**Standard Operating** **Procedure of Remote Access to Romag’s Computers**

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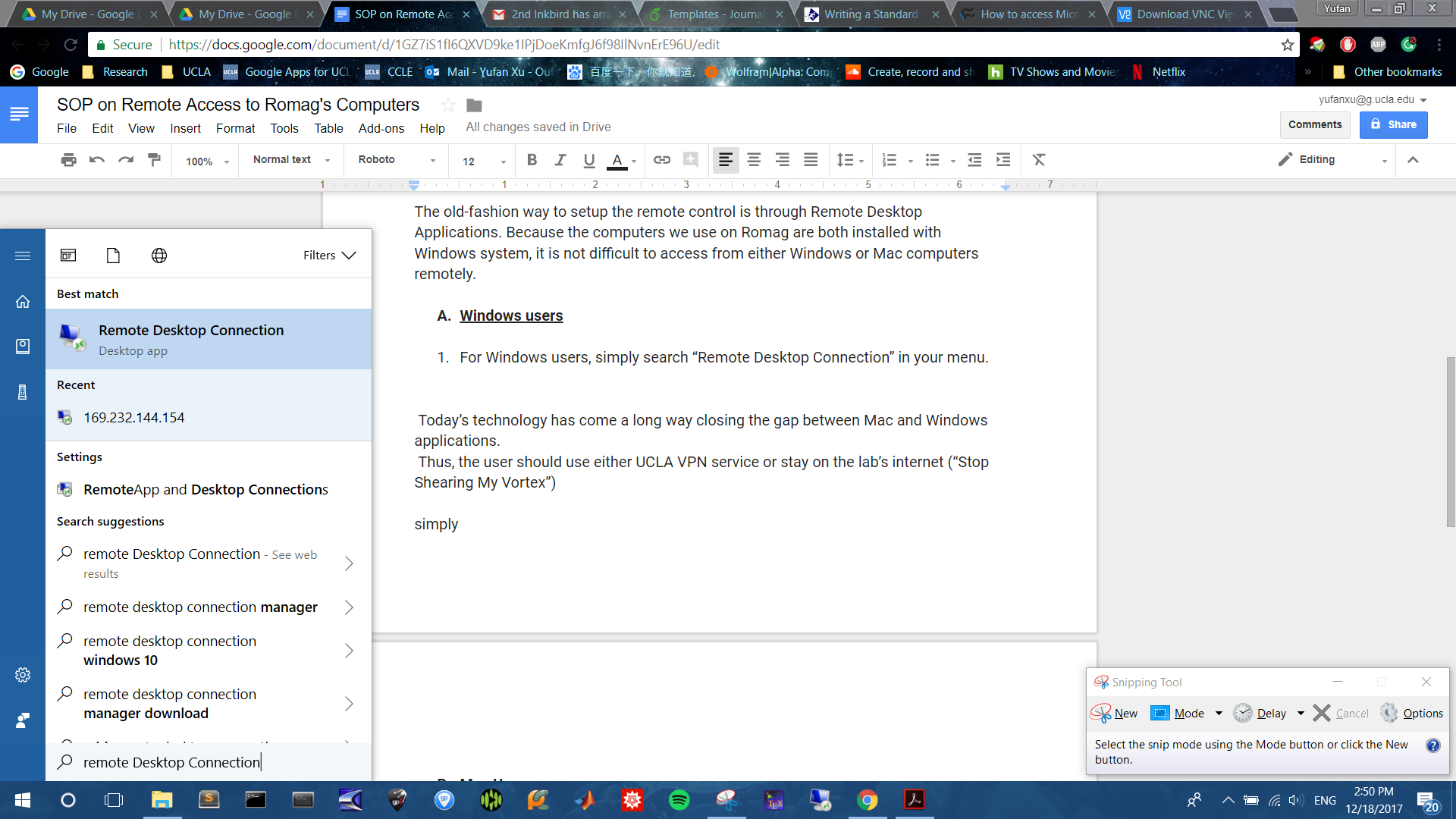
**Abstract**

Romag’s network includes two computers: one NI-PXI 8105 (Windows System) computer mainly for data acquisition and controls in the rotating frame, and one Dell T1600 (Windows System) mainly for rotation control in the static lab frame and monitoring the fume hood and the lab. Being able to access these two computers remotely will give advantages in monitoring the status of the main parts in the Romag system without being physically in proximity to the lab. Currently, there are two ways to access Romag’s computers remotely. **Conventionally, the first method is to access via Remote Desktop Applications**. For Windows users, “Remote Desktop Connection” is a built-in application that can easily setup the connection. For Mac users, utilizing the “Microsoft Remote Desktop” application from the app store can provide a convenient way to access Romag’s computers. However, these methods require users to access the campus internal network. **Moreover, a more efficient way to remotely access is via a paid program called “VNC viewer”** so that users can even access the lab’s computers on their mobile devices such as smartphones and iPads.

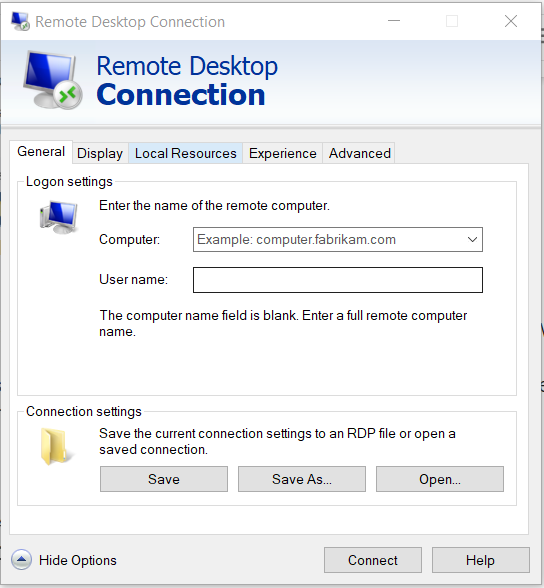
**The Conventional Methods**

The old-fashion way to setup the remote control is through Remote Desktop Applications. Because the computers we use on Romag are both installed with Windows system, it is not difficult to access from either Windows or Mac computers remotely. Note that the user could only use these methods on the campus internal network (with a UCLA IP address), which means using either UCLA VPN service or stay on the lab’s internet (“Stop Shearing My Vortex”). Accessing from Open WIFI such as PhySci-Open will not work in this case. The instruction of setting up the VPN is [here](https://help.bol.ucla.edu/) (https://help.bol.ucla.edu/).

1. **Windows users (Win7/Win10)**
2. For Windows users, simply search “Remote Desktop Connection” in your menu (Fig.1).

 Fig.1

1. Click on the “Remote Desktop Connection” icon, the following box will pop up (Fig.2):

 Fig.2

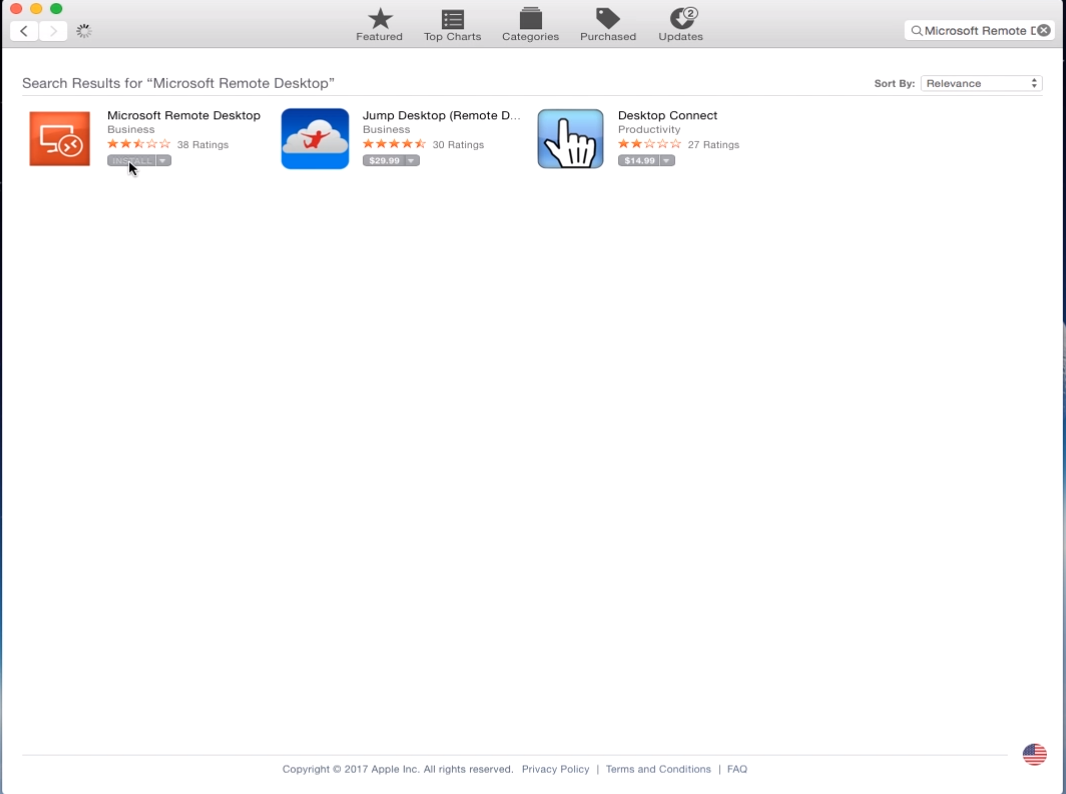
1. Enter **169.232.144.154** for accessing PXI. The username is “Romag”.
2. Enter **169.232.144.155** for accessing Dell T1600. The username is “Fumehood”.
3. Select Connect and proceed with instructions. Enter the credentials for the first time and select “Allow me to save the credentials” to save time for the next use.

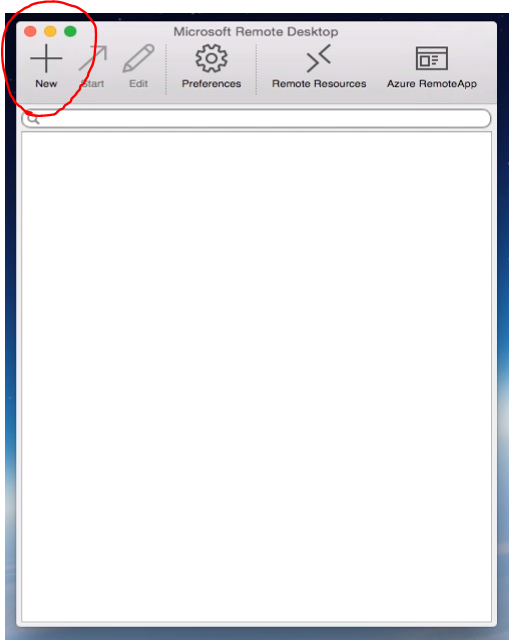
The password for both computers are “**1nverseCasc8**”.

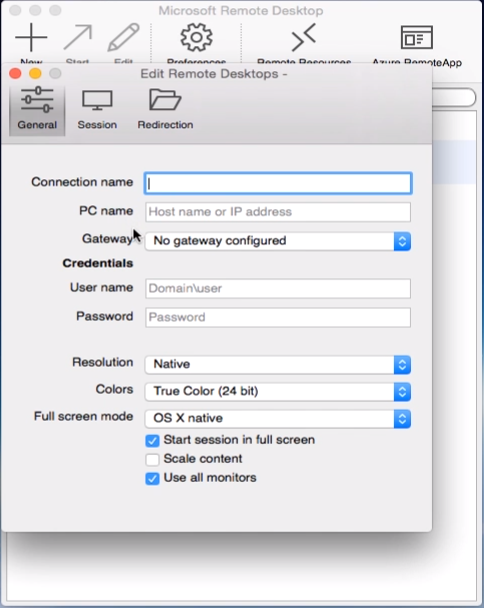
1. Change other properties in “Display” and “Local Resources” accordingly to the usage.
2. **Mac Users**

For Video Instructions, please refer to the link below:

(https://www.techrepublic.com/article/pro-tip-remote-desktop-on-mac-what-you-need-to-know/)

1. Search the “Microsoft Remote Desktop” app in Mac App Store (Fig.3).
2. Install the free App. Fig.3
3. Once installed, click on the app on your launchpad and select “New” (Fig.4 and Fig.5).

 Fig.4

 Fig.5

1. Enter the Connection name as your choice

PC name: “**169.232.144.154**” for PXI, “**169.232.144.155**” for Dell T1600.

\*IP address may have changed

Username: “**Romag**” for PXI, “**Fumehood**” for Dell T1600.

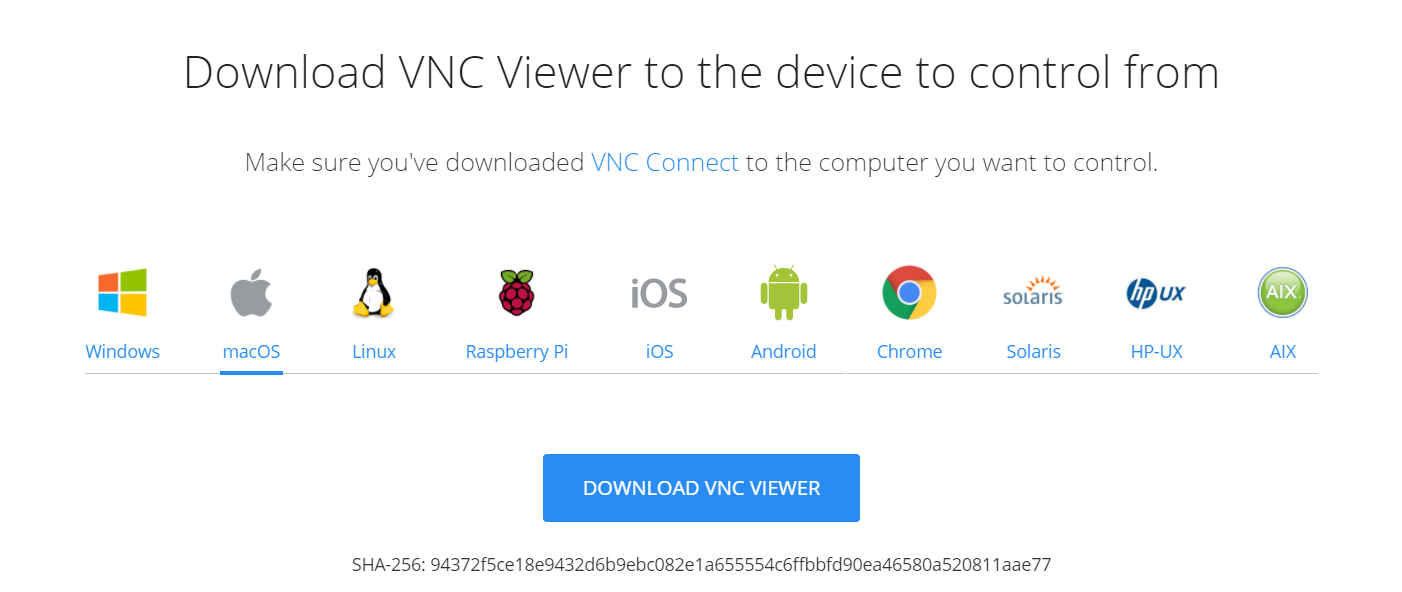
Password: **1nverseCas8**

1. Change the resolution, colors and full-screen mode accordingly. Sound, printing device connections, and other options can be found in “Session”. For configuring local folders and files, select “Redirection” and change accordingly.

**VNC Viewer:**

1. VNC Connect by RealVNC is an online secure remote access software. Upon receiving the invitation, follow the instructions in the email and join the team.
2. For download, go to the website page:

(<https://www.realvnc.com/en/connect/download/viewer/macos/>)

****Fig.6

1. Select the user’s current operating system and click on “DOWNLOAD VNC VIEWER”. For mobile devices, search “VNC” in the app store and install it.
2. Install the VNC server on the computers you would like to control.
3. Access your new account by following the steps in the email if you received my invitation.
4. As an administrator, after installation, launch the application and log in with the following account:

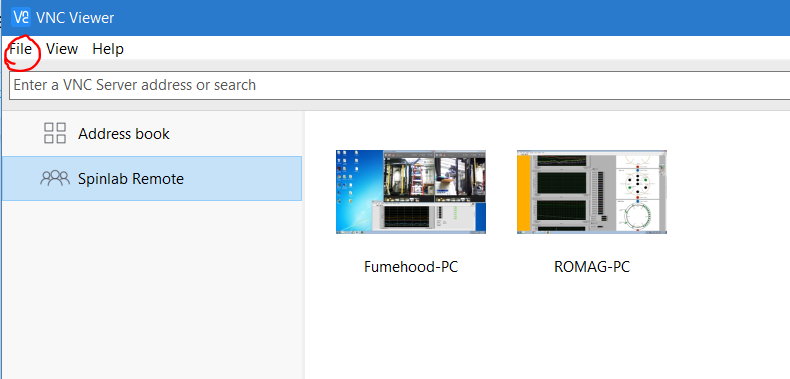
**User/Email Address:** [**yufanxu@ucla.edu**](mailto:yufanxu@ucla.edu)

**\*This email address will transition into romagucla@outlook.com**

**Password: 1nverseCas8**

Right now, the account can access up to 5 computers. The current subscription is free. The team name is Spinlab Remote (up to 3 people). Once join the team, “Fumehood-PC” and “Romag-PC” will show up in the window. Simply click on them to access the desktop remotely.

1. To add a device, Click on file and select “New Connection”. (Fig.7)

Fig.7

1. Enter IP address and name . (Fig.8)

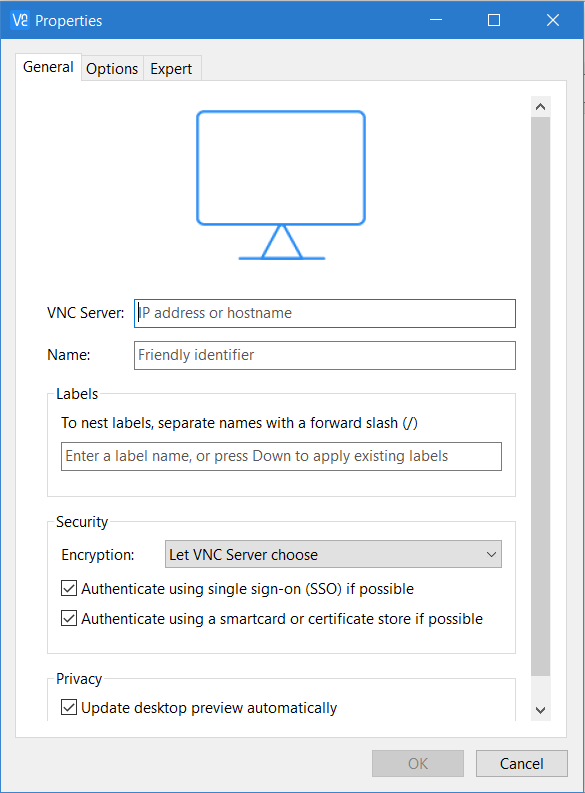
Examples:

PC name: “**169.232.144.154**” for PXI, “**169.232.144.155**” for Dell T1600.

\*IP address may have changed

Username: “**Romag**” for PXI, “**Fumehood**” for Dell T1600.

Password: **1nverseCas8**

Fig.8

1. The setting up process for mobile devices is similar.