

Yeastar K2 Software Installation Guide

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Yeastar Information Technology Co. Ltd.

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Introduction

What is Yeastar K2 Software?

Yeastar K2 Software is a Linux distribution with Yeastar IPPBX. You have multiple choices to install the Yeastar K2 Software:

- Install the Yeastar K2 Software with a USB flash drive.
- Install the Yeastar K2 software on a virtual machine.
- Burn the Yeastar K2 disc image (ISO file) into a DVD or CD, and install the Linux-based operation system on your PC.

Supported VM Platforms

Tested and supported VM(Virtual Machine) platforms:

- VMware 12.0 or later
- Hyper-v-6.3.9600.16384 or later
- KVM 2.5.0 or later

Hardware Requirements

System performance depends on the following key factors:

- How many concurrent calls will the system handle
- Which codecs are used to make calls
- If call recording is used.

Based on the factors, your system hardware should meets the minimal requirements:

Hardware	500 Concurrent Calls
CPU	E3-1240 (3.5GHz, 8M Cache, 4C/8T)
RAM	8G
Hard Disk (Without Recording)	50G
Hard Disk (With Recording)	1T

Write K2 Image in a USB

The instructions below introduces how to write K2 image in a USB via UltraISO.

Download UltraISO free trial version here.

- **1.** Format your USB with FAT32.
- 2. Open the K2 image file via UltraISO.



3. Click Bootable > Write Disk Image.

🔕 UltralSO (T	🎧 UltralSO (Trial Version) - F:\work source\K2 镜像\myubuntu-80.2.0.8.iso ー □ >			×	
File Actions	Bootable Tools Options Help	_			
🗋 🤌 - 🍓	Make Floppy Image	🧿 🚯 👔 Total Size:	775MB 97% of	791MB - 16MB free	
Image:	Write Floppy Image	Path: /			
<u></u>	🗑 Make Disk Image	Size	Tupe	Date/Time	~
🦳 🦳 .disk	🖲 Write Disk Image	5126	Туре		
🖶 🦳 boot		81	Folder	2016-08-03 23:39	
etein 🖨 🕀	Extract Boot Sector from Hoppy/HDD drive	4,323 KB	Folder	2016-08-03 23:40	
	Extract Boot File from CD/DVD	551 KB	Folder	2016-08-03 23:39	
in the second s		705 KB	Folder	2016-08-03 23:39	
🕮 🛄 install	See Load Boot File	2,232 KB	Folder	2016-08-03 23:40	
isolinux	Save Boot File	290,367 KB	Folder	2017-11-07 21:51	
	Clear Boot Information	1.087 KB	Folder	2016-08-03 23:40	-

4. Choose **Disk Drive** as your USB drive, and choose the K2 image file, then click **Write**.

lessage:					Save
Time	Event				
	Windows 10 v10.0 B	3uild 14393			
PM 05:00:26	(H:, 15 GB)Kingston	DT Rubber	r 3.0		
c					
Disk Drive:	(H:, 15 GB)Kingston	DT Rubber	3.0	Verify	ý
Image File:	F:\work source\K2镜	負像\myubu	intu-80.2.0.8.iso		
Sector Markersk					
write Method:	USB-HDD+ V				
Hide Boot Partition:	None	\sim		Xpress E	Boot
Done: l	J% I	Elapsed:	00:00:00	Remai	n: 00:00:00
				Spee	d: OKB/s

5. Click Yes to start writing image.

Prompt

?

WARNING! ALL DATA ON DRIVE (H:, 15 GB)Kingston DT Rubber 3.0 WILL BE LOST!

Are you sure you REALLY want to continue?

Yes	No
-----	----

6. After the process of writing image is completed, you can check your USB. The USB should contain the files as the following figure shows.

USB Drive (H:) >				
Na	me	Date modified	Туре	Size
	.disk	8/3/2016 11:39 PM	File folder	
	boot	8/3/2016 11:40 PM	File folder	
	dists	8/3/2016 11:39 PM	File folder	
	doc	8/3/2016 11:39 PM	File folder	
	EFI	8/3/2016 11:40 PM	File folder	
	install	11/7/2017 9:51 PM	File folder	
	isolinux	8/3/2016 11:40 PM	File folder	
	pics	8/3/2016 11:39 PM	File folder	
	pool	8/3/2016 11:39 PM	File folder	
	preseed	8/3/2016 11:39 PM	File folder	
	md5sum.txt	11/7/2017 9:51 PM	TXT File	168 KB
	README.diskdefines	8/3/2016 11:39 PM	DISKDEFINES File	1 KB
	ubuntu	11/7/2017 9:51 PM	File	0 KB

Install Yeastar K2 Software

- 1. Configure language and location
- 2. Configure the keyboard
- 3. Plan and create partition disks
- 4. Install the system.

Configure Language and Location

The installer will begin with a prompt to select a language for the installation wizard.

1. Select a language for the installation wizard.

	Language		
Amharic	Français	Македонски	Tamil
Arabic	Gaeilge	Malayalam	ජ ි
Asturianu	Galego	Marathi	Thai
Беларуская	Gujarati	Burmese	Tagalog
Български	עברית	Nepali	Türkçe
Bengali	Hindi	Nederlands	Uyghur
Tibetan	Hrvatski	Norsk bokmål	Українська
Bosanski	Magyar	Norsk nynorsk	Tiếng Việt
Català	Bahasa Indonesia	Punjabi(Gurmukhi)	中文(简体)
Čeština	Íslenska	Polski	中文(繁體)
Dansk	Italiano	Português do Brasil	
Deutsch	日本語	Português	
Dzongkha	ქართული	Română	
Ελληνικά	Қазақ	Русский	
English	Khmer	Sámegillii	
Esperanto	ಕನ್ನಡ	ສິ∘ກ⊚	
Español	한국어	Slovenčina	
Eesti	Kurdî	Slovenščina	
Euskara	Lao	Shqip	
ىسراف	Lietuviškai	Српски	
Suomi	Latviski	Svenska	
Help F2 Language F3	Keymap F4 Modes	F5 Accessibility F6 O	ther Options

2. Select Install Ubuntu Server.



- 3. Select a language.
- 4. Select your location.

Configure the Keyboard.

1. Do not detect keyboard layout, select NO.



- 2. Select country for the keyboard.
- 3. Select language of the keyboard.

Plan and Create Partition Disks

You need to create three partition disks as the following:

Partition	Use as	Mount Point	Recommend Disk Size
Partition 1	Journaling file system	/	50G
Partition 2	Journaling file system	/home	Minimal 50G + reserved size for storing recording files
Partition 3	Swap area	-	10G

1. Select Manual method.

[!!] Partition disks
The installer can guide you through partitioning a disk (using different standard
schemes) or, if you prefer, you can do it manually. With guided partitioning you will
still have a chance later to review and customise the results.
If you choose guided partitioning for an entire disk, you will next be asked which disk
should be used.
Partitioning method:
 Guided - use entire disk
 Guided - use entire disk and set up LVM
 Guided - use entire disk and set up encrypted LVM
 Manual

2. Select the partition of the virtual machine.

[!!] Partition disks
nis is an overview of your currently configured partitions and mount points. Select a artition to modify its settings (file system, mount point, etc.), a free space to create artitions, or a device to initialize its partition table.
Guided partitioning Configure iSCSI volumes
SCSI33 (0,0,0) (sda) – 1.1 TB VMware, VMware Virtual S
Undo changes to partitions Finish partitioning and write changes to disk
<go back=""></go>

3. Select Yes to create new empty partition table on this device.

 [!!] Partition disks

 You have selected an entire device to partition. If you proceed with creating a new partition table on the device, then all current partitions will be removed.

 Note that you will be able to undo this operation later if you wish.

 Create new empty partition table on this device?

 <Go Back>

4. Create partition 1.

a) Select the FREE SPACE to create a new partition.



b) Select Create a new partition.



c) Set the partition size.

[!!] Partition disks	
The maximum size for this partition is 1.1 TB.	
Hint: "max" can be used as a shortcut to specify the maximum size, or enter (e.g. "20%") to use that percentage of the maximum size.	a percentage
New partition size:	
50GB	
<go back=""></go>	<continue></continue>

d) Choose the partition type as Primary.

[11] Partition disks
Type for the new partition:
<mark>Primary</mark> Logical
<go back=""></go>

e) Select location for the partition as **Beginning**.



- f) Set **Use as**, **Mount point** for the partition 1, then select **Done settings up the partition**.
 - ✓ Use as: Ext4 journaling file system
 - ✓ Mount point: /

[11] Partition disks			
You are editing partition #1 of SCSI33 (0,0,0) (sda). No existing file system was detected in this partition.			
Partition settings	:		
	Use as:	Ext4 journaling file system	
	Mount point: Mount options: Label: Reserved blocks: Typical usage: Bootable flag:	/ detaults none 5% standard off	
	Copy data from an Delete the partit <mark>Done setting up t</mark>	other partition ion he partition	
<go back=""></go>			

- 5. Create partition 2.
 - a) Select the **FREE SPACE** to create a new partition.

his is an overview of your currently configured partitions and mount points. Select a artition to modify its settings (file system, mount point, etc.), a free space to create artitions, or a device to initialize its partition table.	
Guided partitioning Configure software RAID Configure the Logical Volume Manager Configure encrypted volumes Configure iSCSI volumes	
SCSI33 (0,0,0) (sda) – 1.1 TB VMware, VMware Virtual S #1 primary 50.0 GB f ext4 / pri/log 1.0 TB FREE SPACE	
Undo changes to partitions Finish partitioning and write changes to disk	
<go back=""></go>	

[]] Partition disks

b) Select Create a new partition.

[!!] Partition disks
How to use this free space:
<mark>Create a new partition</mark> Automatically partition the free space Show Cylinder/Head/Sector information
<go back=""></go>

c) Set the partition size.

 [!!] Partition disks

 The maximum size for this partition is 1.0 TB.

 Hint: "max" can be used as a shortcut to specify the maximum size, or enter a percentage (e.g. "20%") to use that percentage of the maximum size.

 New partition size:

 1000GB

 <Go Back>
 <Continue>

d) Choose the partition type as Logical.



e) Select location for the partition as **Beginning**.

[!!] Partition disks
Please choose whether you want the new partition to be created at the beginning or at the end of the available space.
Location for the new partition:
Beginning End
<go back=""></go>

- f) Set Use as, Mount point for the partition 2, then select Done settings up the partition.
 - ✓ Use as: Ext4 journaling file system
 - ✓ Mount point: /home

	[1]	Partition disks
You are editing partit detected in this parti	ion #5 of SCSI33 ition.	3 (0,0,0) (sda). No existing file system was
Partition settings:		
Us	se as:	Ext4 journaling file system
Mo Mo La Re Ty Bo	ount point: ount options: abel: served blocks: apical usage: ootable flag:	/home detaults none 5% standard off
Co De	opy data from and elete the partiti one setting up th	other partition ion ne partition
<go back=""></go>		

6. Create partition 3.

a) Select the **FREE SPACE** to create a new partition.

[11] Pontition dicks
This is an overview of your currently configured partitions and mount points. Select a partition to modify its settings (file system, mount point, etc.), a free space to create partitions, or a device to initialize its partition table.
Guided partitioning Configure software RAID Configure the Logical Volume Manager Configure encrypted volumes Configure iSCSI volumes
SCSI33 (0,0,0) (sda) – 1.1 TB VMware, VMware Virtual S #1 primary 50.0 GB f ext4 / #5 logical 1000.0 GB f ext4 /home pri/log 49.5 GB FREE SPACE
Undo changes to partitions Finish partitioning and write changes to disk
<go back=""></go>

b) Select Create a new partition.

[!!] Partition disks
How to use this free space:
Create a new partition Automatically partition the free space Show Cylinder/Head/Sector information
<go back=""></go>

c) Set the partition size.

[!!] Partition disks	
The maximum size for this partition is 49.5 GB.	
Hint: "max" can be used as a shortcut to specify the maximum size, or enter a percenter (e.g. "20%") to use that percentage of the maximum size.	ntage
New partition size:	
49.5 GB	
<go back=""> <continue< td=""><td>e></td></continue<></go>	e>

d) Choose the partition type as Logical.

[!!] Partition disks
Type for the new partition:
Primary <mark>Logical</mark>
<go back=""></go>

e) Select location for the partition as **Beginning**.

[!!] Partition disks	
Please choose whether you want the new partition to be created at the beginning or at the end of the available space.	
Location for the new partition:	
Beginning End	
<go back=""></go>	

f) Set Use as, Mount point for the partition 3, then select Done settings up the partition. ✓ Use as: swap area

	[!!] Partition disks
You are editing partition detected in this partitio	n #6 of SCSI33 (0,0,0) (sda). No existing file system was on.
Partition settings:	
	Use as: swap area
	Bootable flag: off
	Copy data from another partition Delete the partition Done setting up the partition
<go back=""></go>	

7. Select Finish partitioning and write changes to disk.

```
– [!!]Partition disks –
This is an overview of your currently configured partitions and mount points. Select a
partition to modify its settings (file system, mount point, etc.), a free space to create
partitions, or a device to initialize its partition table.
                Guided partitioning
                Configure software RAID
                Configure the Logical Volume Manager
                Configure encrypted volumes
                Configure iSCSI volumes
                SCSI33 (0,0,0) (sda) - 1.1 TB VMware, VMware Virtual S
                     #1 primary 50.0 GB
                                               f ext4
                     #5 logical 1000.0 GB
                                                           /home
                                                f
                                                  ext4
                                    49.5 GB
                     #6 logical
                                                f
                                                  swap
                                                           swap
                Undo changes to partitions
                 Finish partitioning and write changes to disk
    <Go Back>
```

8. Select Yes, write the changes to disks.

```
      [!!] Partition disks

      If you continue, the changes listed below will be written to the disks. Otherwise, you will be able to make further changes manually.

      The partition tables of the following devices are changed:

      SCSI33 (0,0,0) (sda)

      The following partitions are going to be formatted:

      partition #1 of SCSI33 (0,0,0) (sda) as ext4

      partition #5 of SCSI33 (0,0,0) (sda) as ext4

      partition #6 of SCSI33 (0,0,0) (sda) as ext4

      partition #6 of SCSI33 (0,0,0) (sda) as swap

      Write the changes to disks?

      (No>
```

Install the System

After finishing partitioning and write changes to disk, the virtual machine starts to install the system. Wait for a few minutes for the installation.

1. Select No automatic updates.

```
      Important: Do not select other options.

      [!] Configuring tasksel

      Applying updates on a frequent basis is an important part of keeping your system secure.

      By default, updates need to be applied manually using package management tools.

      Alternatively, you can choose to have this system automatically download and install security updates, or you can choose to manage this system over the web as part of a group of systems using Canonical's Landscape service.

      How do you want to manage upgrades on this system?

      No automatic updates

      Install security updates automatically

      Manage system with Landscape
```

 [!] Software selection

 At the moment, only the core of the system is installed. To tune the system to your needs, you can choose to install one or more of the following predefined collections of software.

 Choose software to install:

 [] OpenSSH server

 [] DNS server

 [] DNS server

 [] Mail server

 [] Print server

 [] Samba file server

 [] Virtual Machine host

 [] Virtual Machine host

2. Select **Continue** to skip this step.

3. Select Yes to install the GPUB boot loader.

[!] Install the GRUB boot loader on a hard disk
It seems that this new installation is the only operating system on this computer. If so, it should be safe to install the GRUB boot loader to the master boot record of your first hard drive.
Warning: If the installer failed to detect another operating system that is present on your computer, modifying the master boot record will make that operating system temporarily unbootable, though GRUB can be manually configured later to boot it.
Install the GRUB boot loader to the master boot record?
<go back=""> (Yes> (No></go>

4. Select Continue to finish the installation.

1	[!!] Finish the installation
	Installation complete Installation is complete, so it is time to boot into your new system. Make sure to remove the installation media (CD–ROM, floppies), so that you boot into the new system rather than restarting the installation.
	<go back=""> <continue></continue></go>

When the following screen displays, the system is successfully installed.

Ubuntu 14.04.5 LTS IPPBX tty1
IPPBX login: _

Log in the Yeastar K2

The default IP address of the PBX is 192.168.5.150. To log in the PBX, you need to make sure that your PC is in the same network segment of 192.168.5.X.

Launch your Web browser, enter the default IP address, and press Enter.
 A connection warning appears. Ignore the warning and proceed to the Yeastar IPPBX web page.

←	\rightarrow	С	https://192.168.5.150:8088	÷
				2
				A >
				- <u> </u>
				Your connection is not private 🛛 🔿
				Attackers might be trying to steal your information from 192.168.5.150
				passwords, messages, or credit cards). <u>Learn more</u> NET::ERR_CERT_AUTHORITY_INVALID
				This server could not prove that it is 192.168.5.150 ; its security certify your computer's operating system. This may be caused by a misconfiguration of the second system.
				attacker intercepting your connection.
				Proceed to 192.168.5.150 (unsafe)
-			all all and a second second	and the second of the second o

- 2. Enter the user name and password, click Login.
 - Username: admin
 - Password: password

Yeas	star PBX
1 admin	
A	
	Forgot Password?

Activate/Upgrade Yeastar K2

After installing the Yeastar K2 Software, you can try out all the PBX features free without time limit. However, the inactivated PBX has a limit on the number of extensions, concurrent calls, VoIP trunks, ring groups, etc.

Feature	Max Number
Extension	10
Concurrent Call	5
VoIP Trunk	2
Ring Group/Queue/Conference/Pickup Group/Paging/Intercom/Callback/DISA	1

Yeastar K2 IPPBX supports two license modes — E-License and USB License Key.

E- License

To active or upgrade Yeastar K2 via E-License, you should make sure that your Yeastar K2 can access the Internet.

USB License Key

To secure your phone system, you may install a Yeastar K2 IPPBX that has no ability to access the Internet. In this scenario, Yeastar will provide a USB license key to help you activate or upgrade your PBX.

The USB key is a dongle that attaches to a USB port on your computer. The USB key is programmed with your required PBX capacity, and can be used for one device only.

Activate/Upgrade Yeastar K2 via E-License

If your Yeatsar K2 IPPBX can access the Internet, you can activate or upgrade the PBX via E-License.

Important:

- You need to connect your K2 server to the Internet first, then start to apply for activation or update the activation code.
- After your K2 is activated, make sure the K2 server is connected to the Internet, or some functions on the K2 might not work.

Activate Yeastar K2 via E-License

- 1. Contact Yeastar to buy the license, tell us how many extensions and concurrent calls you want to activate on your Yeastar K2 Software.
- 2. Log in the PBX web interface, go to Maintenance > Activate, click Apply for Activation.
- **3.** On the **Basic Information** page, enter your license in the **Authorization code** field and your contact information.

The information will be sent to Yeastar, we will check the information and activate your PBX.

	Basic Information	×
Authorization code ①	IDI512877%X299327H5Jjjjjj421]
Company:	ABC	
Email:	cami@yeastar.com	
Contact:	carol	
Phone Number:	12993400304	
To help us with the ver	ification, please fill in detailed information.	
	Save Cancel	

4. Click Update Activation Code and reboot the PBX to take effect.

Upgrade Yeastar K2 via E-License

To expand your extensions or concurrent calls, you should do the followings:

- Contact Yeastar to buy a new license.
 We will upgrade upgrade your PBX, then inform you.
- 2. Log in the PBX web interface, go to the Maintenance > Activate, click Update Activation Code.

Activate/Upgrade Yeastar K2 via USB License Key

Activate Yeastar K2 via USB License Key

- 1. Contact Yeastar to buy the license, tell us how many extensions and concurrent calls you want to activate on your Yeastar K2 Software.
- 2. Connect the USB License Key to your computer where the Yeastar K2 IPPBX is installed.
- 3. Log in the PBX web interface, go to Maintenance > Activate, click Apply for Activation.
- 4. On the Basic Information page, enter your license in the Authorization code field.

Authorization code ①	IDI642877848D9927H643g6421	
Company:		
Email:		
Contact:		
Phone Number:		
To help us with the veri	fication, please fill in detailed information.	

5. Click **Save** and reboot the PBX to take effect.

Upgrade Yeastar K2 via USB License Key

To expand your extensions or concurrent calls, you should do the followings:

- 1. Contact Yeastar to buy a new license. We will provide a new USB key to you.
- 2. Connect the USB License Key to your computer where the Yeastar K2 IPPBX is installed.
- 3. Log in the PBX web interface, go to **Maintenance > Activate**, click **Update Activation Code**.