

Obtaining desktop GIS software

2023-2024

Introduction

There are currently three ways you can obtain desktop GIS software:

(1) download ArcGIS Pro 3.x (PC only) from RIT's ArcGIS Online.

(2) use the software in a public lab on the RIT campus if you are on campus in rooms GOL 2000/2025, GOL2350 and the Magic Labs of 3110,2150,2175.

(3) use the Remote Laboratory Emulation System (RLES) environment access to the software using a virtual machine, and

Option 1 is perhaps the easiest options as you can then have the software on your own (PC-only) machine and will have for 1 year (long after the class is over).

Option 1:

A. Before you install ArcGIS Pro 3.X

1. Check:

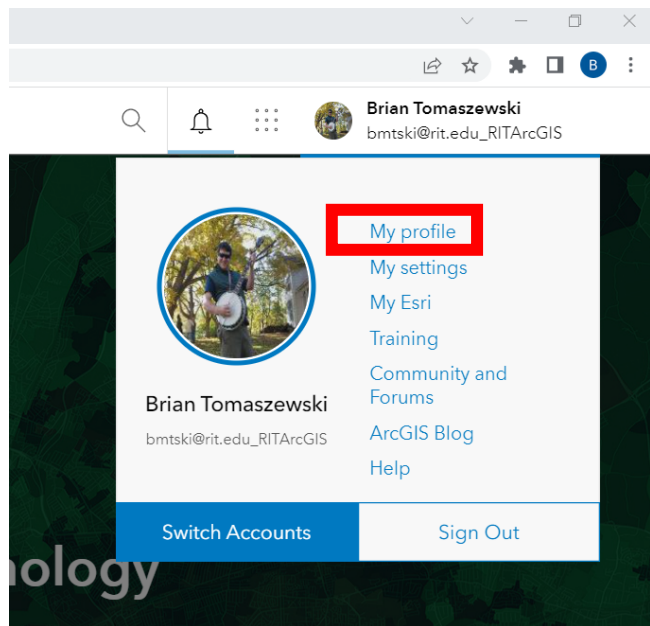
<https://pro.arcgis.com/en/pro-app/latest/get-started/arcgis-pro-system-requirements.htm>

to make sure your computer has the hardware and software required.

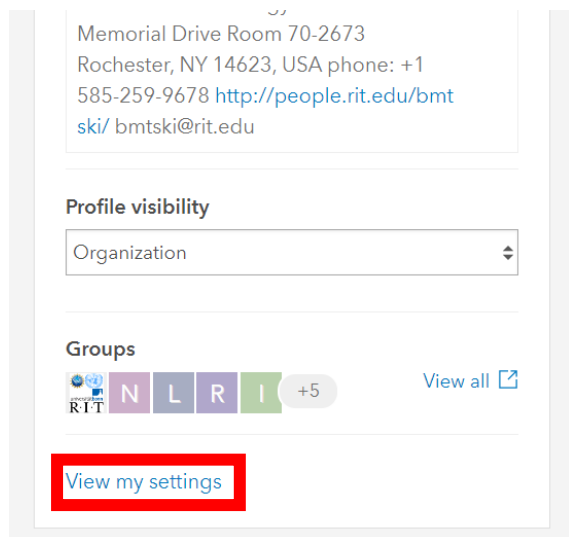
B. Access the software via RIT's ArcGIS Online

**** Note: Before you being these steps, contact your instructor to obtain a subscription to RIT's ArcGIS Online**

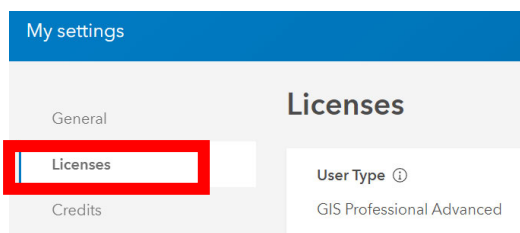
1. Visit: <https://ritarcgis.maps.arcgis.com/> to begin the process of activating and downloading your ArcGIS for Desktop Student Trial software.
2. Log in using your RIT Account (like you were checking your email).
3. After logging in, on top right under your user name, select My Profile



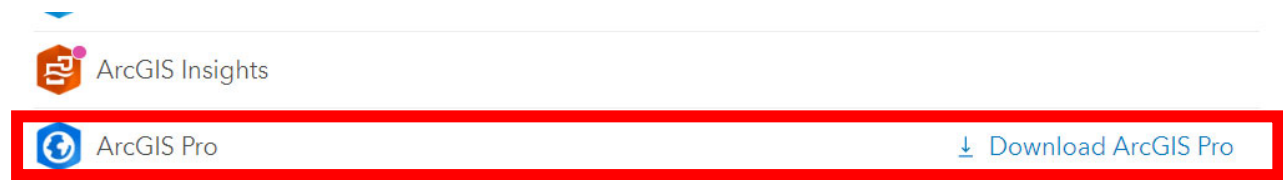
4. On the page that follows, on the bottom left, select View my settings:



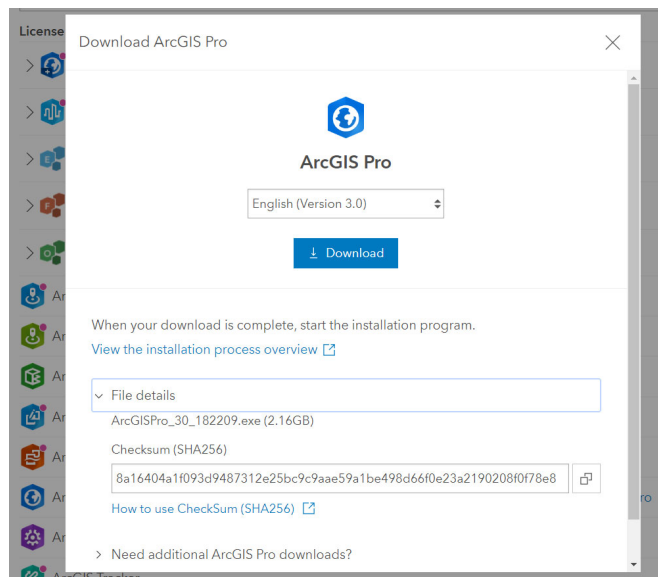
5. On the page that follows, on the top left, select Licenses:



6. Scroll down the licenses page until you see ArcGIS Pro Download ArcGIS Pro



7. Click the download ArcGIS Pro link to access the software, note that ArcGIS Pro 3.X is a large download (~2.16 gb)



C. Download and install ArcGISPro for Desktop Student Trial

Note that the following software must be installed before installing ArcGIS Pro:

[Microsoft .NET Desktop Runtime 6.0.5 - Windows x64](#)

Once you have installed ArcGIS Pro, follow these steps to login:

When opening the software for the first time, if you see a login prompt, enter your RIT credentials:

RIT | Rochester Institute of Technology

RIT

Login to ritarcgis.maps.arcgis.com

Username

RIT Username

Password

Password

Login

[Forgot Username?](#) | [Forgot Password?](#)
[Change Password](#)

☒ Sign in automatically [Configure Licensing](#)

[Sign In Using Browser](#)

If you see a different screen and need to select an enterprise login

enter:

ritarcgis

ArcGIS Sign In

ArcGIS Pro wants to access your ArcGIS Online account information

Sign in with

ArcGIS login

Enterprise login

Your ArcGIS organization's URL

ritarcgis

Remember this URL

Continue

Facebook

Google


Privacy

☒ Sign me in automatically

use your RIT Credentials to login in (like you were checking your email)

ArcGIS Sign In

ArcGIS Pro wants to access your ArcGIS Online account information ?

Sign in to Rochester Institute of Technology with 

Enterprise login ^

RIT

ArcGIS login v

[Privacy](#)

☒ Sign me in automatically

ArcGIS Sign In

RIT | Rochester Institute of Technology

RIT Login

Login to ritarcgis.maps.arcgis.com

RIT Username

Password

[Forgot Username?](#) | [Forgot Password?](#)

Need assistance? Please contact the ITS Service Desk at
585-475-HELP [4357] or servicedesk@rit.edu.

☒ Sign me in automatically

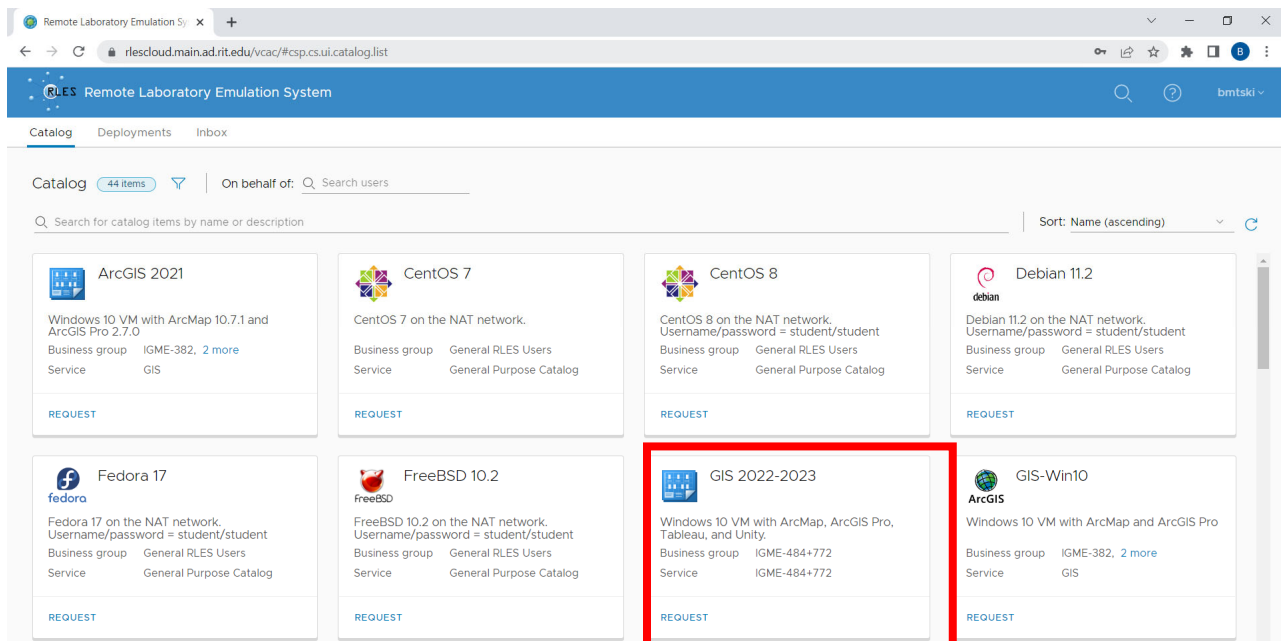
Option 2:

If you are on the RIT campus, you can access ArcGIS Pro in GOL 2000/2025, GOL2350 and the Magic Labs of 3110,2150,2175.

Option 3: *The Remote Laboratory Emulation System (RLES) environment access to the software*

***Note:** Steps 1 to 7 are instructions for accessing RLES for the first time. If you have already logged into RLES previously, [start at this step \(step 7\)](#) for accessing your Remote Console after a previous RLES login.

1. Log in at <https://rlescloud.rit.edu> using your RIT credentials (If prompted for a “Domain” just click “Next” as it should already say “main.ad.rit.edu.”)
2. On the screen that follows after step 1, you should see the “Catalog” screen. We will be working with GIS 2022-2023



3. Click “Request” GIS 2022-2023

The screenshot shows the 'Remote Laboratory Emulation System' catalog interface. The browser address bar displays 'riescloud.main.ad.rit.edu/vcac/#csp.cs.ui.catalog.list'. The page header includes the system name and a user profile 'bmtski'. The main content area is titled 'Catalog' and shows a list of available images. The 'GIS 2022-2023' entry is highlighted with a red border.

Image Name	Description	Business group	Service	Action
ArcGIS 2021	Windows 10 VM with ArcMap 10.7.1 and ArcGIS Pro 2.7.0	IGME-382, 2 more	GIS	REQUEST
CentOS 7	CentOS 7 on the NAT network.	General RLES Users	General Purpose Catalog	REQUEST
CentOS 8	CentOS 8 on the NAT network. Username/password = student/student	General RLES Users	General Purpose Catalog	REQUEST
Debian 11.2	Debian 11.2 on the NAT network. Username/password = student/student	General RLES Users	General Purpose Catalog	REQUEST
Fedora 17	Fedora 17 on the NAT network. Username/password = student/student	General RLES Users	General Purpose Catalog	REQUEST
FreeBSD 10.2	FreeBSD 10.2 on the NAT network. Username/password = student/student	General RLES Users	General Purpose Catalog	REQUEST
GIS 2022-2023	Windows 10 VM with ArcMap, ArcGIS Pro, Tableau, and Unity.	IGME-484+772	IGME-484+772	REQUEST
GIS-Win10	Windows 10 VM with ArcMap and ArcGIS Pro	IGME-382, 2 more	GIS	REQUEST

4. On the screen that follows, click “Submit” on the next page to begin the deployment:

The screenshot shows the 'Deployment: GIS 2022-2023' form in the Remote Laboratory Emulation System. The form is titled 'Deployment: GIS 2022-2023' and has a 'General' tab. It contains the following fields:

- Description: Windows 10 VM with ArcMap, ArcGIS Pro, Tableau, and Unity.
- Reason for request: (Empty text box)
- Lease days: 150 (Dropdown menu)
- Deployments: 1 (Dropdown menu, with '(Select 1-2)' text)

At the bottom left of the form, there are two buttons: 'SUBMIT' and 'CANCEL'. The 'SUBMIT' button is highlighted with a red rectangle.

5. The deployment will start and take about 15 minutes

The screenshot shows the 'Deployments' page in the Remote Laboratory Emulation System. The page title is 'Deployments' and it shows '2 items'. A search bar is present with the text 'Search for deployments by name, description, IP address, resource name or machine status'. The deployments are sorted by 'Created Date (descending)'. A single deployment is listed, highlighted with a red rectangle:

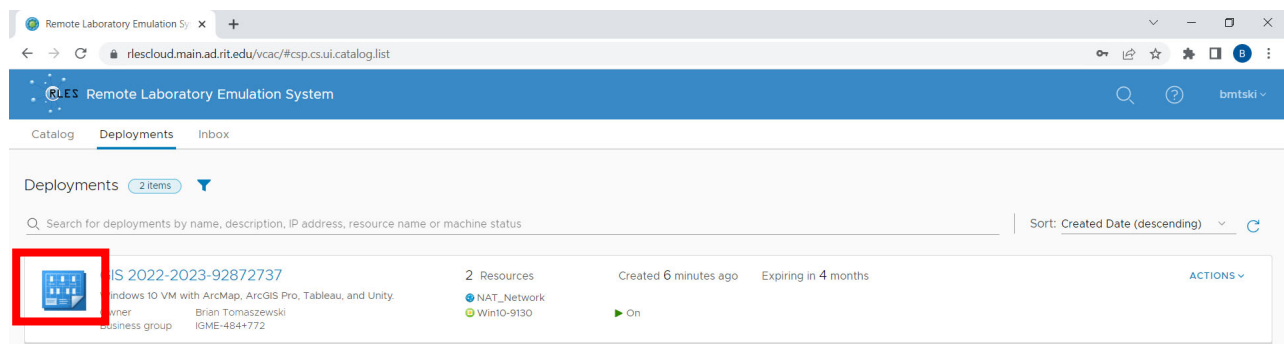
Deployment Name	Status	Progress	Actions
GIS 2022-2023 Windows 10 VM with ArcMap, ArcGIS Pro, Tableau, and Unity. Owner: Brian Tomaszewski Business group: IGME-484+772	#377723 - Provision GIS 2022-2023 - Submitted	1%	CANCEL 0 minutes since submitted

6. Once it has been deployed, it will show up on the “Deployments” page.

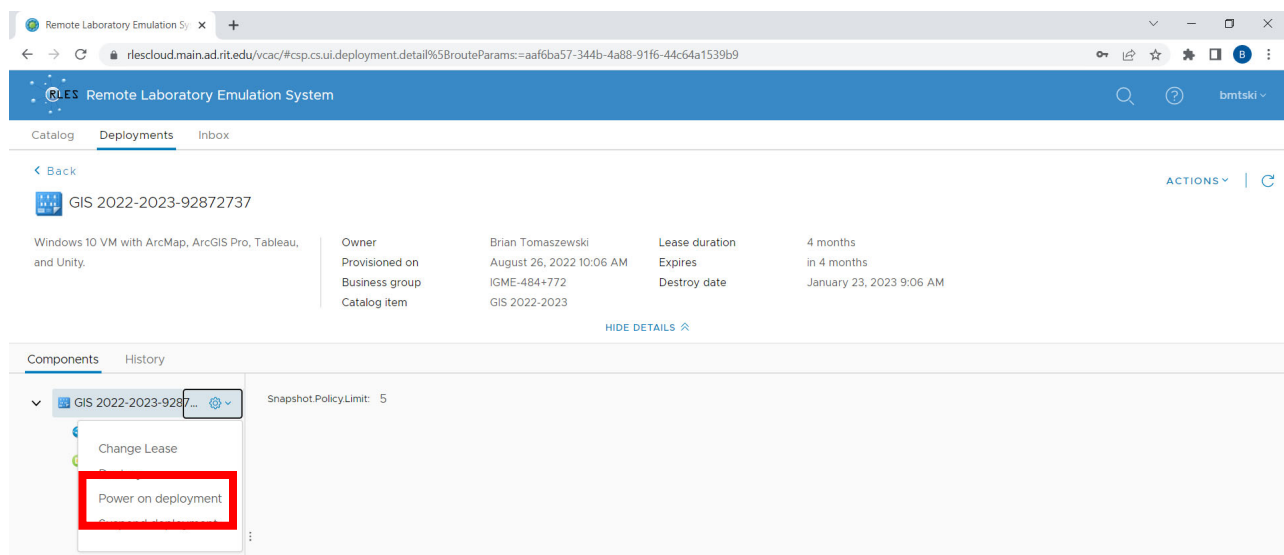
The screenshot shows the 'Deployments' page in the Remote Laboratory Emulation System. The page title is 'Deployments' and it shows '2 items'. A search bar is present with the text 'Search for deployments by name, description, IP address, resource name or machine status'. The deployments are sorted by 'Created Date (descending)'. A deployment is listed, highlighted with a red rectangle:

Deployment Name	Resources	Created	Expires	Actions
GIS 2022-2023-92872737 Windows 10 VM with ArcMap, ArcGIS Pro, Tableau, and Unity. Owner: Brian Tomaszewski Business group: IGME-484+772	2 Resources NAT_Network Win10-9130	Created 6 minutes ago	Expiring in 4 months	ACTIONS

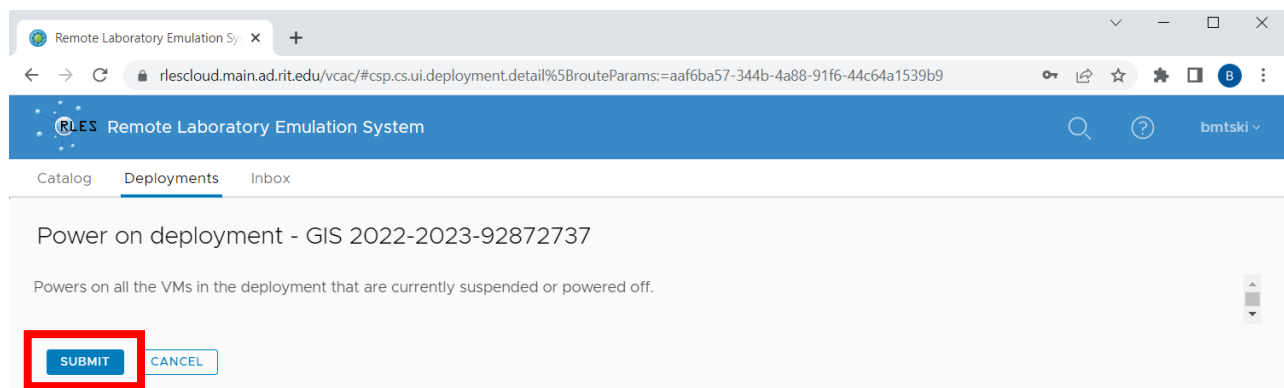
7. To access the VM, navigate to the “Deployments” page, expand GIS 2022-2023



8. On the screen that follows, select the name of your class (aka Business group) under Components, click the Gear icon and then select “Power on deployment” from the gear icon menu:



9. Click submit



It may take a few minutes for the virtual machine to turn on.

10. Once Power On has been completed, you will be returned to the deployments screen. To open the remote machine, select the name of your class (aka Business group) under Components, click the Gearicon and then select "Connect to Remote Console" from the gear icon menu.

The screenshot displays the RLES web interface. At the top, a blue header bar contains the RLES logo and the text "Remote Laboratory Emulation System". Below this, a navigation bar includes "Catalog", "Deployments" (which is active), and "Inbox". A light blue notification banner states: "Power on deployment request has been submitted successfully for GIS 2022-2023-92872737".

Below the notification, a "Back" link is visible. The main content area shows the deployment "GIS 2022-2023-92872737" with a description: "Windows 10 VM with ArcMap, ArcGIS Pro, Tableau, and Unity." To the right, a table lists deployment details:

Owner	Brian Tomaszewski	Lease duration	4 months
Provisioned on	August 26, 2022 10:06 AM	Expires	in 4 months
Business group	IGME-484+772	Destroy date	January 23, 2023 9:06 AM
Catalog item	GIS 2022-2023		

A "HIDE DETAILS" link with an upward arrow is located below the table.

Below the details, there are two tabs: "Components" and "History". The "Components" tab is active, showing a list of components. A red rectangle highlights the "Win10-9130" component, which has a gear icon next to it. Below the component list, there are links: "Connect to Remote Console", "Connect using vmrc", "Create Snapshot", and "Power Cycle".

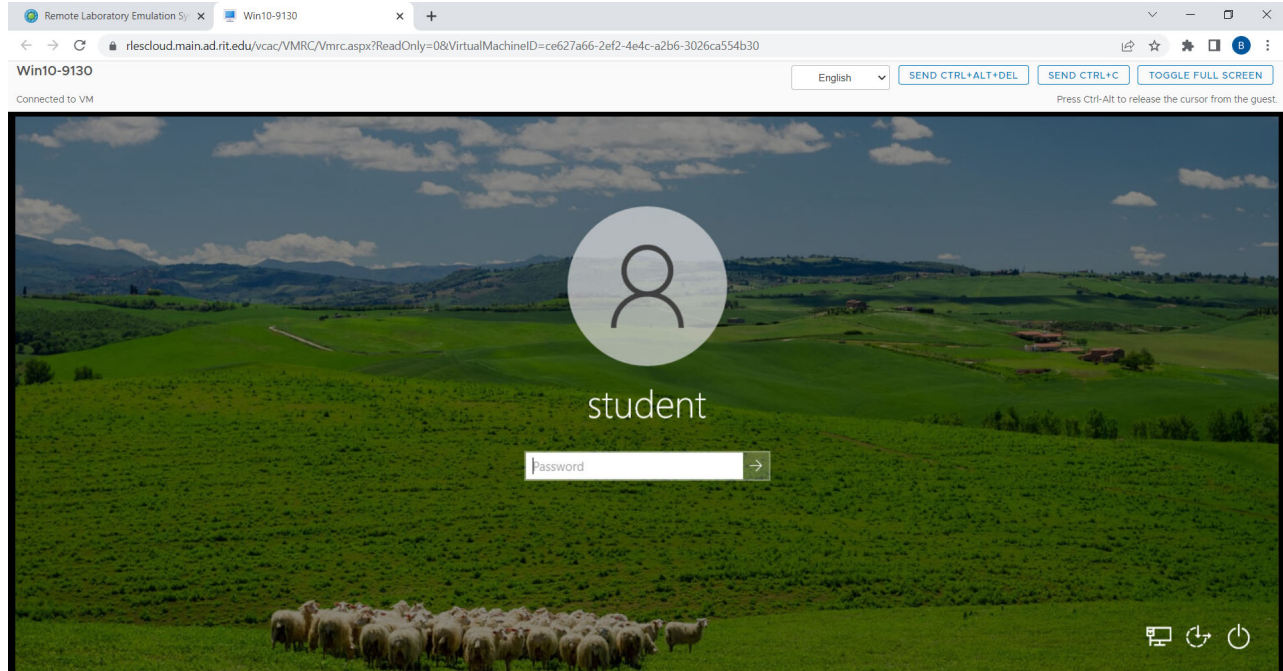
The right side of the interface shows the configuration for the selected component "Win10-9130". It includes tabs for "General", "Storage", "Network", "Security", and "Snapshots". The "General" tab is active, displaying the following information:

- Name: Win10-9130
- Component: Windows10
- Status: On
- CPUs: 2
- Memory (MB): 12288
- Storage (GB): 200
- Description: username/secureid: student/student

Tip: If you receive a message "Power on deployment" was completed successfully but do see the gear icon, refresh your browser.

A popup window will open with the Remote Console, and you will be able to interact with the Remote Console.

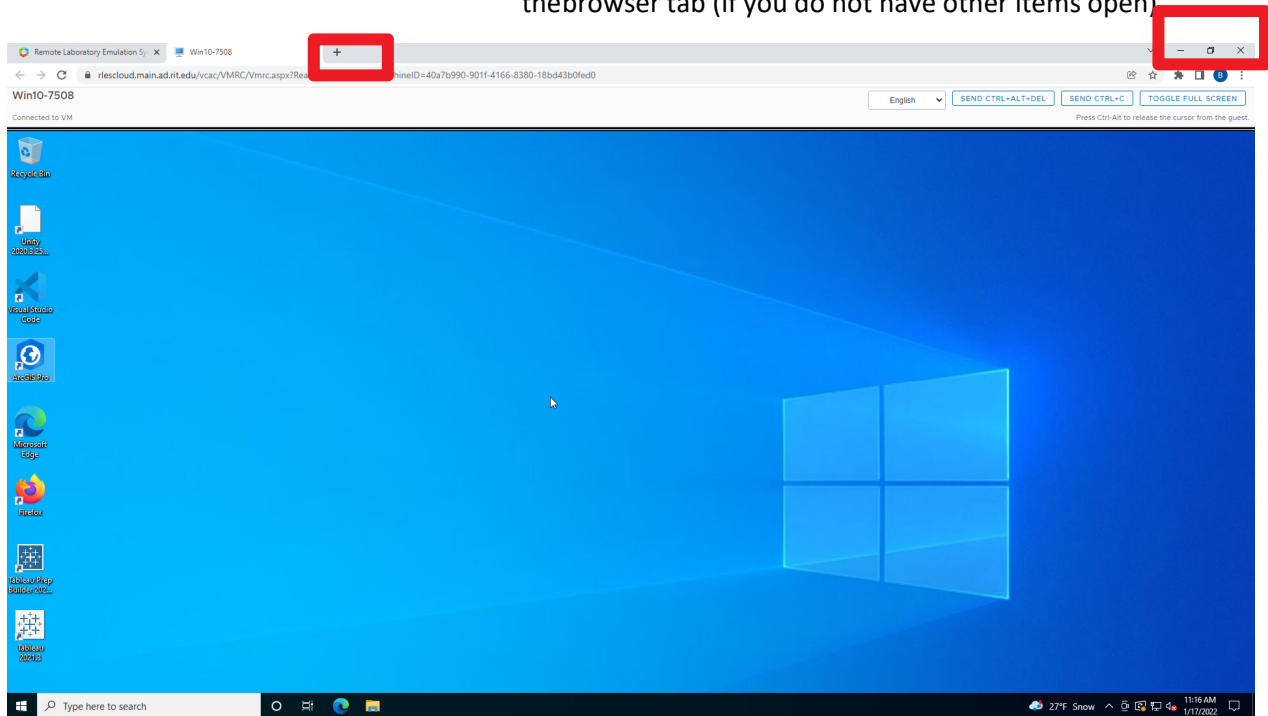
The default view looks like this:



The password to login in is: **student**

Note that you can store downloaded items on the machine but there is no way to directly transfer files onto the Remote Console like you would do with a USB stick drive. It is recommended you use a web-based approach such as google drive or dropbox if you need to get files onto the Remote Console.

11. When you are done working with your Remote Console, close the Remote Console window by clicking the X at the top right of the window (if the window is in its own browser) or by closing the browser tab (if you do not have other items open)



12. To shutdown your Remote Console, select the name of your class (aka Business group) under Components, click the Gear icon and then select "Shutdown" from the gear icon menu.

Remote Laboratory Emulation System

CatalogDeploymentsInbox

Power on deployment request has been submitted successfully for GIS 2022-2023-92872737

Back

GIS 2022-2023-92872737

Windows 10 VM with ArcMap, ArcGIS Pro, Tableau, and Unity.

OwnerBrian Tomaszewski

Provisioned onAugust 26, 2022 10:06 AM

Business groupIGME-484+772

Catalog itemGIS 2022-2023

Lease duration4 months

Expiresin 4 months

Destroy dateJanuary 23, 2023 9:06 AM

HIDE DETAILS

ComponentsHistory

GIS 2022-2023-92872737

NAT_Network

Win10-9130

Connect to Remote Console

Connect using VMRC

Create Snapshot

Power Cycle

Power Off

GeneralStorageNetworkSecuritySnapshots

Name: Win10-9130

Component: Windows10

Status: On

CPU: 2

Memory (MB): 12288

Storage (GB): 200

Description: username/password: student/student