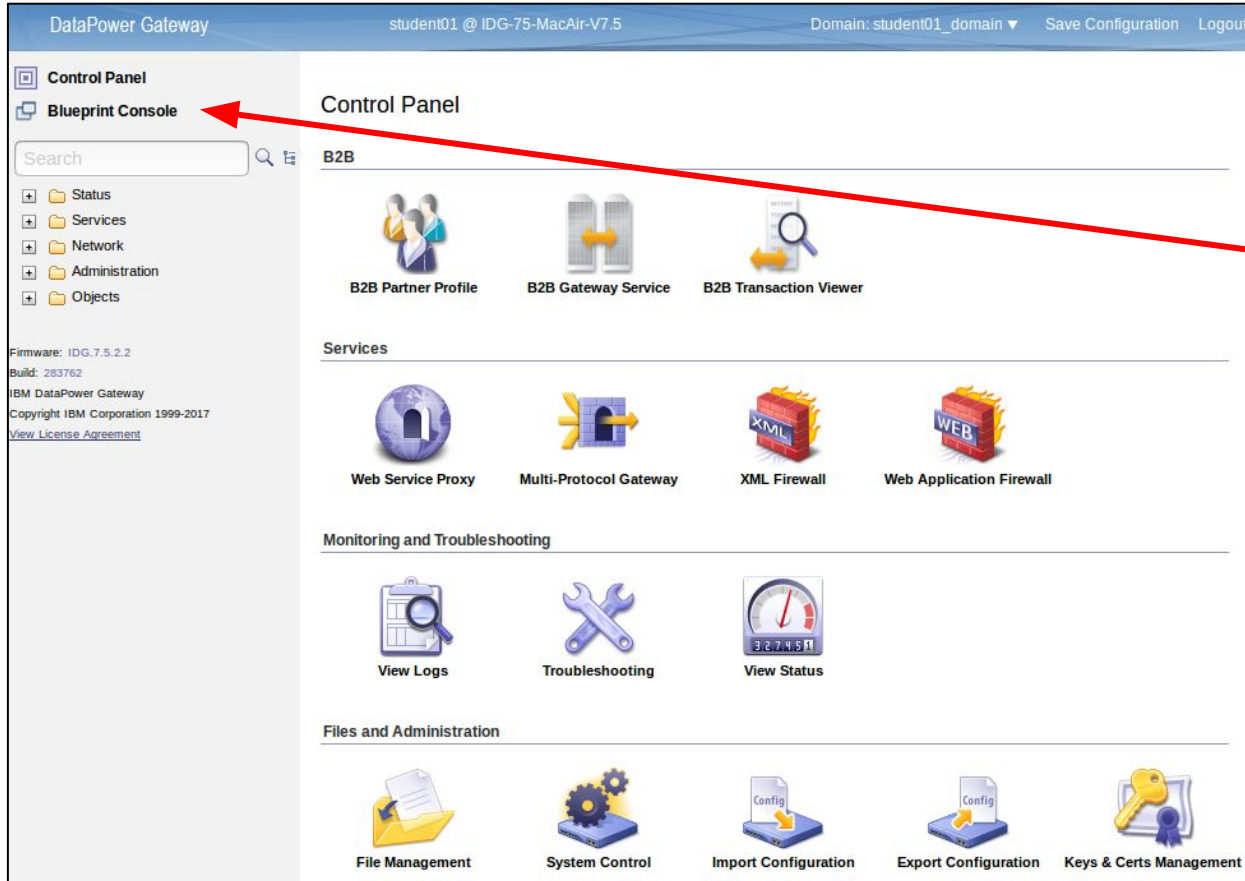
Annotations with red arrows:

- An arrow points from the "Open icon" (three horizontal lines) in the top left corner to the "Services" menu item in the left sidebar.
- An arrow points from the "Click here to switch to WebGUI" text to the help icon (question mark) in the top right corner.

Open icon

Click here to switch to *WebGUI*
(bottom menu item of menu that pops up)

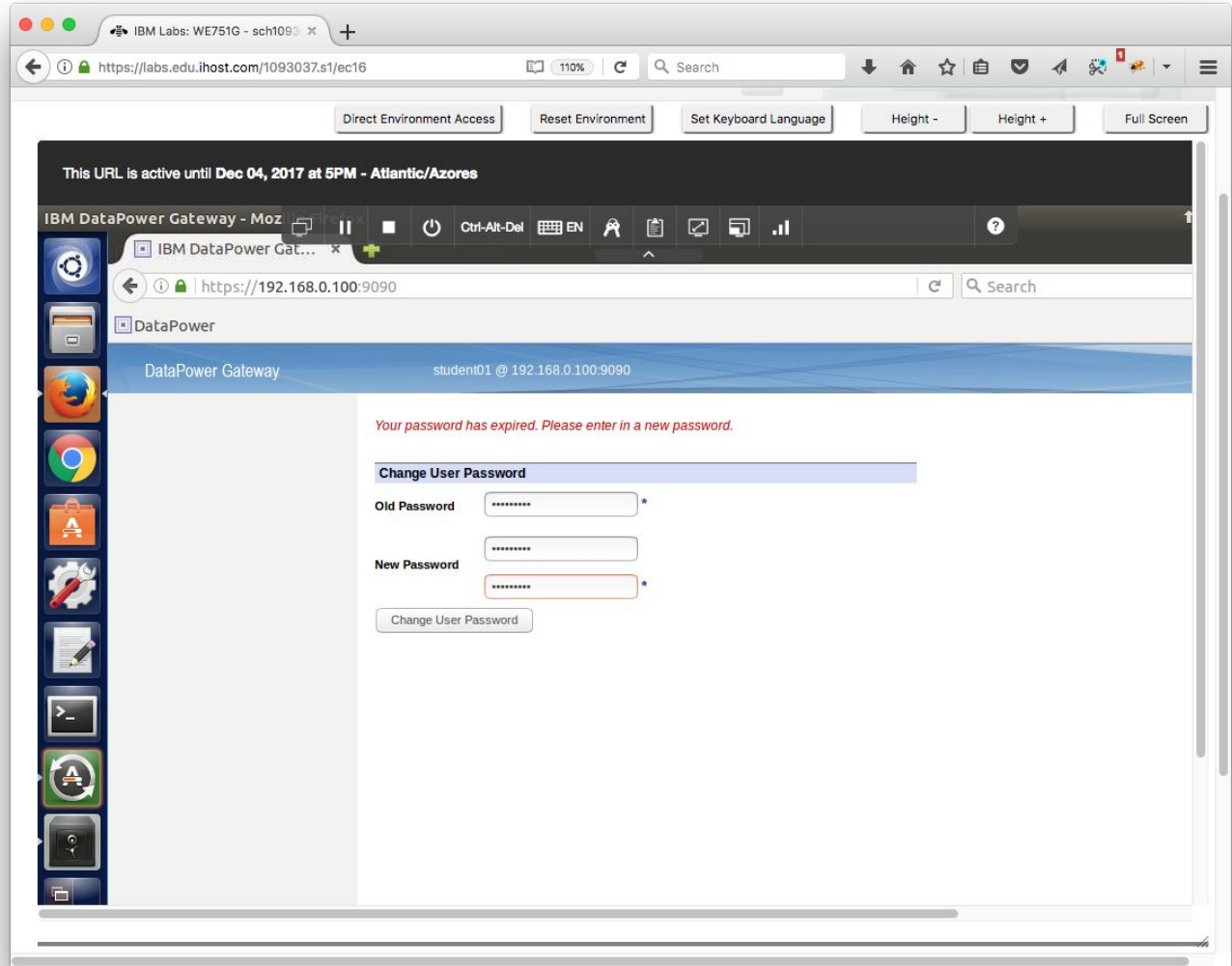
DataPower Web Interface - *WebGUI*



Click here to
switch to
*Blueprint
Console*

WebGUI first login requires changing the initial password:

- remember your new password
- then need to login again with the new password
- **change NOT needed for user *sysadmin* on WE761 course**



WebGUI successful login

Note in top blue band:

- user
- domain
- browser URL

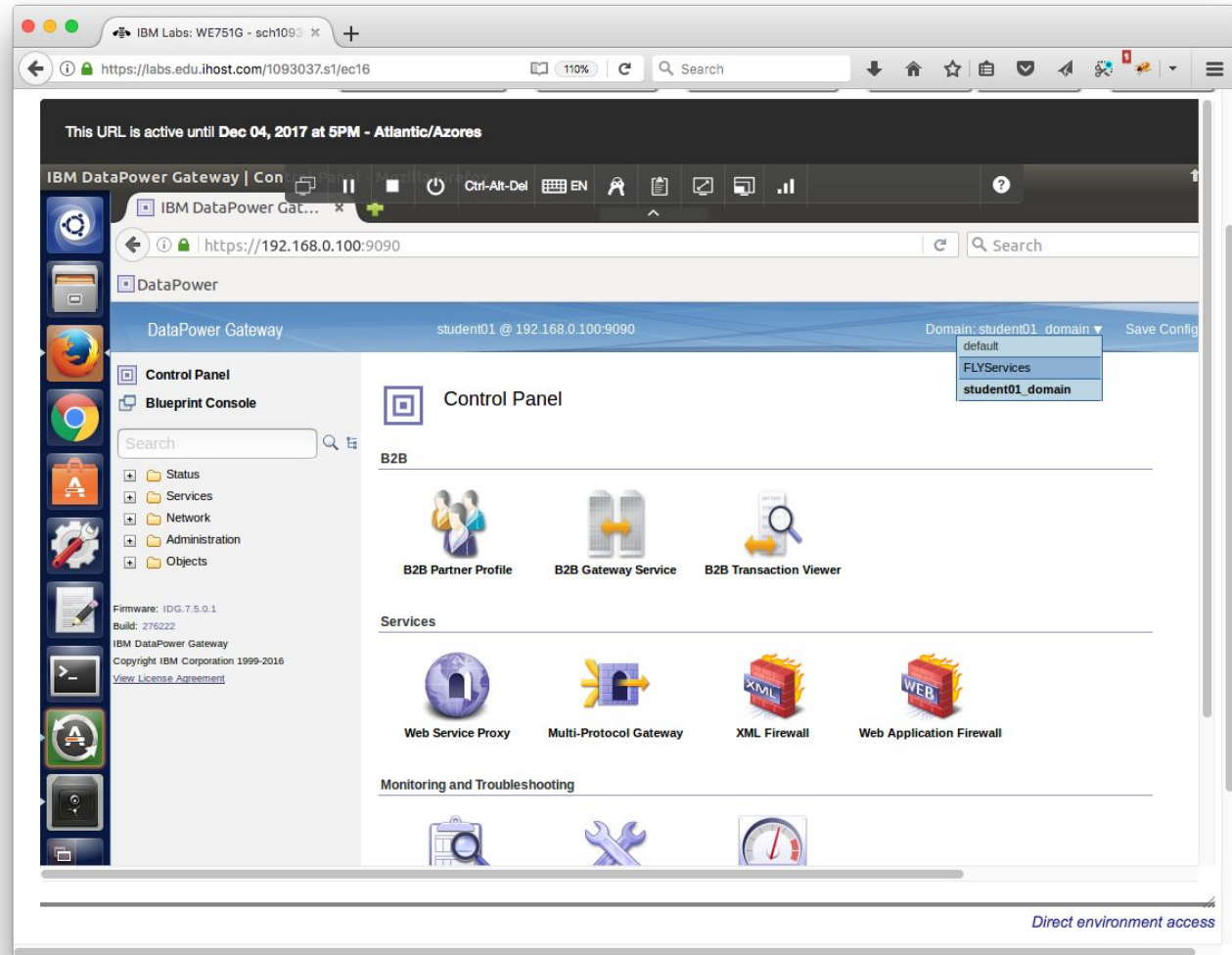
Domains:

student01-domain

- student work

FlyServices

- backend services

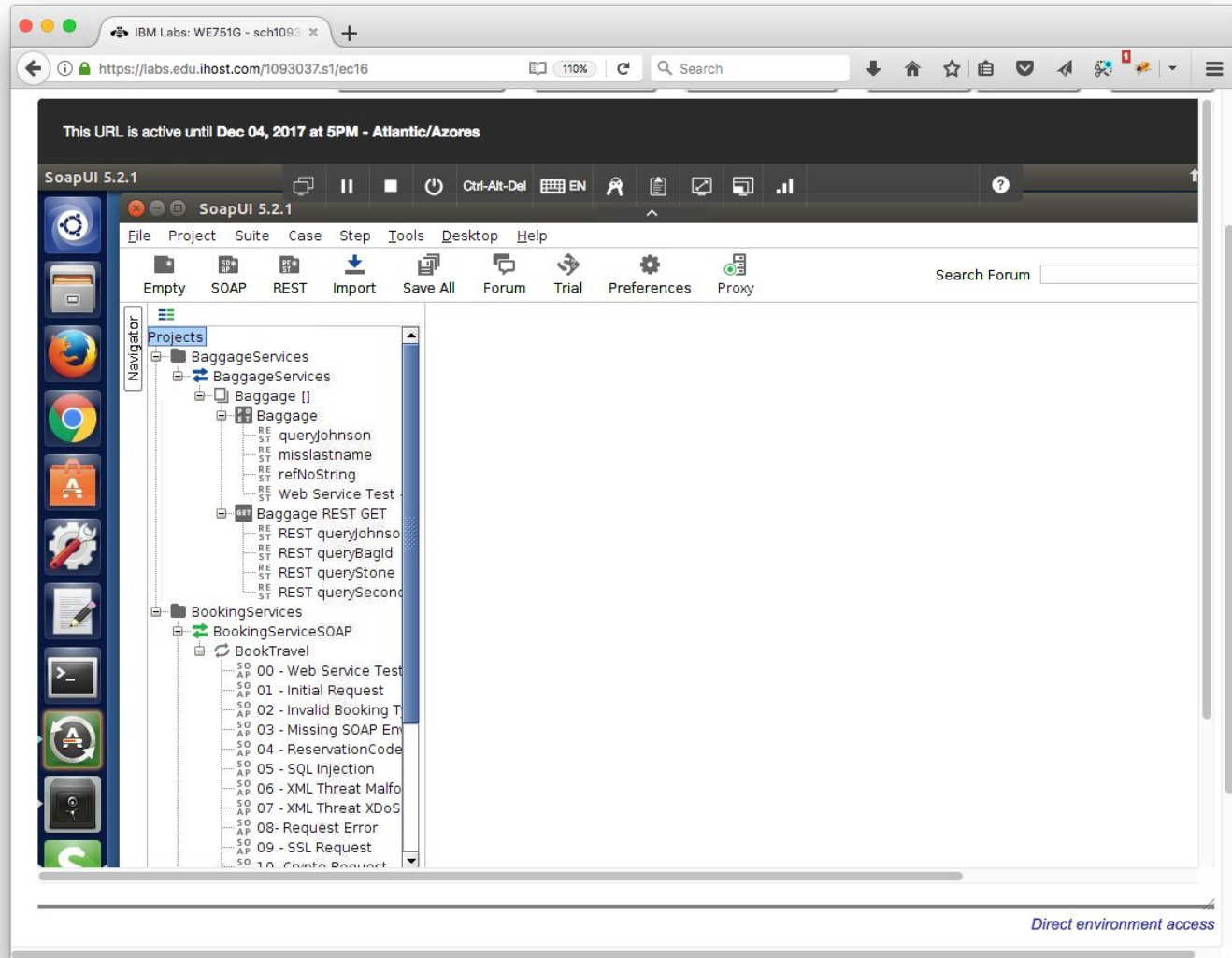


SOAPUI:

Already set up with
2 projects.

Need to open up the
branches on the left.

Need to click
Preferences tab
and change settings
before using.

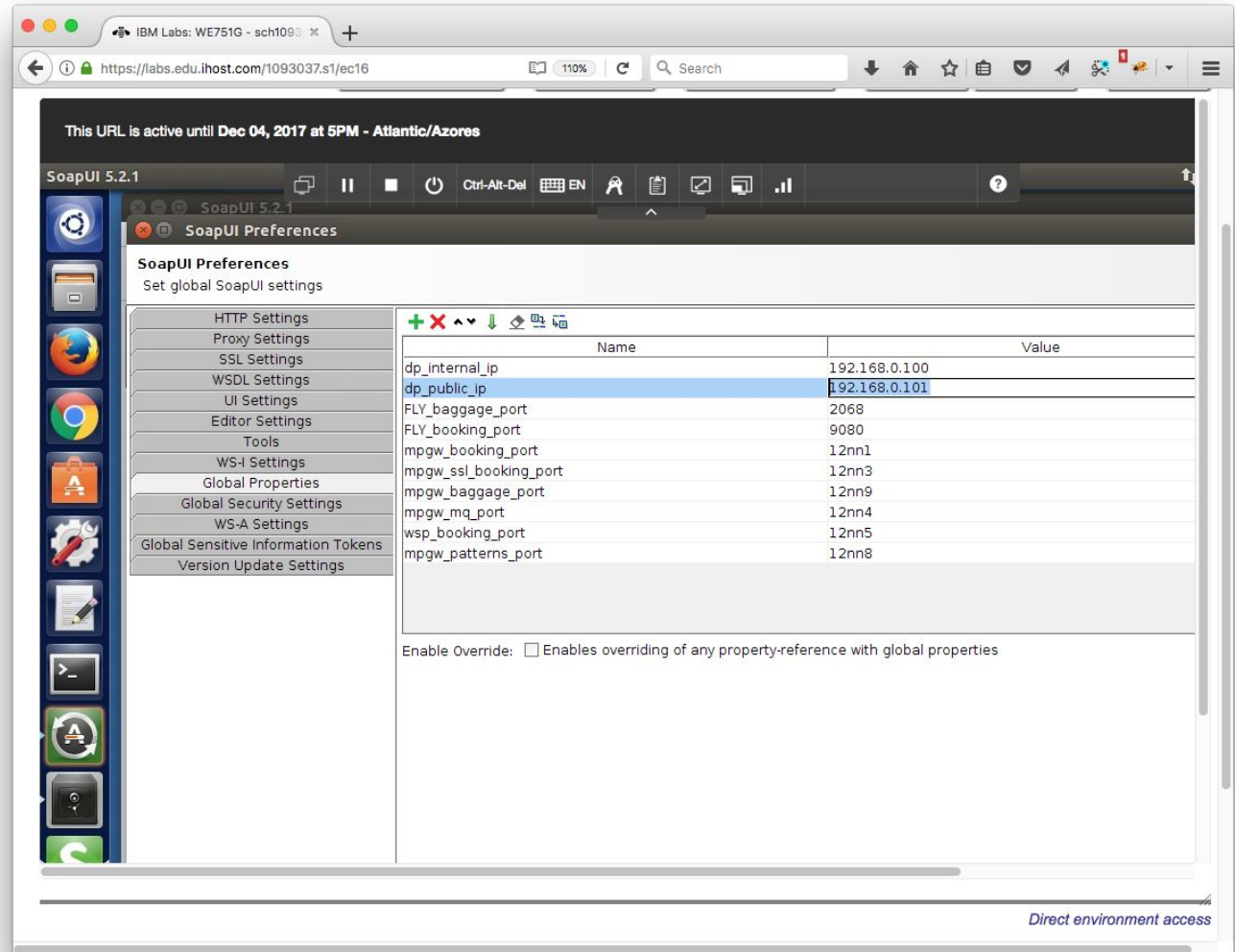


SOAPUI:

After clicking **Preferences** tab change settings in **Global Properties**.

These settings are used by various requests already set up in the projects.

Replace **nn** with your student number.



SOAPUI:

Note URL using
properties within
curly braces:

`${dp_internal_ip}`

Picture on right
shows request on
left and response on
right after hitting:



The screenshot displays the IBM Labs SOAPUI interface. The top toolbar includes buttons for Empty, SOAP, REST, Import, Save All, Forum, Trial, Preferences, and Proxy. The main window is titled "00 - Web Service Test - Booking" and shows a SOAP request and response for the "BookingService".

Request (Left Panel):

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Header/>
  <soapenv:Body>
    <book:BookingRequest>
      <book:Booking>
        <book:ReservationCode>JK99V16I</book:ReservationCode>
        <book:BookingType>I</book:BookingType>
        <book:PaymentCardDetails>
          <book:CardNumber>4485710246935191</book:CardNumber>
          <book:Expiry>
            <book:Year>2016</book:Year>
            <book:Month>9</book:Month>
          </book:Expiry>
          <book:CVV>924</book:CVV>
          <book:Type>Visa</book:Type>
          <book:HolderName>James Roberts</book:HolderName>
        </book:PaymentCardDetails>
        <book:BillingDetails>
          <book:FirstName>James</book:FirstName>
          <book:LastName>Roberts</book:LastName>
          <book:Address>314 S. Wells St</book:Address>
          <book:City>Chicago</book:City>
          <book:State>IL</book:State>
          <book:ZIP>60606</book:ZIP>
          <book:Country>USA</book:Country>
        </book:BillingDetails>
      </book:Booking>
    </book:BookingRequest>
  </soapenv:Body>
</soapenv:Envelope>
```

Response (Right Panel):

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/">
  <soapenv:Header/>
  <soapenv:Body>
    <!--Happy Path UCL-->
    <book:BookingResponse>
      <book:ConfirmationCode>UHJvY2Vz</book:ConfirmationCode>
      <book:ReservationCode>JK99V16I</book:ReservationCode>
      <book:BookingType>I</book:BookingType>
      <book:PaymentCardDetails>
        <book:CardNumber>4485710246935191</book:CardNumber>
        <book:Expiry>
          <book:Year>2016</book:Year>
          <book:Month>9</book:Month>
        </book:Expiry>
        <book:CVV>924</book:CVV>
        <book:Type>Visa</book:Type>
        <book:HolderName>James Roberts</book:HolderName>
      </book:PaymentCardDetails>
      <book:BillingDetails>
        <book:FirstName>James</book:FirstName>
        <book:LastName>Roberts</book:LastName>
        <book:Address>314 S. Wells St</book:Address>
        <book:City>Chicago</book:City>
        <book:State>IL</book:State>
        <book:ZIP>60606</book:ZIP>
        <book:Country>USA</book:Country>
      </book:BillingDetails>
    </book:BookingResponse>
  </soapenv:Body>
</soapenv:Envelope>
```

Request Properties Table:

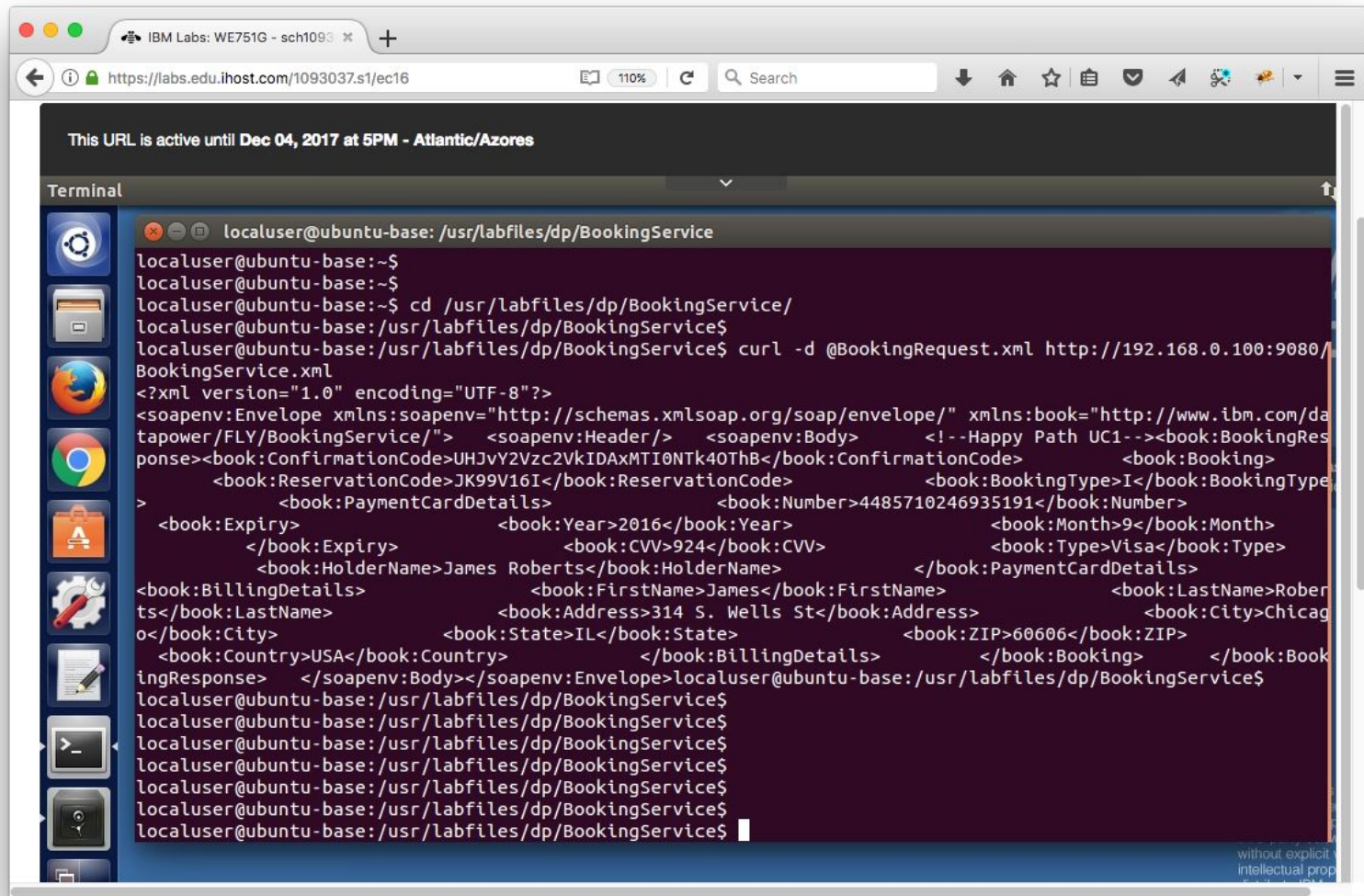
Property	Value
Name	00 - Web Serv...
Description	
Message Size	1288
Encoding	UTF-8

Log Output (Bottom):

```
Mon Dec 04 10:03:46 EST 2017:DEBUG:>> "POST /BookingService HTTP/1.1[r][\n]"
Mon Dec 04 10:03:46 EST 2017:DEBUG:>> "Accept-Encoding: gzip,deflate[r][\n]"
Mon Dec 04 10:03:46 EST 2017:DEBUG:>> "Content-Type: text/xml; charset=UTF-8[r][\n]"
Mon Dec 04 10:03:46 EST 2017:DEBUG:>> "SOAPAction: \"http://www.ibm.com/datapower/FLY/BookingService/BookTr..."
Mon Dec 04 10:03:46 EST 2017:DEBUG:>> "Content-Length: 1288[r][\n]"
Mon Dec 04 10:03:46 EST 2017:DEBUG:>> "Host: 192.168.0.100:9080[r][\n]"
```


Used to run:

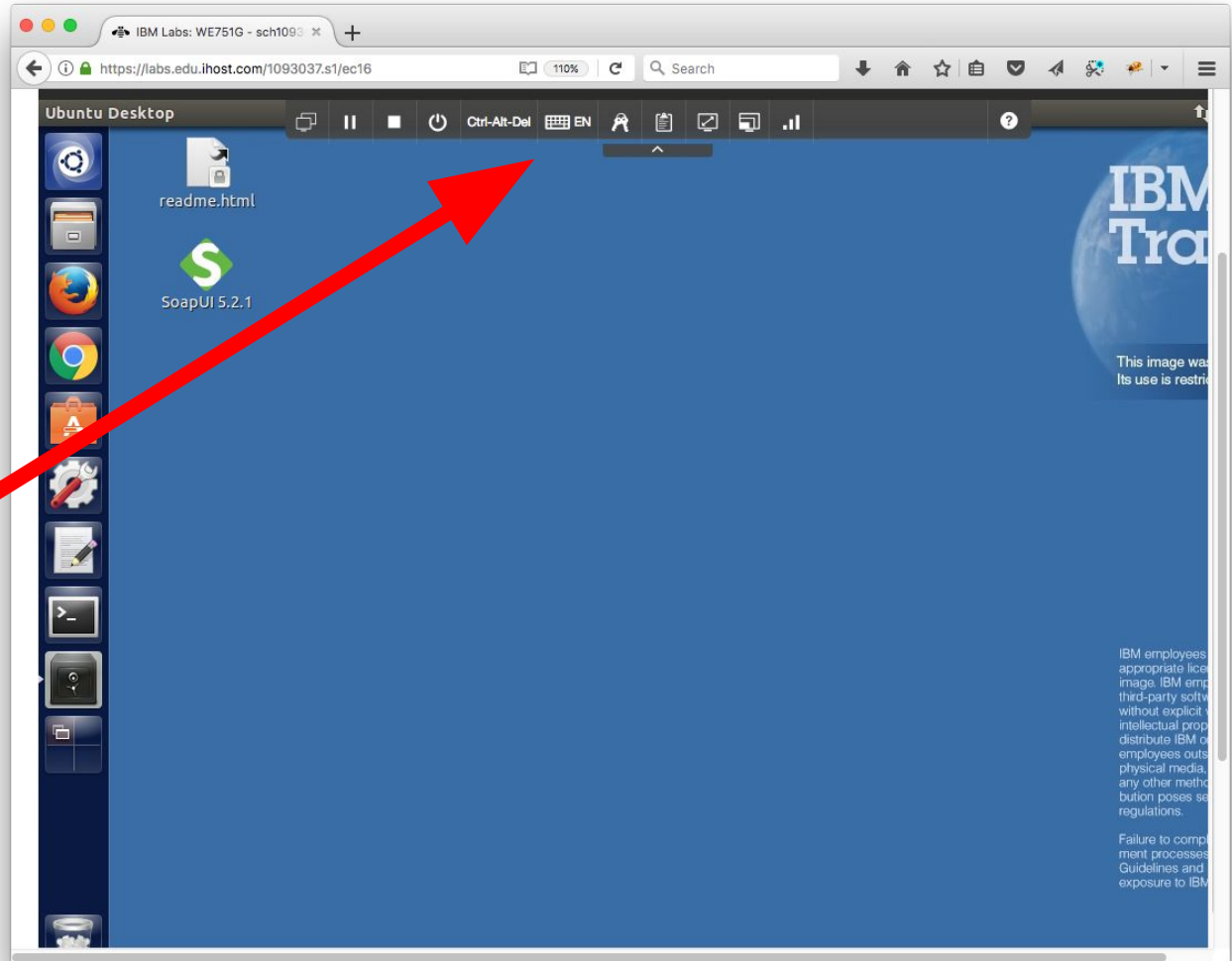
- curl
- etc.



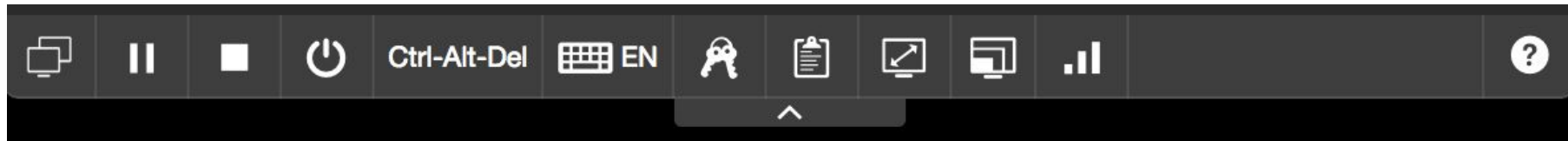
Skytap image controls:

At top of the browser in the host machine that is viewing the image, there are some image controls.

Use to change to best resolution and to get fullscreen.



Skytap remote image controls:



Environment VMs

Suspend this VM

Shutdown this VM

Power options for this VM

Ctrl-Alt-Del

Keyboard layout

Credentials

Clipboard

Fit to Window

Change Resolution

Network Quality Indicator

Further Details

Details about:

- settings
- URLs
- IP addresses
- ports
- student numbers

may be found in the exercise book.