



## ✓ CCIE Collaboration Lab Access Guide

**V1.1**

Dear Ms./Mr. Future CCIE Collaboration,

Hello!

The CCIE Collaboration Lab Access Guide inculcates the details on how to access all the functionalities of our Collaboration lab rack/s. To be precise, it describes how to connect securely to our **CML cloud** and connect to our state of the art CCIE Collaboration rack/s.

Your CCIE Collaboration rack has:

- 3 Cisco ISRG2 routers
- 1 Cisco 3750 Switch
- 6 Cisco IP Phones directly connected to the Collaboration Lab Rack
- 1 Service Module Services-Ready Engine(SRE) for Cisco Unity Express
- 3 Cisco Unified Communications Manager(CUCM) servers, 2 PUBLISHER servers & 1 SUBSCRIBER server
- 2 Cisco Unity Connection (CUC) servers
- 2 Cisco IM and Presence (IMP) servers
- 1 Cisco Unified Contact Center(UCCX) server
- 1 Video Communications Server (VCS)
- 1 TelePresence Management Suite (TMS) server
- 3 Windows machines running Cisco Jabber/RTMT/...
- 1 Microsoft Active Directory server (labeled “AD/DNS/TFTP/SFTP” in the diagram)
- 1 access server (not shown) for console port access to routers and switches

**PS:** Additional infrastructure is not visible to you, nor configurable by you, to reduce complexity and let you concentrate on the Collaboration Topology.

The Lab Rack Diagram in the forthcoming sections shows how all these Collaboration LAB components picture together. The section, “How do I view and control my Cisco IP phones remotely?”, describes how to use software to control IP Phones at the **CML Cloud**.

An Upcoming section “Wow... More Tables!!!” the summary of the VLANS, IP subnets, Routers and Ether Switch port connections, Digital Signal Processing resources, T1/E1 connections and PSTN access codes.

Please note that in the past the following site names have been used interchangeably:

Corp HQ = HQ = SA = SiteA

Branch 1 = BR1 = SB = SiteB

Branch 2 = BR2 = SC = SiteC

Throughout this guide and subsequent labs, you should come to see everything referred to simply as:

CML-HQ

CML-SB

CML-SC

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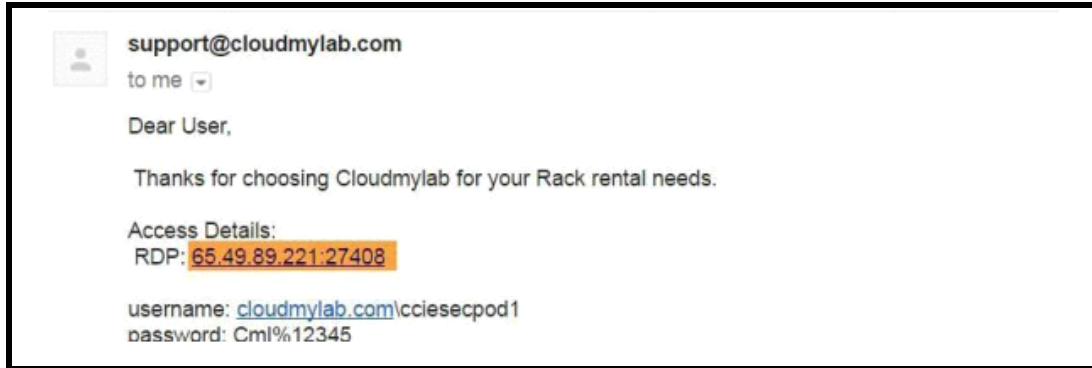
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## Getting Access to the POD

There are two ways you may get access to the lab access details as mentioned below:

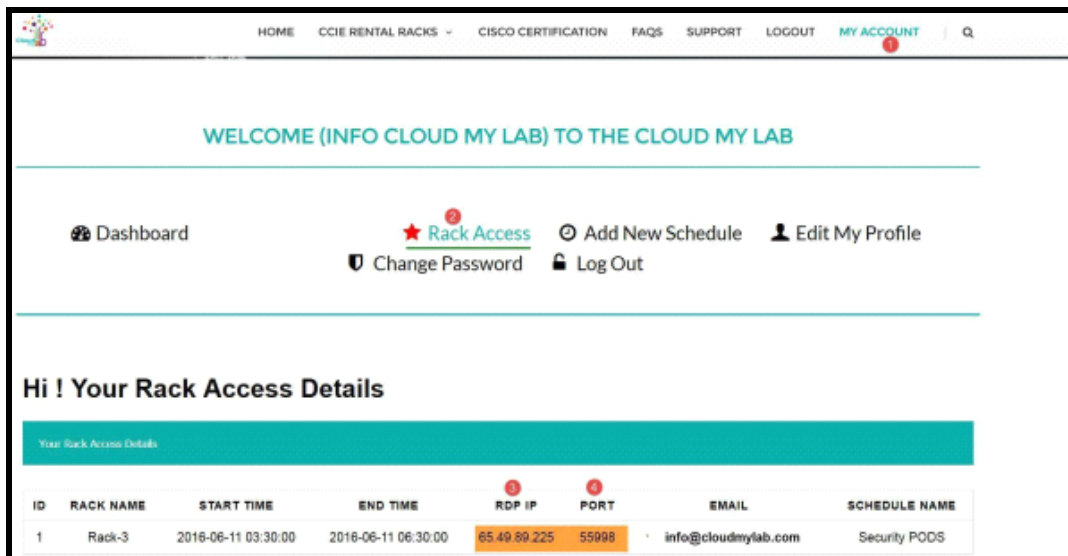
1. Check for the Url and Port Number in the email from [support@cloudmylab.com](mailto:support@cloudmylab.com)

Figure 1:



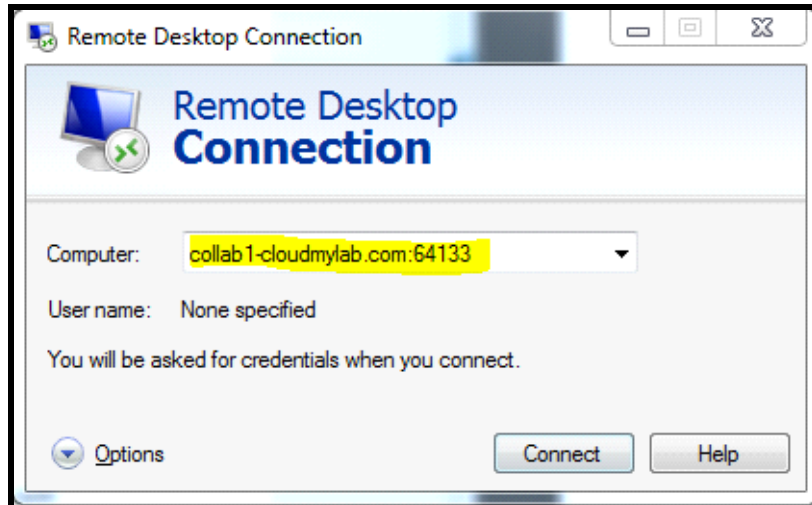
2. You can alternately log in to your account and under my account Rack access, you will see the detail:

Figure 2:



3. Login with the credentials provided:

Figure 3:



4. Once logged in you, will see a customized Desktop i.e. Candidate PC, from where you can access all the device command lines and GUIs.

## Let's Lock and Load:

This opens an interface which resembles the Cisco Collaboration Lab experience.

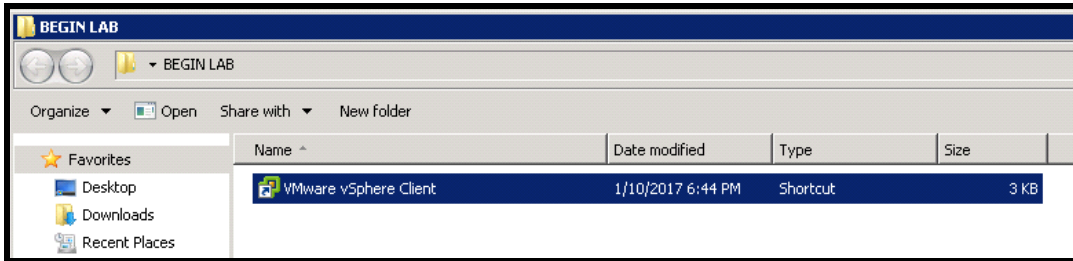
1. Before you start your lab you must reset the Lab configuration to a base configuration. This can be achieved by navigating to the "BEGIN LAB" folder on the Candidate PC.

Figure 4:



2. Launch VMWare Vshpere client using the VMWare client shortcut available inside the "BEGIN LAB" folder:

Figure 5:

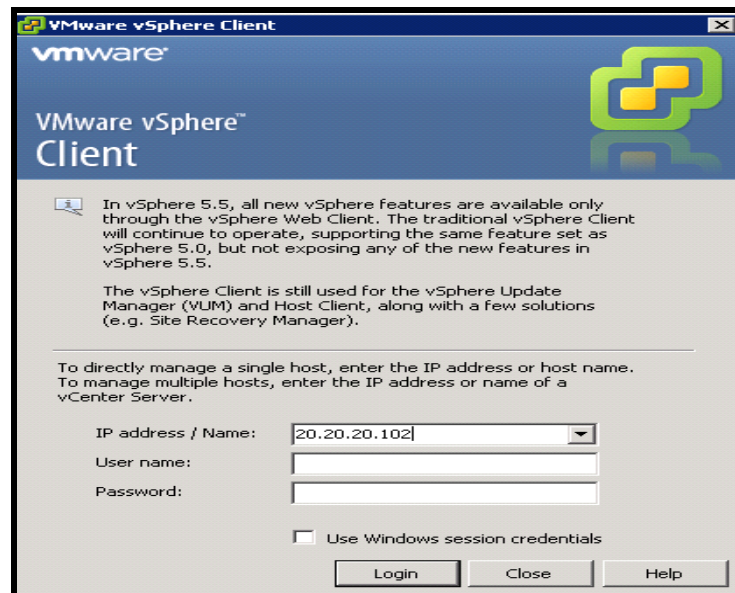


3. Use the following user name and password to login to the VMWare client:

Username: administrator

Password: cciecollab

Figure 6:

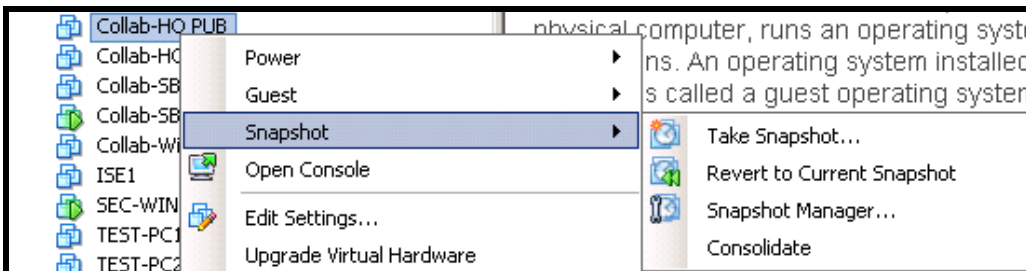


- Once inside the VMware Vsphere client revert to base configuration using the Snapshot Manager for every machine in view as illustrated in the following two steps:

**STEP 1)** For example you need to get the Collab-HQ PUB to its based configuration.

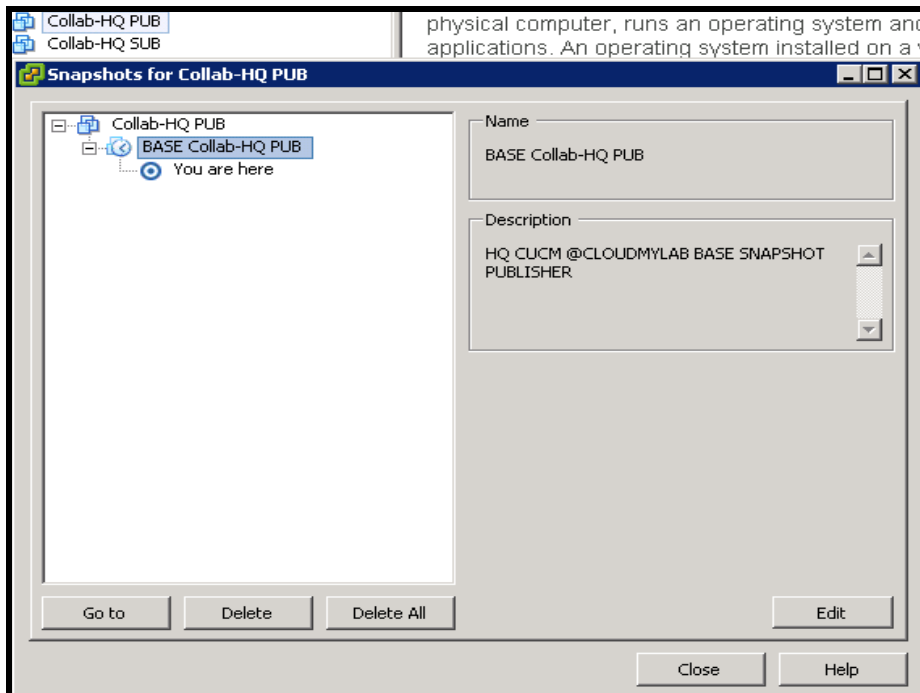
Collab-HQ PUB – Right Click – Select Snapshot – Choose Snapshot Manager

Figure 7:



**STEP 2)** Once the available snapshots show up, select the snapshot named BASE Collab-HQ PUB and click “Go to”.

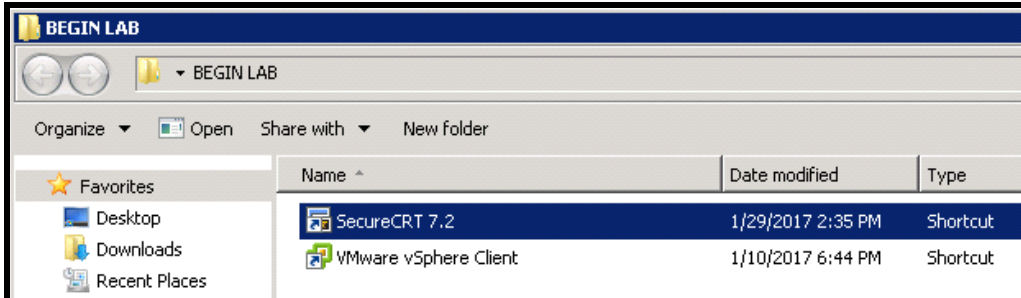
Figure 8:





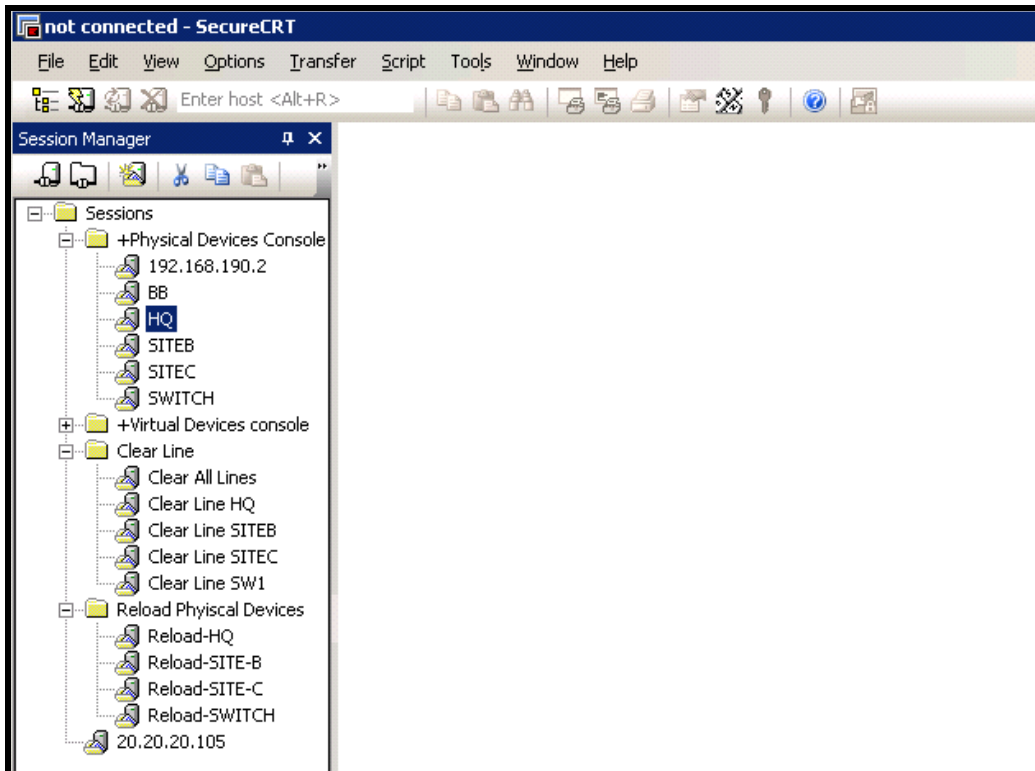
5. Navigate to the Secure CRT shortcut available in the “BEGIN LAB” folder:

Figure 9:



6. Launch the Secure CRT application to get to Command Lines of the ISRG2's and switches:

Figure 10:



- Next, bring all the routers and switches to their base configurations as under:  
Open the physical device console login `dir flash: #copy flash:CMLRW1BASE.cfg startup`

Reload

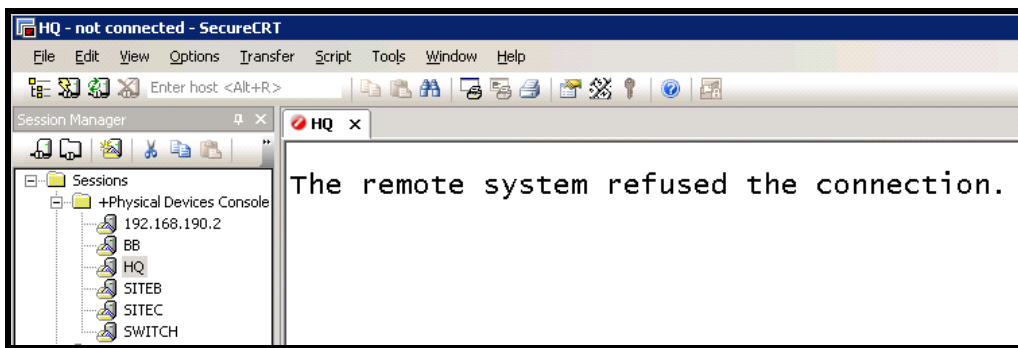
Check out the video: <https://www.youtube.com/watch?v=I72ExquNIFA>

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NOTE: Sometimes the remote IOS device may refuse the connection.

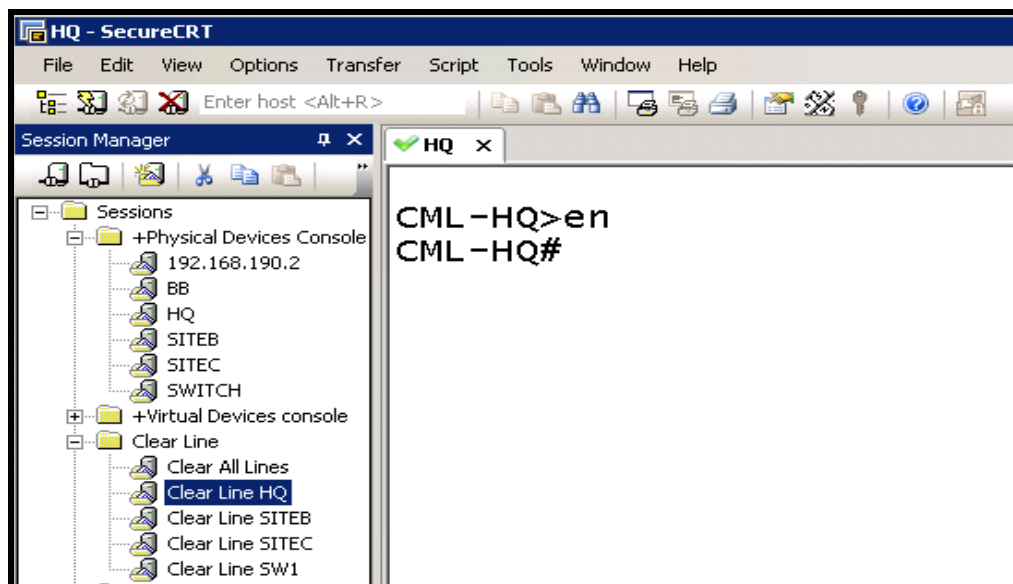
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Figure 11:



**Solution:** Use the "Clear All Lines" or "Clear Line HQ/SB/SC"

Figure 12:



## Accessing the Device Console

8. Physical Device Access: – All the devices are pre-setup for console access. Follow the screenshots for quick access.

### Virtual Machine based Device Access (GUI)

<b>RACK WEST – 1</b>				
<b>Server/Device</b>	Description	IP address	Username	Password
Collab-HQ PUB	HQ CUCM PUBLISHER	142.100.64.11	administrator	cciecollab
Collab-HQ SUB	HQ CUCM SUBSCRIBER	142.100.64.12	administrator	cciecollab
Collab-HQ CUC	HQ UNITY CONNECTION	142.100.64.13	administrator	cciecollab
Collab-HQ CCX	HQ CONTACT CENTRE EXPRESS	142.100.64.14	administrator	cciecollab
Collab-HQ IMP	HQ IM & PRESENCE	142.100.64.15	administrator	cciecollab
Collab-SB PUB	SB CUCM PUBLISHER	142.100.65.11	administrator	cciecollab
Collab-SB CUC	SB UNITY CONNECTION	142.100.65.13	administrator	cciecollab
Collab-SB IMP	SB IM & PRESENCE	142.100.65.15	administrator	cciecollab
Collab-WIN7-1	HQ WIN PC for Cisco JABBER	142.100.64.21	administrator	cciecollab
Collab-WIN7-2	SB WIN PC for Cisco JABBER	142.100.65.21	administrator	cciecollab
Collab-Candidate PC	Candidate WIN PC	65.49.89.230	CCIE-COLLAB\collabstudent	ccie123
Collab-Terminal Server	Collab TERM SERVER	NO ACCESS	NO ACCESS	NO ACCESS
Collab NTP Server	BB NTP Server	149.132.1.23	NO ACCESS	NO ACCESS

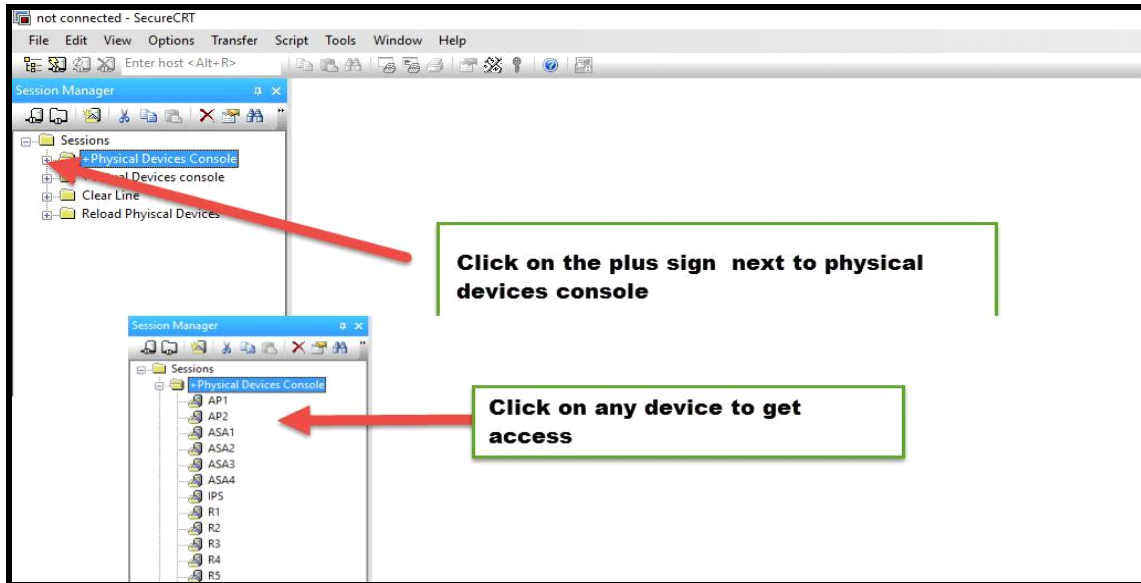
### Physical Machine based Device Access

<b>Server/Device</b>	Description	IP address	Username	Password
CML-HQ	HQ VOICE GATEWAY	142.100.64.254	administrator	cciecollab
CML-SB	SB VOICE GATEWAY	142.100.65.254	administrator	cciecollab
CML-SC	SC VOICE GATEWAY	142.100.66.254	administrator	cciecollab
CML-HQ-SWITCH	HQ SWITCH	142.202.64.253	administrator	cciecollab

A3) Follow the Screen shots for Quick Access

1. Click on **SecureCRT**

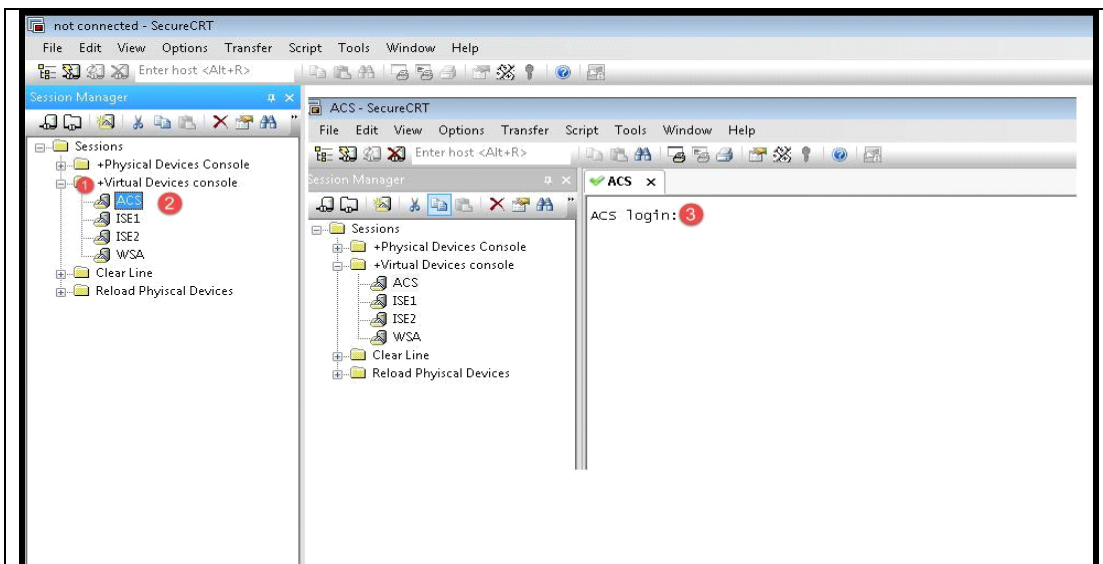
Figure 13:



### Example Method 1 for Virtual Devices with CLI access

Open **SecureCRT** >> Click on the **Plus Sign** against **Virtual Device** >> Select the relevant device

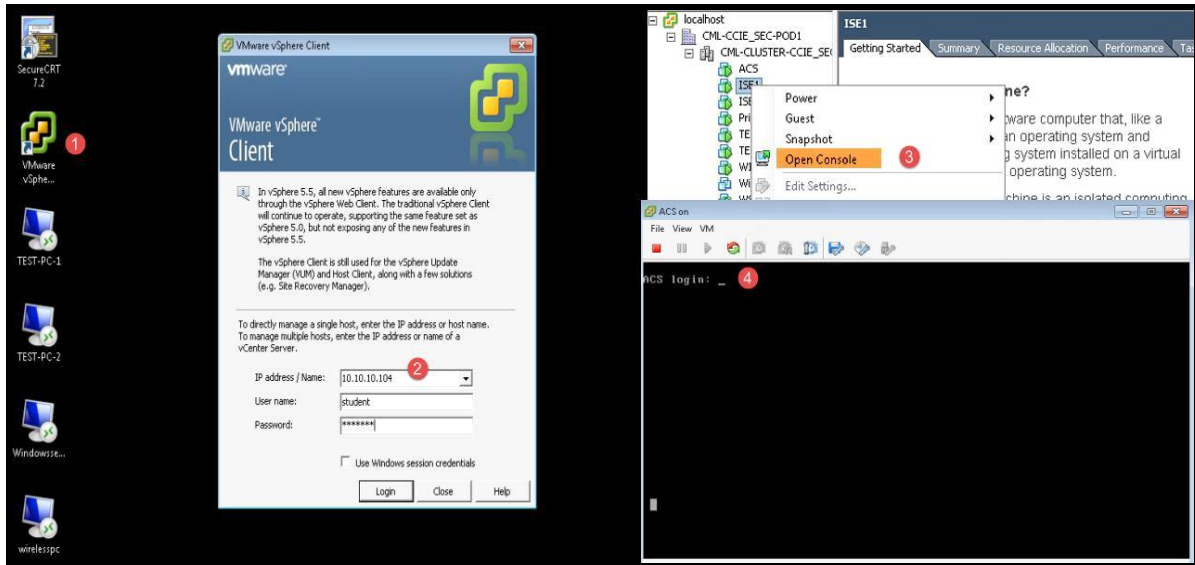
Figure 14:



## Example Method 2 for Virtual Devices with CLI Access

Open VMware Vsphere Client >> right click on the relevant machine >> click open console

Figure 15:

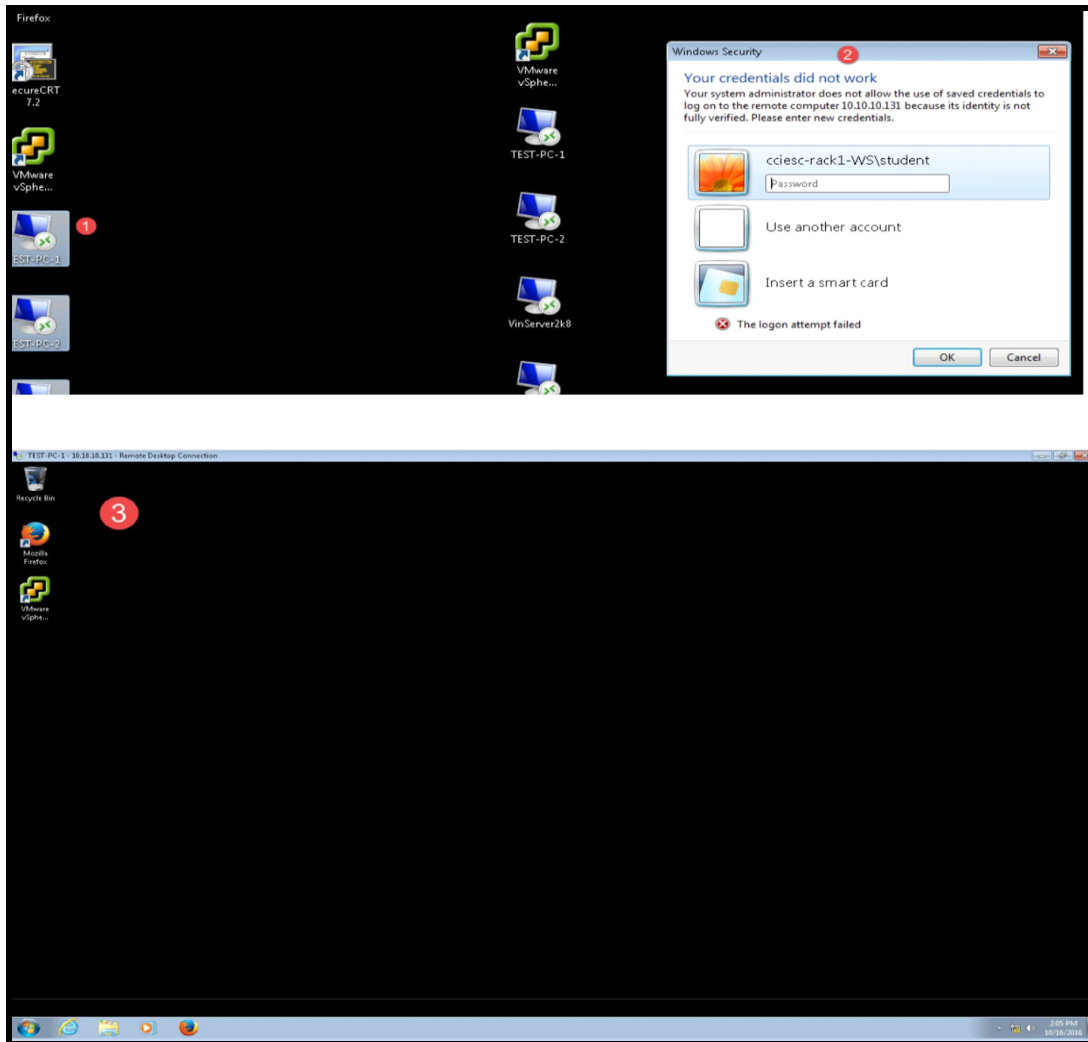


## Example Method 1 for windows based Device:

Click on the remote desktop shortcut on the desktop, you will see 4 shortcuts and named appropriately

Enter the username and password when prompted

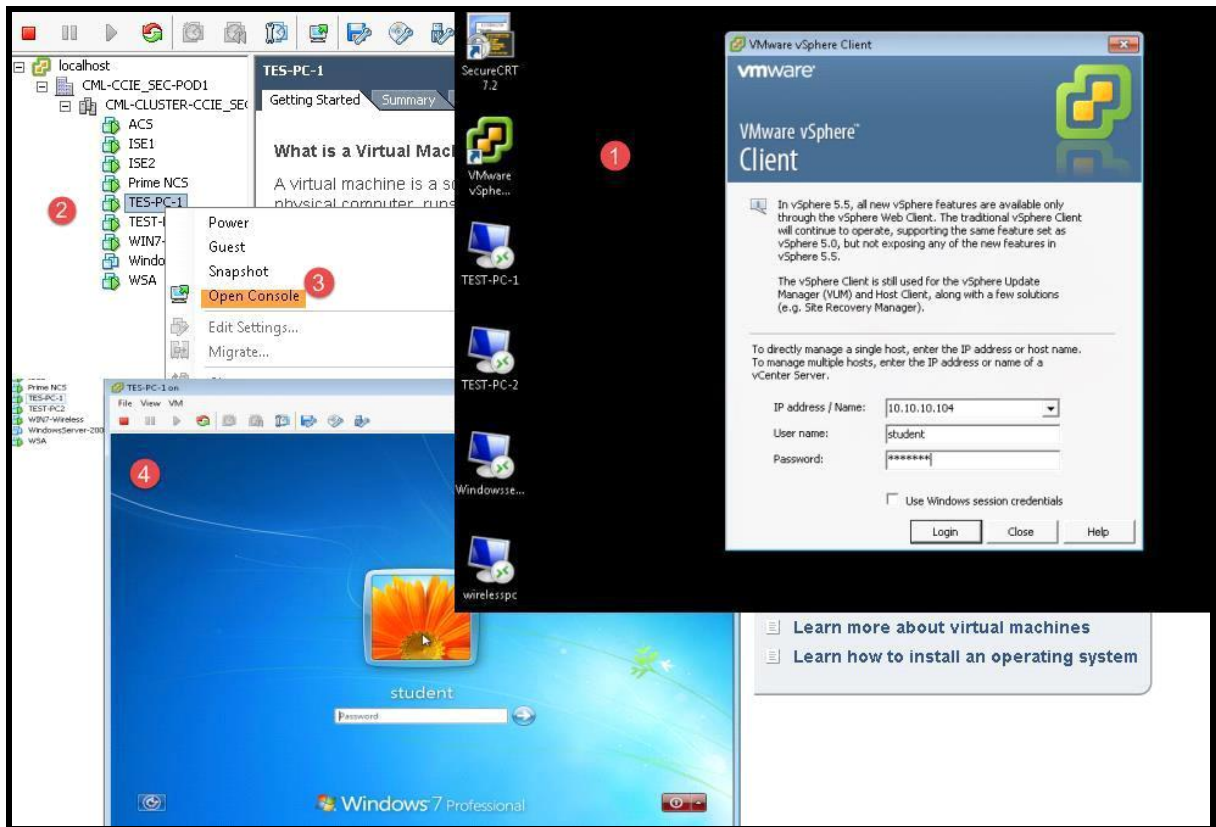
Figure 16:



## Example Method 2 for windows based Device:

Open VMware Vsphere Client>>right click on the relevant machine>>click open console

Figure 17:



## Lab Shortcuts

### 9. Starting a lab with Specific configuration

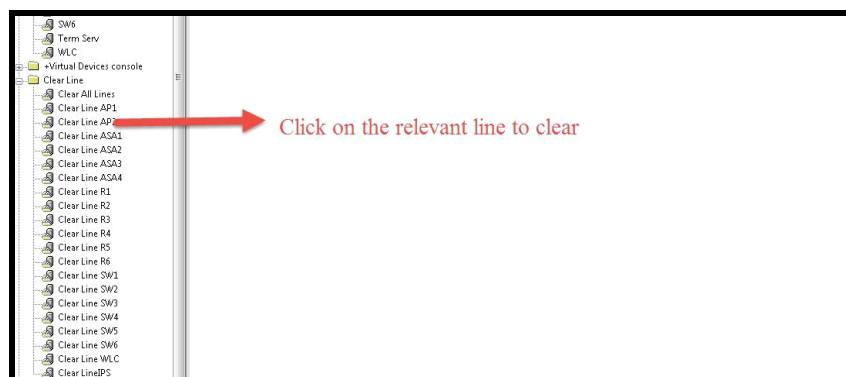
Open the physical device console > login > dir flash:  
#copy flash: lab1.cfg startup

Reload

Check out the video: <https://www.youtube.com/watch?v=I72ExquNIFA>

Clearing console line to get access: Under **SecureCRT** click on the plus sign against **Clear** line and **Select** relevant device to clear

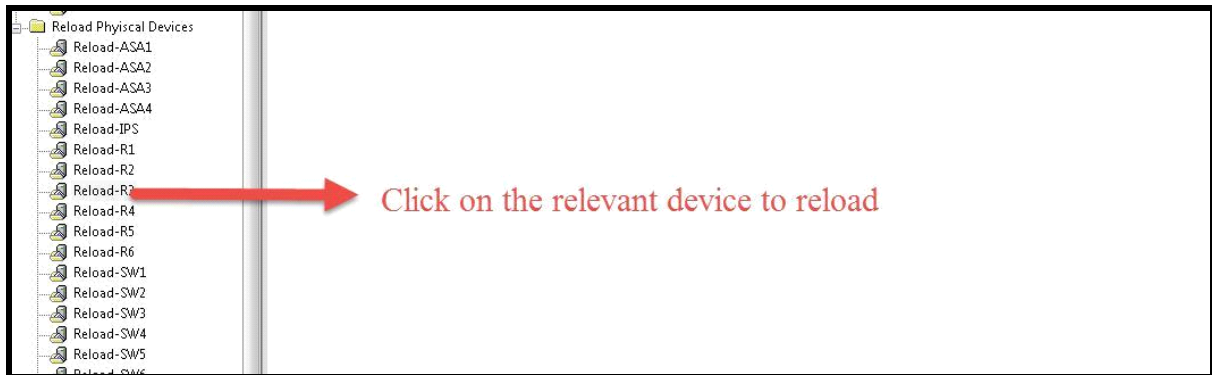
Figure 18:





Reloading the devices: All the devices are connected to managed power PDU and you can use the shortcut to boot the devices

Figure 19:



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**NOTE:**

Site C – Do not shut the following two interfaces:

interface GigabitEthernet0/1/2

interface GigabitEthernet0/1/3

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## NEED HELP??

To get support open a ticket on Support Page or send an email to [support@cloudmylab.com](mailto:support@cloudmylab.com)

Please check the documentation and FAQs before hand