

# DataPower Course Labs via Skytap

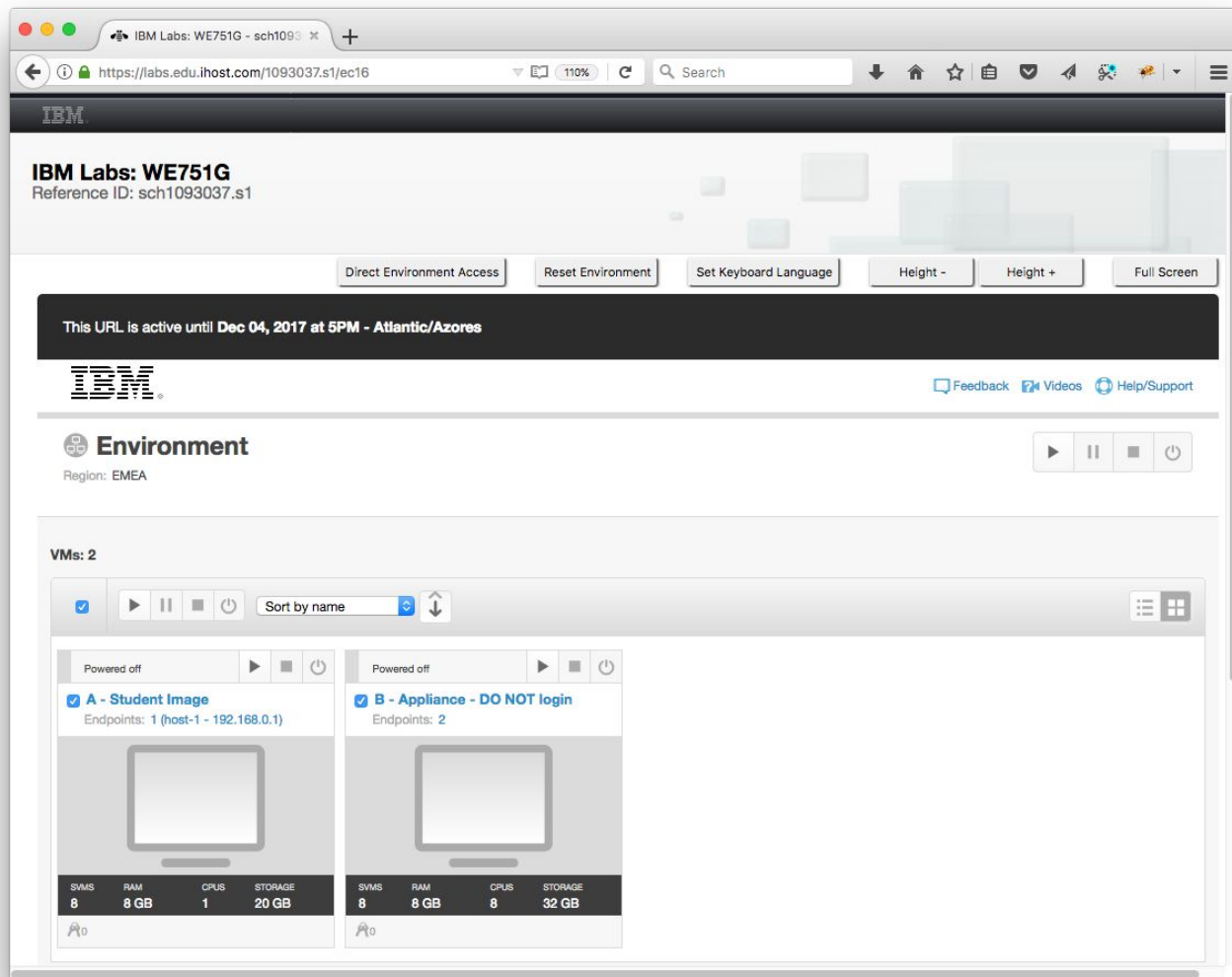
Accessing DataPower and Linux Desktop  
remote images  
by Steve Edwards

# Main Page. Two images:

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

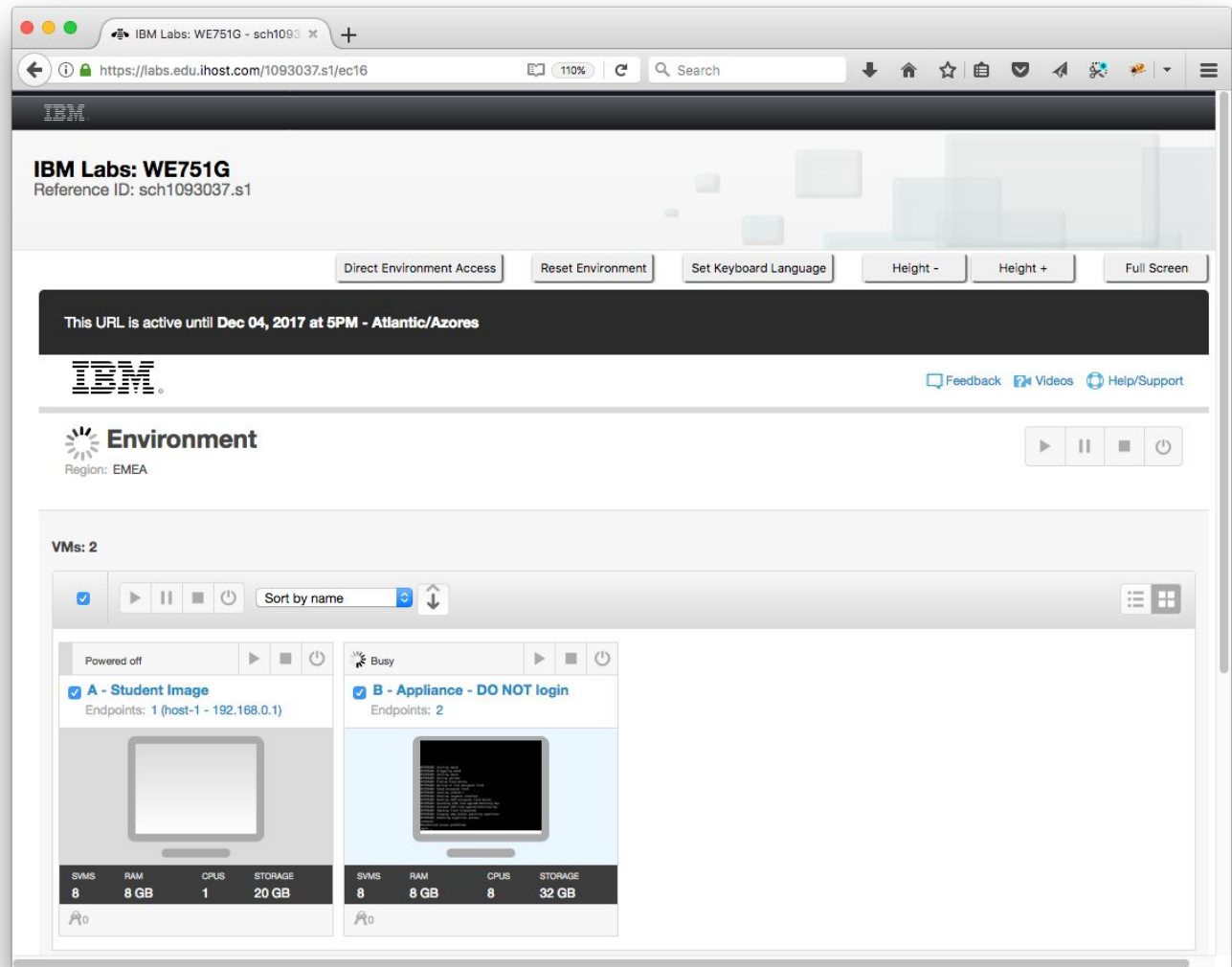
**B - Appliance ...:**  
allows start of  
remote DataPower  
image

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



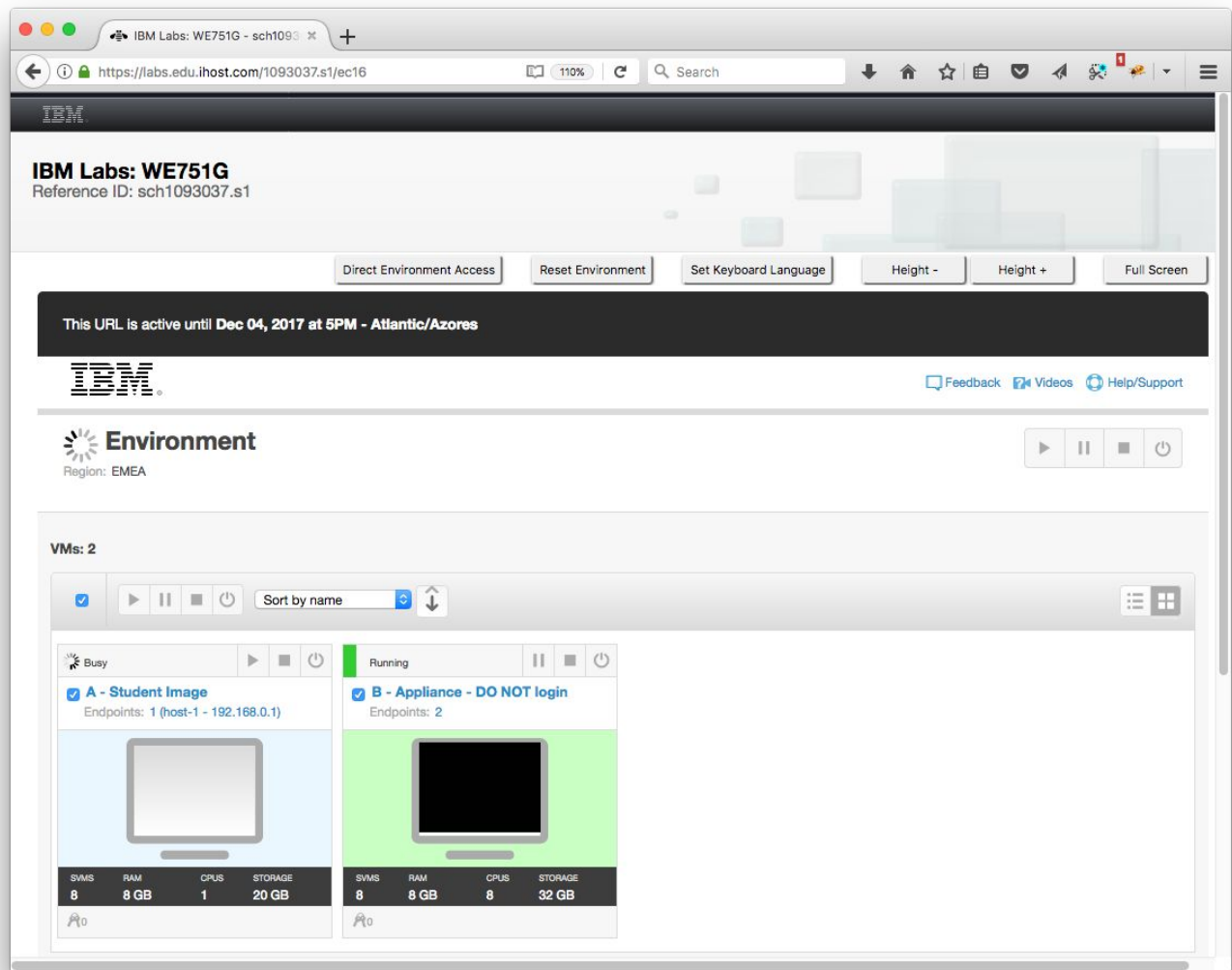
# Start remote DataPower image first:

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



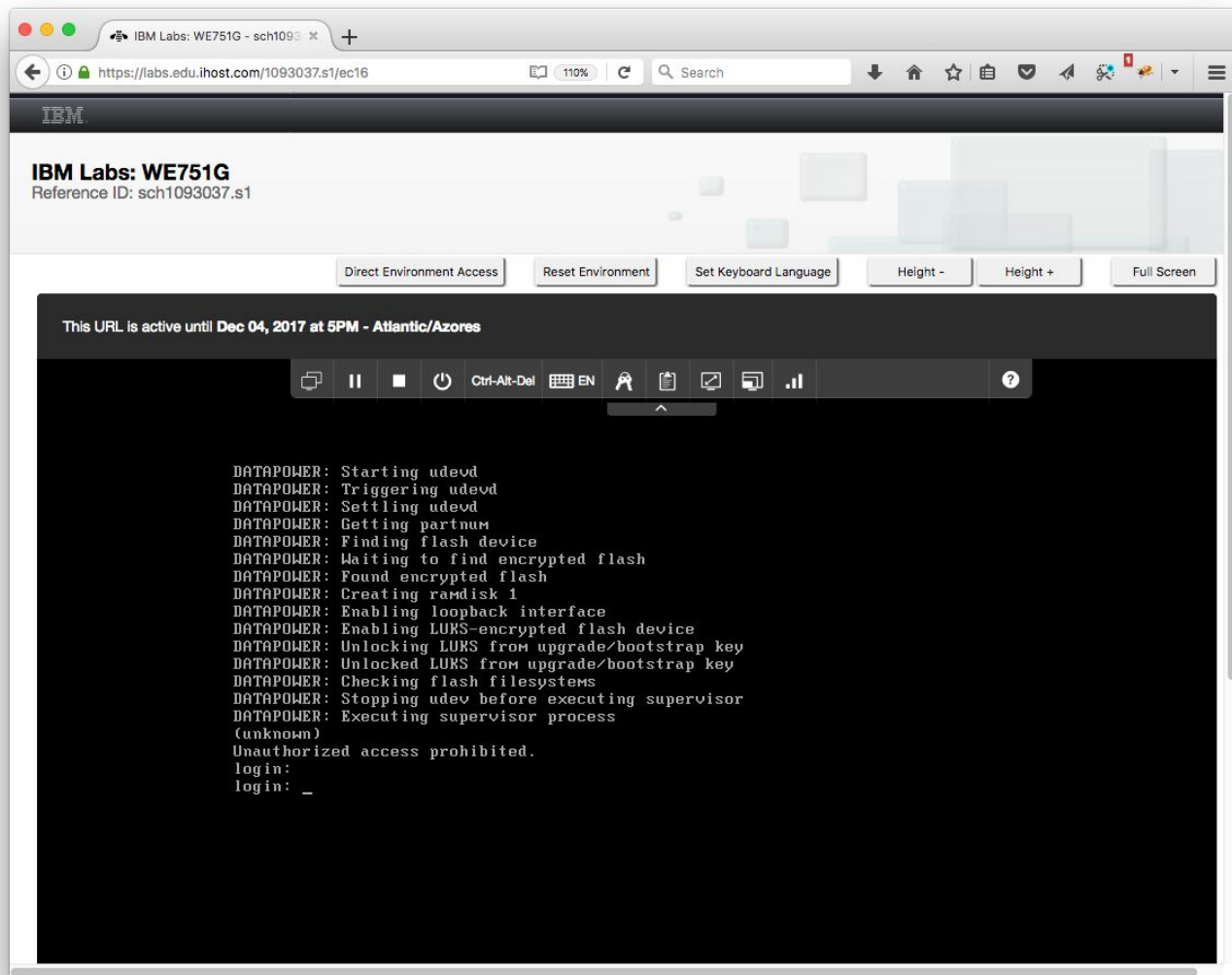
Start remote  
Linux desktop  
image after  
*Appliance* image  
is running:

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



# DataPower CLI:

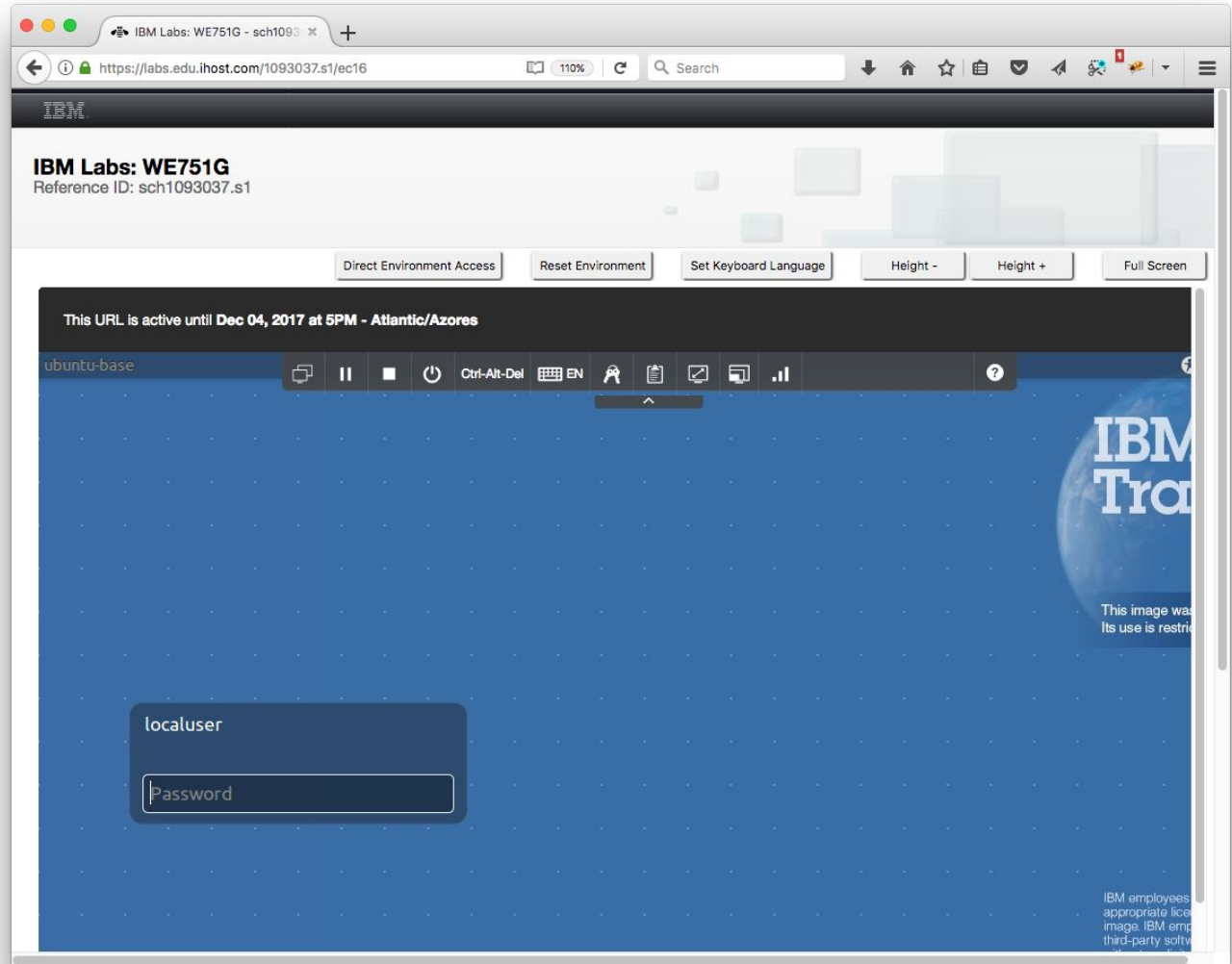
- not used on ***developers*** course
- used in the ***admin*** course



# 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:

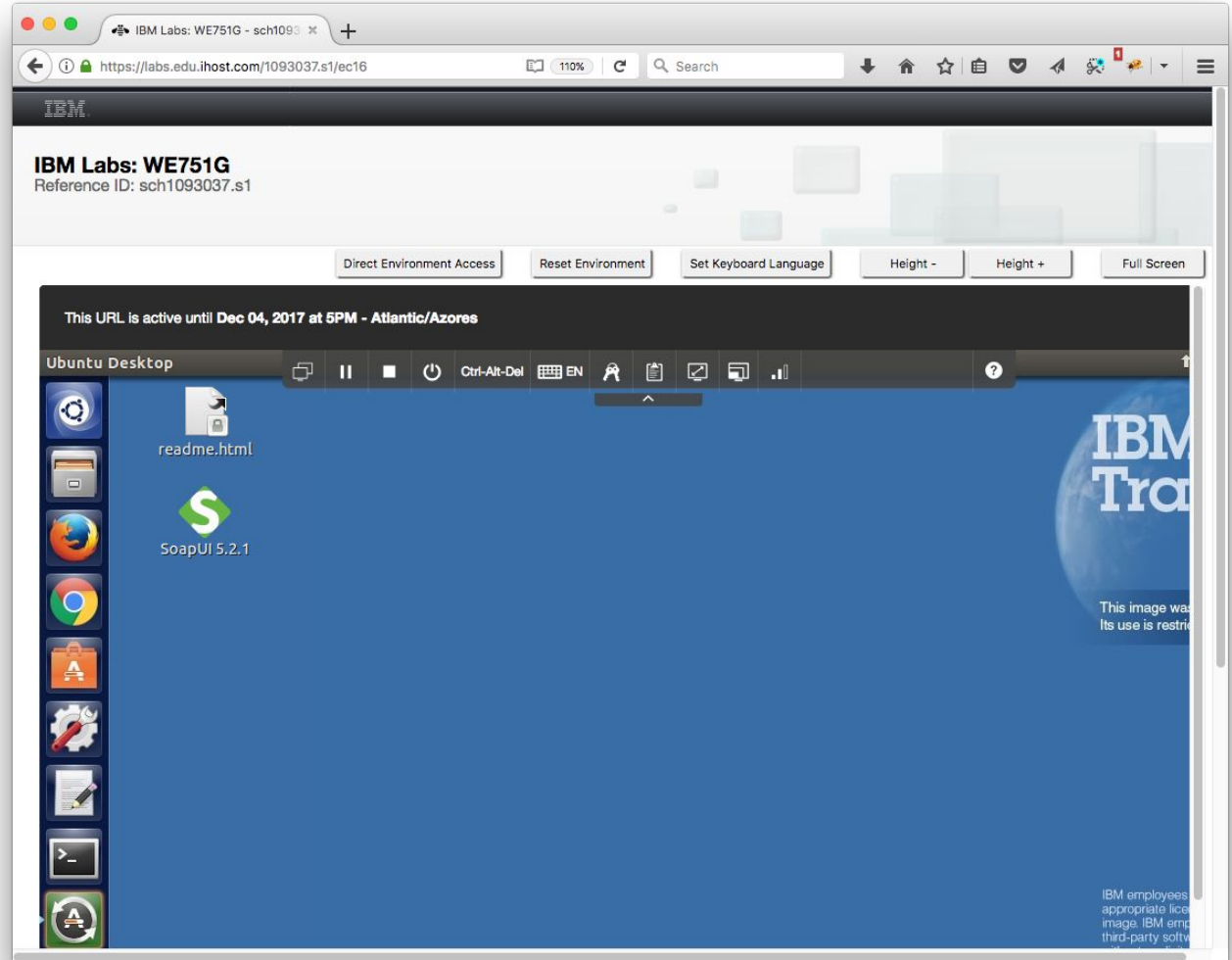
## **Firefox:**

- allows WebGUI access to DataPower

## **SoapUI:**

- message sending utility
- set up to send SOAP / REST messages to DataPower

## **Terminal Files**



# Logging in to DataPower

User Name:

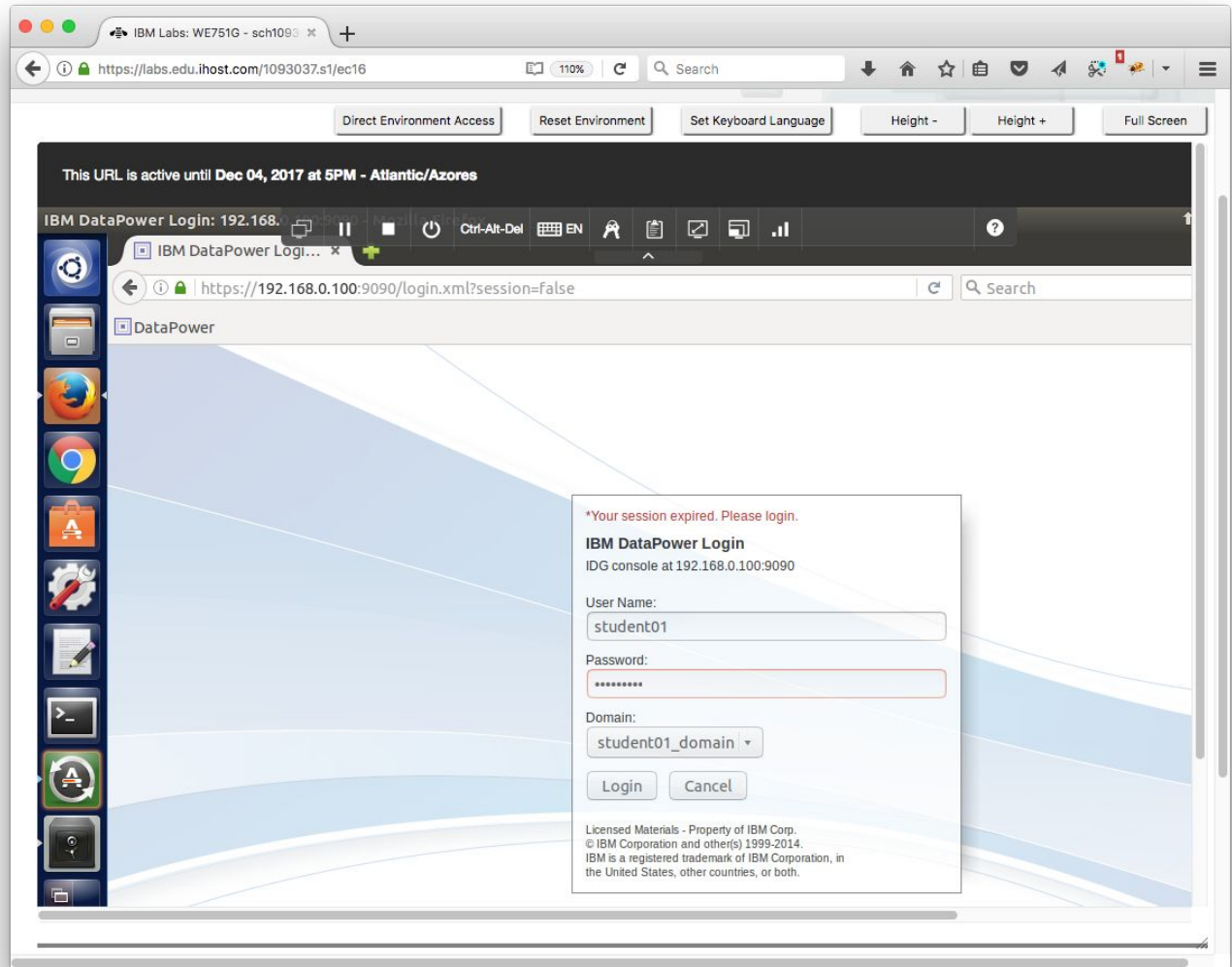
**student01**

Password (initial):

**student01**

Domain:

**student01-domain**





# 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".

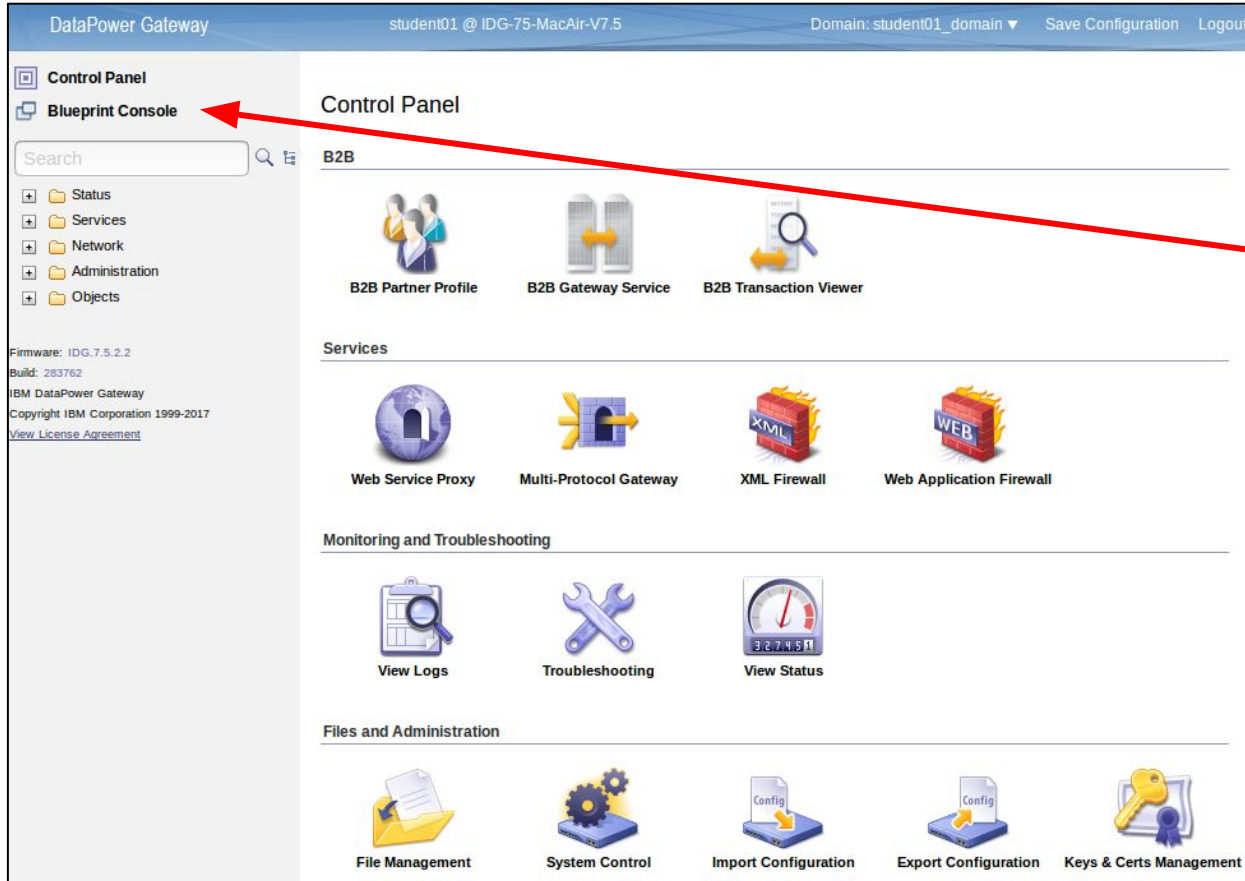
Annotations with red arrows:

- An arrow points from the "Open icon" (three horizontal lines) in the top left corner to the "Services" menu item in the 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)

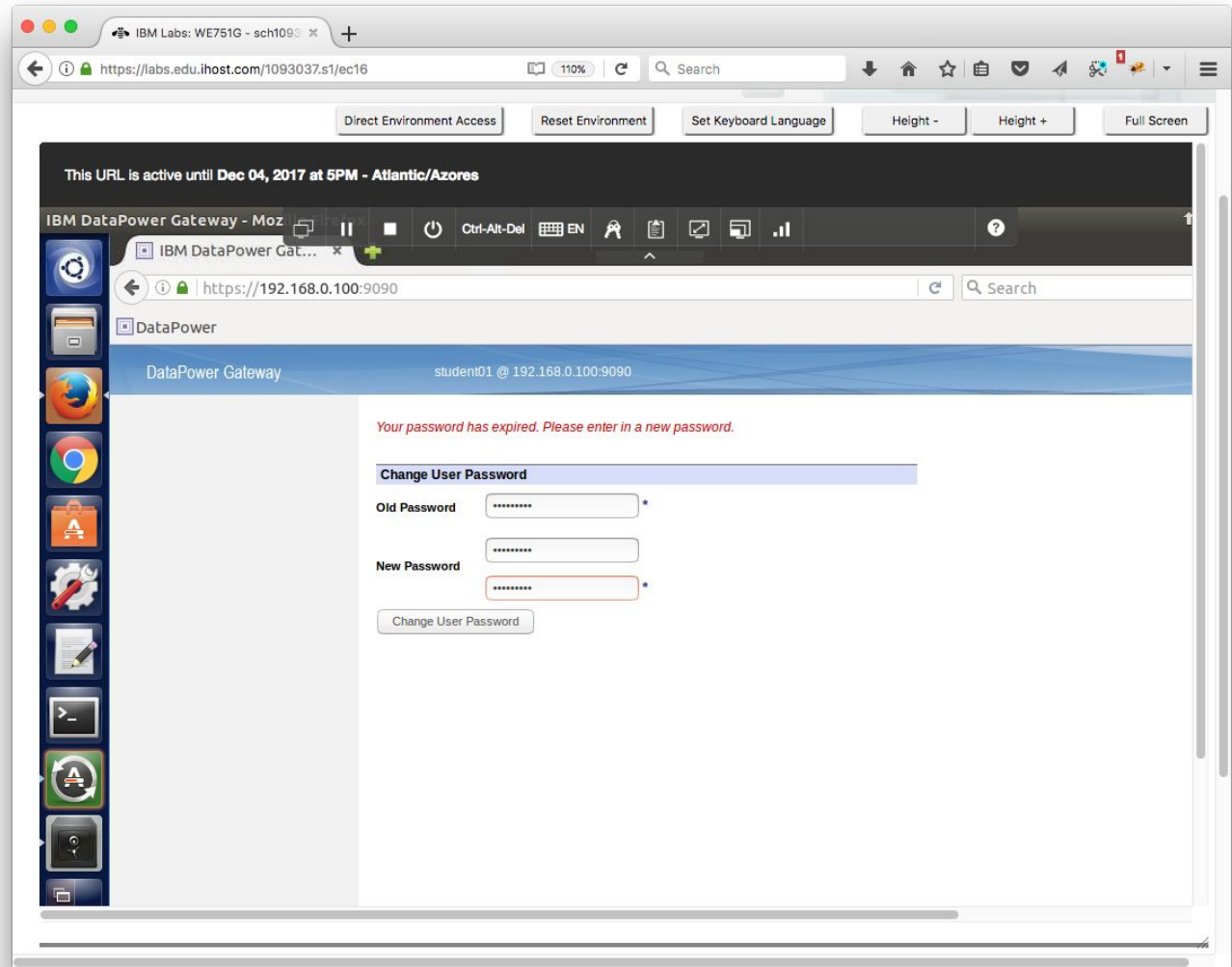
# DataPower Web Interface - *WebGUI*



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



# WebGUI successful login

Note in top blue band:

- user
- domain
- browser URL

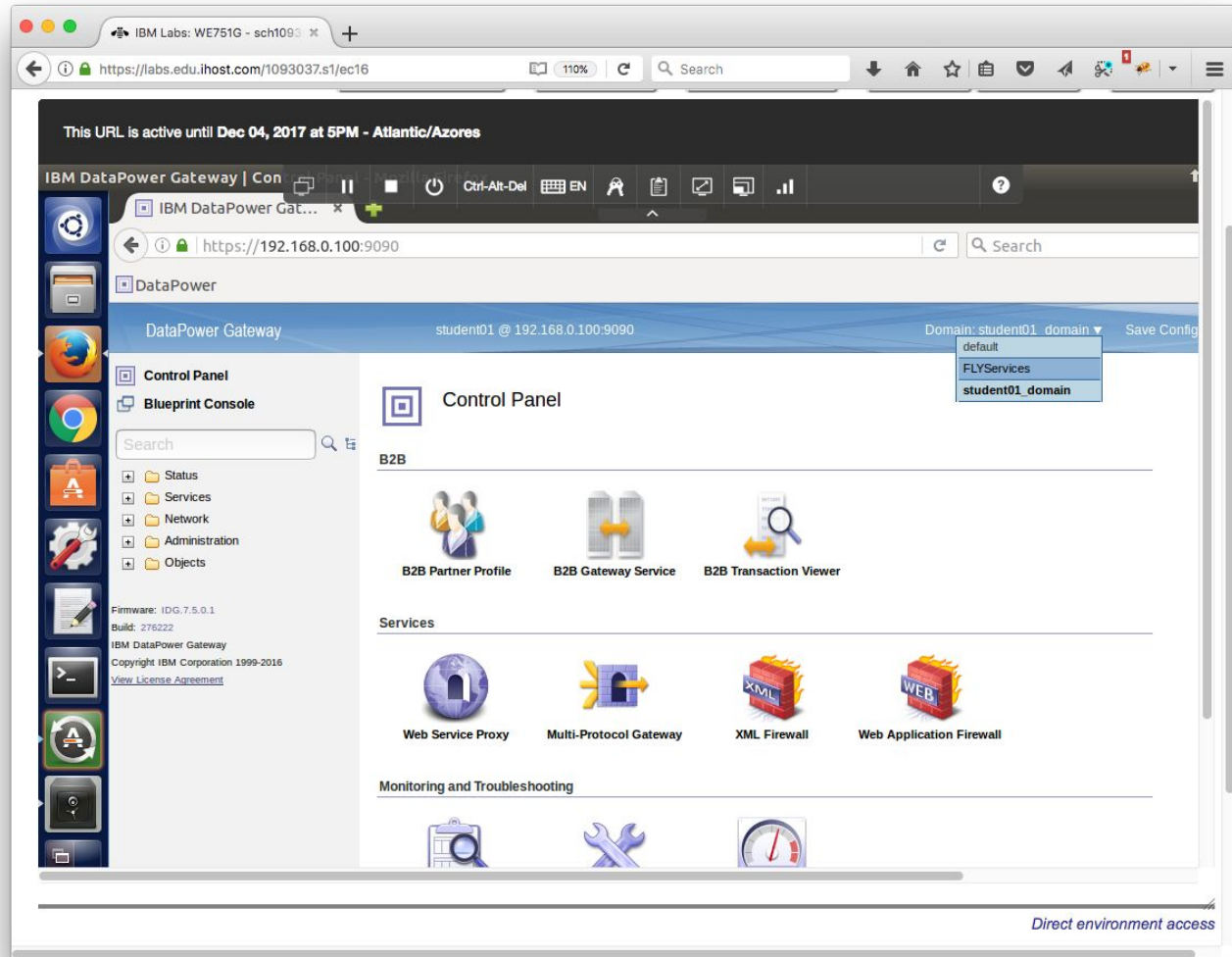
Domains:

***student01-domain***

- student work

***FlyServices***

- backend services

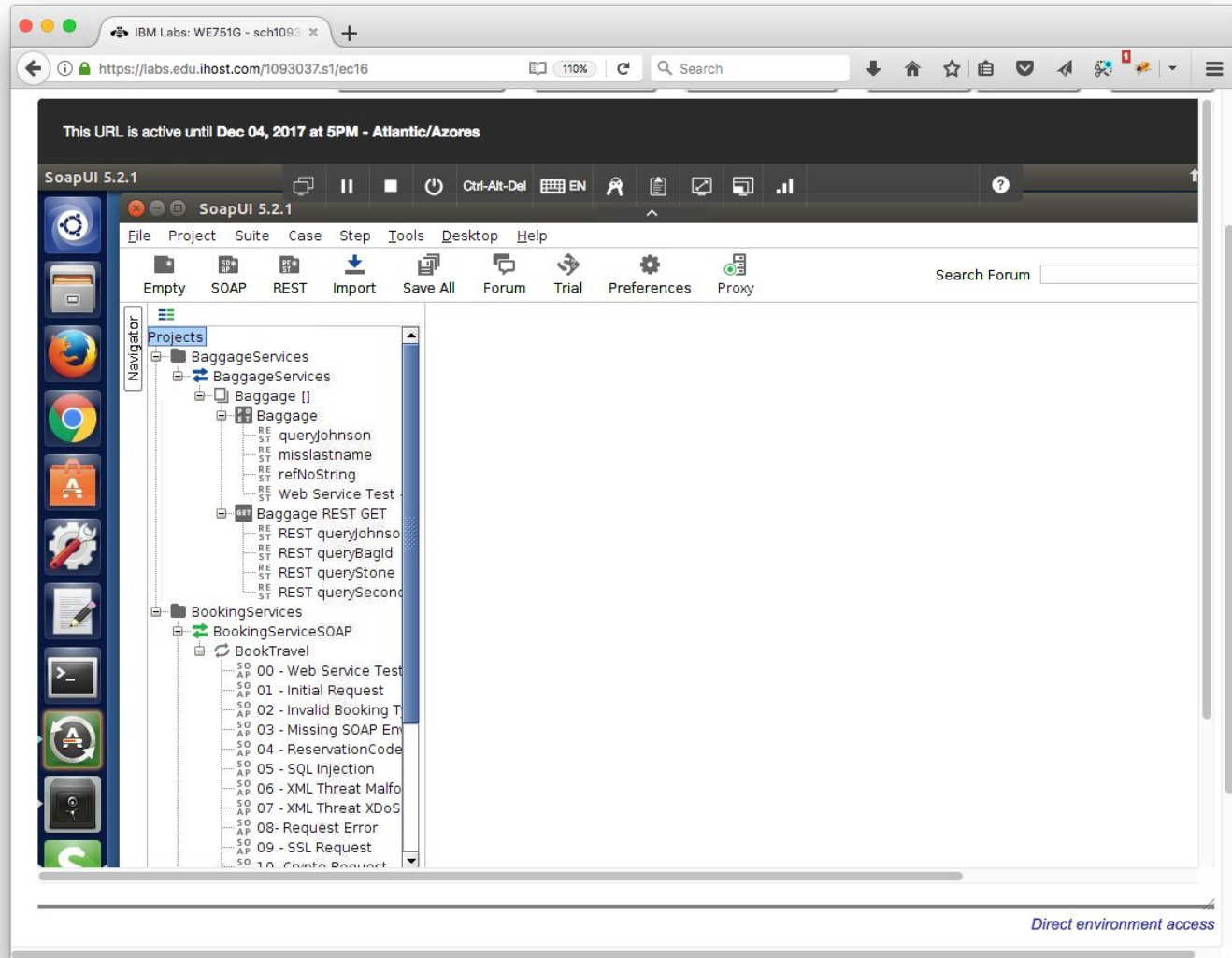


# SOAPUI:

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.

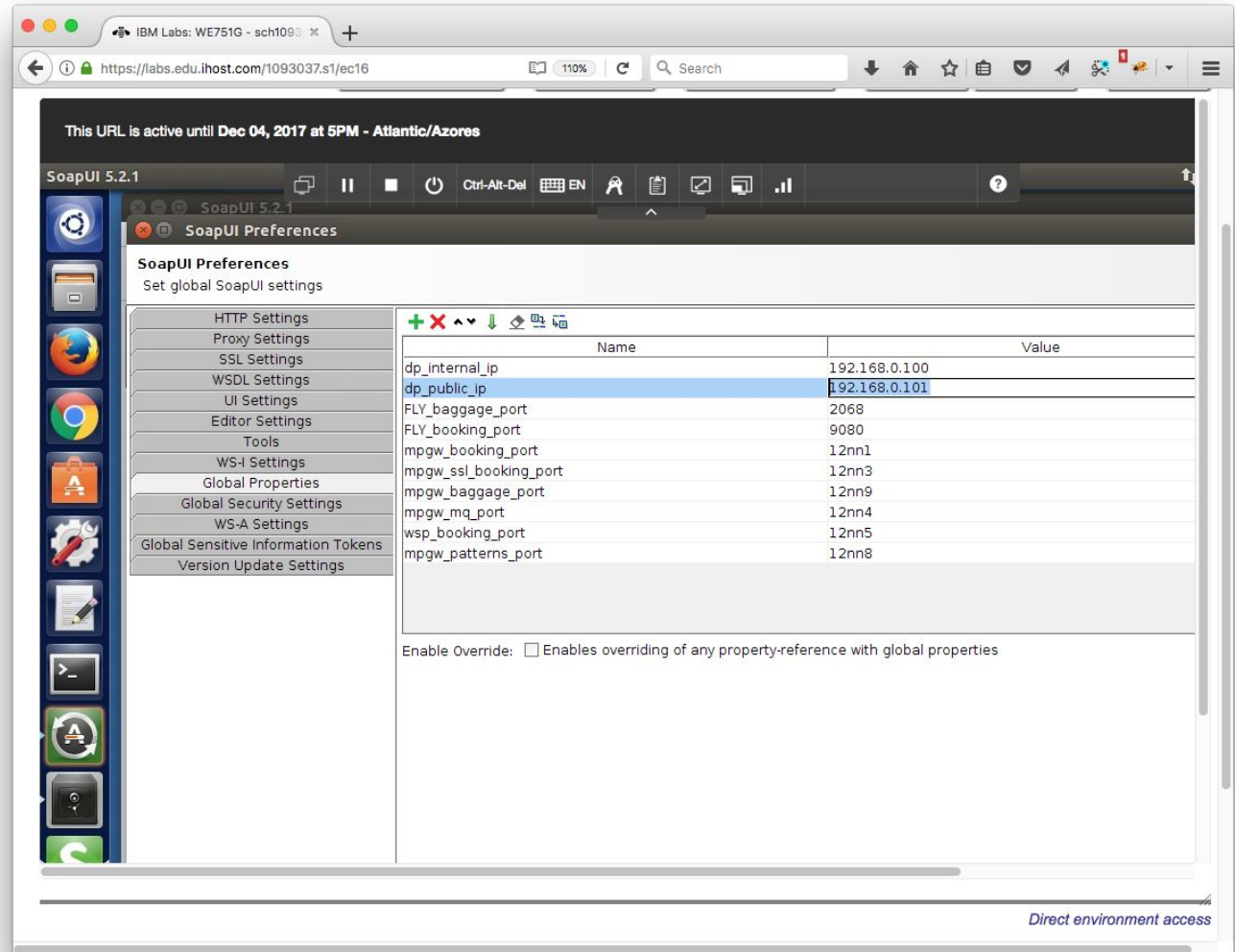


# SOAPUI:

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 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 URL: `http://${dp_internal_ip}:${FLY_booking_port}/BookingService`.

The left sidebar contains a Navigator pane with a tree view of test cases and services. The selected item is "00 - Web Service Test - Booking". Below the Navigator is a "Request Properties" table:

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

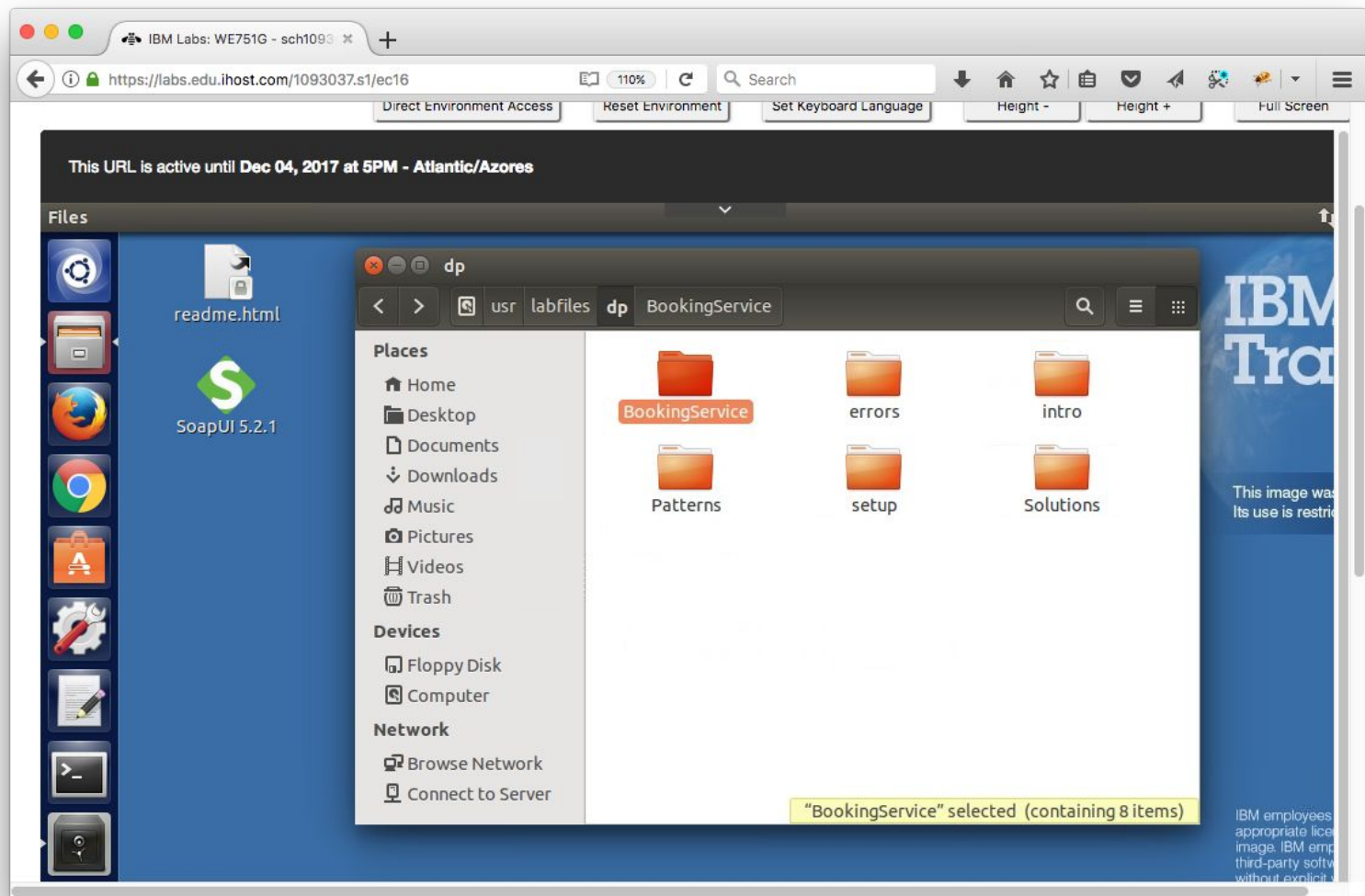
The main area shows the raw XML of the SOAP request and response. The request is a `BookingRequest` with details like `ReservationCode`, `BookingType`, `PaymentCardDetails`, `Expiry`, `CVV`, `HolderName`, `FirstN`, `LastN`, `Address`, `City`, `State`, `ZIP`, and `Country`. The response is a `BookingResponse` with similar details.

The bottom status bar shows the following log messages:

```
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]"
```

At the bottom right, there is a link: [Direct environment access](#)

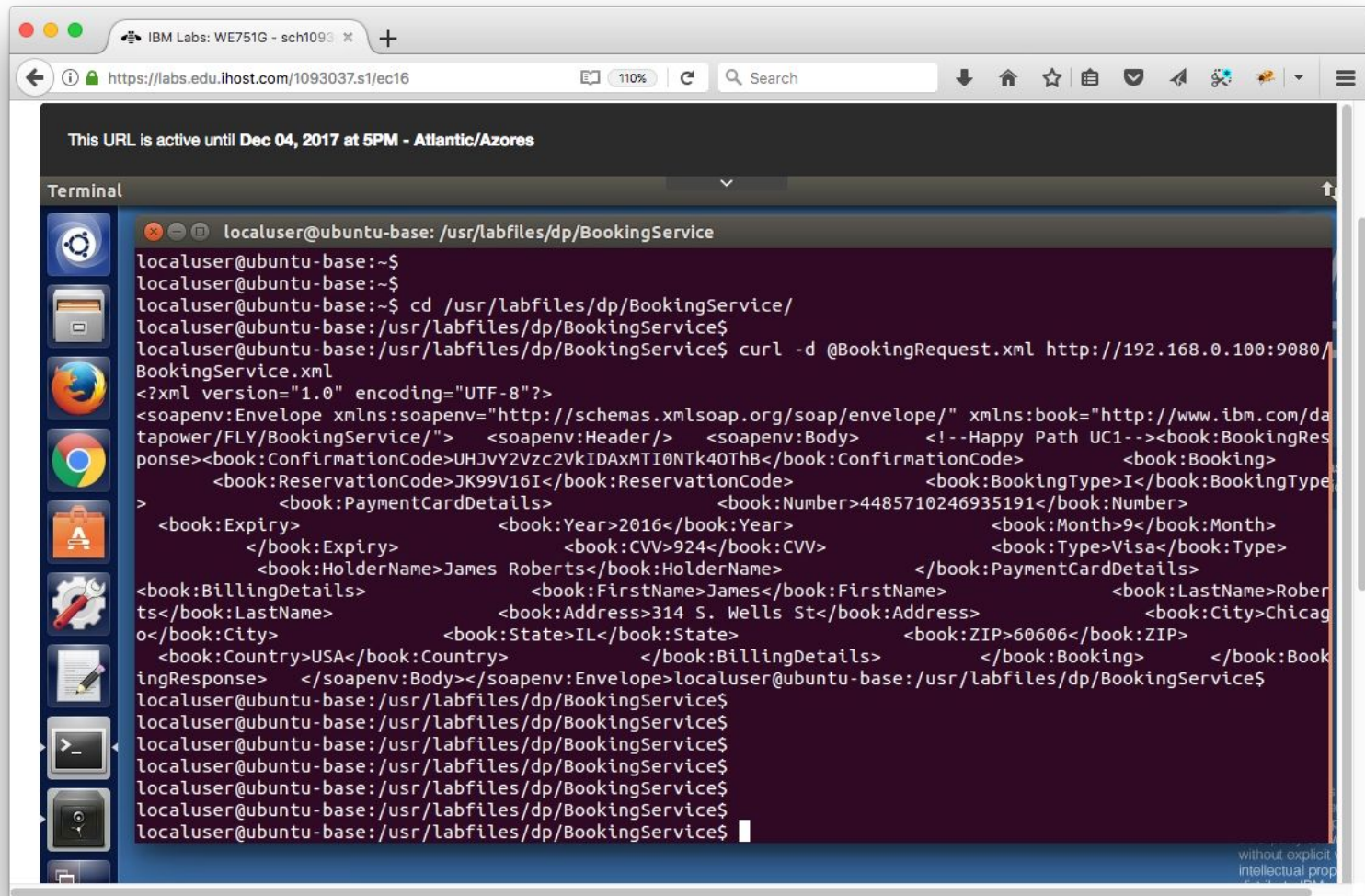
# Files:





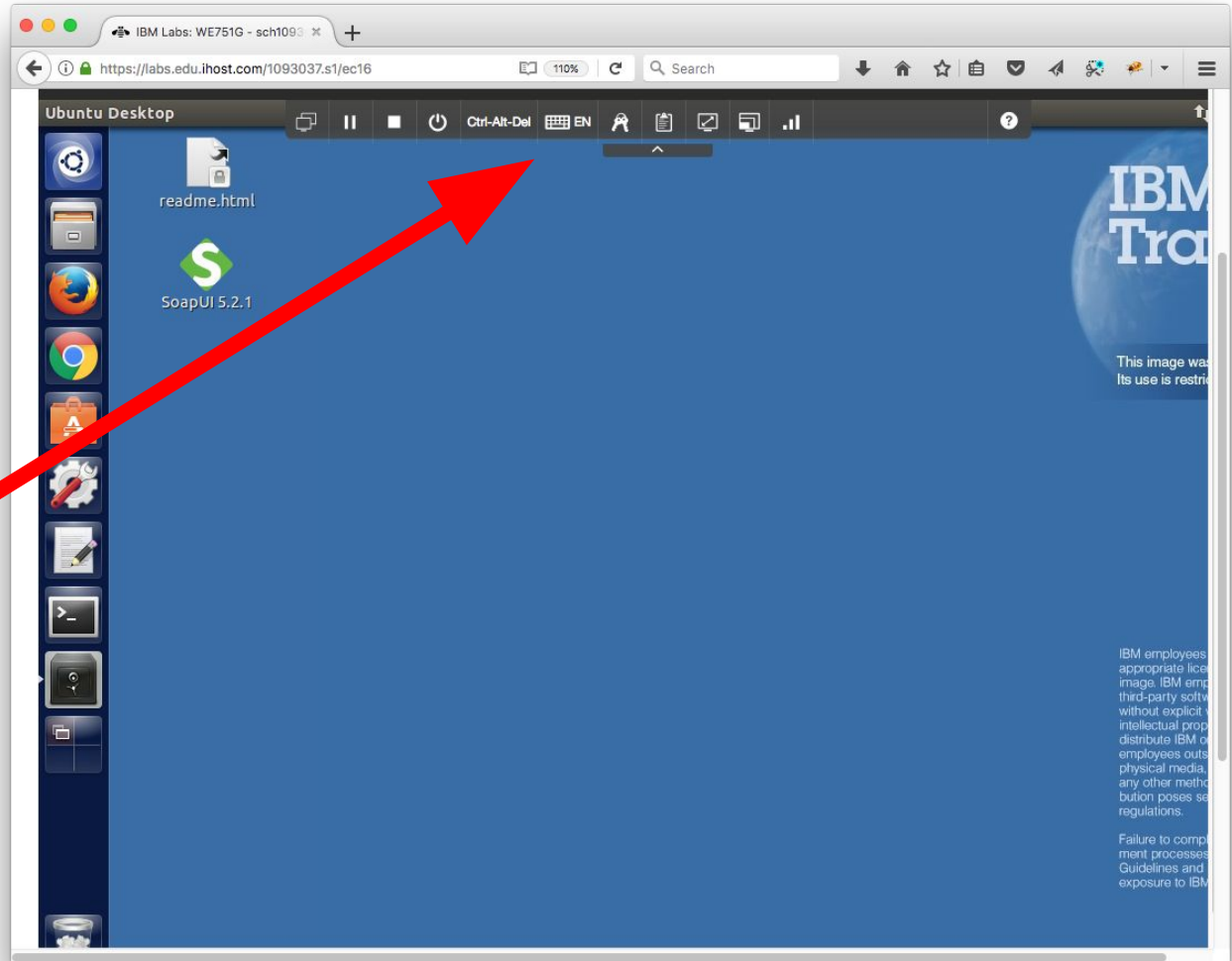
Used to run:

- curl
- etc.

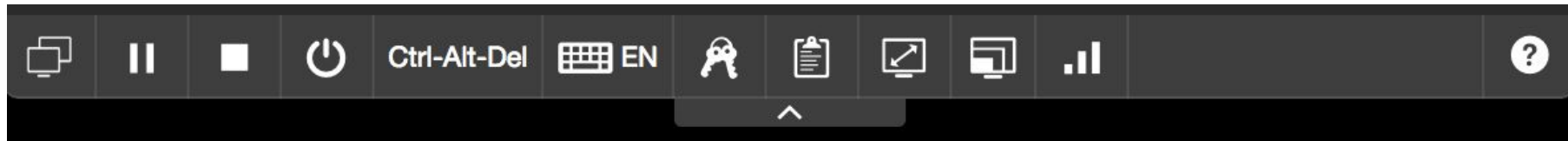


# Skytap image controls:

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



# 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.

Published on: [https://docs.google.com/presentation/d/e/2PACX-1vRfcRi5qFMsw68MmigTQtwYEUkgZ8cSWg8fRMqmcce\\_HBcVvzclVV94Bo\\_W17Qhu13LueWhuWz5CrQL/pub](https://docs.google.com/presentation/d/e/2PACX-1vRfcRi5qFMsw68MmigTQtwYEUkgZ8cSWg8fRMqmcce_HBcVvzclVV94Bo_W17Qhu13LueWhuWz5CrQL/pub)