

银河麒麟部署 Supernova

网测科技

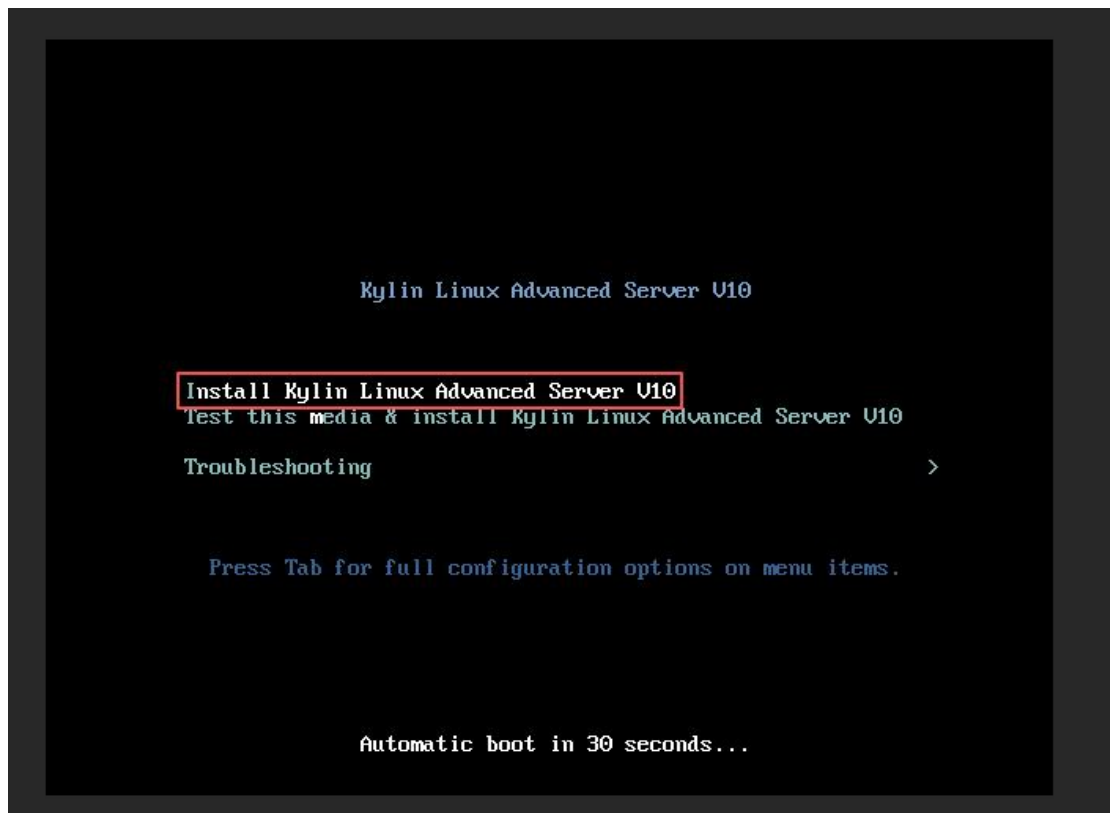
2025. 09. 11

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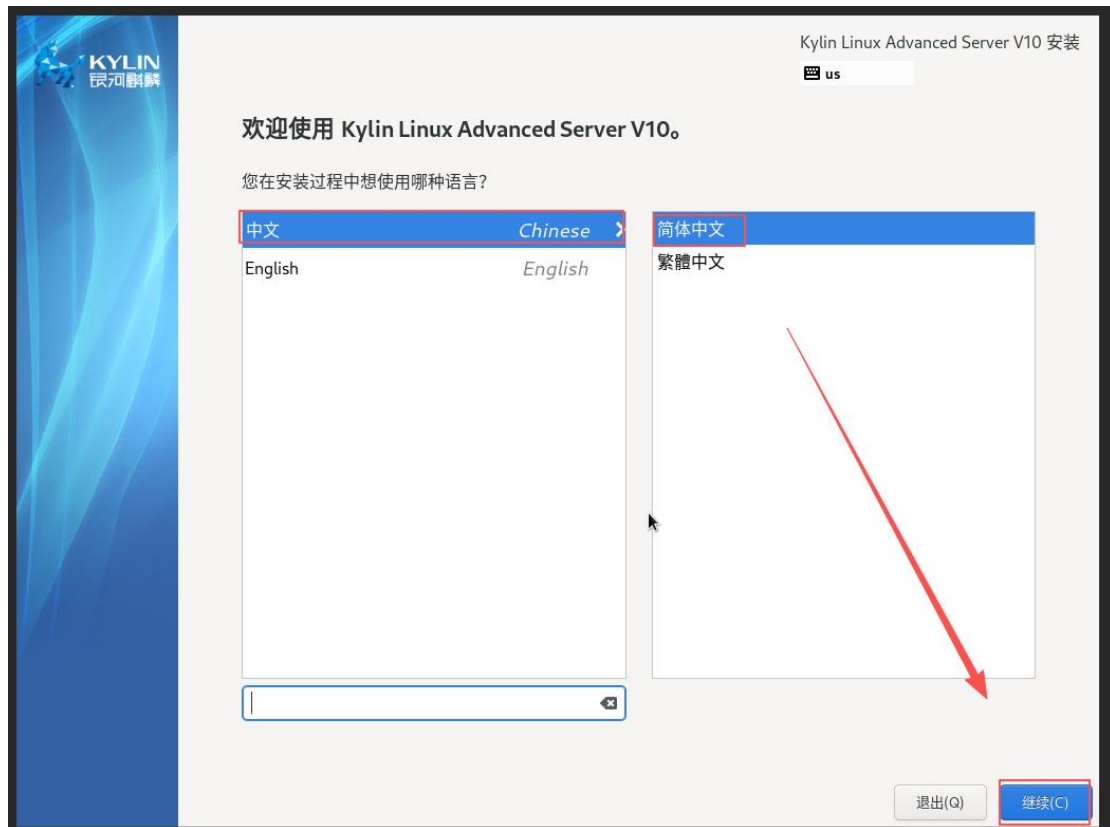
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1. 安装系统

1.1. 部署系统



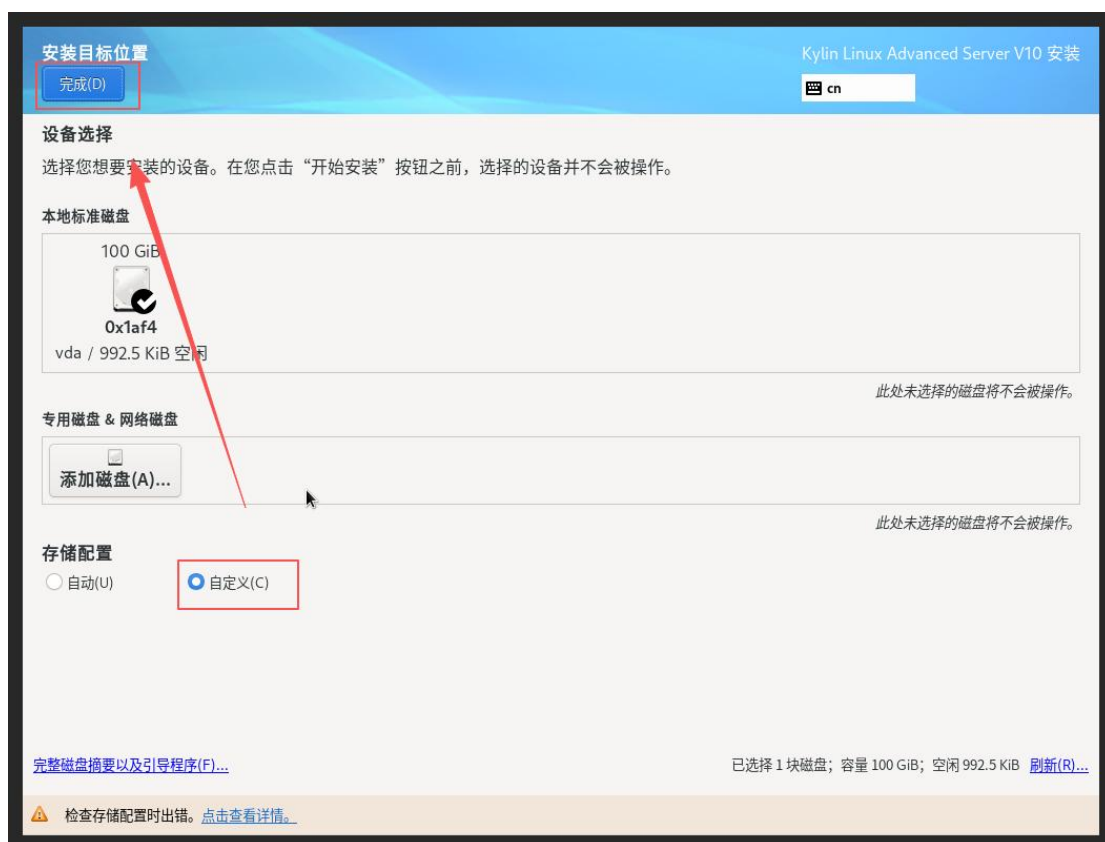
1.2. 选择中文语言

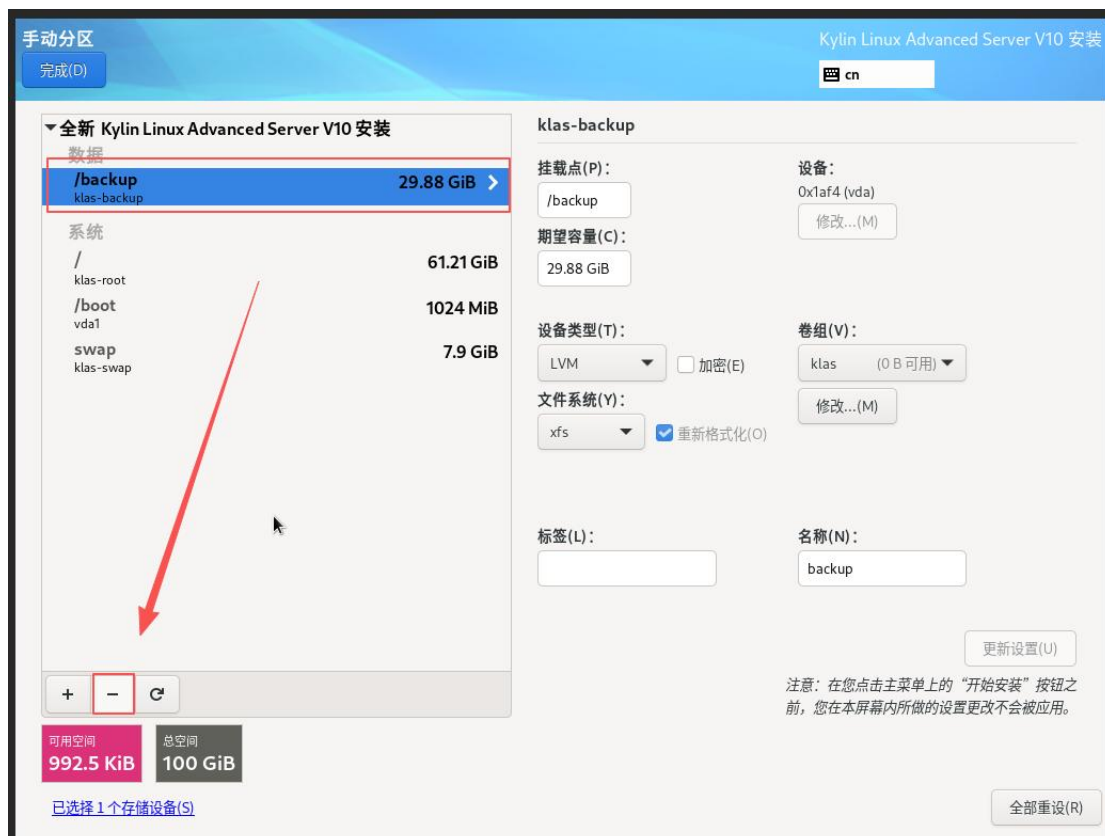
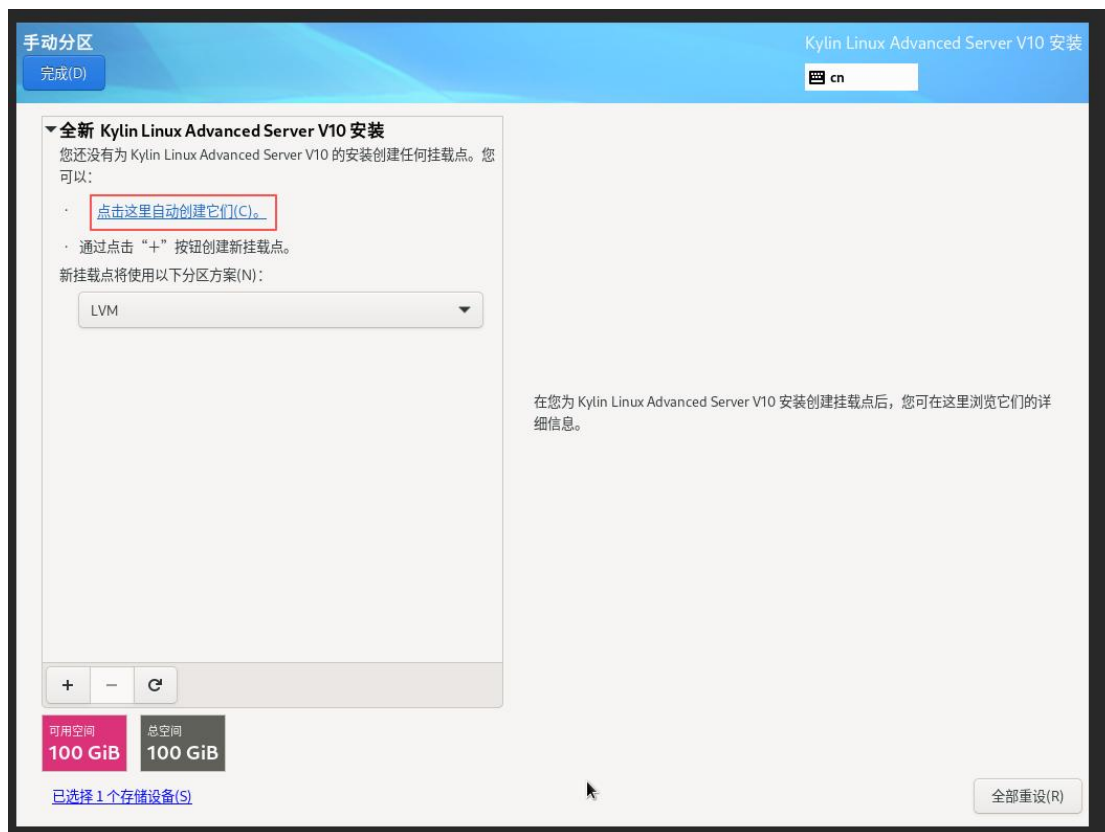


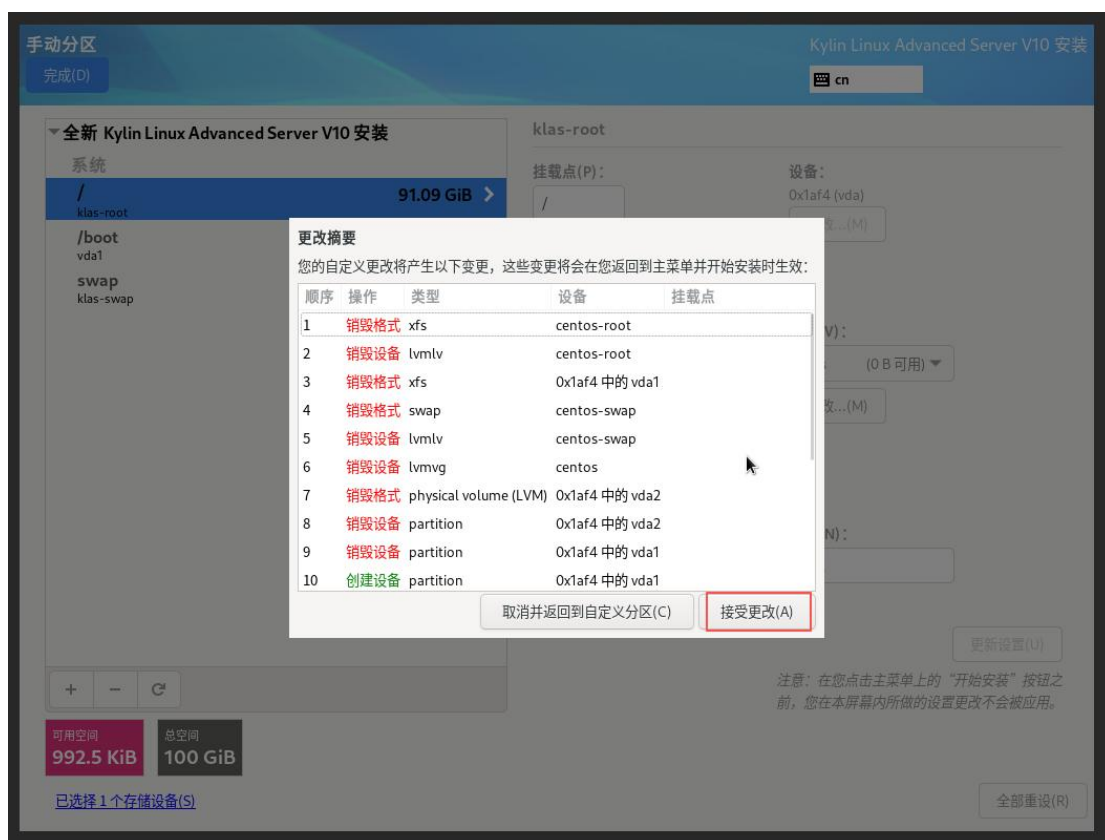
1.3. 软件选择默认为带 UKUI GUI 的服务器不变



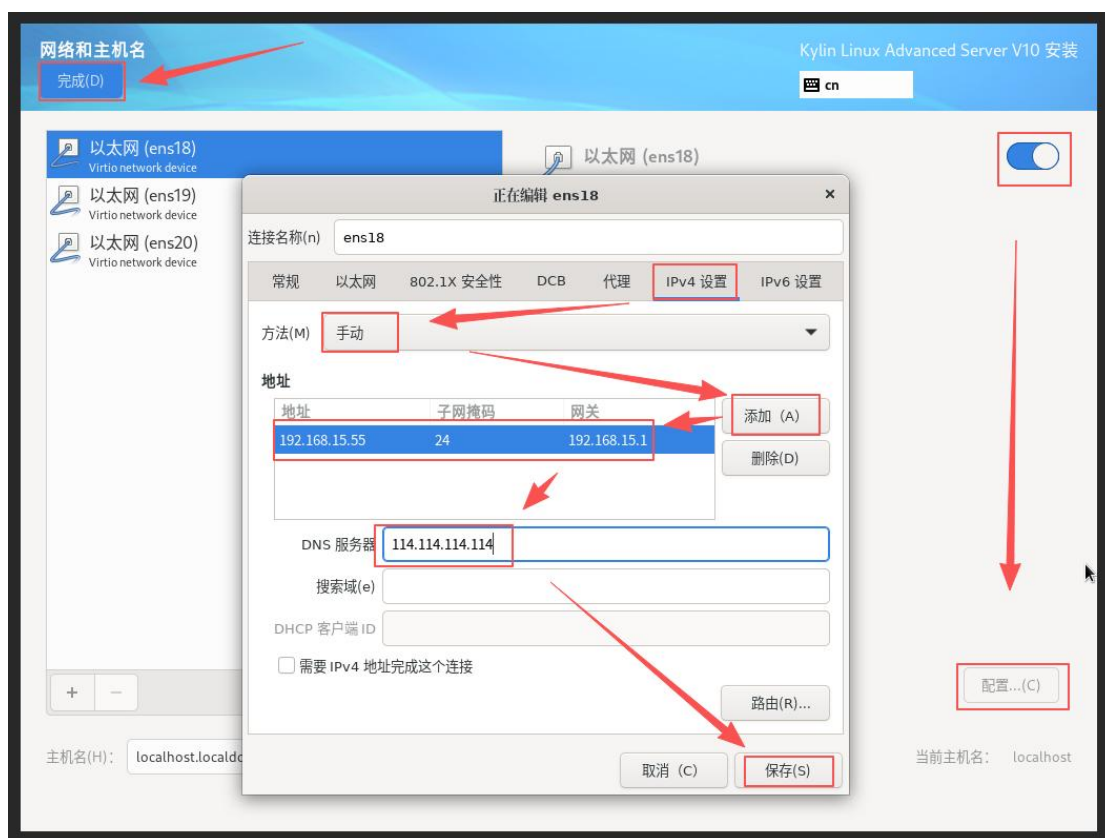
1.4. 修改存储配置



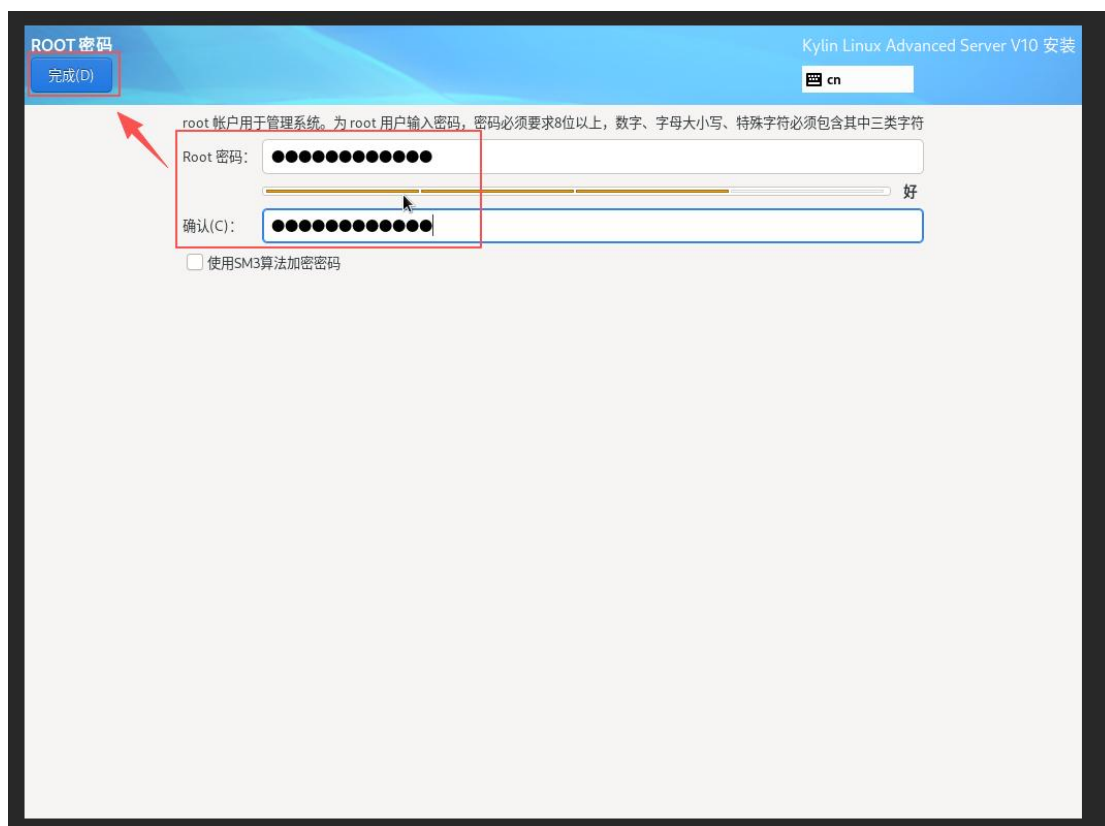
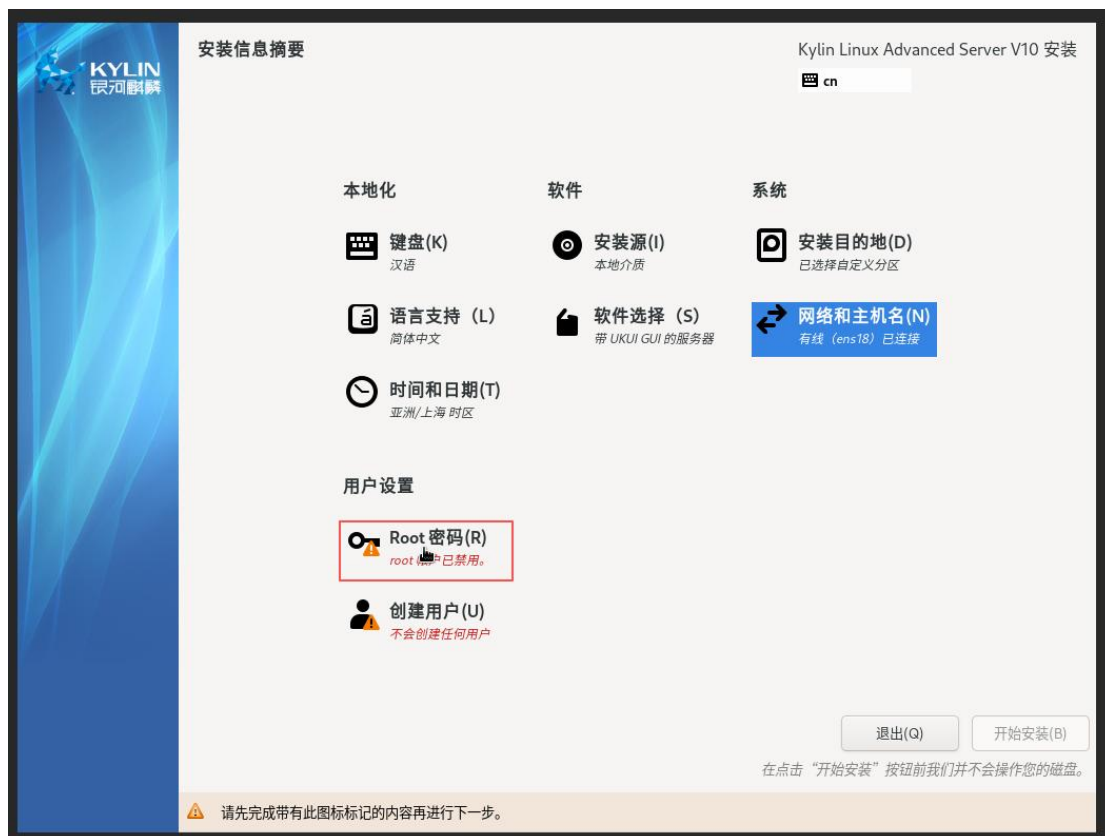




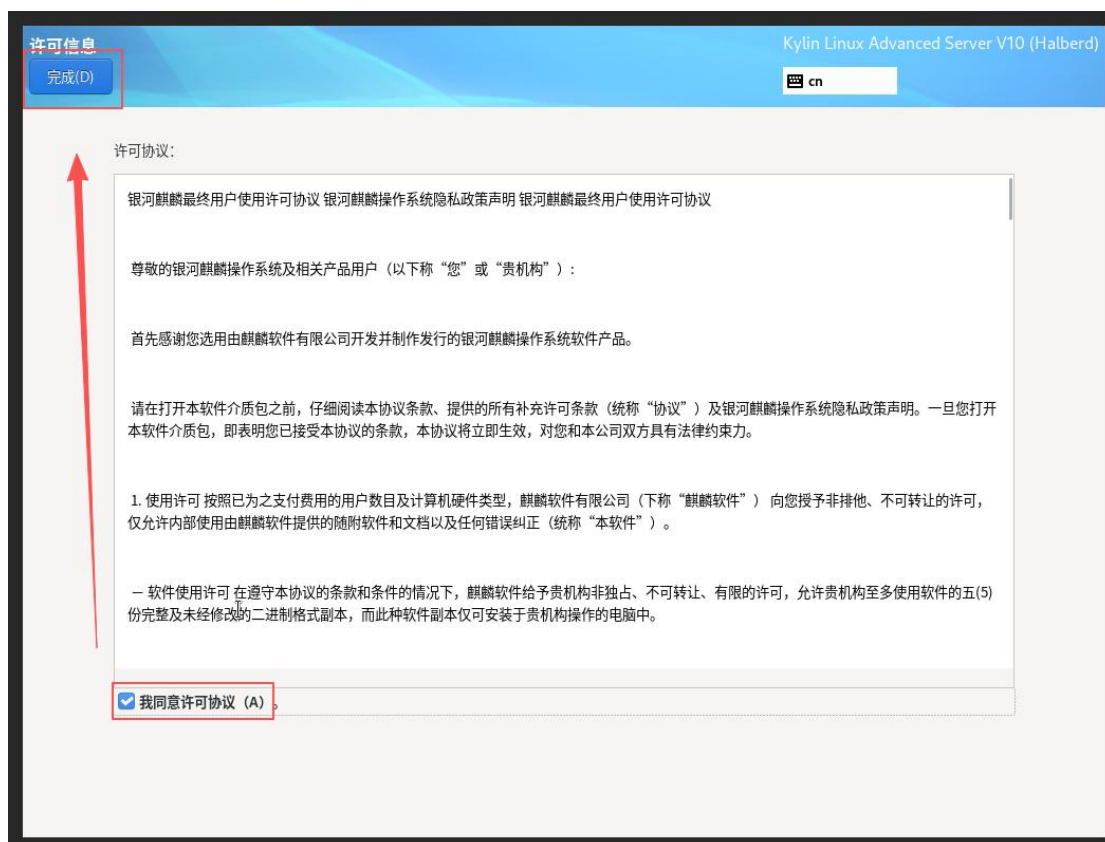
1.5. 修改网络配置



1.6. 开始安装并设置 root 用户密码







2. 安装依赖

2.1. 安装 lrzsz 并上传 Supernova 系统镜像

安装依赖 `yum install lrzsz -y`

```
[root@localhost ~]# yum install lrzsz -y
Last login: Thu Sep 11 11:15:33 2025
kylin Linux Advanced Server 10 - os
kylin Linux Advanced Server 10 - updates
Last metadata expiration check: 0:00:04 ago on 2025年09月11日 星期四 11时17分26秒.
Package lrzsz-0.12.20-46.ky10.x86_64 is already installed.
Dependencies resolved.
Nothing to do.
Complete!
[root@localhost ~]#
```

上传 Supernova 软件镜像

```
Authorized users only. All activities may be monitored and recorded.
Authorized users only. All activities may be monitored and recorded.
Activate the web console with: systemctl enable --now cockpit.socket

Last login: Thu Sep 11 11:15:33 2025
[root@localhost ~]# yum install lrzsz -y
kylin Linux Advanced Server 10 - os
kylin Linux Advanced Server 10 - updates
Last metadata expiration check: 0:00:04 ago on 2025年09月11日 星期四 11时17分26秒.
Package lrzsz-0.12.20-46.ky10.x86_64 is already installed.
Dependencies resolved.
Nothing to do.
Complete!
[root@localhost ~]# rz
rz waiting to receive.
Starting zmodem transfer. Press Ctrl+C to cancel.
```

Select Files to Send using Zmodem

Look in: chromeDownload

名称	修改日期
NOVA_VM_COS-HW01-v25.06.29-build5282-20250910-X86_64.img	2025/9/11 10:23
NOVA_VM_COS-HW01-v25.09.08-build5472-20250909-X86_64.img	2025/9/10 13:48
NOVA_VM_COS-HW01-v25.06.29-build5281-20250909-X86_64.img	2025/9/10 9:03
Software-v25.06.29-build5281-20250909-X86_64.npk	2025/9/10 8:49
NOVA_VM_CLD-HW01-v25.06.29-build5281-20250909-X86_64.img	2025/9/10 8:42
NOVA_VM_CLD-HW01-v25.06.29-build5280-20250909-X86_64.img	2025/9/10 8:35

File name:

Files of type: All Files (*.*)

Files to send: E:\chromeDownload\NOVA_VM_COS-HW01-v25.06.29-build5282-20250910-X86_64.img

☐ Upload files as ASCII

OK Cancel

```
[root@localhost ~]# rz
rz waiting to receive.
Starting zmodem transfer. Press Ctrl+C to cancel.
Transferring NOVA_VM_COS-HW01-v25.06.29-build5282-20250910-X86_64.img.linux.tgz...
100% 800804 KB 30800 KB/sec 00:00:26 0 Errors
```

2.2. 解压软件包并且更新所需依赖文件

```
[root@localhost ~]# tar xf NOVA_VM_COS-HW01-v25.06.29-build5282-20250910-X86_64.img.linux.tgz
[root@localhost ~]# cat README

Install Supernova on CentOS Linux System

1. Install following tools by yum
# yum -y install unzip wget net-tools qemu-img expect

2. Add all virtual network adapters, them will be initialized as mgmt1/port1/port2

3. Verify the OS charset must be 'zh_CN.UTF-8', 'echo $LANG' to check
(1) If OS not install 'zh_CN.UTF-8' charset
Run command: 'yum -y install kde-l10n-chinese'
(2) If 'echo $LANG' is not 'zh_CN.UTF-8'
Run command: 'localectl set-locales LANG=zh_CN.UTF-8'
(3) If (2) exec success, run 'reboot' to restart Linux

4. Run command: ./nova_install -i NOVA_VM_COS-HW01-v25.06.29-build5282-20250910-X86_64.img

Install Supernova on Ubuntu Linux System

1. Install following tools by apt.
# sudo apt -y install unzip wget net-tools qemu-utils expect ethtool

2. Add all virtual network adapters, them will be initialized as mgmt1/port1/port2

3. Verify the OS charset must be 'zh_CN.UTF-8', 'echo $LANG' to check
(1) If OS not install 'zh_CN.UTF-8' charset
Run command: 'sudo apt -y install language-pack-zh-hans'
(2) If 'echo $LANG' is not 'zh_CN.UTF-8'
Run command: 'sudo localectl set-locales LANG=zh_CN.UTF-8'
(3) If (2) exec success, run 'reboot' to restart Linux

4. Install Supernova image:
Root users run command: ./nova_install -i NOVA_VM_COS-HW01-v25.06.29-build5282-20250910-X86_64.img
Non-root users run command: ./nova_install -i NOVA_VM_COS-HW01-v25.06.29-build5282-20250910-X86_64.img -p [login-passwd]

[root@localhost ~]#
```

```
[root@localhost ~]# yum -y install unzip wget net-tools qemu-img expect
Last metadata expiration check: 0:02:16 ago on 2025-09-11 星期四 11时17分26秒.
Package unzip-6.8.ky10.x86_64 is already installed.
Package wget-1.20.3-3.ky10.x86_64 is already installed.
Package net-tools-2.0-0.36.ky10.x86_64 is already installed.
Package expect-1:5.45-4.5.ky10.x86_64 is already installed.
Dependencies resolved.
Package Architecure Version Repository Size
Installing:
qemu-img x86_64 2:4.1.0-64.p21.ky10 ks10-adv-updates 909 k
Upgrading:
wget x86_64 1.20.3-6.ky10 ks10-adv-updates 643 k
Transaction Summary
Install 1 Package
Upgrade 1 Package
Total download size: 1.5 M
Downloading Packages:
(1/2): wget-1.20.3-6.ky10.x86_64.rpm 2.7 MB/s | 643 kb 00:00
(2/2): qemu-img-4.1.0-64.p21.ky10.x86_64.rpm 3.5 MB/s | 909 kb 00:00
Total 1.7 MB/s | 1.5 MB 00:00
local
Kylin Linux Advanced Server 10 - Updates
Importing GPG key 0x7AD8699C:
Userid : "Heavenlin (release key) <support@cs2c.com.cn>"
Fingerprint: 8814 9668 5286 4583 CE41 1438 41F8 AEBE 7A48 609F
From : /etc/pki/rpm-gpg/RPM-GPG-KEY-kylin
Key imported successfully
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction:
Preparing :
Installing :
Upgrading :
Cleaning :
Verifying :
Upgraded:
wget-1.20.3-6.ky10.x86_64
Installed:
qemu-img-2:4.1.0-64.p21.ky10.x86_64
Complete!
[root@localhost ~]#
```

3. 安装 Supernova 系统

3.1. 安装 Supernova 系统

```
完毕!
[root@localhost ~]# ./nova_install_libc2.17_x86_64 -i NOVA_VM_COS-HW01-v25.06.29-build5282-20250910-x86_64.img
linux_os_version: 11i00000

Install Supernova image NOVA_VM_COS-HW01-v25.06.29-build5282-20250910-x86_64.img on CentOS7.7 System ...

Found following network interfaces from this system:
eth0(192.168.15.55/24),eth1,eth2,
Would you like add a interface to manage system? it will be rename as mgmt1 (y/n): y
Please input management interface name: eth0
Interface eth0, MAC address bc:24:11:f1:61:2e, Gateway will be rename as mgmt1
选择接口作为管理接口

Found following network interfaces from this system:
eth0(192.168.15.55/24),eth1,eth2,
Would you like add some interfaces to burst test traffic? it will be rename as port1/port2... (y/n): y
Please input traffic interface name: eth1,eth2
选择接口作为测试接口
Next we will rename traffic port by by input:
Interface eth1, MAC address bc:24:11:f3:ca:71 will be rename as port1
Interface eth2, MAC address bc:24:11:a0:a2:8b will be rename as port2

%20, Decrypt image ... Done
%40, Install ramdisk ... Done
%60, Install dhparam ... Done
%70, Install novacode ... Done
%80, Install toolkit ... Done
%90, Update grub config ... Hugepagesize: 2048 kB
Done
Cmd: grub2-mkconfig -o /boot/grub2/grub.cfg > /tmp/cmd.log 2>&1
%100, Install booter ... Done

System will be rebooted in 5 seconds
```

3.2. 等待重启完成后查看部署状态

查看 http 及 https 服务是否正常启动 `ps -ef|grep http`

```
Last login: Thu Sep 11 10:28:56 2025 from 192.168.16.130
[root@Supernova ~]#
[root@Supernova ~]#
[root@Supernova ~]# ps -ef | grep http
root      2621      1    0 10:38 ?        00:00:01 python3 flask_http_server.py
root      2623      1    0 10:38 ?        00:00:01 python3 flask_https_server.py
root      2643      1    0 10:38 ?        00:00:00 sh -c source /etc/profile; /usr/bin/gunicorn -c gunicorn_http.conf.py flask_http_server:app
root      2644      1    0 10:38 ?        00:00:00 /usr/bin/python3 /usr/bin/gunicorn -c gunicorn_http.conf.py flask_http_server:app
root      2645      1    0 10:38 ?        00:00:00 sh -c source /etc/profile; /usr/bin/gunicorn -c gunicorn_https.conf.py flask_https_server:app
root      2646      1    0 10:38 ?        00:00:00 /usr/bin/python3 /usr/bin/gunicorn -c gunicorn_https.conf.py flask_https_server:app
root      2651      1    0 10:38 ?        00:00:01 /usr/bin/python3 /usr/bin/gunicorn -c gunicorn_http.conf.py flask_http_server:app
root      2656      1    0 10:38 ?        00:00:01 /usr/bin/python3 /usr/bin/gunicorn -c gunicorn_https.conf.py flask_https_server:app
root      2657      1    0 10:38 ?        00:00:01 /usr/bin/python3 /usr/bin/gunicorn -c gunicorn_https.conf.py flask_https_server:app
root      2658      1    0 10:38 ?        00:00:01 /usr/bin/python3 /usr/bin/gunicorn -c gunicorn_http.conf.py flask_http_server:app
root      2659      1    0 10:38 ?        00:00:01 /usr/bin/python3 /usr/bin/gunicorn -c gunicorn_http.conf.py flask_http_server:app
root      2660      1    0 10:38 ?        00:00:01 /usr/bin/python3 /usr/bin/gunicorn -c gunicorn_https.conf.py flask_https_server:app
root      2663      1    0 10:38 ?        00:00:01 /usr/bin/python3 /usr/bin/gunicorn -c gunicorn_https.conf.py flask_https_server:app
root      2671      1    0 10:38 ?        00:00:01 /usr/bin/python3 /usr/bin/gunicorn -c gunicorn_http.conf.py flask_http_server:app
root      2775      1    0 10:40 pts/1    00:00:00 grep --color=auto http
[root@Supernova ~]#
```

输入管理 ip 地址登陆界面默认用户名/密码: admin/admin

