# TencentOS Server 操作系统安装指南

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# 1、介绍

TencentOS Server 是腾讯公司自主研发的定制化服务器操作系统。该系统集成了众多服务器系列的优点,加入自主研发的软件,便于用户操作使用,提供全方位(内核及用户态)的操作系统支持。系统特点:安全、易用、稳定、快速、长久支持。安装镜像提供了服务器常用的各种软件支持,同时可以使用线上软件源安装及更新软件。此说明适用于 Tencent OS Server 2.4 发行版与 3.1 发行版的安装与使用,本文中以 Tencent OS Server 3.1 为例。



# 2、安装前准备

安装 TencentOS Server 服务器操作系统前,您的服务器需要满足以下要求:

- 服务器接入稳定电源
- 确保服务器至少拥有 50GB 硬盘空间, 4GB 内存空间
- 获取安装 DVD 光盘(需要服务器拥有 DVD 光驱)或 USB 安装(需要服务器拥有 USB 接口)
- 安装前请备份您的硬盘数据,以防数据丢失
- 镜像获取地址: <u>https://mirrors.tencent.com/tencentos/3.1/iso/x86\_64/</u>

### 3、光盘安装说明

- 插入安装光盘, 启动时进入 BIOS 选择从 CDROM 驱动器启动
- 进入系统安装选择目录,选择 cdrom 方式进行安装

Install TencentOS Linux release 3 Install TencentOS Server 3 (TK4)(cdrom) Install TencentOS Server 3 (TK4)(usb) Rescue Press [Tab] to edit options
Install TencentOS Server 3 (TK4)(cdrom) Install TencentOS Server 3 (TK4)(usb) Rescue Press [Tab] to edit options
Press [Tab] to edit options

- 4、USB 安装说明
  - 使用 UltraISO 烧录 iso 镜像到 USB 介质中

- 插入 USB 安装介质, 启动时从 BIOS 选择 USB 启动
- 进入安装目录,选择从 usb 安装介质安装操作系统



## 5、调整根分区大小

#### 注: OC 版本不需要考虑调整分区。

TencentOS Server 默认的分区大小。 /分区 20G, SWAP 分区 2G, /usr/local 分区 20G, /data 分区为该硬盘剩余空间大小。 80G 的硬盘安装完成后硬盘分区示例如下:

[root@'	rencent64	! ~̃]‡	‡ lsbi	lk		
NAME	MAJ:MIN	RM	SIZE	RO	TYPE	MOUNTPOINT
sda	8:0	0	80G	0	disk	
—sda1	8:1	0	20G	0	part	/
—sda2	8:2	0	2G	0	part	[SWAP]
—sda3	8:3	0	20G	0	part	/usr/local
└─sda4	8:4	0	38G	0	part	/data
sdb	8:16	0	80G	0	disk	
sr0	11:0	1 1	1024M	0	rom	
[root@'	rencent64	[ ~]	# _			

修改根分区方法:

- 进入安装目录, 输入 tab 键, 进入 cmd 命令模式
- 在命令尾部追加 rootsize=40, 回车键完成修改, 即可调整根分区大小为 40GB

Install TencentOS Linux release 3
Install TencentOS Server 3 (TK4)(cdrom) Install TencentOS Server 3 (TK4)(usb) Rescue
<pre>&gt; vmlinuz initrd=initrd.img inst.stage2=hd:LABEL=Tlinux\x207\x20x86_64 net.ifn ames=0 biosdevname=0 osname=tlinux-64bit-v3.1.20210106 installmethod=cdrom qui et rootsize=40_</pre>

可以看到系统根分区已经调整成为 40GB。 注:如果希望只有一个分区,可以设置 rootsize=max

				_		
[root@	FENCENT64	1~]	# lsb	lk		
NAME	MAJ:MIN	RM	SIZE	RO	TYPE	MOUNTPOINT
sda	8:0	0	80G	0	disk	
—sda1	8:1	0	40G	0	part	/
—sda2	8:2	0	2G	0	part	[SWAP]
—sda3	8:3	0	20G	0	part	/usr/local
└_sda4	8:4	0	18G	0	part	/data
sdb	8:16	0	80G	0	disk	
srØ	11:0	1	1024M	0	rom	
[root@'	rencent64	1~]	#			

#### 6、选择安装路径

TencentOS 支持选择安装路径,在服务器存在多个硬盘时,可以选择安装到制定硬盘中。

- 进入安装后,短暂等待,当出现提示时,按任意键即可进入安装选择
- 如果不进行操作,则会在 10s 后自动安装到 sda 盘中
- 按下任意键后,出现如图硬盘选择
- 输入 sda,系统将会安装到指定 sda 盘中
- 选择指定硬盘后,系统将自动分区,安装系统镜像

done mounting /dev/pts (unix98 pty) filesystem... done mounting /sys filesystem... done trying to remount root filesystem read write... done mounting /tmp as tmpfs... done exec of /sbin/dbus-daemon failed.running install... running /sbin/loader Starting udev: Enter installation mode Linux localhost.localdomain 4.14.105-19-0018 #1 SMP Thu Dec 3 09:59:51 CST 2020 x86\_64 x86\_64 x86\_64 GNU/Linux Welcome to tlinux 1.2 64bit for initrd.img Version 1.2 20201215 pxe Do you want to select the disk to install Tlinux? [Press any key to continue]^[[ NAME MAJ:MIN RM SIZE RO TYPE MOUNTPOINT sdb 8:16 0 80G 0 disk 11:0 1 947.9M 0 rom sr0 80G 0 disk 8:0 0 sda Which disk do you want to install Tlinux(for example:sda):

系统自动安装图例

Stride=0 blocks, Stripe width=0 blocks 2493680 inodes, 9963008 blocks 498150 blocks (5.00%) reserved for the super user First data block=0 Maximum filesystem blocks=4294967296 305 block groups 32768 blocks per group, 32768 fragments per group 8176 inodes per group Superblock backups stored on blocks: 32768, 98304, 163840, 229376, 294912, 819200, 884736, 1605632, 2654208, 4096000, 7962624 Allocating group tables: done Writing inode tables: done Creating journal (32768 blocks): done Writing superblocks and filesystem accounting information: done Disk format /dev/sda4 done Label start Label done Unsquashfs start Parallel unsquashfs: Using 1 processor 76776 inodes (76816 blocks) to write [================; 1 20500/76816 26%

#### 7、修改用户密码

注: OC 版本不需要考虑修改 root 密码。

系统安装后需要强制用户修改密码,修改方式见下图。Tencent OS Server 支持密码强度检测。如果三次重复输入错误,则需要重新设置密码。

input root password: confirm your root password: New password: Retype new password: Password has been already used. Choose anothe passwd: Have exhausted maximum number of retries for service Changing password for user root. IAD PASSWORD: Your password cannot be use! input root password: confirm your root password: arning: not matched! confirm your root password: Warning: not matched! confirm your root password: Crror: password retry over 3 times, please try again! input root password: confirm your root password: New password: Retype new password: Changing password for user root. passwd: all authentication tokens updated successfully. set root password succuss change passwd for root mkinitrd, waiting

8、完成安装

系统完成安装后会出现图中所示字样,只需重启后即可完成安装。



输入 reboot -f 后,正常启动,可以看到系统目录中出现 TencentOS Server。



#### 9、如何登陆

完成安装系统后,进入到登陆界面。 登陆用户:root

镜像与密码对应关系: tlinux\_2.4\_for\_x86\_64\_20xxxxx.iso tlinux-for-aarch64-efi-v2.4.20xxxxxx.iso

Tlinux2019++ Tlinux2019++ 

 tlinux\_2.4\_for\_x86\_64\_2020xxxx\_OC.iso
 Tcdn@2007

 TencentOS-Server-2.4-for-x86\_64-TK3/TK4-20xxxxx.iso
 before 20210303: Tlinux2019++

 TencentOS-Server-2.4-for-x86\_64-TK3/TK4-20xxxxx.iso
 after20210303: TencentOS2021++

 TencentOS-Server-3.1-for-x86\_64-TK4-202xxxxx.iso
 before 20210303: Tlinux2019++

 TencentOS-Server-3.1-for-x86\_64-TK4-202xxxxx.iso
 after20210303: Tlinux2019++

 TencentOS-Server-3.1-for-x86\_64-TK4-202xxxxx.iso
 after20210303: Tlinux2019++

TencentOS Server 3.1 (Final) Kernel 5.4.32-19-0003 on an x86\_64 TENCENT64 login: root Password: Welcome to TencentOS Server 3 64bit Version 3.1 20210106 Eroot@TENCENT64 ~1#

附录:

TencentOS public 版本介绍:

- OC: 腾讯公司 OC 海外机房专用版本,不具备指定安装硬盘功能以及安装过程修改密 码功能。
- TCE: TCE 专供镜像。
- TSTACK: TSTACK 安装镜像, 具备指定硬盘安装功能, 不具备密码修改功能。
- 第三方公司镜像:OC 版已经全面取代 centos 作为机房安装主要镜像。
- Public:可指定安装硬盘功能,安装过程可修改密码。

**English Version** 

### TencentOS Server Installation Guide

### 1. Introduce

TencentOS Server is an independent researched operation system by Tencent. It adds softwares researched by Tencent to users convenient. The System provides secure, convenient, stable, long term support. This guide suits for TencentOS Server 2.4 and TencentOS Server 3.1 releases.



# 2. Require

Before installing TencentOS Server, your server hardware must be checked.

- The server connect with a stable power.
- Leave at least 80GB hardware size, 4GB memory.
- Get images CD/DVD, or an images USB drive.
- Please backup hard disks data at first.
- Image url: <u>https://mirrors.tencent.com/tencentos/3.1/iso/x86\_64/</u>

# 3. CD/DVD

- Insert CD/DVD, choose CDROM method from BIOS.
- At installation list page, choose the first category with **cdrom**.



### 4. USB drive

- Use UltralSO software write ISO images into USB Drive
- Insert USB, start server from BIOS USB drive.
- At installation list page, choose the second category with **use**.



### 5. Resize root partition size

TencentOS Server default root partition is 20GB, SWAP partition is 20GB.

If hard disk size is 80GB, the partition will be like this picture.

[root@]	<b>TENCENT64</b>	<b>1</b> ~]	# lsbl	l k		
NAME	MAJ:MIN	RM	SIZE	RO	TYPE	MOUNTPOINT
sda	8:0	0	80G	0	disk	
⊢sda1	8:1	0	20G	0	part	/
—sda2	8:2	0	2G	0	part	[SWAP]
—sda3	8:3	0	20G	0	part	/usr/local
∟sda4	8:4	0	38G	0	part	∕data
sdb	8:16	0	80G	0	disk	
sr0	11:0	1	1024M	0	rom	
[root@]	TENCENT64	ŧ~]	# _			

Resize partition method:

- At installation list page, input TAB key,
- Add rootsize=40 at the end of commands

Install TencentOS Linux release 3
Install TencentOS Server 3 (TK4)(cdrom) Install TencentOS Server 3 (TK4)(usb) Rescue
> vmlinuz initrd=initrd.img inst.stage2=hd:LABEL=Tlinux\x207\x20x86_64 net.ifn ames=0 biosdevname=0 osname=tlinux-64bit-v3.1.20210106 installmethod=cdrom qui et rootsize=40_
After installation process, the root partition size becomes 40GB.
[root@TENCENT64 ~]# lsblk NAME MAJ:MIN RM SIZE RO TYPE MOUNTPOINT sda 8:0 0 80G 0 disk

NHME	MHJ:MIN	КП	SIZE	КU	ITTE	MUUNIPUINI		
sda	8:0	0	80G	0	disk			
—sda1	8:1	0	40G	0	part	1		
—sda2	8:2	0	2G	0	part	[SWAP]		
—sda3	8:3	0	20G	0	part	∕usr/local		
∟sda4	8:4	0	18G	0	part	∕data		
sdb	8:16	0	80G	0	disk			
srØ	11:0	1	1024M	0	rom			
[root@'	rencent64	4 ~	]#					

### 6. Choose install directory

TencentOS supports choose install path. If server exists more than one disks, user could install OS into different disks.

- Start installation, wait a few seconds, when tips appears, press any keys to select installation path.
- If users doesn't do any operation, scripts will install OS into sda after 10 seconds.
- Press any key, user could start change installation.
- Input sda/sdb/sdc/sdd, scripts will install into specify disks.



#### 7. Modify root password

TencentOS installation process forces user changing root password. TencentOS support password strength.

```
input root password:
confirm your root password:
New password: Retype new password: Password has been already used. Choose anothe
passwd: Have exhausted maximum number of retries for service
Changing password for user root.
           ): Your password cannot be use!
input root password:
confirm your root password:
 arning: not matched!
confirm your root password:
Warning: not matched!
confirm your root password:
rror: password retry over 3 times, please try again!
input root password:
confirm your root password:
New password: Retype new password: Changing password for user root.
passwd: all authentication tokens updated successfully.
set root password succuss
change passwd for root
mkinitrd, waiting
```

#### 8. Finish installation

Finish installation, user need input "reboot -f".

```
eth1mac:
sed: can't read /mnt/harddisk/root//etc/sysconfig/network-scripts/ifcfg-eth1: No
such file or directory
sed: can't read /mnt/harddisk/root//etc/sysconfig/network-scripts/ifcfg-eth0: No
such file or directory
This Server has 1 NIC
configure network done
sshd ListenAddress start
cat: /mnt/harddisk/root//etc/sysconfig/network-scripts/ifcfg-eth1*: No such file
or directory
thlip is null, configure sshd done
Grub installation start
change passwd to Tlinux2019++
New password: Retype new password: Changing password for user root.
passwd: all authentication tokens updated successfully.
mkinitrd, waiting
mkinitrd done!
Generating grub configuration file ...
done
Installing for i386-pc platform.
Installation finished. No error reported.
Grub installation done
Installation finished
Please type 'reboot -f' to reboot from harddisk!
asn-4.1#
```

# 9. How to login

User: root

Password:

