CIAB Remote Desktop System Installation Guide

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IMPORTANT - Only Install CIAB on a fresh Ubuntu 20.04 Server, VM or Cloud Server!

Major changes:

- 1. CIAB now utilizes a Dockerized Guacamole container running on the Server in an "nesting enabled" LXD container which then allows the Guacamole Docker container to run inside (ie nested) the LXD ciab-guac container.
- 2. The CIAB Remote Desktop is still installed in an LXD container called ciab-cn1. As part of the Installation an application called *TaskSel* will be executed which will allow you the installer to choose which *Desktop Environment (DE)* you want to utilized for the CIAB Remote Desktop the End-Users will see.

Choices include:

- a) KDE
- b) Ubuntu Gnome
- c) XFCE
- d) MATE
- e) LXDE

NOTE:

TaskSel also allows you to select quite a few other Linux services/applications you may be interested in having available to your ciab-cn1 Remote Desktop sessions.

The Installation of the CIAB Remote Desktop System is now a bit hybrid where there are a few steps you the installer will need to do manually but there are also scripts which can do much of the work.

Instructions are provided in three separate CIAB Installation Mind Maps which will be shown on the following pages.

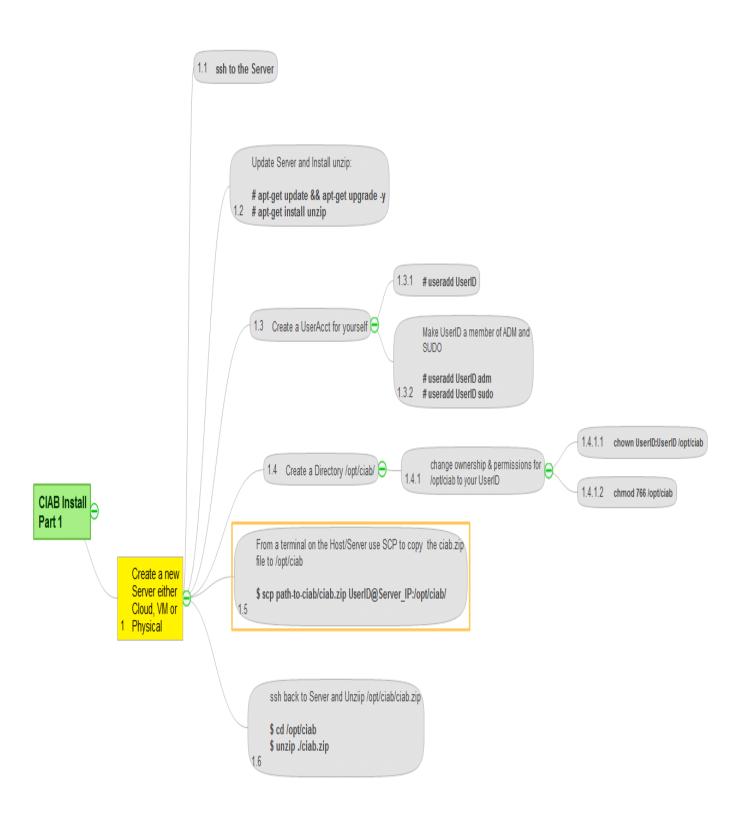
Please substitute the *UserName* you intend to utilize anywhere in *Part 1 and Part 2* where ever you see "*UserID*".

Following Installation point a Web Browser at the IP Address of the Server you installed CIAB on.

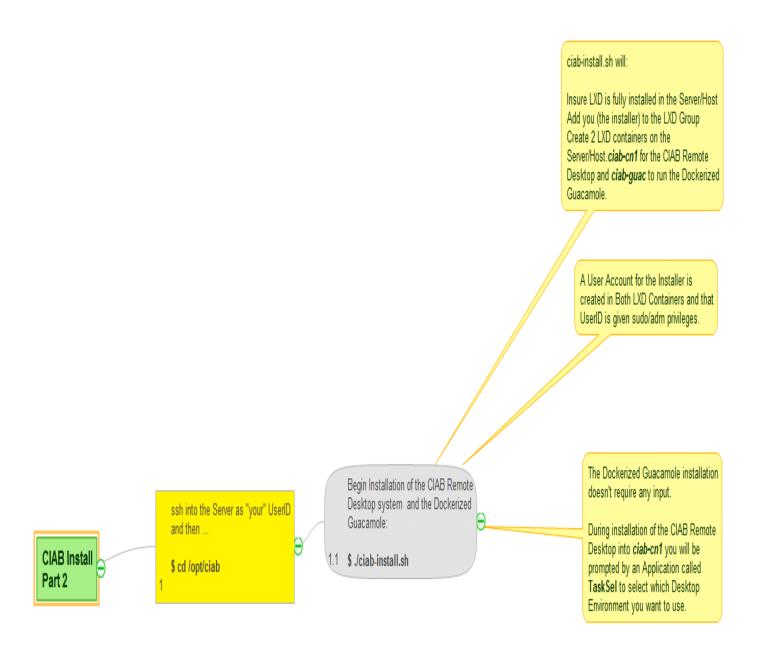
https://A.B.C.D

Default Admin login is: guacadmin guacadmin

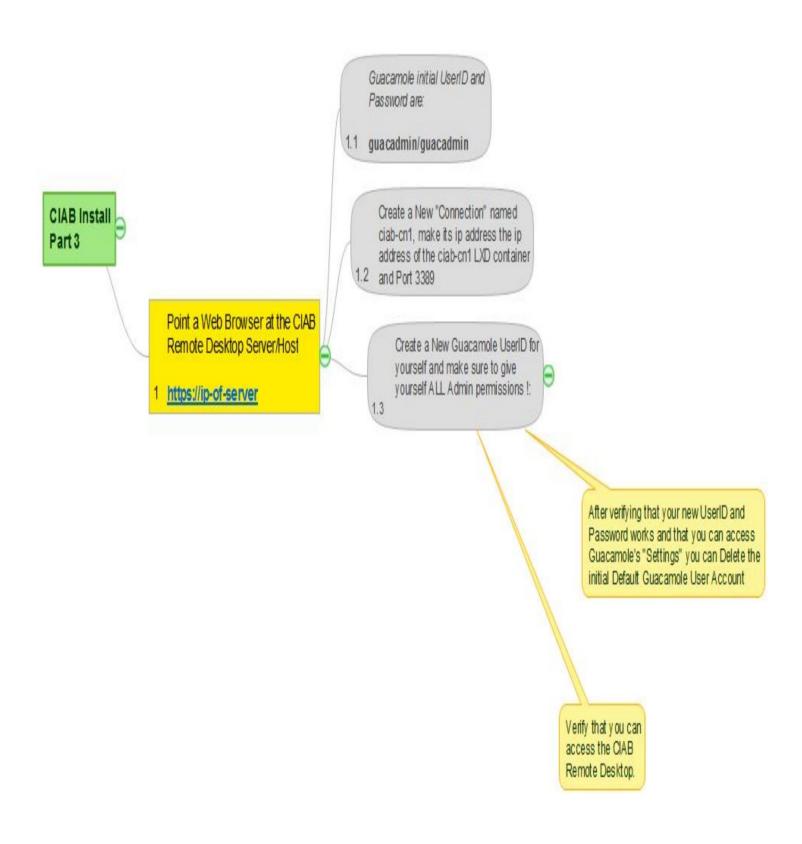
CIAB Remote Desktop System Installation – PART 1



CIAB Remote Desktop System Installation – PART 2



CIAB Remote Desktop System Installation – PART 3



Basic CIAB Guacamole Configuration Steps

Point your web browser to the IP address of your CIAB Server:

 $\underline{https:/\!/X.X.X.X}$

and you will see the Guacamole Login Menu:



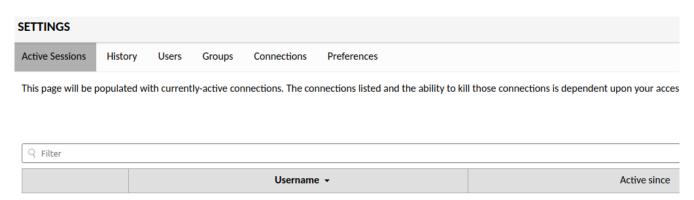
Default initial Login & Password are:

guacadmin guacadmin

In the upper right corner of the next screen you will see:



Click on "guacadmin" and choose "Settings" and the next screen you will see is:



For basic configuration of CIAB we will show configuring a "new" Connection (ie to ciab-cn1) and a "new User.

Configure a new Connection

Click on "Connections" and you will see the following screens. I will fill in the forms and take a screen shot of each so you can see what you will need to do. *The only difference will be the IP address of your ciab-cn1 LXD container.*

Note: you can find ciab-cn1 IP by logging into the Server/Host and executing:

\$ lxc ls

example:

NAME	STATE	IPV4	IPV6	TYPE	SNAPSHOTS
ciab-cn1	RUNNING	10.141.152.153 (eth0)	fd42:5bb2:5eb8:abf7:216:3eff:fe45:f784 (eth0)	CONTAINER	0
ciab-guac 	RUNNING	172.18.0.1 (br-1d564e39cffc) 172.17.0.1 (docker0) 10.141.152.249 (eth0)	fd42:5bb2:5eb8:abf7:216:3eff:fe9b:250c (eth0)	CONTAINER 	0

EDIT CONNECTION	
Name: ciab-cn1 Location: ROOT Protocol: RDP V	
CONCURRENCY LIMITS	
Maximum number of conne	
LOAD BALANCING	
Connection weight: Use for failover only:	
GUACAMOLE PROXY PA	ARAMETERS (GUACD)
Port: Encryption: PARAMETERS	
Network	
Hostname: 10.141.152.1 Port: 3389	53 ≎
Authentication	
Username: Password: Domain:	\${GUAC_USERNAME} \${GUAC_PASSWORD}
Security mode: Disable authentication: Ignore server certificate:	RDP encryption
Remote Desktop Gatew	<i>y</i> ay
Hostname: Port: Username:	
Password: Domain:	<u> </u>

Note: those are "curly braces" around Username and Password!!

Basic Settings

Initial program:					
Client name:					
Keyboard layout:	USE	inglish (Qv	verty)	~	
Time zone:	Ame	erica v	New York		~
Enable multi-touch:		100			
Administrator console:					
Display					
Width:				\$	
Height:				\$	
Resolution (DPI):				\$	
Color depth:		True colo	r (32-bit) v		
Force lossless compressi	on:				
Resize method:					~
Read-only:					
Clipboard					
Line endings:				v]	
Disable copying from rer	note d	lesktop:			
Disable pasting from clie	nt:				

Device Redirection

Support audio in console:	
Disable audio:	
Enable audio input (microphone):	
Enable printing:	
Redirected printer name:	
Enable drive:	
Drive name:	ciab-drive
Disable file download:	
Disable file upload:	
Drive path:	drive/
Automatically create drive:	▽
Static channel names:	rdpdr

This form will have Guacamole & xRDP create a directory on your CIAB Desktop named "ciab-drive".

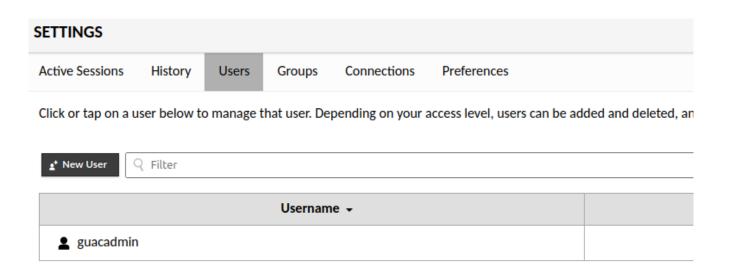
If you copy/paste a file into that Directory it will be transferred to your local machine.

To upload a file from you local machine to your CIAB Remote Desktop just right click & copy the file on your local machine and drop it "anywhere" on your CIAB Remote Desktop.

Finally scroll to the Bottom of the form and Click SAVE...

Configure a New Guacamole User

NOTE: you will need to create a User Account in the CIAB-CN1 LXD container for each Guacamole User you create!



Click on "Users" then click on "New User".

EDIT USER	
Username: Password: Re-enter Password:	bmullan
PROFILE	
Full name: Email address: Organization: Role:	
ACCOUNT RESTRIC	TIONS
Login disabled: Password expired: Allow access after: Do not allow access af Enable account after: Disable account after: User time zone:	:
PERMISSIONS	
Administer system: Create new users: Create new user group Create new connection Create new connection Create new sharing processes Change own password	ns: ofiles:
CONNECTIONS	
Current Connections	All Connections
□ □ □ ciab-cn1	

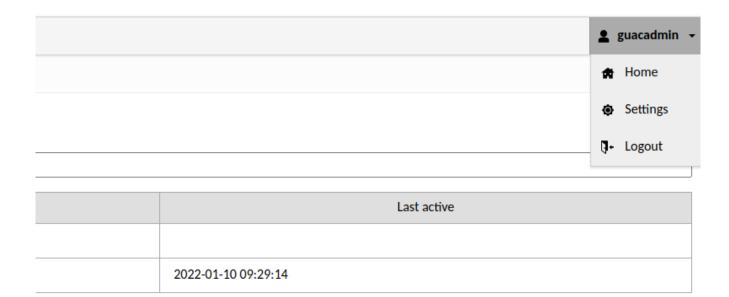
Important Notes on New User creation.

For yourself as the CIAB Installer give your Guacamole Account ALL Permissions

Make sure you select the *ciab-cn1* Connection

Finally, Click SAVE.

Back on the next Screen Click on guacadmin again and Select Logout.



Login with your own UserID and Password and you will see something like the following. Clicking on either the **Icon** or the connection name "ciab-cn1" should log you into your CIAB Desktop.

RECENT CONNECTIONS



ciab-cn1

ALL CONNECTIONS

ciab-cn1

Installation Errata

Installation only requires you to execute 2 Scripts.

Do not use "sudo" or "root" to execute these, just your normal UserID:

1. ciab-pre-install.sh

then

2. ciab-install.sh

Note for UBUNTU MATE Desktop Environment!

Mate itself has a "bug" described here:

https://ubuntu-mate.community/t/upgraded-to-20-04-and-the-menu-keeps-closing/21781/16

For Ubuntu Mate Desktop I fixed this problem by editing (as sudo):

/usr/share/applications/caja.desktop

and change:

Exec=/usr/bin/caja

to:

Exec=/usr/bin/caja --force-desktop

Log out and back in and now it all works.

Note for UBUNTU Budgie Desktop Environment!

Just install CIAB like normal.

When the install of ciab-cn1 starts and you get the TaskSel menu select **Budgie Desktop**.

Next, when everything is done do this:

lxc exec ciab-cn1 bash

cd /etc/xrdp

Edit the file "startwm.sh"

At the very bottom you will see:

wm_start exit 1

Change that to:

wm_start budgie-desktop exit 1