

# CIS276 | Fall 2019



# **CIS276 Access Information**

The following guide will refer to your login credentials (**UID** and **password**) which will allow you to access the CIS Cloud and VMware software to access your Virtual Machines (VMs).

## **User Credentials**

#### 1. UID

Your user ID (**UID**) is in the format of your first initial combined with your last name. For example, a student named **John Smith** will have the UID *jsmith*.

#### 2. Password

Your password is the same as your **MEID**, which is typically the first 3 letters of your first name followed by a seven digit number. For example, **John Smith** may have the **MEID** *joh0123456*.

#### -- Troubleshooting --

If you have any issues connecting to the CIS Cloud or logging in to your VM, contact your instructor and they can help troubleshoot your issue.

# **Windows Credentials**

For CIS276 you will be issued a Windows 10 Virtual Machine and a CIS Student user account with no password.

Please do not change the user account or assign a password, this will prevent your instructor from grading your assignments or assisting you with any troubleshooting.

# **CIS Cloud Access Guide**

#### 1. Overview

This guide describes the tasks you need to perform in order to access the CIS Instructional Cloud. The first step will be to download and install the OpenVPN client. This will allow you to remotely access the CIS Cloud private network. Once you are on the network, you will download and install the VMware Remote Console (VMRC) from the CIS Cloud FTP site. VMRC gives you remote access to log onto your VMs.

#### -- IMPORTANT --

If you have taken previous courses using the CIS Cloud, you should uninstall the OpenVPN client and the VMware Remote Console and then complete the tasks in this guide. The system has been updated, and you need the most current versions of these applications.

#### -- IMPORTANT --

#### 1.1 Your user id (UID) and password

A user id (UID) has been created for you, and is listed in a separate document which is posted with this guide.

#### 2. Preparing your computer for cloud access

The following steps assume that you have Windows 10 and that you will be using the Google Chrome browser. (*A separate support document for Mac OS can be requested*)

### 2.1 Download and Install the OpenVPN Client

1. Open the Chrome browser. Point the browser to <u>https://lnx.sc.maricopa.edu:943</u>. You will probably be taken to a warning screen telling you the connection is not private. Click on the "Advanced" link, and then click on the "Proceed to Inx.sc.maricopa.edu (unsafe)" link.

	Your connection is not private
	Attackers might be trying to steal your information from <b>Inx.sc.maricopa</b> . example, passwords, messages, or credit cards). <u>Learn more</u> NET::ERR_CERT_AUTHORITY_INVALID
Your connection is not private	Automatically send some <u>system information and page content</u> to Google to help and the system of
Attackers might be trying to steal your information from Inx.sc.m	dangerous apps and sites. Privacy policy
example, passwords, messages, or credit cards). Learn more	
NET::ERR_CERT_AUTHORITY_INVALID	
	HIDE ADVANCED
Automatically send some <u>system information and page content</u> to Go	
dangerous apps and sites. Privacy policy	This server could not prove that it is <b>Inx.sc.maricopa.edu</b> ; its security cert
	trusted by your computer's operating system. This may be caused by a mi
	an attacker intercepting your connection.
ADVANCED	Proceed to Inx.sc.maricopa.edu (unsafe)

#### 2.1 ...Continued

2. You will be taken to the OpenVPN login screen. Enter your **UID** and password. Press the "Go" button: (Keep **Login** as the drop-down selection)

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3. The next screen contains a the OpenVPN client. Click on		
Operating System e.g. Windo	ws or Mac OSX:	Connect Logout To download the OpenVPN Connect app, please choose a platform below: OpenVPN Connect for Windows
The installation file will down	load:	<u>OpenVPN Connect for Mac OS X</u> <u>OpenVPN Connect for Android</u> <u>OpenVPN Connect for iOS</u> <u>OpenVPN for Linux</u>
openvpn-connectmsi	^	Connection profiles can be downloaded for:
Ask me anything	9	Yourself (user-locked profile)

4. Double click on the file to begin running the installer. If you receive the Windows Security Warning, select Run. Accept any defaults during the installation process. When the process has completed, you will have the OpenVPN icon on your desktop.

#### 2.1 ...Continued

Double click the OpenVPN icon on your desktop to launch the Connect window. (If you do not have a desktop icon, check the tray on the lower right-hand side of your taskbar for the OpenVPN icon. Right-click the OpenVPN icon and click connect.)



Enter your UID and password and then press Connect.

5. The first time you connect, you may receive the following warning screen after you press Connect. Press Yes to continue to log onto OpenVPN and check the option for Don't ask again.

OpenVPN - Warning X	
Allow VPN connection to Inx.sc.maricopa.edu using UNVERIFIED profile?	
More details ✓ Don't ask again Yes No	

6. It may take 10-20 seconds for the connection to complete. When the connection has completed, you will see the following message in the lower right hand corner of your task bar:

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# 2.2 Download and Install VMRC

Once you've connected to the OpenVPN network, you can access the CIS Cloud FTP site. In your Chrome address bar, enter <u>ftp://cisshare.ciscloud.local</u>

The root of the FTP site will be displayed:

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$\textbf{\leftarrow} \ \Rightarrow \ \textbf{G}$	Not secure   ftp://cisshare.ciscloud.local	
Index	of /	
Name InstaliVN	Size Date Modified RC/ 1/2/10, 1.00.00 PM	

#### 2.2 ...Continued

2. Click on the InstallVMRC folder which contains VMRC installation packages for three operating systems depending on your environment:

- If you have a Windows OS, download and install the .exe file
- If you have an Apple OSX, then download and install the .dmg file.
- If you have a Linux OS, download and install the x86\_64.bundle file.

Click on the installer that corresponds to our operating system to download it.

3. Once the file has downloaded, double click to run it. If you receive the Security Warning, press the Run button. You will be guided through the VMware Remote Console Setup. Accept the End-User License Agreement, then continue through the screens, pressing Next to accept the defaults.

On the final screen, press Install to begin the installation. When the installation has completed, the following screen will appear:



4. Press the Finish button. VMRC does not have a desktop icon, but you can check to make sure it installed correctly by opening your Control Panel and navigating to Programs and Features (Windows).

VMware Remote Console should be listed in your installed programs.

5. You are now ready to log onto vCenter and access your VM.

# VM Access Guide

#### 1. Overview

This guide describes the tasks you need to perform in order to access your Windows 10 VM.

The first step will be to log into the VMware client. This will allow you to view and access your virtual personal folder. Within your personal folder are your VMs (if you are in other CIS classes you may have multiple VMs listed). From this folder you can power on your VM and launch your remote access application, VMRC.

#### 1.1 Your user id (UID) and password

You will use the same username (**UID**) that was created for you in the "CIS Cloud Access Guide." The default password for the CIS Cloud is **C!\$\$tudent** 

#### 2 Accessing vCenter

- 1. Make sure you are still connected to OpenVPN. If not, log in again.
- 2. Point your Chrome browser to https://vcenter5.ciscloud.local

You will probably be taken to a warning screen telling you the connection is not private. Click on the "Advanced" link, and the "Proceed to vcenter5.ciscloud.local (unsafe)" link.

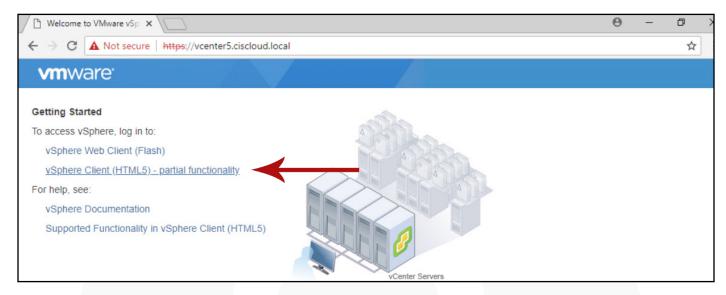
Your connection is not private Attackers might be trying to steal your information from vcenter5.ciscloud.local (fo example, passwords, messages, or credit cards). Learn more NET::ERR_CERT_AUTHORITY_INVALID	Your connection is not private Attackers might be trying to steal your information from vcenter5.ciscloud.local (for example, passwords, messages, or credit cards). <u>Learn more</u> NET::ERR_CERT_AUTHORITY_INVALID
Automatically send some <u>system information and page content</u> to Google to help detect dangerous apps and sites. <u>Privacy policy</u>	Automatically send some <u>system information and page content</u> to Google to help detect dangerous apps and sites. <u>Privacy policy</u> .  HIDE ADVANCED      Back to safety
ADVANCED Back to saf	This server could not prove that it is <b>vcenter5.ciscloud.loca</b> l; its security certificate is not trusted by your computer's operating system. This may be caused by a misconfiguration or an attacker intercepting your connection. <u>Proceed to vcenter5.ciscloud.local (unsafe)</u>

The VMware vSphere Client login screen will appear. Enter your UID and use the default C!\$\$tudent password.

User name:	jstudent	VMware vCenter Single Sign-On
Password:		
	Use Windows session authentication	
	Login	

## 2. ...Continued

The vCenter Welcome page displays as shown below. It is recommended that you click on the link to login to the vSphere Client (HTML5) - partial functionality. This client is the most compatible version and does not require Flash.



When you first log on, you will be presented the following screen. Click on the VMs and Templates icon in the left panel:

vSphere - vcenter5.cisclo ×	$\square$					Θ	-
← → C ▲ Not secure	https://vcente	er5.ciscloud.local/ui/#?e	xtensionId=vsphere.co	ore.inventory.server	)bjectViewsE	xtension&objectId=	urn
vm vSphere Client	Menu 🗸	Q Search		C	?~	jstudent@ciscloud.l	local 🗸
V Center Frischaud Jacob V Center VMs and Templates							

4. Once in the VMs and Templates view, click the arrows next to the objects in the left panel until your folder and your VM is exposed. Click on your VM to bring up its summary page:

← → C ▲ Not secure ★ Https://vc	enter5.ciscloud.local/ui/#?	extensionId=vsphere.core.inventory.serverObjectViewsE	Extension&objectId=urn:vmomix	/irtualMachine	<b>e</b> :vm-2693:108	_ cdb34	o Q☆
vm vSphere Client Menu 🗸	Q Search		C	[ _ ]	jstudent@cisclo		Ť
venter5.ciscloud.local	B CIS_276_jst	udent ACTIONS ~ Configure Permissions Datastores Networ	rks				
<ul> <li></li></ul>	Powered Off	Guest OS:     Microsoft Windows 10 (64-bit)       Compatibility:     ESXi 6.5 and later (VM version 13)       VMware Tools:     Not running, version:10272 (Current)       More info     DNS Name:       IP Addresses:     host03.ciscloud.local				CPU US, O HZ MEMOR' O B STORAG	Y USAGE
	Launch Remote Console	•	Notes				~
	> CPU	1 CPU(s)	Custom Attributes				~

# 2. ...Continued

5. In the left panel, right-click on your VM and select Power->Power On from the pop-up menu:

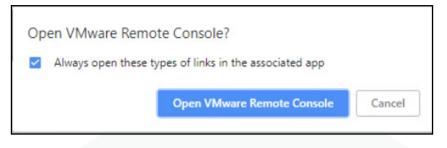
vSphere - CIS_276_js	tude ×									Θ	- 1
← → C ▲ Not	secure   <del>https</del> ://vcent	er5.ciscloud.lo	ocal/ui/#?	extensionId=vspl	here.core.inventory.serverOb	jectViewsB	Extension&objectId=urn:	vmomi:\	/irtualMach	ine:vm-2693:108	8cdb34
vm vSphere Clie	nt Menu 🗸	Q Searc						С	@~	jstudent@cisclo	oud.loca
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✓	cal	Summary	Monitor	Configure	Permissions Datastores	Networ	rks				
✓      ✓      ✓      Student VMs     ✓      ✓      istudent			Guest OS: Microsoft Windows 10 (64-bit) Compatibility: ESXi 6.5 and later (VM version 13)							CPU	
CIS_276_	jstudent	Powere	d Off	VMware Tools	iols: Not running, version:10272 (Current) More info						MEN
	Actions - CIS_276_jst	udent		DNS Name:						Estent	01
	Power		Pov	wer On	ctrl + alt + E puc. Al		-				STC 40
	Guest OS		Pov	wer Off	ctrl + alt + E						
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6. Click on the "Launch Remote Console" link in the Summary pane to launch the VMRC remote console that you downloaded in section 2.2. Ignore the message that appears with a link to download the remote console.

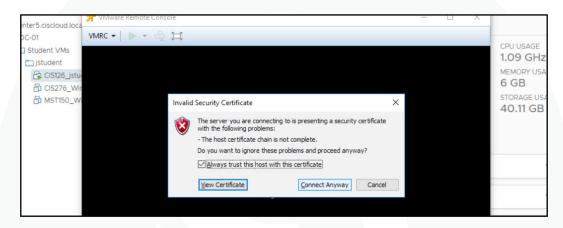
$ \begin{array}{c} \leftarrow \rightarrow \mathbf{C}  & \mathbf{A} \text{ Not secure }    & \mathbf{https://vce} \\ \hline \end{array} $	nter5.ciscloud.local/ui/#?extensionId=vsphere.core.inventory.serverObject	tViewsE	xtension&objectId=urr	n:vmomi:	VirtualMach	enine:vm-2693:10
vm vSphere Client Menu V	Q Search			C	?~	jstudent@cisc
C vcenter5.ciscloud.local ✓ IP vcenter5.ciscloud.local	CIS_276_jstudent ACTIONS ~ Summary Monitor Configure Permissions Datastores M	Networ	ks			
<ul> <li>✓ ☐ Student VMs</li> <li>✓ ☐ jstudent</li> <li>✓ CIS_276_jstudent</li> </ul>	Guest OS: Microsoft Windows 10 (64-bit) Compatibility: ESXI 6.5 and later (VM version 13) VMware Tools: Running, version:10272 (Current) More info					
$\rightarrow$	Launch Web Console Launch Remote Console If you have VMware Remote Console installed, it will start automatically now. If not, you can					
	VM Hardware Download Remote Console	^	Notes			
	CPU     1 CPU(s)     Memory     8 GB, 0 GB memory active		Custom Attributes			
	> Hard disk 1 40 GB		VM Storage Policies			

## 2. ...Continued

7. You will receive a few warnings once your VMRC window is launched. When the **Open VMWare Remote Console** dialogue box is displayed, check the box next to **Always open these** and click **Open VMWare Remote Console** button.



8. When you see the Certificate Warning, check the box for **Always trust...** and click the button to **Connect Anyway.** The VMRC Console will open with your VM loaded.



9. Your Windows VM will launch and should display as shown below (if the screen is blank, click inside the window and press enter to bring up the logni screen). You will login using the CIS Student account.

