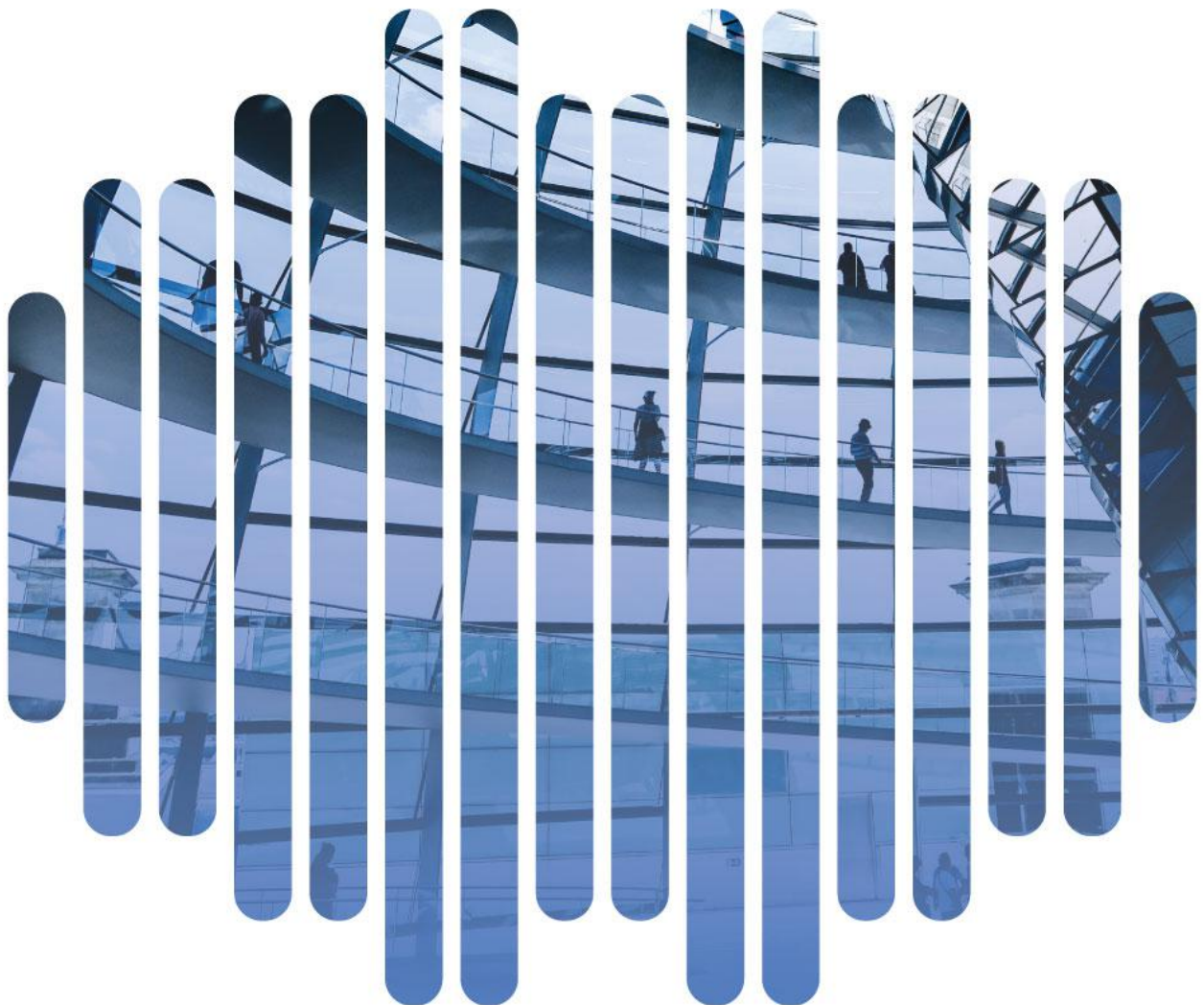


IP Audio Center Installation Guide



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Choose Server

Please choose a server for ZYCOO IP Audio Center installation according to the server configuration recommendation table below.

System Capacity			Recommended Server Configurations			
			CPU	RAM	NIC	Storage
I	IP Audio Endpoints	100	2 Cores	4GB	100Mbps	120GB
	Streaming Media Paging	100				
	SIP Sessions	50				
II	IP Audio Endpoints	300	4 Cores	4GB	1000Mbps	500GB
	Streaming Media Paging	300				
	SIP Sessions	100				
III	IP Audio Endpoints	500	4 Cores	8GB	1000Mbps	1TB
	Streaming Media Paging	500				
	SIP Sessions	200				
IV	IP Audio Endpoints	1000	6 Cores	8GB	1000Mbps	RAID Recommended
	Streaming Media Paging	1000				
	SIP Sessions	300				
V	IP Audio Endpoints	2000	8 Cores	16GB	1000Mbps	RAID Recommended
	Streaming Media Paging	2000				
	SIP Sessions	500				
VI	IP Audio Endpoints	4000	8 Cores	32GB	1000Mbps	RAID Recommended
	Streaming Media Paging	4000				
	SIP Sessions	500				

Offline Installation

Preparation

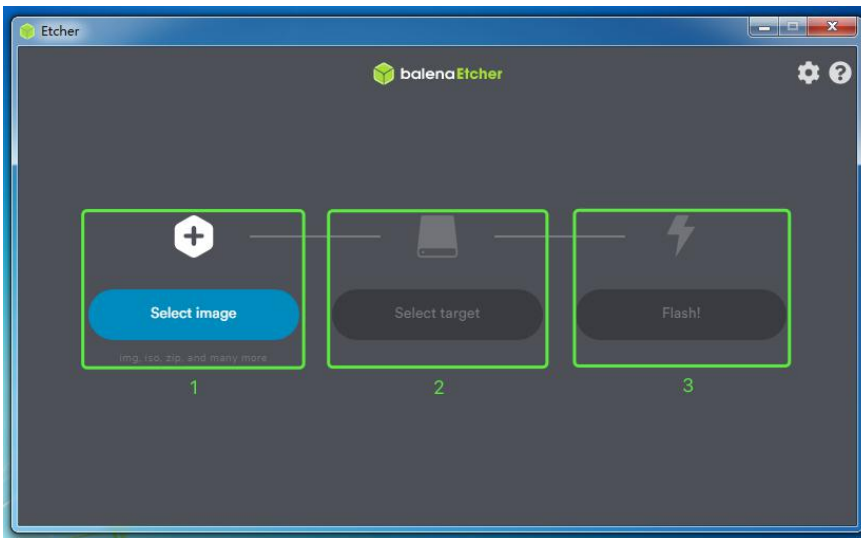
1. Server
Hardware server or virtual machine.
2. ISO file
Link: https://www.zycoo.com/downloads/iso/Zycoo-IAC-x86_64-Full-KS_latest.iso
3. USB Drive
To install IP Audio Center on a hardware server, please prepare a 4GB or larger USB drive.
4. USB Boot Disk Creator (for Windows)
Link: <https://www.zycoo.com/downloads/tools/balenaEtcher-Setup-latest.exe>

To create a bootable USB drive for installing IP Audio Center on a hardware server.

To install IP Audio Center on a virtual machine, a bootable USB drive is not required. Use the virtual machine software to load the ISO file directly for installation.

Create Bootable USB Drive

Attach the USB drive to a Windows PC, install and run the creator you have downloaded.



Step 1: Select the downloaded ISO image file.

Step 2: Select the USB drive attached.

Step 3: Click on Flash button to start creating the USB bootable drive with the IP Audio Center installation image. Usually it will take less than 10 minutes, during the process please DO NOT remove the USB drive or close the creator application.

Install IP Audio Center

Step 1: Plug the USB bootable drive to the USB port of the server.

Step 2: Power on the server and enter BIOS or UEFI settings.

Step 3: Boot the server from the USB drive in either BIOS or UEFI mode.

Step 4: Automatic installation begins, during the installation process please DO NOT power off the server or remove the USB drive.

Step 5: When installation completes, server will restart, please unplug the USB drive. If the server is not connected to your LAN please connect it as it will obtain IP address from the DHCP server.

Web Login

After the installation and server restart, it will enter the command line interface of the IP Audio Center, and the server IP will be displayed.



```
ZYCOO
Current Network Configuration
+-----+-----+-----+
| Interface | MAC Address | IP Addresses |
+-----+-----+-----+
| eth0      | 08:0C:29:5A:43:2A | 192.168.11.241 |
+-----+-----+-----+
Please note most tasks should be handled through the GUI. You can
access the GUI by typing one of the above IPs in to your web browser.
For support please contact:
Email: support@zycoo.com
*****
* This machine is not activated When you just finished installing. *
* Activating your system ensures that your machine is eligible for *
* support and that it has the ability to create more extensions. *
* please go to Activation (which is on the Settings->License page *
* in the Web UI) *
*****
Warning: This is ZYCOO IP Audio Center System CMD! If you are not a
system administrator, please leave now!
zycoo-broadcast login: _
```

The command line interface login credentials are username root and password IPAUDIOCENTER@zycoo.com, please change root password after first login to ensure system security.

On a PC in your LAN, open the web browser and open the IP Audio Center web interface using the IP address you got from the command line interface.

Default username: admin

Default password: admin

Notice:

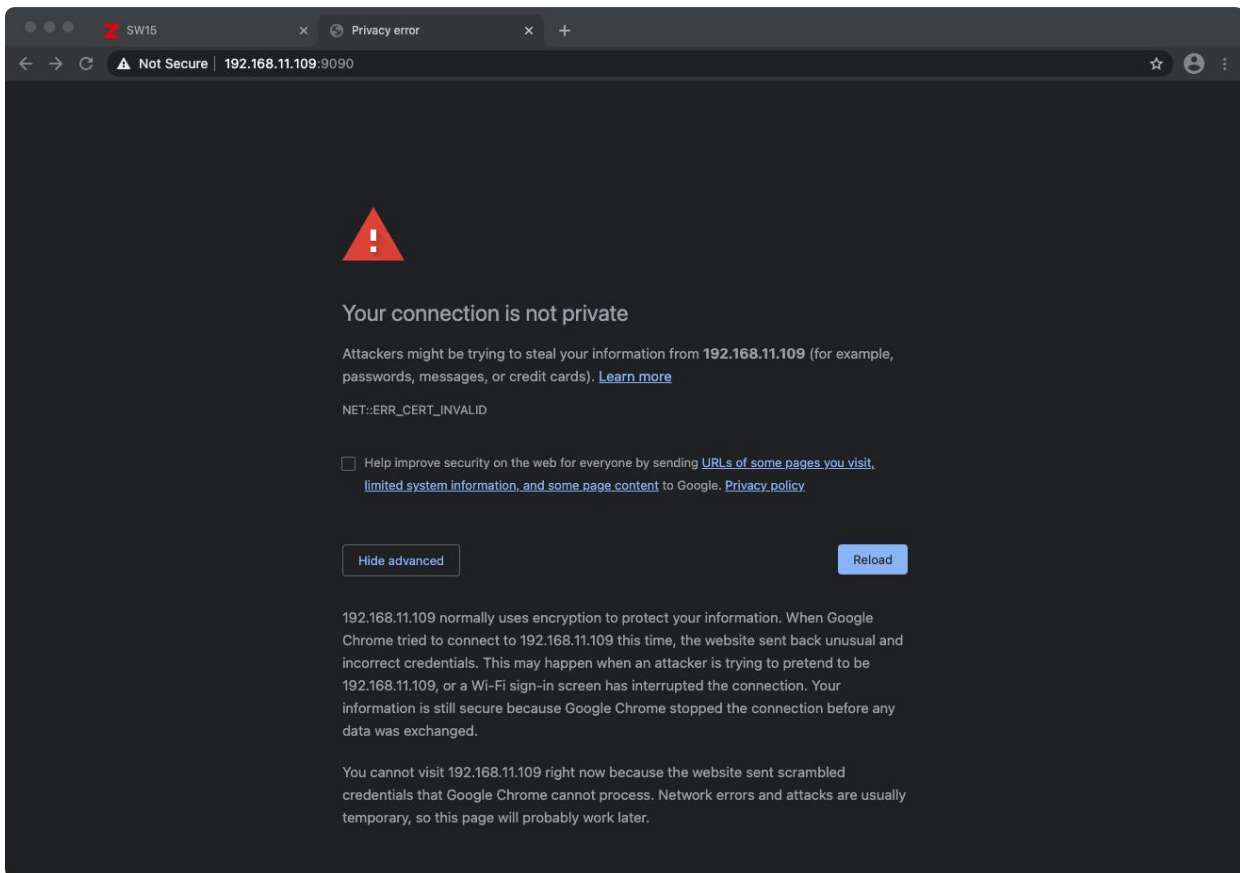
1. To install the IP Audio Center on a virtual machine, use the virtual machine software to load the ISO image directly for installation, and the network mode should be configured as "Bridged".
2. After installation, the virtual machine will automatically restart, please unmount the ISO image to prevent running the installation process once again.

System Maintenance Interface

The system maintenance interface is provided for technical staffs who needs to change system settings and/or daily system maintenance.

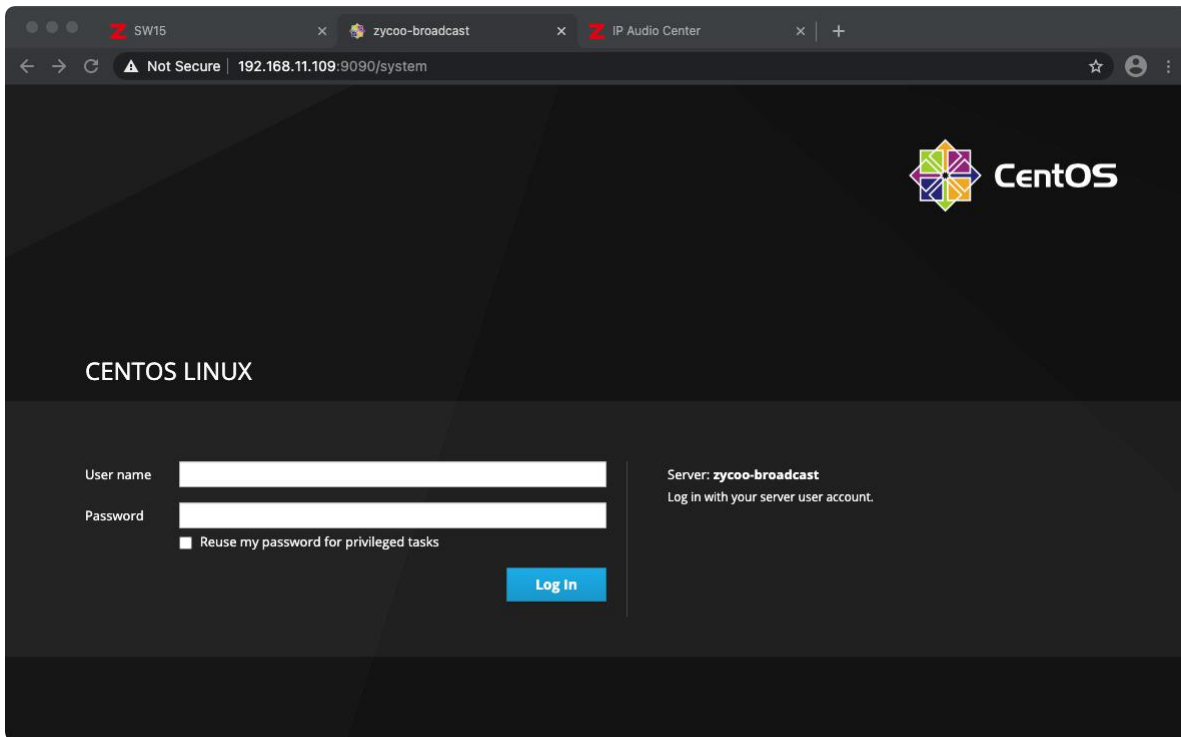
The access port is 9090. For example, if your system's IP address is 192.168.11.241, then the system maintenance interface login address should be <https://192.168.11.241:9090>

You should see the below page:



On this page, you need to use your keyboard to type in 'thisisunsafe' directly .

After you successfully login, you should see the below interface:



The system maintenance interface's login credential is the same as the IP Audio center.

Username: root

Password: IPAudioCenter@zycoo.com

Note: For your system security, please change the default password.

Using the System Maintenance Interface you can :

- Check system performance status
- Check system logs
- Change system IP address
- Change system timezone
- Change NTP settings
- Backup/recover system settings
- Command line operation

Online Installation Based on Docker

Install Docker

Install Docker and Docker-compose on the host server, it will not be introduced in this document.

Install IP Audio Center

Add ZYCOO private Docker repository

1. Edit /etc/docker/daemon.json and add below line.
`{ "insecure-registries":["120.27.216.154:5001"] }`
2. Restart docker
Command: `systemctl restart docker`
3. Login to ZYCOO private Docker repository
Command: `docker login 120.27.216.154:5001`
User: registry
Pass: ui

Download project

1. Clone project repository
Command: `git clone http://bc.zycoo.com:3000/broadcast-docker/broadcast-system.git`
Git user : pullcode
Pass : Zyc002019
2. Default time zone is Asia/Chongqing
To modify time zone, enter git directory, edit .env file and modify the TZ variable.
3. Start Project
`docker-compose up -d`

Web Login

On a PC in your LAN, open the web browser and open the IP Audio Center web interface using the IP address of the host server.

Default username: admin; Default password: admin

Notice: The IP Audio Center will use the below service ports of the host server, if there's any conflict with the existing services, please modify the service ports in .env file.

TCP Ports: 80, 443, 554, 1883, 8000, 8001, 8089

UDP Ports: 554, 5060, 10001~12000

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ZYCOO, NEEQ Code 839487, is the leading developer and manufacturer of IP telephony devices and related systems, devoting itself over the past years to R&D powerful and scalable voice over IP (VoIP) solutions that mainly serve the SMEs market and industry filed.

