

# Navigating UMGC Virtual Labs and Lab Setup

## Getting Started

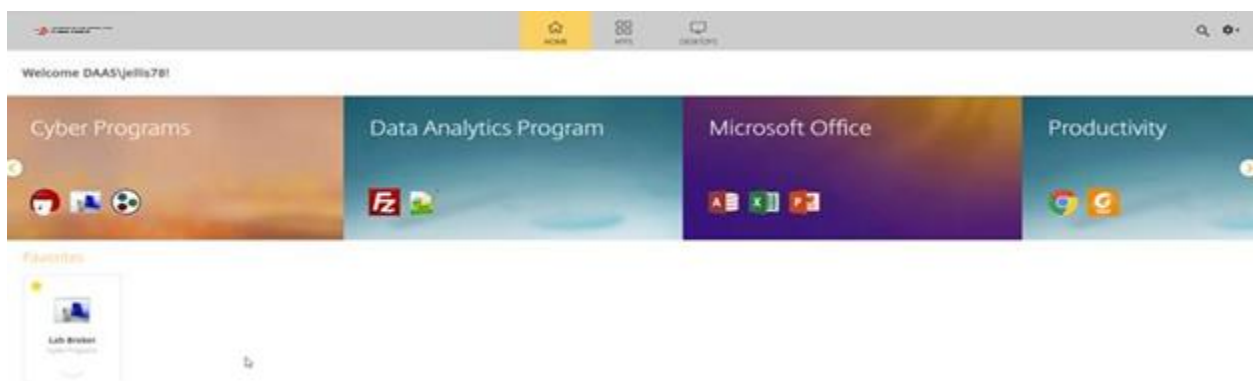
### First Time Accessing UMGC Virtual Lab Environment

You can access your virtual lab environment, your student Workspace, by navigating to this portal, <https://vdi.umgc.edu>. The UMGC Virtual Lab environment is accessible using any major browser such as Google Chrome, Mozilla Firefox, Internet Explorer, Microsoft Edge, and Safari.

Your lab environment and applications have already been configured based on the course(s) in which you are currently enrolled.

### Home View

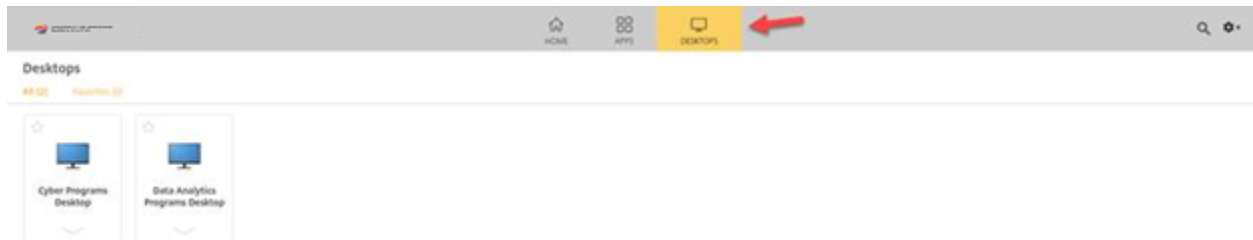
The portal is made up of three views, the Home, Apps, and Desktops views. Upon accessing your virtual lab environment, you will be presented with the Home view by default. On this view, you will see groups of applications made available to you based on your course, lab work, and other productivity needs. These groups of applications (i.e., Cyber Programs, Data Analytics Program, Microsoft Office, and Productivity) will be presented in a carousel as depicted below.



Source: Citrix, UMGC Virtual Labs

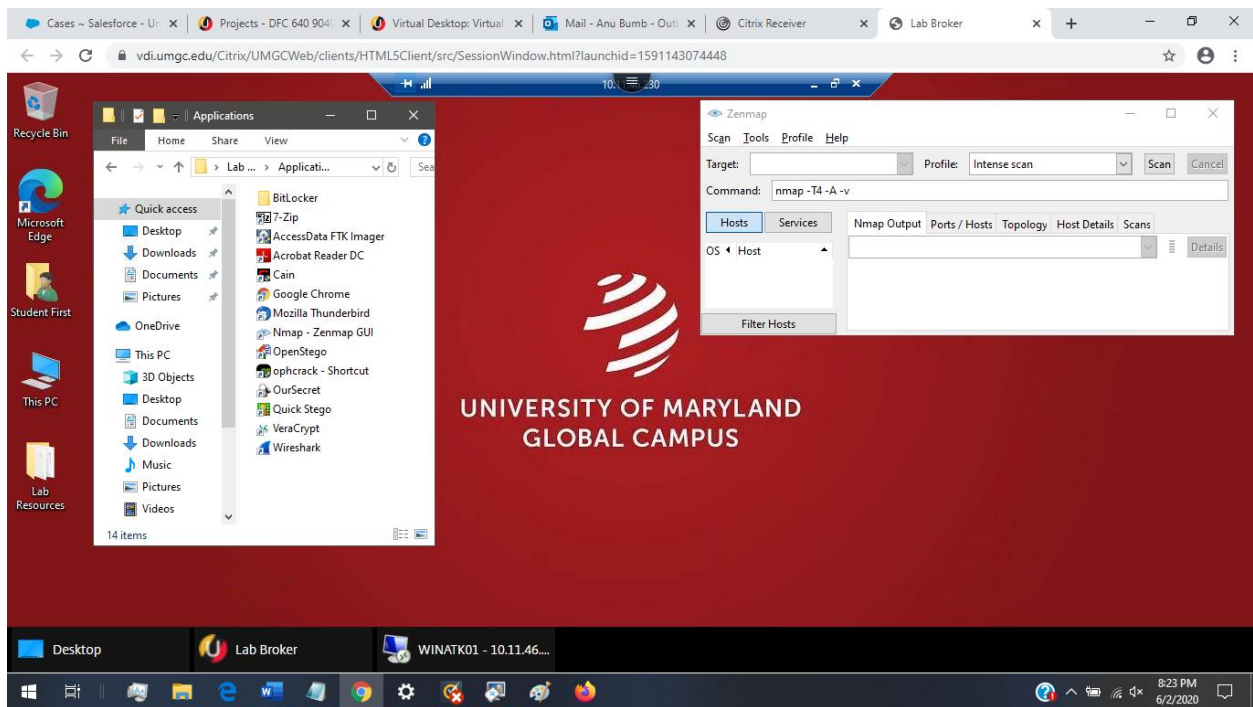
## Desktops View

The Desktops view will provide you access to a full virtual desktop. Some classes will require access to a full virtual desktop to complete the course exercises. Upon clicking the Desktops icon to access this view, you will be presented the virtual desktops available to you based on your course(s).



Source: Citrix, UMGC Virtual Labs

To open a virtual desktop, you just need to click the intended virtual desktop. This will open in another tab within your browser to access the virtual desktop as shown below.



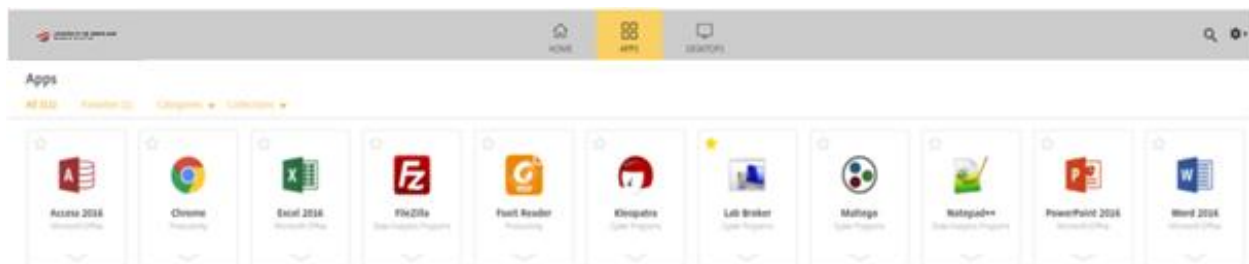
Source: Microsoft, UMGC Virtual Labs

## Apps View

On the portal, you will also be able to access the Apps view. This view will show you all applications that you have access to for your course(s), lab work, and other productivity needs. You can open these applications from

this view by simply clicking on their icons. The application will open a new tab within a browser where it will be ready for use.

From this view, you can also bookmark an app to be accessible from your Home view by marking it as a Favorite. This is done by clicking to select (turn yellow) the star on the top left corner of the Apps button.



Source: Citrix, UMGC Virtual Labs

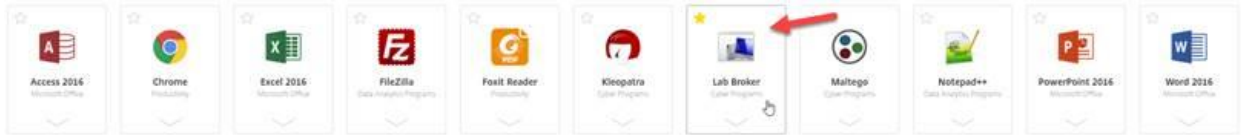
## The UMGC Lab Broker

### What is the UMGC Lab Broker?

Located in the virtual lab environment (your Workspace), the UMGC Lab Broker is an application that allows you to access the lab virtual machines (VMs) needed for your course(s).

### Opening Lab Broker

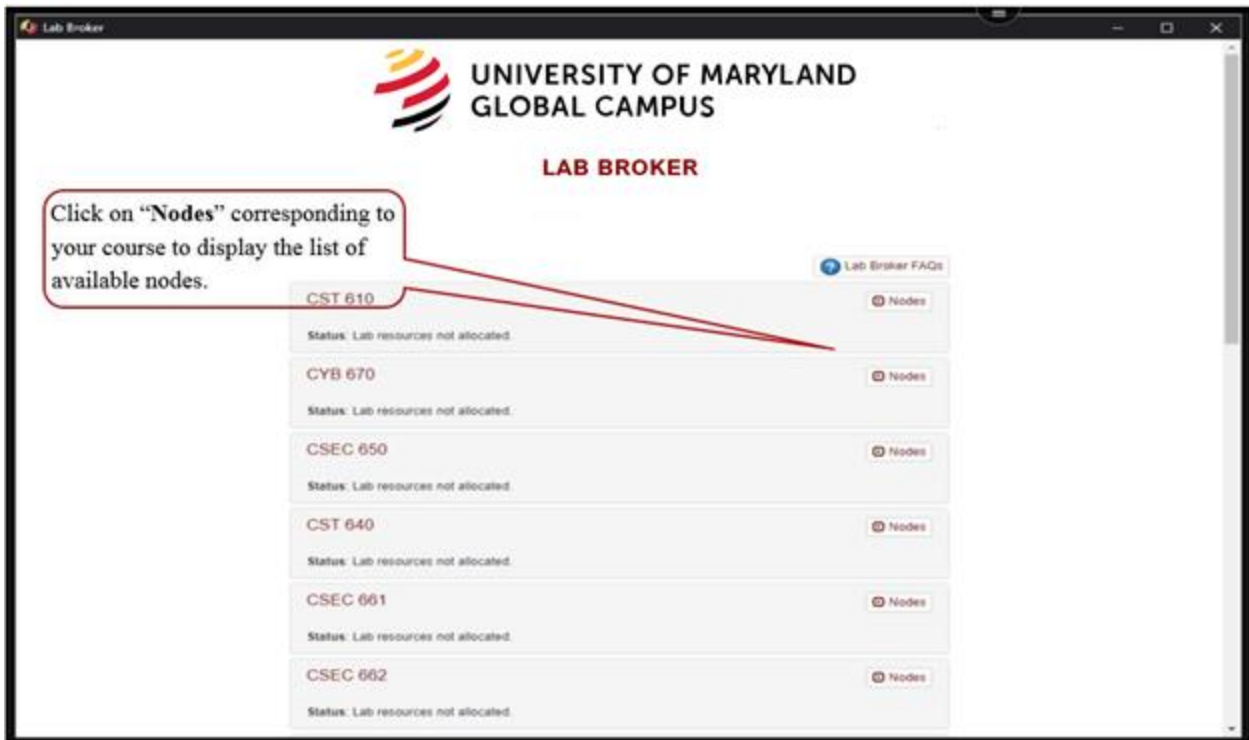
Under the Apps view of the portal, you will see the icon for Lab Broker. You may open this application by clicking on its icon, and it will open in a new tab in your browser. Once the application is open, it will display your course(s) name(s) and provide you access to the lab resources for your course(s).



Source: Citrix, UMGC Virtual Labs

## Using Lab Broker to Access the Lab VMs

Once you open Lab Broker, you will see a new window open. Each of your courses that contain labs will be listed in the interface.



Source: UMGC Virtual Labs

If you are accessing the lab for the first time, after expanding the list of nodes available for your course, you'll notice that the "Connect" and "Start" button are grayed out, and only the "Allocate Lab" button is clickable. Click on "Allocate Lab" to activate the nodes.

CYB 670 Nodes

Allocate Lab Start Nodes Destroy Lab


NIXATK01	Connect Start
NIXRCC01	Connect Start
WINATK01	Connect Start
WINTGT01	Connect Start
NIXTGT01	Connect Start
NIXTGT02	Connect Start

Status: Lab resources not allocated.

Source: UMGC Virtual Labs

Within each course block (e.g., CST 610), you will see the machines needed for your labs. Follow your lab instructions regarding which machines to access for each lab assignment. To connect to an individual lab machine, simply click the "Connect" icon.

Lab Broker


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**LAB BROKER**

Using the list of nodes available to you, connect to the appropriate node

Lab Broker FAQs

CST 610 Nodes

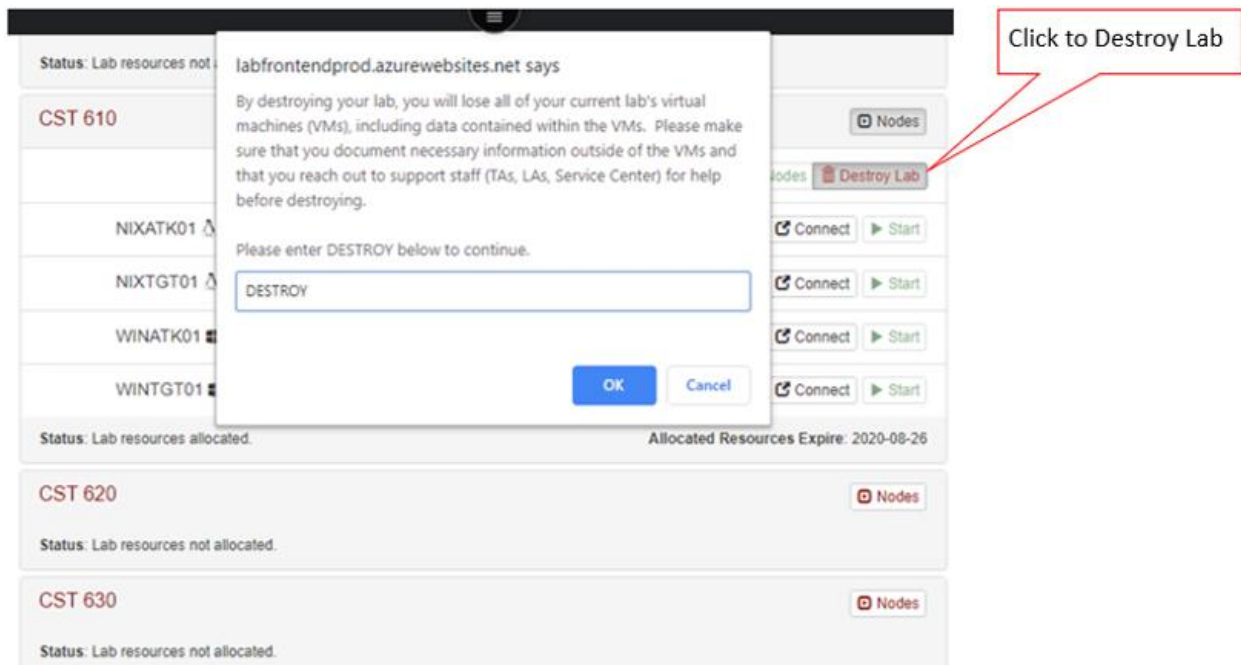
Allocate Lab Start Nodes Destroy Lab

NIXATK01	IP: 172.21.29.33	Connect Start
WINATK01	IP: 172.21.36.160	Connect Start
NIXTGT01	IP: 172.21.32.224	Connect Start
WINTGT01	IP: 172.21.49.13	Connect Start

Status: Lab resources allocated.

Source: UMGC Virtual Labs

Clicking the **Destroy** button allows you to **delete** the existing nodes within that course and the option to reallocate **new** machines.

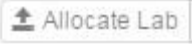








Source: UMGC Virtual Labs

## Credentials to Access the Lab VMs

- User ID: **StudentFirst**
- Password: **Cyb3rl@b**

## Buttons and Their Uses

Button	Use
 Allocate Lab	If you're accessing the lab for the first time, you will need to request that lab machines be set aside for your use. Clicking this button provides those resources to you.
 Start Nodes	Clicking this button starts allocated lab machines.
 Destroy Lab	Using this option will destroy your currently allocated lab resources.
 Connect	Once your machines are available and running, the connect option will become available. Clicking this will link you to the new lab machine. **

	Use this button to start an individual lab machine. Once the machine is started and running, the connect option will become available.
IP: 172.21.36.180  	The icon next to the IP address lets you copy the IP address and paste it in applications or tools used to connect to that node.
<b>**Note:</b> The first time you attempt to connect to a Windows machine and a Linux machine, you will receive a pop-up notification (External Protocol Request) that will ask you to approve Lab Broker to open your lab machines. For convenience, it is recommended that you select "Remember my choice for all links of this type." Next, click "Launch Application" to proceed to the lab environment.	