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Pework: Install Chrome and the RDP App

Before you get started, we recommend that you install the Google Chrome browser on your computer. This is because you'll need to remotely connect to a virtual machine, and using Google Chrome with a third-party Chrome App is the fastest way to do this!

You can install Google Chrome here:

<https://www.google.com/chrome/browser/desktop/index.html>

For more details on installing Google Chrome, or if you're experiencing difficulties, see the Google Chrome Support page here:

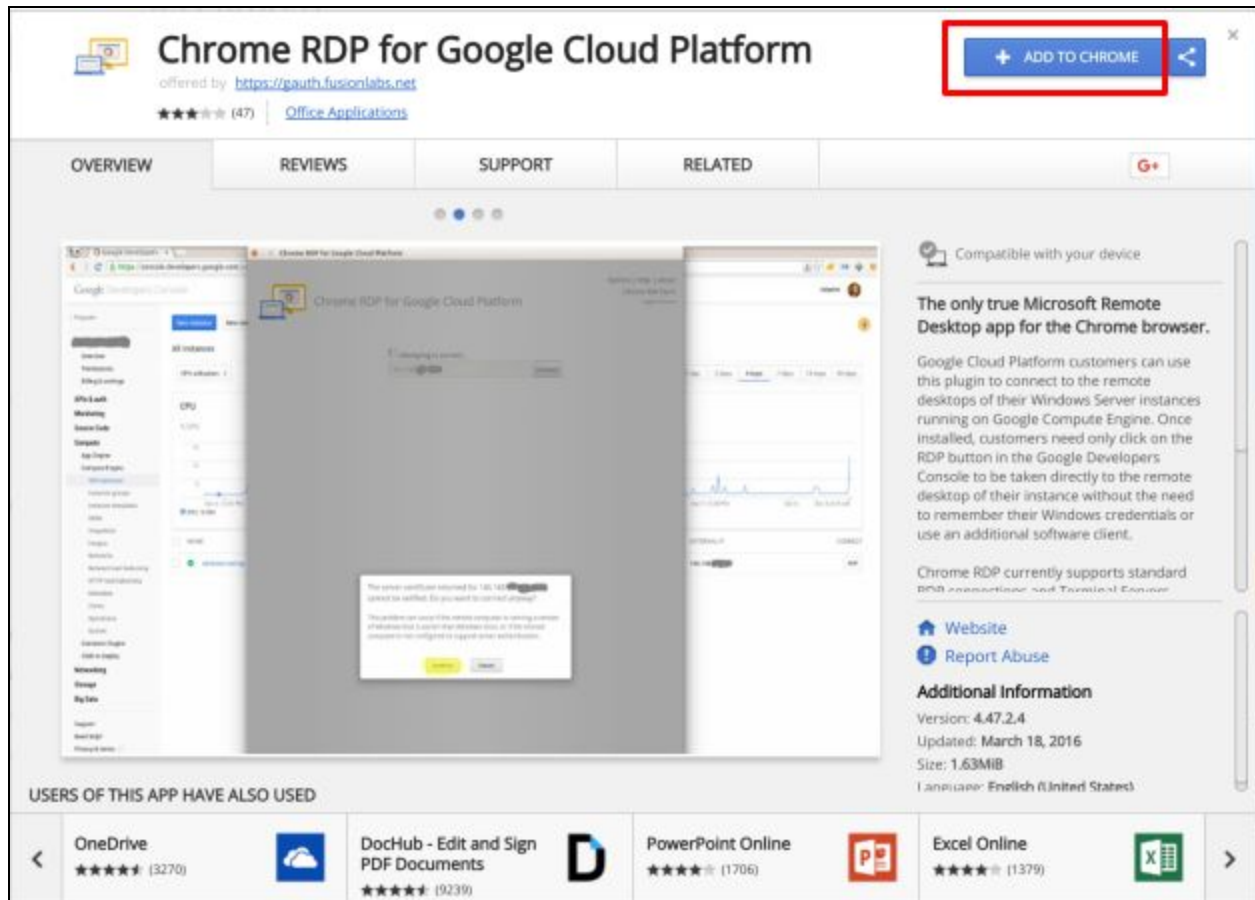
<https://support.google.com/chrome/answer/95346>

Once you've installed Chrome, you'll need to install a Chrome App that allows you to connect to the Virtual Machines remotely.

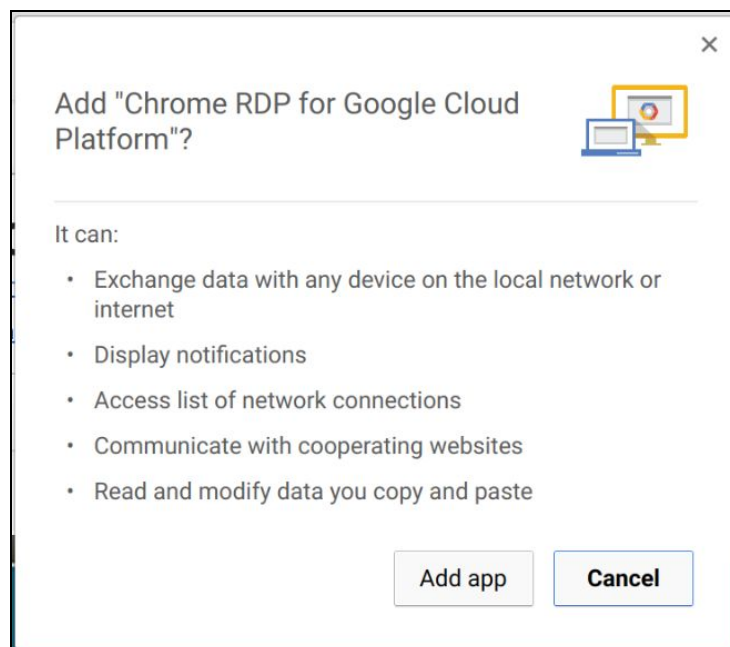
In Google Chrome, open the link below to access the Chrome Web store in order to install the App:

<https://chrome.google.com/webstore/detail/chrome-rdp-for-google-clo/mpbbnannobiobpnfblimoapbephgifkm>

After opening the Chrome Web store, click the blue button labeled "Add to Chrome" to add the App.



You'll be prompted to confirm the installation (as seen below). Click on "Add app" to continue.



Once you've installed Chrome and added the Chrome RDP for Google Cloud Platform App, you're ready to begin in Qwiklabs.

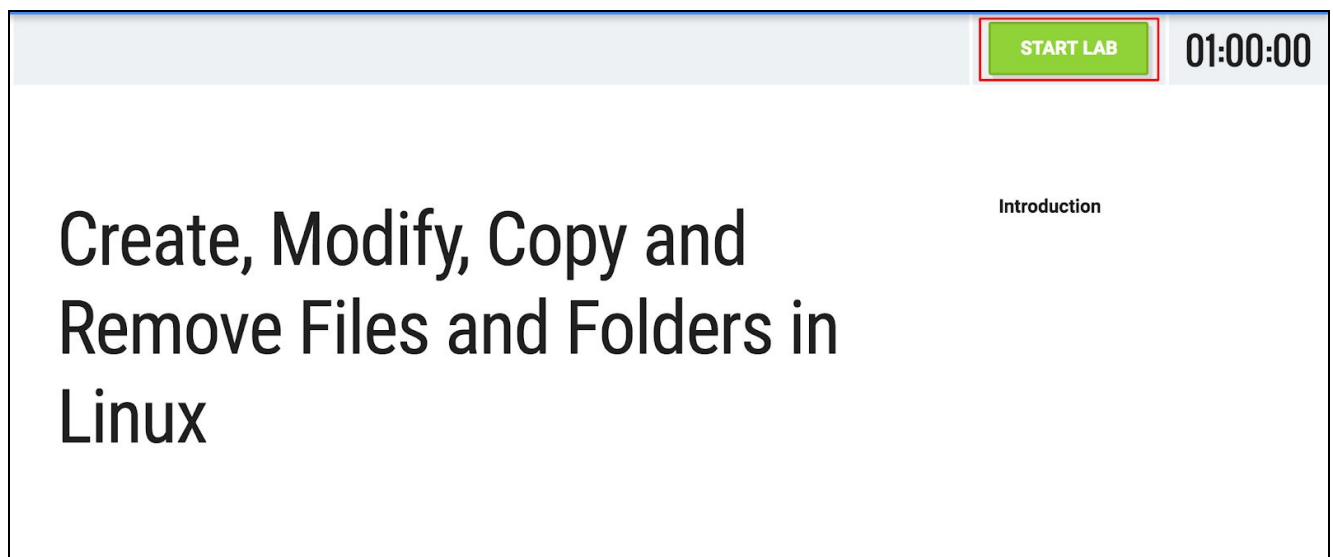
Re-Open Coursera in Chrome to Access Qwiklabs

Once you've installed Google Chrome, we recommend that you re-open the Qwiklab in the Chrome browser. You may need first re-open Coursera, then open the Qwiklab from inside the Coursera module.

Using Qwiklabs

You'll need to start the lab before you can access the Google Cloud account that contains your temporary virtual machines. To do this, click the green "Start Lab" button at the top of the screen in Qwiklabs.

Head's up: Each lab has a timer listed at the top-right of the Qwiklabs lab page. Once you start the lab, **you will only have a limited amount of time to complete the lab** before the credentials expire, your temporary Google account is deactivated, and you must start the lab over again.





After you click the "Start Lab" button, the "Connection Details" section will display the temporary credentials for this lab. You should have a screen that looks like the image below, which contains your **temporary** Google Account information:


60m access · 60m completion
[Rate Lab](#) [Lab Details](#)

CONNECTION DETAILS

OPEN GOOGLE CONSOLE

Username
gcp-123456789-student@qwiklabs.r 

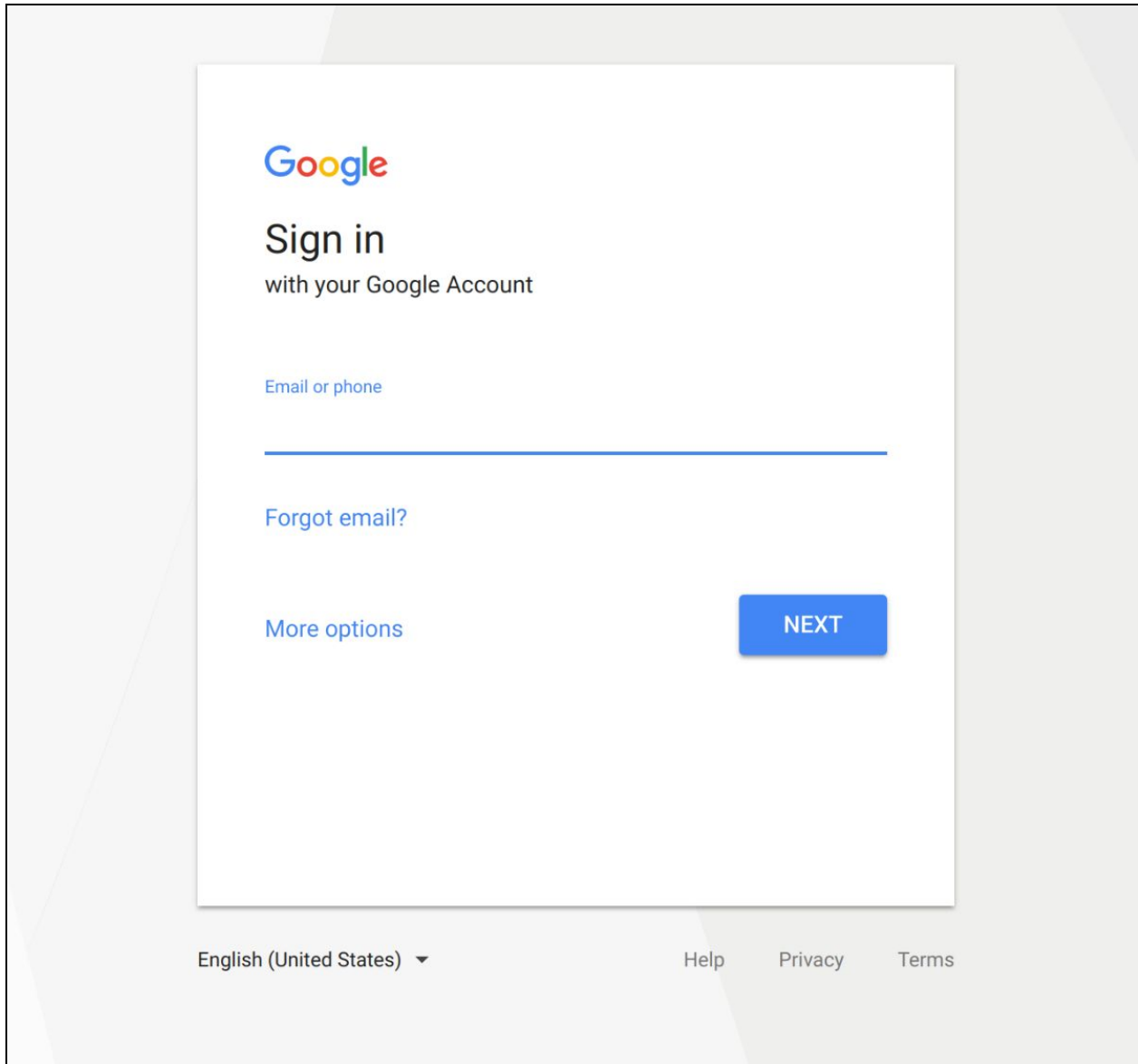
Password
123456789 

GCP Project ID
qwiklabs-gcp-123456789 

Note: Your GCP Project ID, Username, and Password will be different than shown above

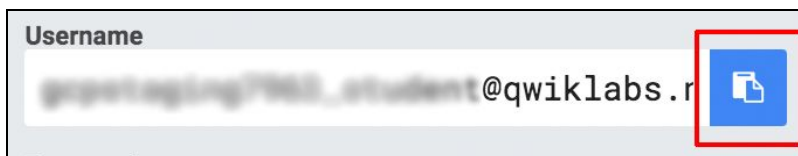
Accessing Your Google Cloud Project

Click on “Open Google Console” in the “Connection Details” area, which will open a new tab in Google Chrome and prompt you to enter the temporary credentials listed on the Qwiklabs page (as seen below).



Using the temporary credentials listed in the “Connection Details” area, enter the username provided in Qwiklabs in the Google Sign in area, then hit “Next.”

Tip: You can use the blue clipboard button next to the text field in “Connection Details” to copy the information to your clipboard, then paste it in the Google Sign in page.

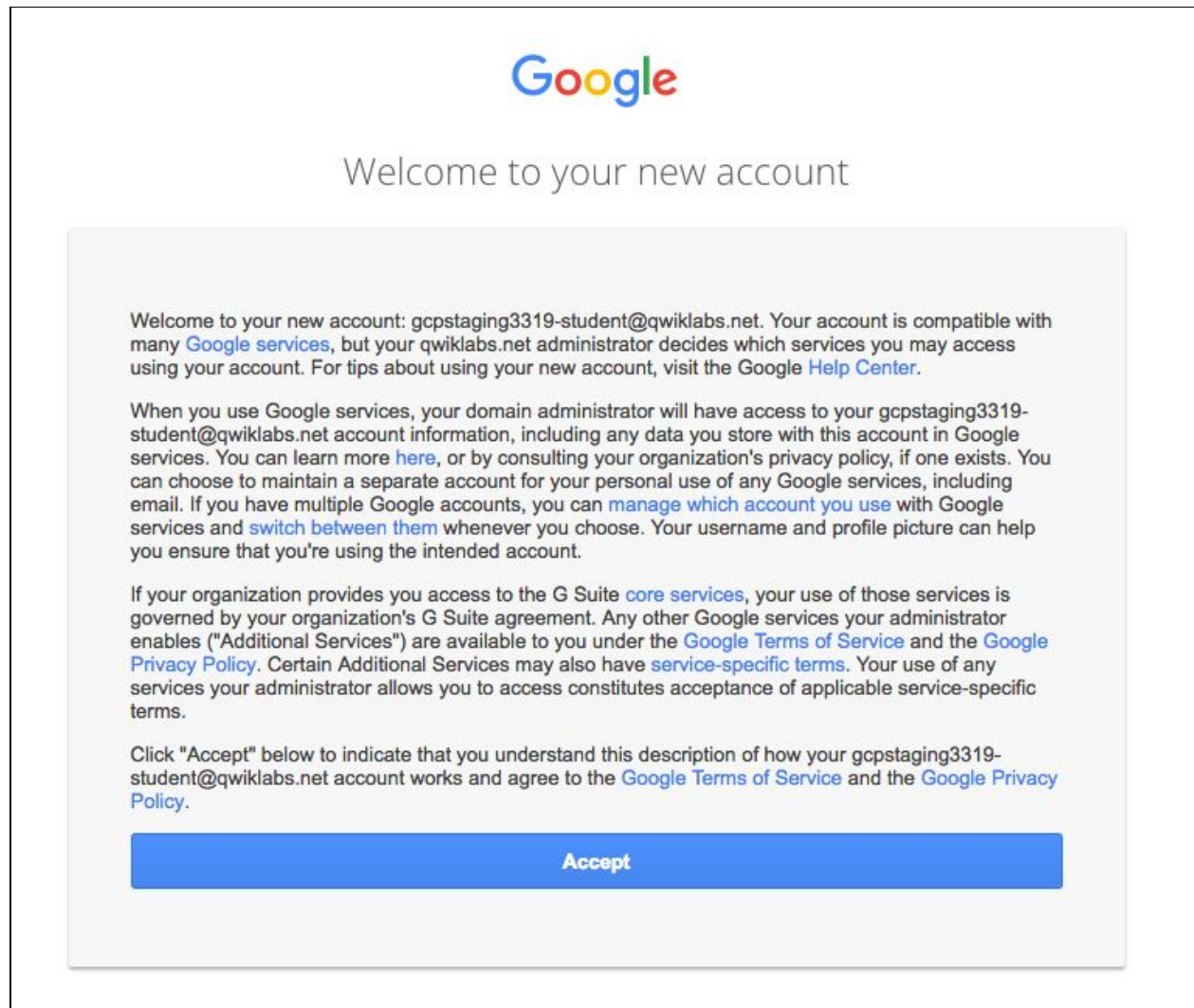


Next, enter the password provided in Qwiklabs into the Google Sign in area, then hit “Next” again.

Tip: You'll use this same password again when you sign into your virtual machine.

If you're prompted by Google Chrome to save the login information, hit "Never" as these credentials are temporary and cannot be used again after the lab ends.

After signing in, you'll need to agree to the Google Terms of Service and Policies listed by clicking "Accept."



After hitting "Accept," you'll be directed to the Google Cloud Console. You may need to agree to additional Terms of Service (as seen below). Click "Accept" to continue.

Updates to Terms of Service

We have updated some of our Terms of Service. To continue, accept all the updated Terms of Service below.

I agree that my use of any [services and related APIs](#) is subject to my compliance with the applicable [Terms of Service](#).

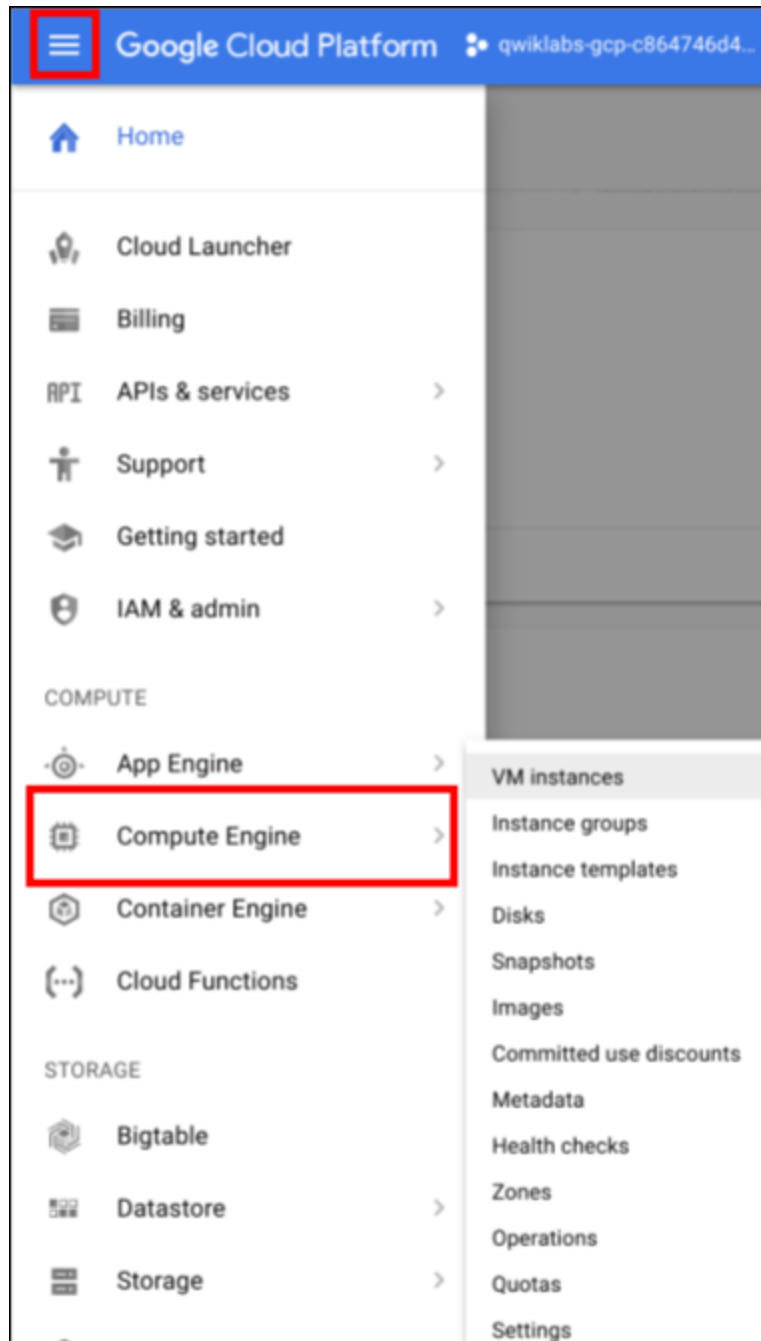
☒ Yes ☐ No

ACCEPT

You'll now see the Google Cloud Console for your temporary account.

Accessing your Virtual Machines

From the Google Cloud Console home page, you'll see a navigation area on the left containing all the Google Cloud Platform services. To access to the Virtual Machines for the lab, click on "Compute Engine." If the navigation bar is not available, you can bring it back by clicking on the three horizontal bars at the top left of the page.

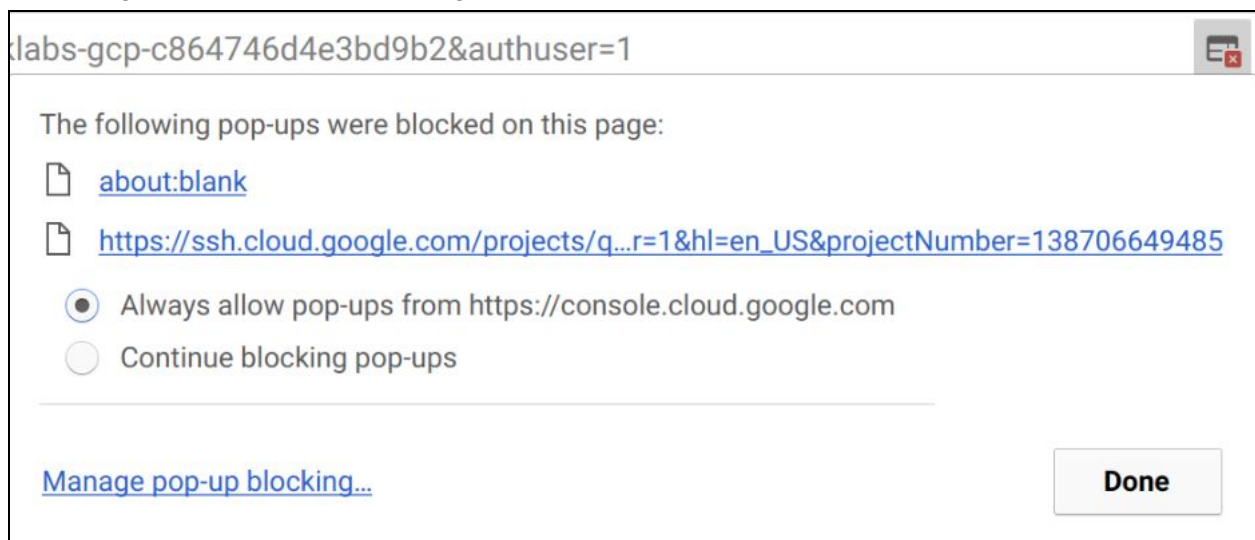


After clicking on Computer Engine, you'll be taken to a page that lists all the VM instances you have access to. In the example below, you have access to two virtual machines: one Linux (*linux-instance*) and one Windows (*windows-instance*).

VM instances							CREATE INSTANCE							SHOW INFO PANEL
Filter VM instances							Columns							
<input type="checkbox"/> Name	Zone	Recommendation	Internal IP	External IP	Connect									
<input type="checkbox"/> <input checked="" type="checkbox"/> linux-instance	us-central1-f		10.128.0.3	130.211.200.85	SSH									
<input type="checkbox"/> <input checked="" type="checkbox"/> windows-instance	us-central1-f		10.128.0.2	35.184.102.239	RDP									

Connecting to Linux Virtual Machines using Chrome RDP App

To connect to a Linux virtual machine in Google Cloud Platform, click on the “SSH” button that corresponds to the virtual machine you’d like to connect to. The first time you attempt to SSH, you may need to allow pop-ups. If nothing happens after clicking SSH, you’ll see a red icon at the top right of the URL bar in Google Chrome:



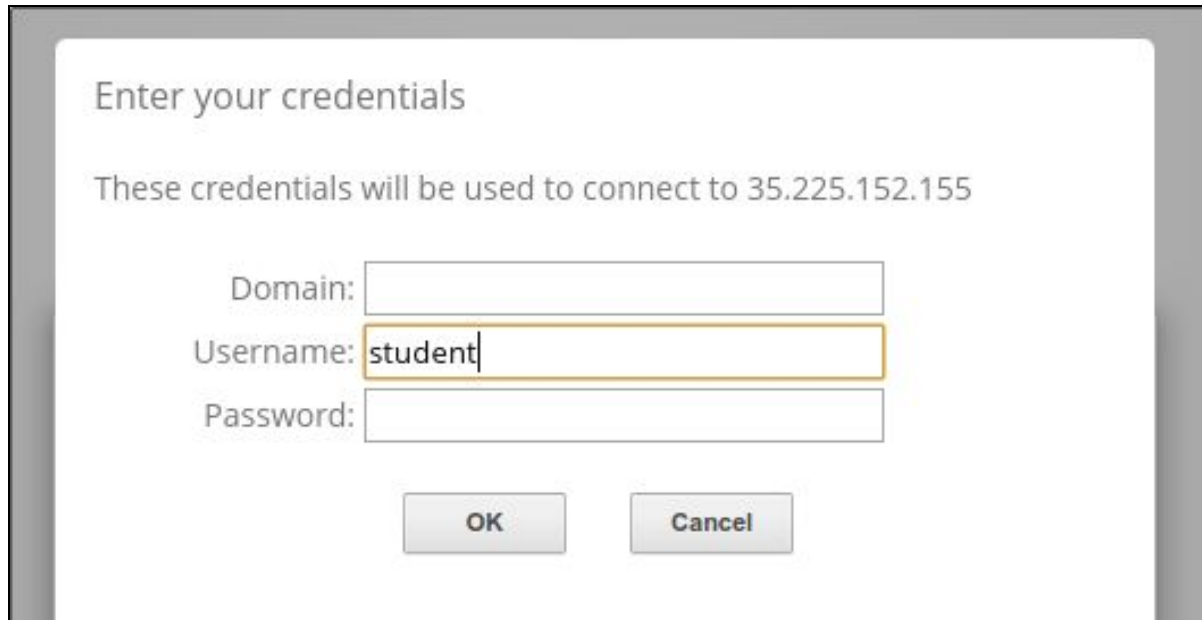
After clicking on the red icon at the top left, you’ll see a pop-up similar to the image above. To always allow pop-ups on the Google Cloud Platform website, select the button “Always allow pop-ups from <https://console.cloud.google.com>” then hit “Done.”

After allowing pop-ups, click SSH again to remotely connect to the Linux virtual machine. After clicking SSH, a new window will open with your remote connection to the Linux virtual machine, similar to the below:

```
Chrome - gcpstaging6826_student@linux-instance: ~  
Secure | https://ssh.cloud.google.com/projects/qwiklabs-gcp-c864746d4e3bd9b2/zones/us-central1-f/instances/linux-instance?authus...  
Connected, host fingerprint: ssh-rsa 2048 E2:70:26:83:3B:47:26:BC:7F:52:BE:58:4A:F4:08:F6:70:94:01:57:1E:AD:CD:C3:60:A7:BA:47:A1:9C:24:66  
Welcome to Ubuntu 16.04.1 LTS (GNU/Linux 4.4.0-59-generic x86_64)  
  
* Documentation:  https://help.ubuntu.com  
* Management:    https://landscape.canonical.com  
* Support:        https://ubuntu.com/advantage  
  
Get cloud support with Ubuntu Advantage Cloud Guest:  
http://www.ubuntu.com/business/services/cloud  
  
0 packages can be updated.  
0 updates are security updates.  
  
The programs included with the Ubuntu system are free software;  
the exact distribution terms for each program are described in the  
individual files in /usr/share/doc/*/copyright.  
  
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by  
applicable law.  
  
gcpstaging6826_student@linux-instance:~$
```

Connecting to Windows Virtual Machines using Chrome RDP App

In the “VM Instances” screen, click the “RDP” button. The RDP app should open in a new browser window. You’ll then see a screen, as shown below:

A screenshot of a web-based credential entry form. The title is "Enter your credentials". Below it, a message states "These credentials will be used to connect to 35.225.152.155". There are three input fields: "Domain:" (empty), "Username:" (containing the text "student" and highlighted with a yellow border), and "Password:" (empty). At the bottom, there are two buttons: "OK" and "Cancel".

Enter your credentials

These credentials will be used to connect to 35.225.152.155

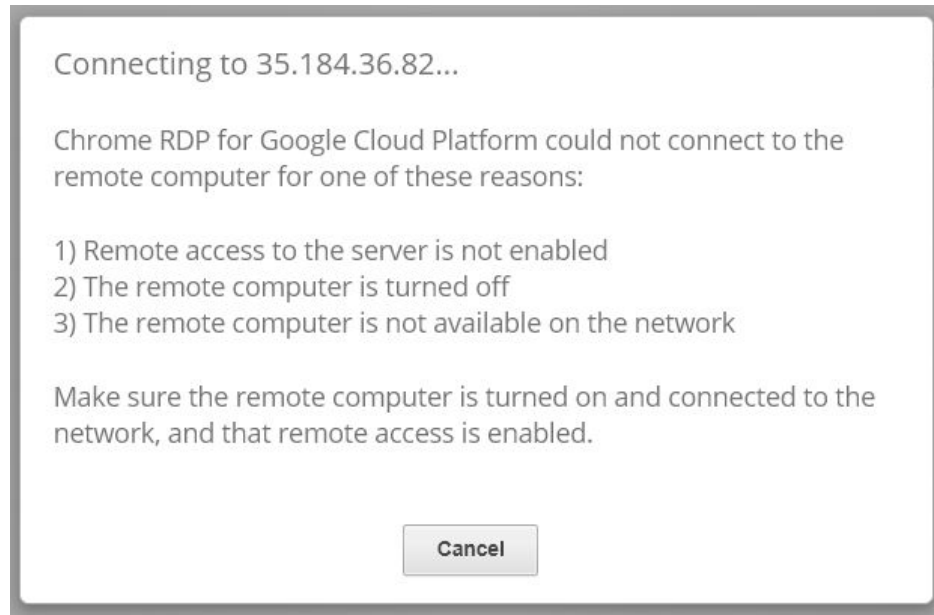
Domain:

Username:

Password:

Log in using the username **student**, and the same password that you used to login to Google Cloud Console. If you no longer have this copied to your clipboard, you can find it in Qwiklabs under “Connection Details.”

If you see an error message (like the one shown below), close RDP and wait a minute or so. Sometimes the VM-creation process takes a few minutes, and you won’t be able to access the VM until it’s finished.



Connecting to Windows Virtual Machines from Other Platforms

If you're unable to use Google Chrome and Chrome RDP App to connect, you can connect to your Windows instance from a Windows, Mac, or Linux computer. We've provided brief instructions for each platform, though please note that not all steps may be the same for your specific platform. You'll find these instructions back in the "Instructions for Accessing Windows Qwiklabs" reading within the Coursera platform.