

Ubuntu22.04-desktop 部署 Supernova

网测科技

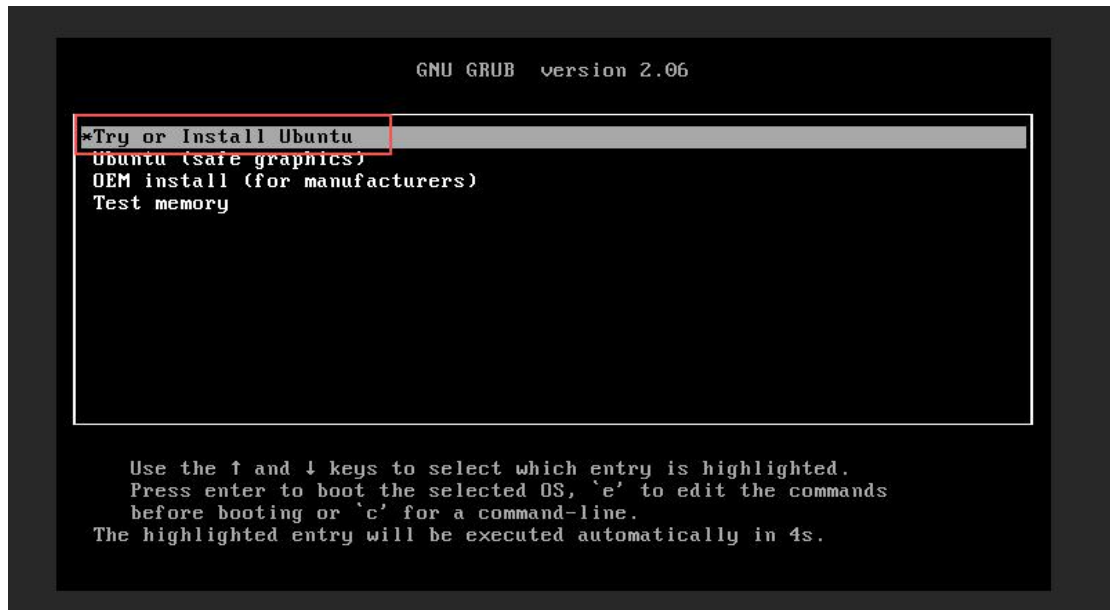
2025.09.11

目录

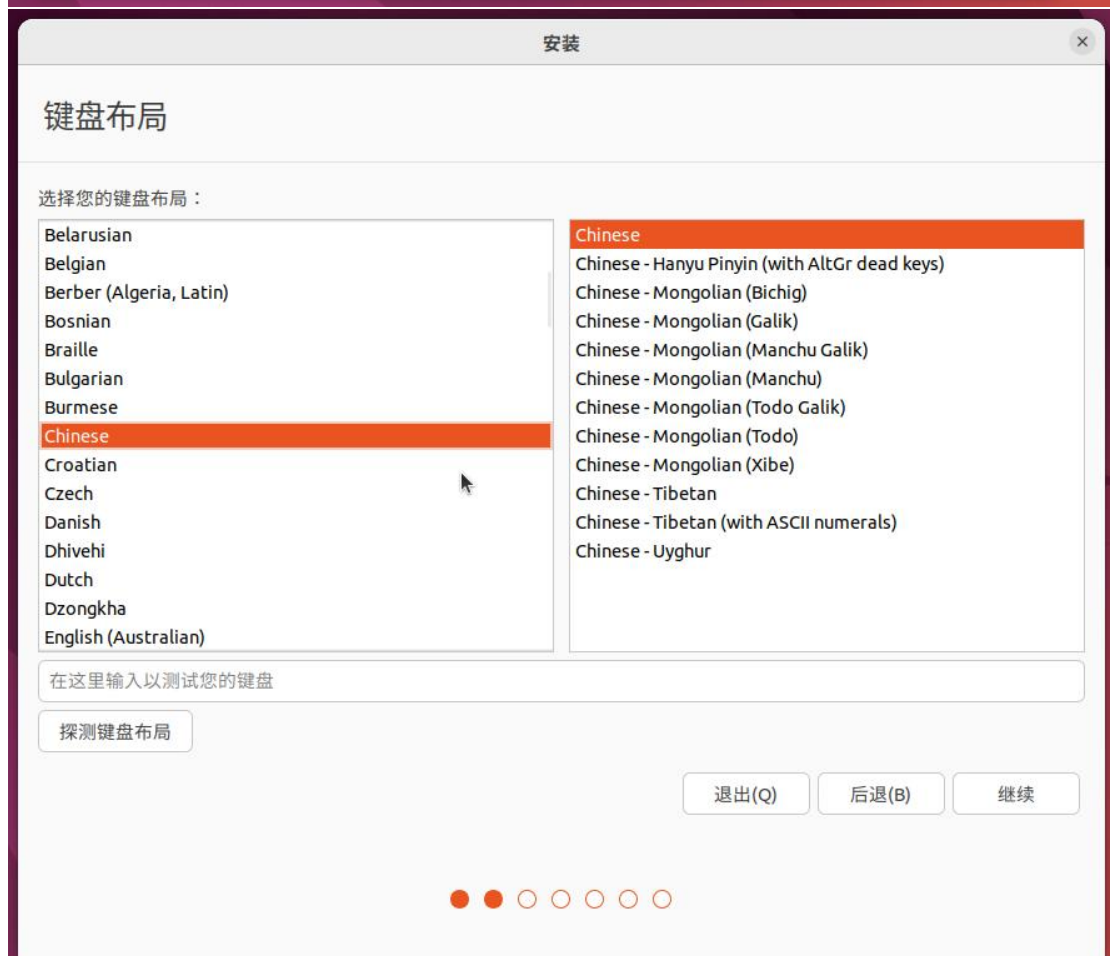
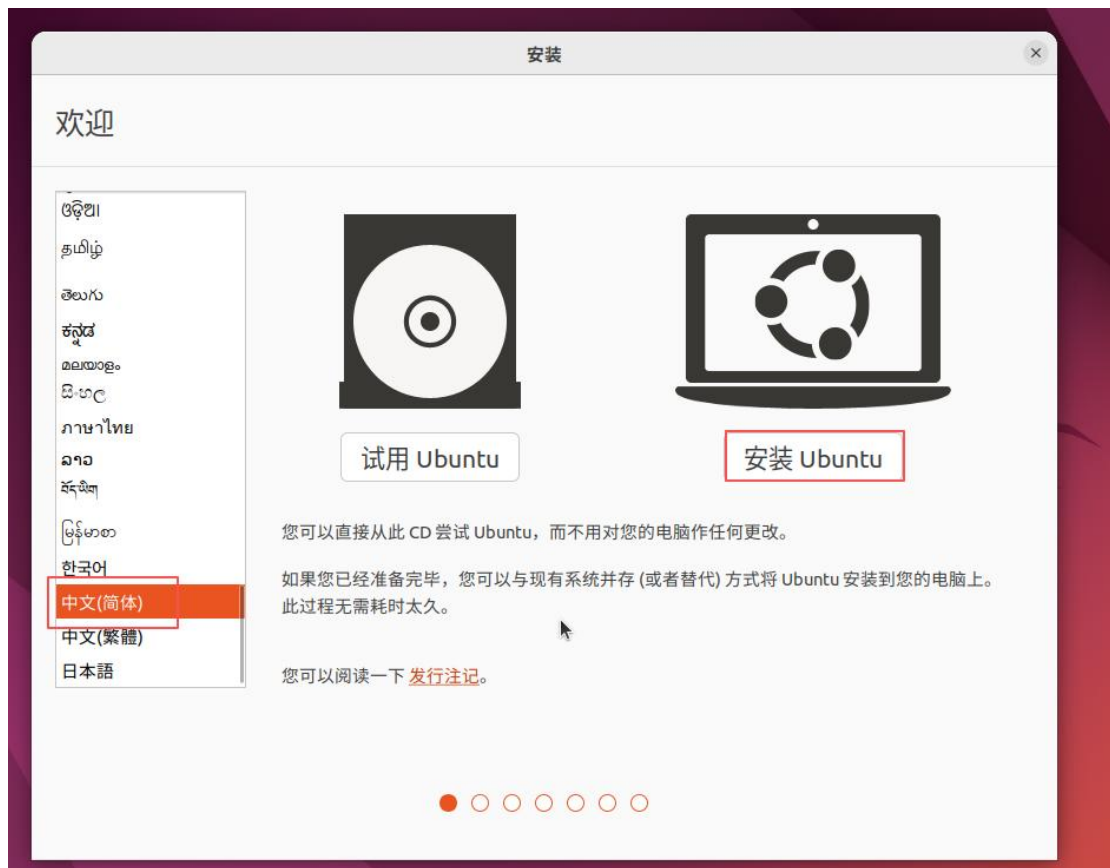
1. 安装系统	3
1.1. 部署系统	3
1.2. 选择语言	3
1.3. 选择正常安装并继续	5
1.4. 默认配置磁盘	5
1.5. 配置登录用户	8
1.6. 修改 root 用户密码并配置 SSH 权限	9
2. 安装依赖	10
2.1. 安装 lrzsz 并上传 Supernova 系统镜像	10
2.2. 解压软件包并且更新所需依赖文件	11
3. 安装 Supernova 系统	12
3.1. 安装 Supernova 系统	12
3.2. 重启完成后配置 IP 地址	12
3.3. 等待重启完成后查看部署状态	13

1. 安装系统

1.1. 部署系统



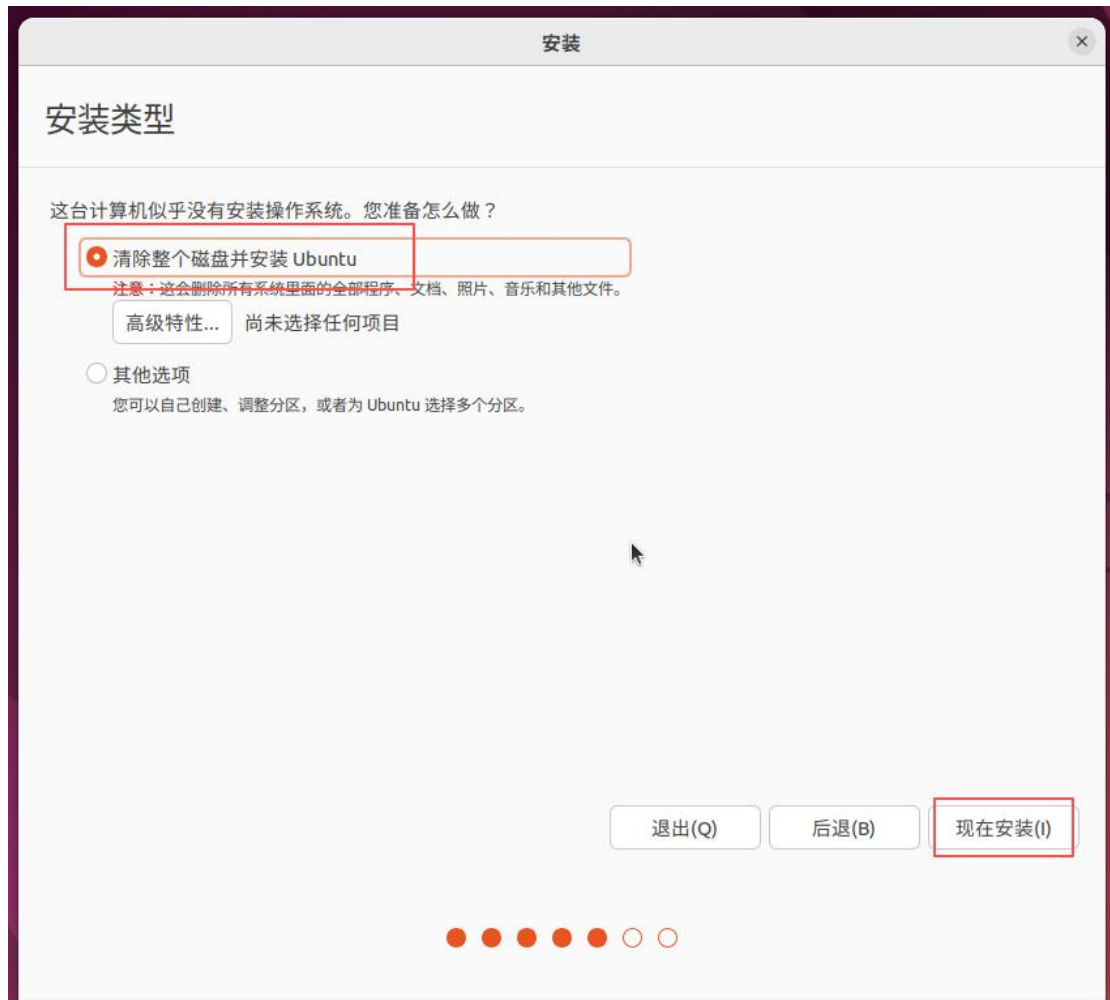
1.2. 选择语言

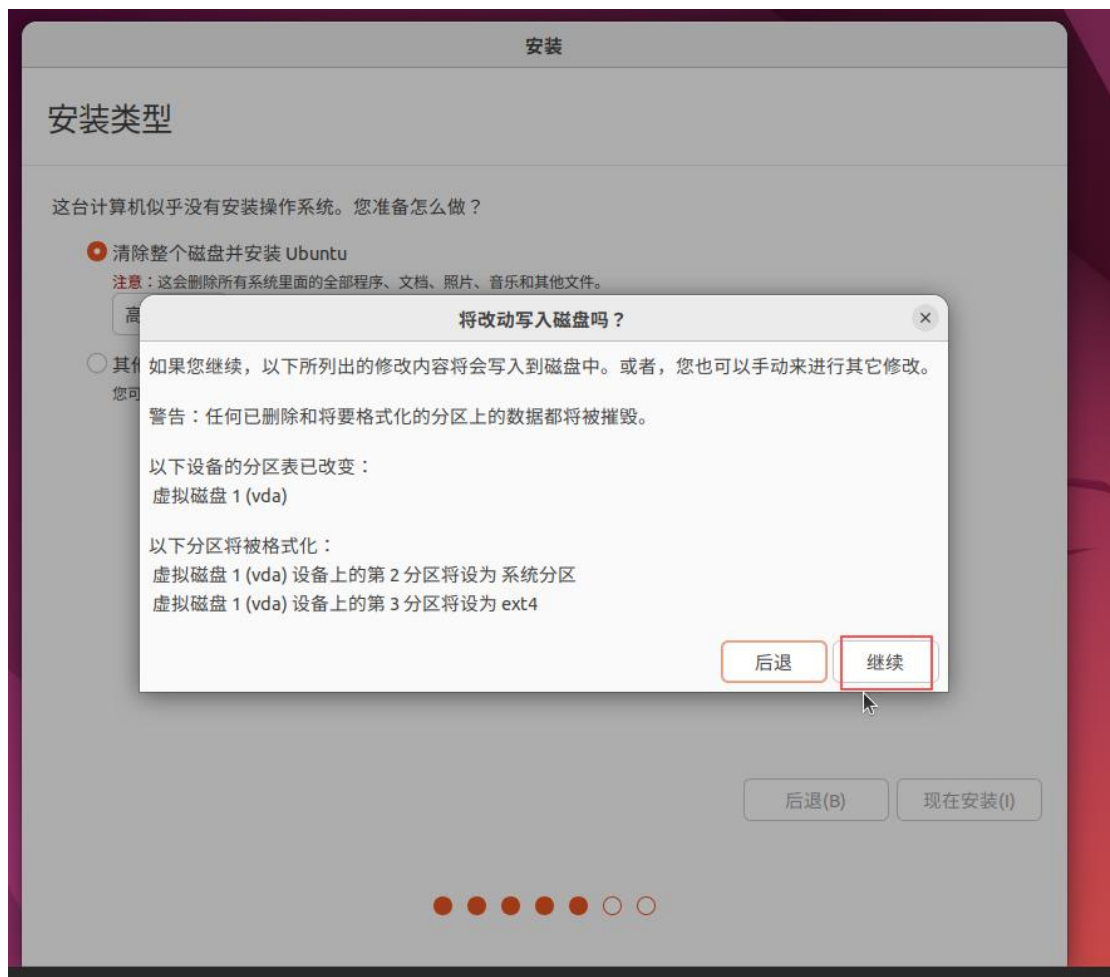


1. 3. 选择正常安装并继续



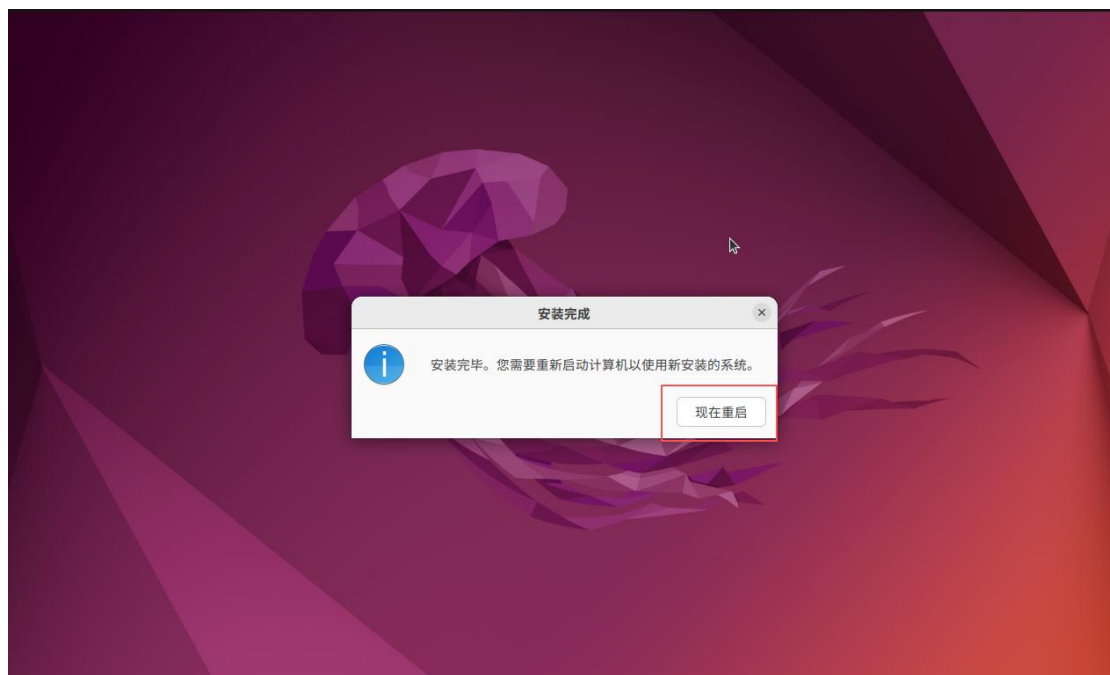
1. 4. 默认配置磁盘







1. 5. 配置登录用户



1.6. 修改 root 用户密码并配置 SSH 权限

```
test@test-Standard-PC-i440FX-PIIX-1996:~/桌面$ sudo -i
[sudo] test 的密码:
root@test-Standard-PC-i440FX-PIIX-1996:~# passwd
新的密码:
重新输入新的密码:
passwd: 已成功更新密码
root@test-Standard-PC-i440FX-PIIX-1996:~#
```

修改 ssh 配置文件 vi /etc/ssh/sshd_config

```
#ListenAddress 0.0.0.0
#ListenAddress ::

#HostKey /etc/ssh/ssh_host_rsa_key
#HostKey /etc/ssh/ssh_host_ecdsa_key
#HostKey /etc/ssh/ssh_host_ed25519_key

# Ciphers and keying
#RekeyLimit default none

# Logging
#SyslogFacility AUTH
#LogLevel INFO

# Authentication:

#LoginGraceTime 2m
PermitRootLogin yes
#StrictModes yes
#MaxAuthTries 6
#MaxSessions 10

#PubkeyAuthentication yes

:wq
```

重启 ssh 服务 systemctl restart ssh

2. 安装依赖

2.1. 安装 lrzsz 并上传 Supernova 系统镜像

安装依赖 apt install lrzsz -y

```
root@test:~# apt install lrzsz -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Suggested packages:
  minicom
The following NEW packages will be installed:
  lrzsz
0 upgraded, 1 newly installed, 0 to remove and 171 not upgraded.
Need to get 74.8 kB of archives.
After this operation, 531 kB of additional disk space will be used.
Ign:1 http://mirrors.tuna.tsinghua.edu.cn/ubuntu jammy/universe amd64 lrzsz amd64 0.12.21-10
Get:1 https://mirrors.aliyun.com/ubuntu jammy/universe amd64 lrzsz amd64 0.12.21-10 [74.8 kB]
Fetched 74.8 kB in 5s (14.5 kB/s)
Selecting previously unselected package lrzsz.
(Reading database ... 74666 files and directories currently installed.)
Preparing to unpack .../lrzsz_0.12.21-10_amd64.deb ...
Unpacking lrzsz (0.12.21-10) ...
Setting up lrzsz (0.12.21-10) ...
Processing triggers for man-db (2.10.2-1) ...
Scanning processes...
Scanning linux images...

Running kernel seems to be up-to-date.

No services need to be restarted.

No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
root@test:~#
```

上传 Supernova 软件镜像

```
root@test:~#
root@test:~#
root@test:~#
root@test:~#
root@test:~# apt install lrzsz -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Suggested packages:
  minicom
The following NEW packages will be installed:
  lrzsz
0 upgraded, 1 newly installed, 0 to remove and 171 not upgraded.
Need to get 74.8 kB of archives.
After this operation, 531 kB of additional disk space will be used.
Ign:1 http://mirrors.tuna.tsinghua.edu.cn/ubuntu jammy/universe amd64 lrzsz amd64 0.1
Fetched 74.8 kB in 5s (14.5 kB/s)
Selecting previously unselected package lrzsz.
(Reading database ... 74666 files and directories currently installed.)
Preparing to unpack .../lrzsz_0.12.21-10_amd64.deb ...
Unpacking lrzsz (0.12.21-10) ...
Setting up lrzsz (0.12.21-10) ...
Processing triggers for man-db (2.10.2-1) ...
Scanning processes...
Scanning linux images...

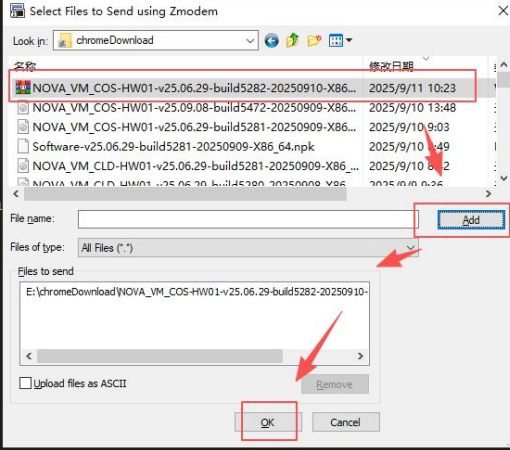
Running kernel seems to be up-to-date.

No services need to be restarted.

No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
root@test:~# 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 34817 KB/sec 00:00:23 0 Errors
root@test:~#
```



2.2. 解压软件包并且更新所需依赖文件

```

root@test:~# tar xf NOVA_VM_COS-HW01-v25.06.29-build5282-20250910-x86_64.img.linux.tgz
root@test:~# 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-locale 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-locale 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]

```

3. 安装 Supernova 系统

3.1. 安装 Supernova 系统

```

root@test:~# ./nova_install_libc2.17_x86_64 -i NOVA_VM_COS-HW01-v25.06.29-build5282-20250910-x86_64.img
linux_os_version: 11010000

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

would you like add a interface to manage system? it will be rename as mgmt (y/n): ens18(192.168.15.55/24),ens19,ens20,
Please input management interface name: ens18
Interface ens18, MAC address bc:24:11:f1:61:2e, Gateway , will be rename as mgmt1

Found following network interfaces from this system:
ens18(192.168.15.55/24),ens19,ens20,
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: ens19,ens20
Next we will rename traffic port by input:
Interface ens19, MAC address bc:24:11:f3:ca:71 will be rename as port1
Interface ens20, MAC address bc:24:11:a0:a2:8b will be rename as port2

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

System will be rebooted in 5 seconds

```

3.2. 重启完成后配置 IP 地址

vi /etc/netplan/01-network-manager-all.yaml

```

# Let NetworkManager manage all devices on this system
network:
  version: 2
  ethernet:
    mgmt1:
      addresses:
        - 192.168.15.55/24
      nameservers:
        addresses: [114.114.114.114]
      routes:
        - to: default
          via: 192.168.15.1

```

生效配置 netplan apply


```

root@Supernova:~# netplan apply
** (generate:3167): WARNING **: 15:15:50.456: Permissions for /etc/netplan/01-network-manager-all.yaml are too open. Netplan configuration should NOT be accessible by others.
WARNING:root:cannot call open vswitch: ovssdb-server.service is not running.
** (process:3165): WARNING **: 15:15:50.740: Permissions for /etc/netplan/01-network-manager-all.yaml are too open. Netplan configuration should NOT be accessible by others.
** (process:3165): WARNING **: 15:15:50.996: Permissions for /etc/netplan/01-network-manager-all.yaml are too open. Netplan configuration should NOT be accessible by others.
** (process:3165): WARNING **: 15:15:50.996: Permissions for /etc/netplan/01-network-manager-all.yaml are too open. Netplan configuration should NOT be accessible by others.
root@Supernova:~#

```

3.3. 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`

```

root@Supernova:~# ps -ef|grep http
root      1891      1      0 06:23 ?        00:00:01 python3 flask_http_server.py
root      1893      1      0 06:23 ?        00:00:01 python3 flask_https_server.py
root      1913    1891      0 06:23 ?        00:00:00 sh -c source /etc/profile; /usr/bin/gunicorn -c gunicorn_http.conf.py flask_http_server:app
root      1914    1913      0 06:23 ?        00:00:00 /usr/bin/python3 /usr/bin/gunicorn -c gunicorn_http.conf.py flask_http_server:app
root      1915    1893      0 06:23 ?        00:00:00 sh -c source /etc/profile; /usr/bin/gunicorn -c gunicorn_https.conf.py flask_https_server:app
root      1916    1915      0 06:23 ?        00:00:00 /usr/bin/python3 /usr/bin/gunicorn -c gunicorn_https.conf.py flask_https_server:app
root      1921    1914      0 06:23 ?        00:00:00 /usr/bin/python3 /usr/bin/gunicorn -c gunicorn_http.conf.py flask_http_server:app
root      1926    1916      0 06:23 ?        00:00:00 /usr/bin/python3 /usr/bin/gunicorn -c gunicorn_https.conf.py flask_https_server:app
root      1927    1916      0 06:23 ?        00:00:00 /usr/bin/python3 /usr/bin/gunicorn -c gunicorn_https.conf.py flask_https_server:app
root      1928    1916      0 06:23 ?        00:00:00 /usr/bin/python3 /usr/bin/gunicorn -c gunicorn_https.conf.py flask_https_server:app
root      1929    1914      0 06:23 ?        00:00:00 /usr/bin/python3 /usr/bin/gunicorn -c gunicorn_http.conf.py flask_http_server:app
root      1932    1914      0 06:23 ?        00:00:00 /usr/bin/python3 /usr/bin/gunicorn -c gunicorn_http.conf.py flask_http_server:app
root      1933    1916      0 06:23 ?        00:00:00 /usr/bin/python3 /usr/bin/gunicorn -c gunicorn_https.conf.py flask_https_server:app
root      1940    1914      0 06:23 ?        00:00:00 /usr/bin/python3 /usr/bin/gunicorn -c gunicorn_https.conf.py flask_https_server:app
root      2110    2098      0 06:24 pts/0    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

