

Centos7.9 部署 Supernova

网测科技

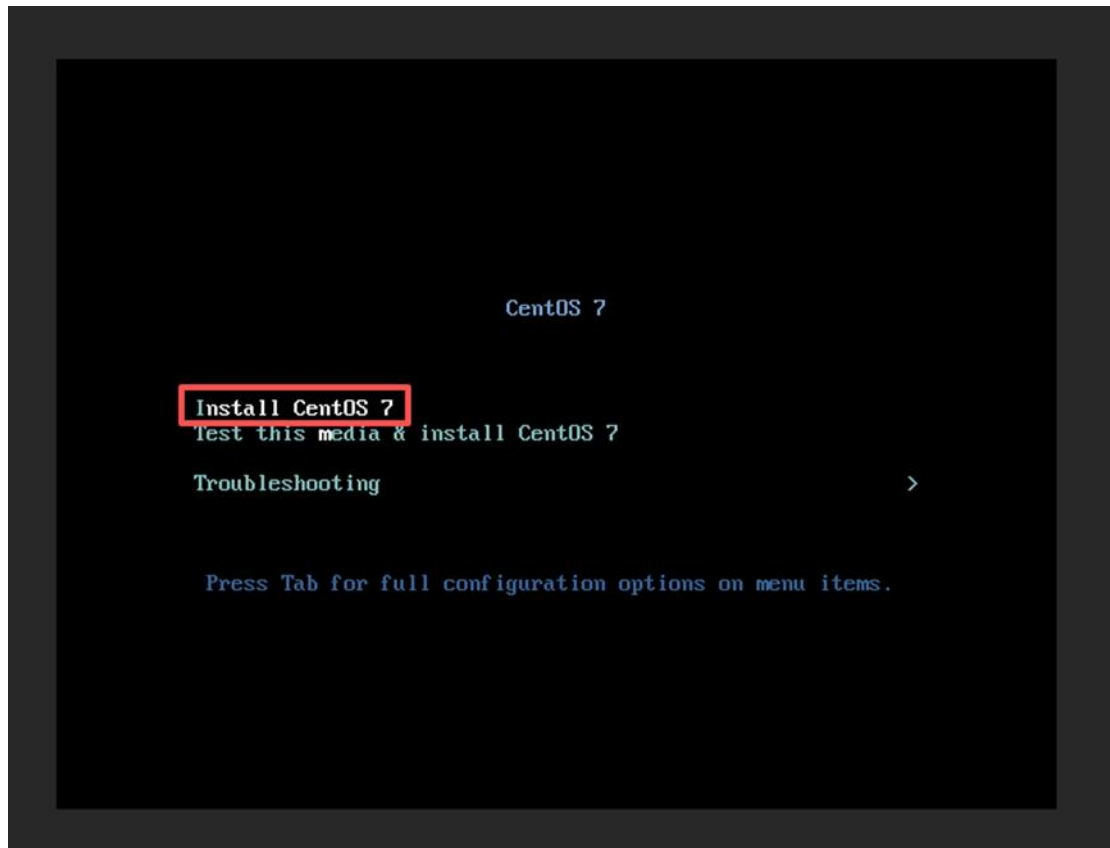
2025.09.11

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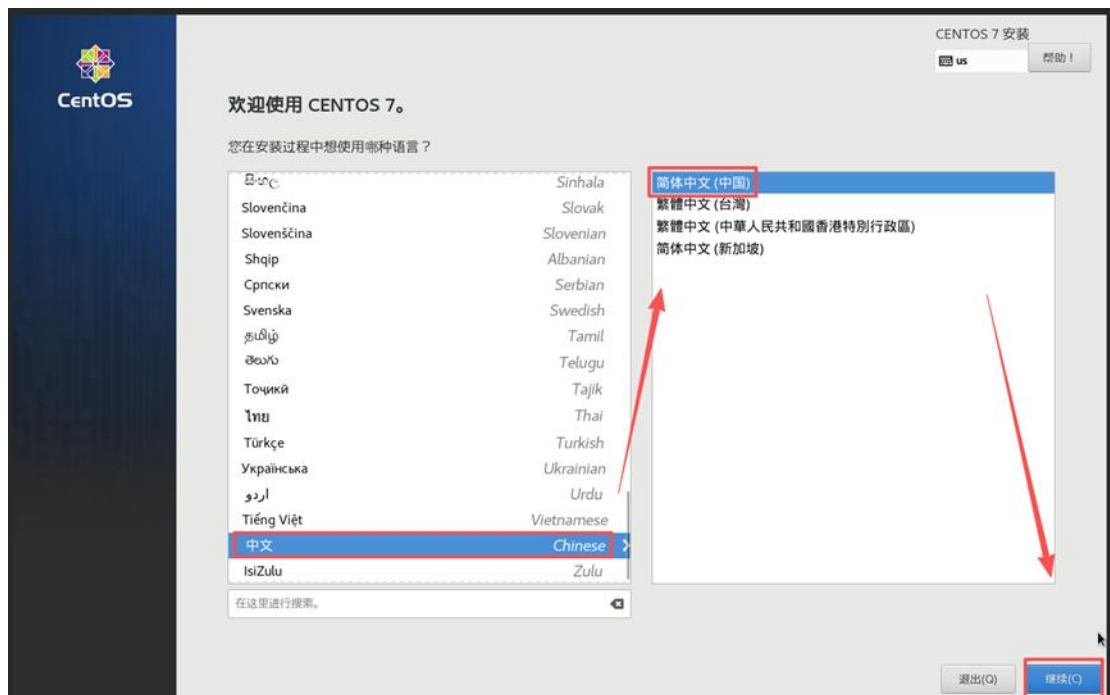
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1. 安装系统

1.1. 部署系统



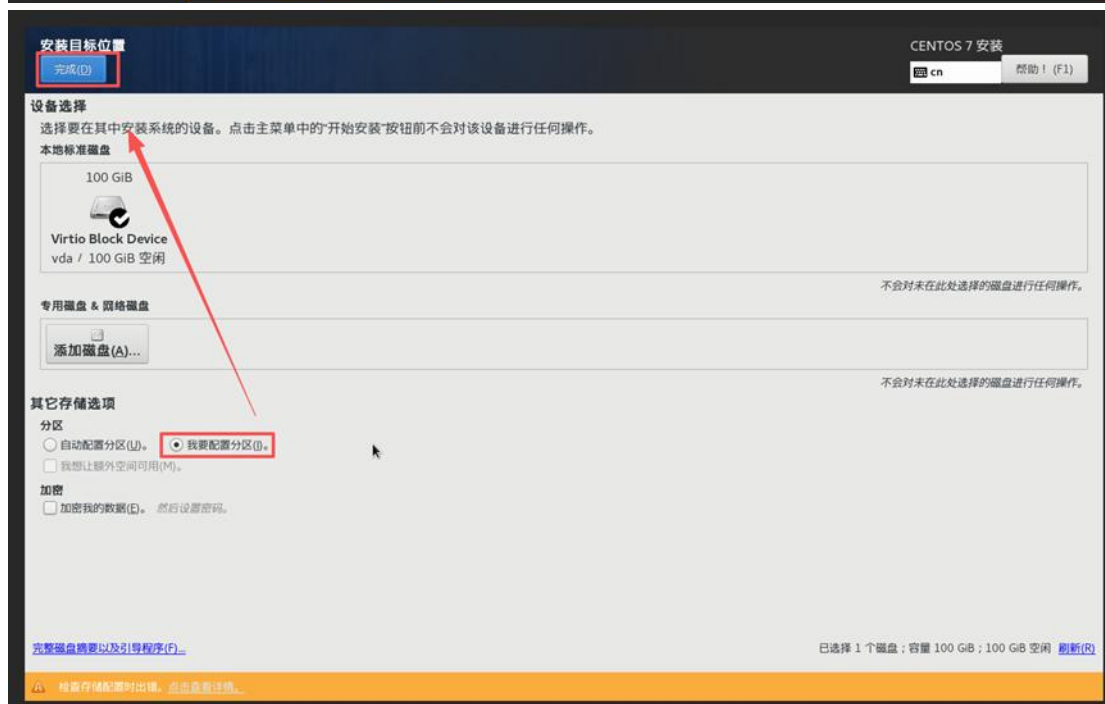
1.2. 选择中文语言

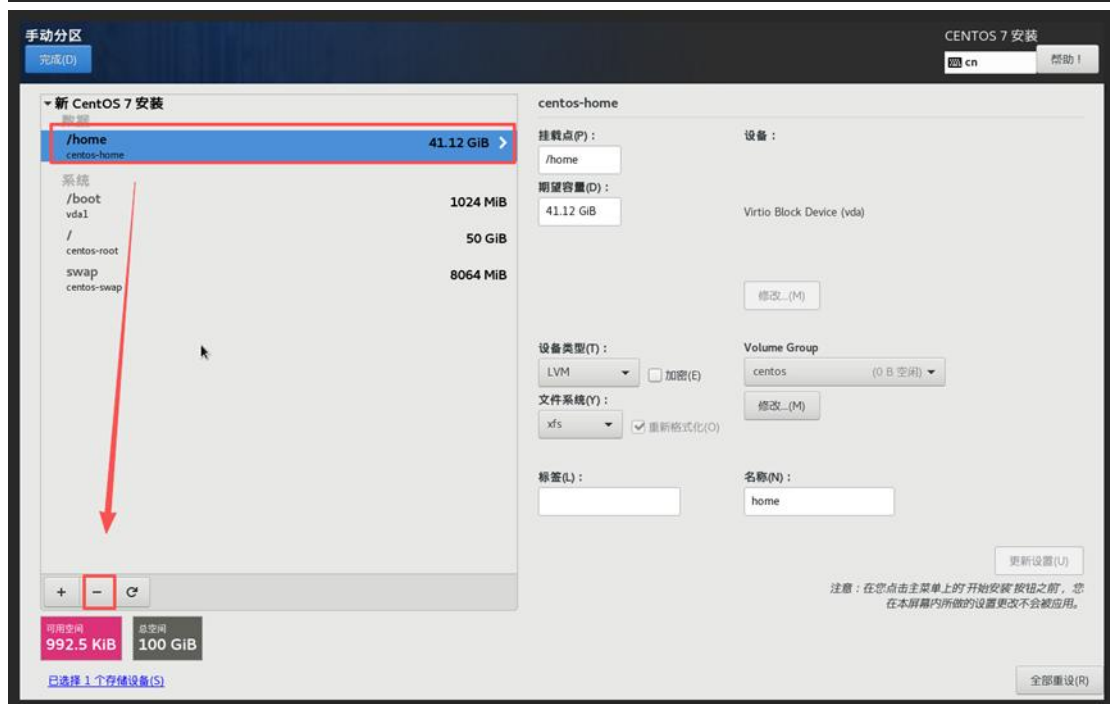
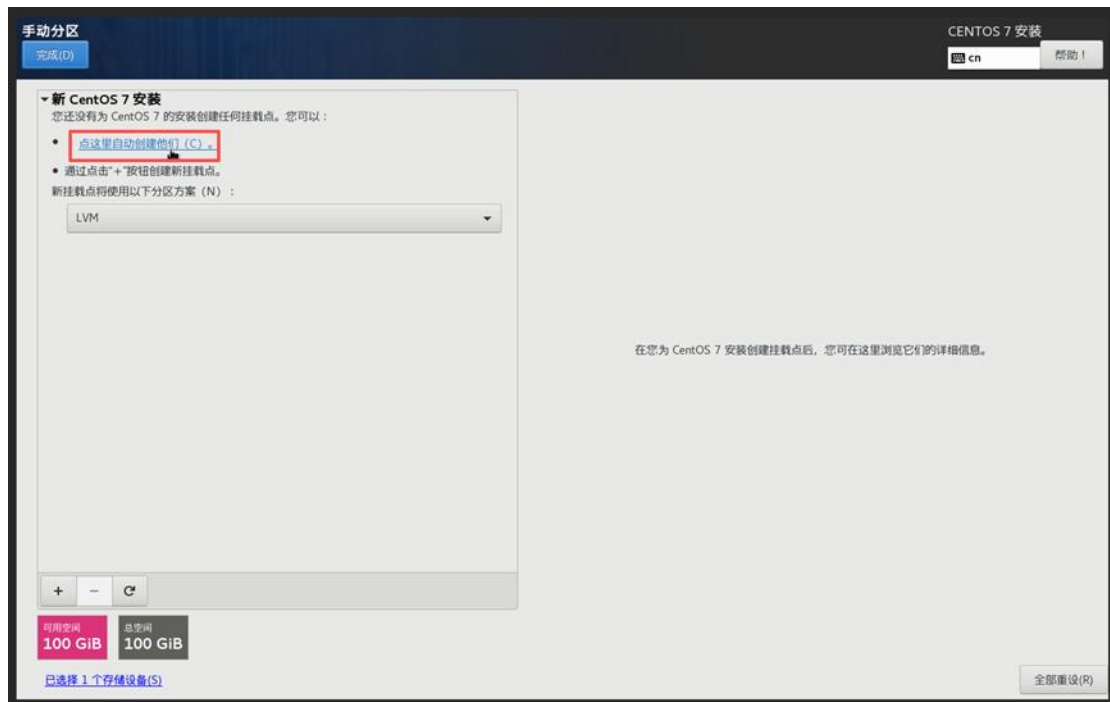


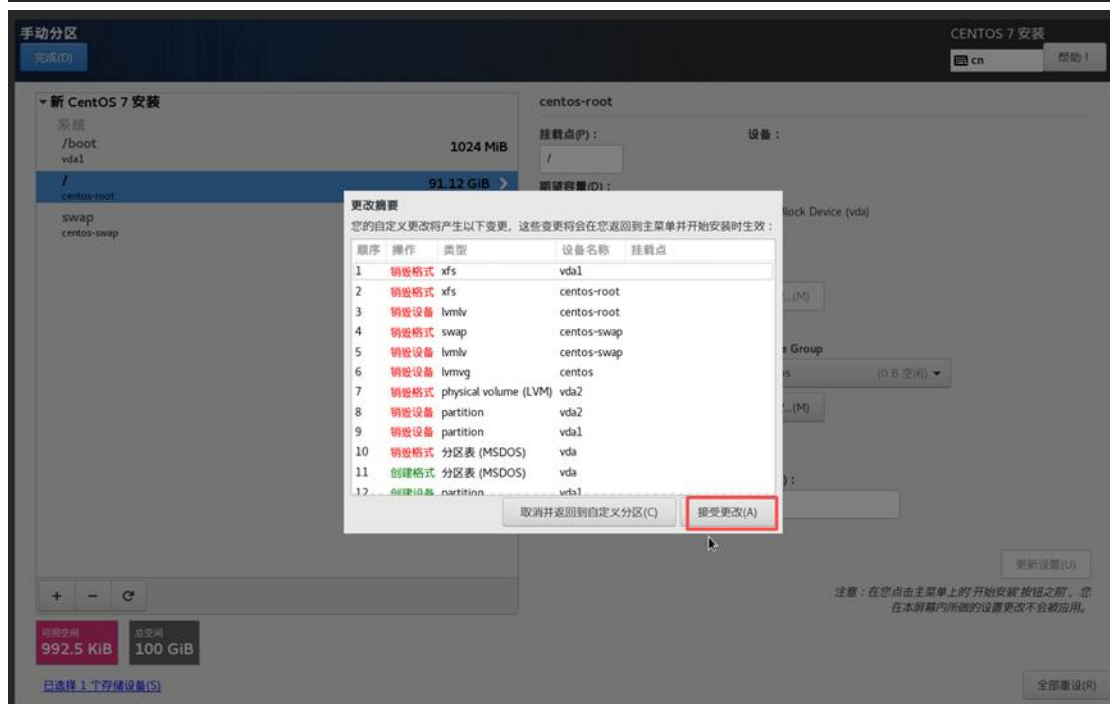
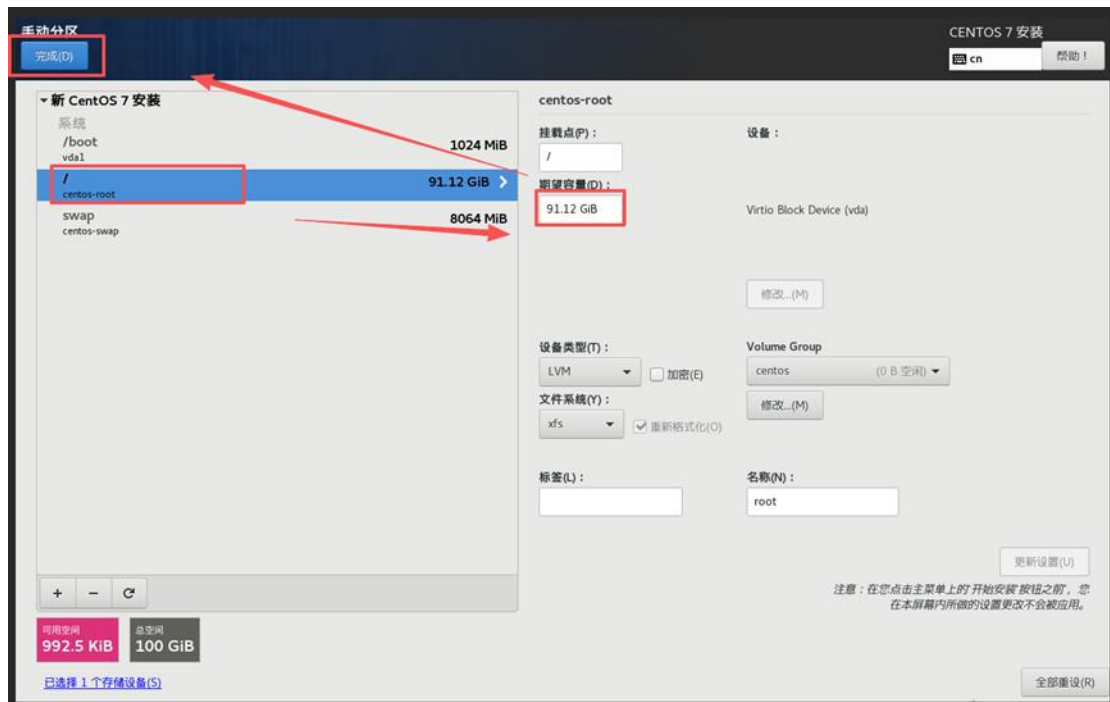
1.3. 修改软件选择为基本网页服务器



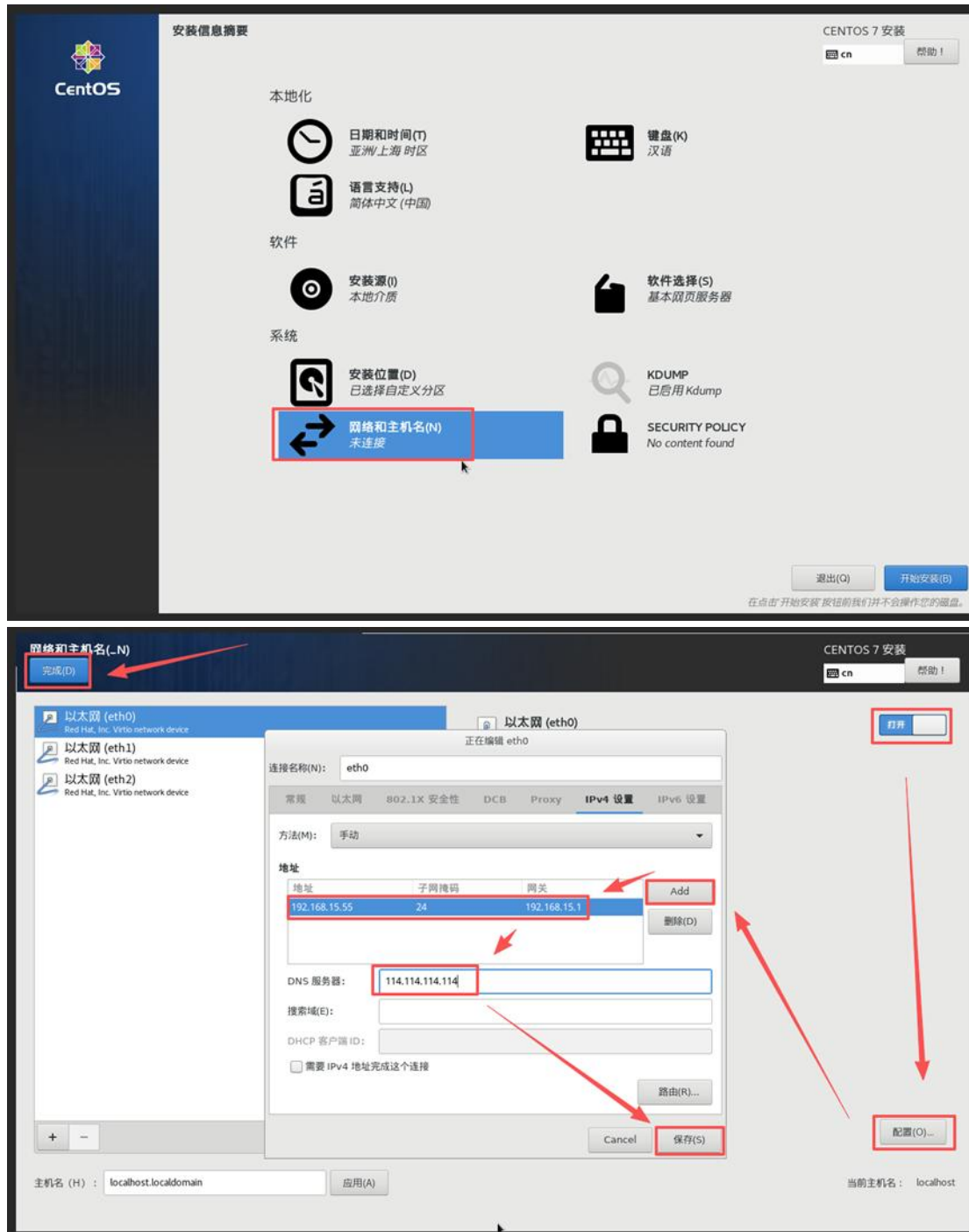
1.4. 修改存储配置



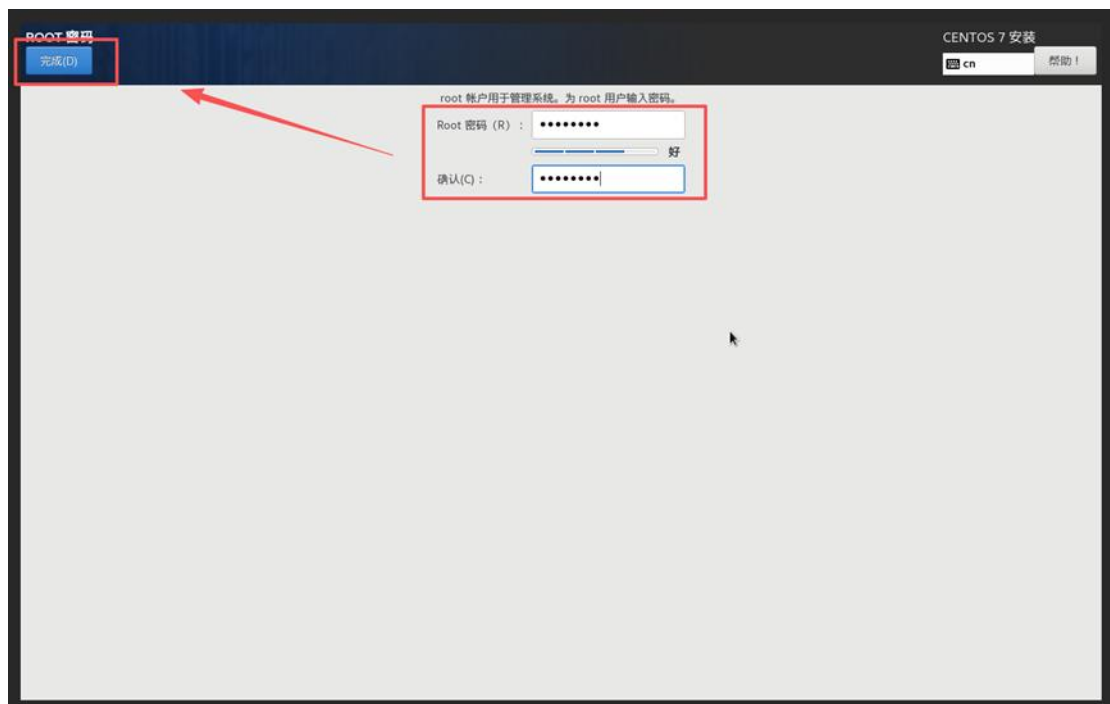


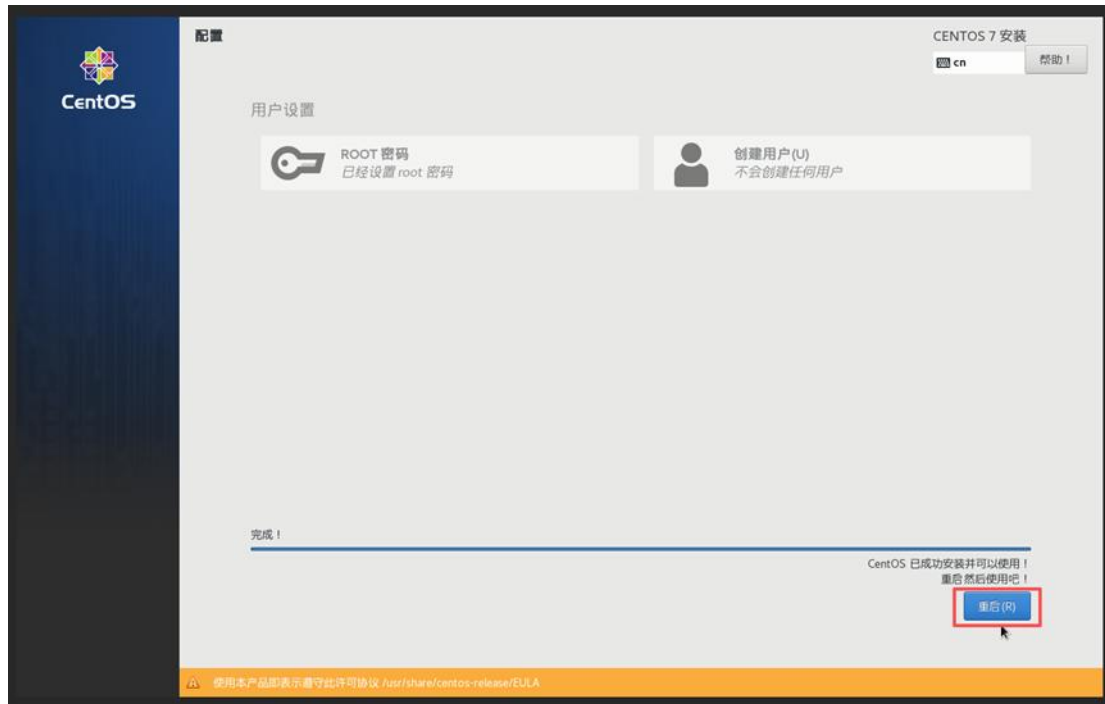


1.5. 修改网络配置



1.6. 开始安装并设置 root 用户密码





2. 安装依赖

2.1. 更新过期源

```
mv /etc/yum.repos.d/CentOS-Base.repo /etc/yum.repos.d/CentOS-Base.repo.backup
```

```
wget -O /etc/yum.repos.d/CentOS-Base.repo
```

```
http://mirrors.aliyun.com/repo/Centos-7.repo
```

```
wget -O /etc/yum.repos.d/epel.repo http://mirrors.aliyun.com/repo/epel-7.repo
```

```
[root@localhost ~]# mv /etc/yum.repos.d/CentOS-Base.repo /etc/yum.repos.d/CentOS-Base.repo.backup
[root@localhost ~]# wget -O /etc/yum.repos.d/CentOS-Base.repo http://mirrors.aliyun.com/repo/Centos-7.repo
--2025-09-11 10:16:51-- http://mirrors.aliyun.com/repo/Centos-7.repo
正在解析主机 mirrors.aliyun.com (mirrors.aliyun.com) ... 61.147.214.96, 171.15.36.239, 61.147.214.97
正在连接 mirrors.aliyun.com (mirrors.aliyun.com)[61.147.214.96]:80 ... 已连接。
已发出 HTTP 请求, 正在等待响应 ... 200 OK
长度: 2523 (2.5K) [application/octet-stream]
正在保存至: "/etc/yum.repos.d/CentOS-Base.repo"
100%[=====] 2,523 --K/s 用时 0s
2025-09-11 10:16:51 (423 MB/s) - 已保存 "/etc/yum.repos.d/CentOS-Base.repo" [2523/2523]

[root@localhost ~]# wget -O /etc/yum.repos.d/epel.repo http://mirrors.aliyun.com/repo/epel-7.repo
--2025-09-11 10:16:57-- http://mirrors.aliyun.com/repo/epel-7.repo
正在解析主机 mirrors.aliyun.com (mirrors.aliyun.com) ... 118.253.174.233, 61.147.214.96, 171.15.36.239
正在连接 mirrors.aliyun.com (mirrors.aliyun.com)[118.253.174.233]:80 ... 已连接。
已发出 HTTP 请求, 正在等待响应 ... 200 OK
长度: 664 [application/octet-stream]
正在保存至: "/etc/yum.repos.d/epel.repo"
100%[=====] 664 --K/s 用时 0s
2025-09-11 10:16:57 (145 MB/s) - 已保存 "/etc/yum.repos.d/epel.repo" [664/664]
```

```
清除 Yum 缓存 yum clean all
```

```
生成新缓存 yum makecache
```

```
[root@localhost ~]# yum clean all
已加载插件: fastestmirror, langpacks
正在清理软件源: base epel extras updates
[root@localhost ~]# yum makecache
已加载插件: fastestmirror, langpacks
Determining fastest mirrors
 * base: mirrors.aliyun.com
 * extras: mirrors.aliyun.com
 * updates: mirrors.aliyun.com
base                                     | 3.6 kB  00:00:00
epel                                    | 4.3 kB  00:00:00
extras                                  | 2.9 kB  00:00:00
updates                                 | 2.9 kB  00:00:00
(1/16): base/7/x86_64/group_gz         | 153 kB  00:00:00
(2/16): epel/x86_64/group              | 399 kB  00:00:00
(3/16): epel/x86_64/updateinfo          | 1.0 MB  00:00:00
(4/16): epel/x86_64/prestodelta        | 592 B  00:00:00
(5/16): base/7/x86_64/other_db         | 2.6 MB  00:00:00
(6/16): epel/x86_64/primary_db         | 8.7 MB  00:00:01
(7/16): extras/7/x86_64/filelists_db   | 305 kB  00:00:00
(8/16): extras/7/x86_64/primary_db     | 253 kB  00:00:00
(9/16): extras/7/x86_64/other_db       | 154 kB  00:00:00
(10/16): epel/x86_64/filelists_db      | 15 MB  00:00:01
(11/16): epel/x86_64/other_db          | 4.1 MB  00:00:00
(12/16): updates/7/x86_64/filelists_db | 15 MB  00:00:01
(13/16): updates/7/x86_64/other_db     | 1.6 MB  00:00:00
(14/16): updates/7/x86_64/primary_db   | 27 MB  00:00:03
base/7/x86_64/filelists_db             FAILED
http://mirrors.aliyuncs.com/centos/7/os/x86_64/repodata/d6d94c7d406fe7ad4902a97104b39a0d8299451832a97f31d71653ba982c955b-filelists.sqlite.bz2: [Errno 12] Timeout on http://mirrors.aliyuncs.com/centos/7/os/x86_64/repodata/d6d94c7d406fe7ad4902a97104b39a0d8299451832a97f31d71653ba982c955b-filelists.sqlite.bz2: (28, 'Connection timed out after 30000 milliseconds')
正在尝试其它镜像。
base/7/x86_64/primary_db                FAILED
http://mirrors.cloud.aliyuncs.com/centos/7/os/x86_64/repodata/6d0c3a488c282fe537794b5946b01e28c7f44db79097bb06826e1c0c88bad5ef-primary.sqlite.bz2: [Errno 12] Timeout on http://mirrors.cloud.aliyuncs.com/centos/7/os/x86_64/repodata/6d0c3a488c282fe537794b5946b01e28c7f44db79097bb06826e1c0c88bad5ef-primary.sqlite.bz2: (28, 'Connection timed out after 30001 milliseconds')
正在尝试其它镜像。
(15/16): base/7/x86_64/filelists_db     | 7.2 MB  00:00:00
(16/16): base/7/x86_64/primary_db       | 6.1 MB  00:00:00
元数据缓存已建立
```

2.2. 安装 lrzsz 并上传 Supernova 系统镜像

安装依赖 yum install lrzsz -y

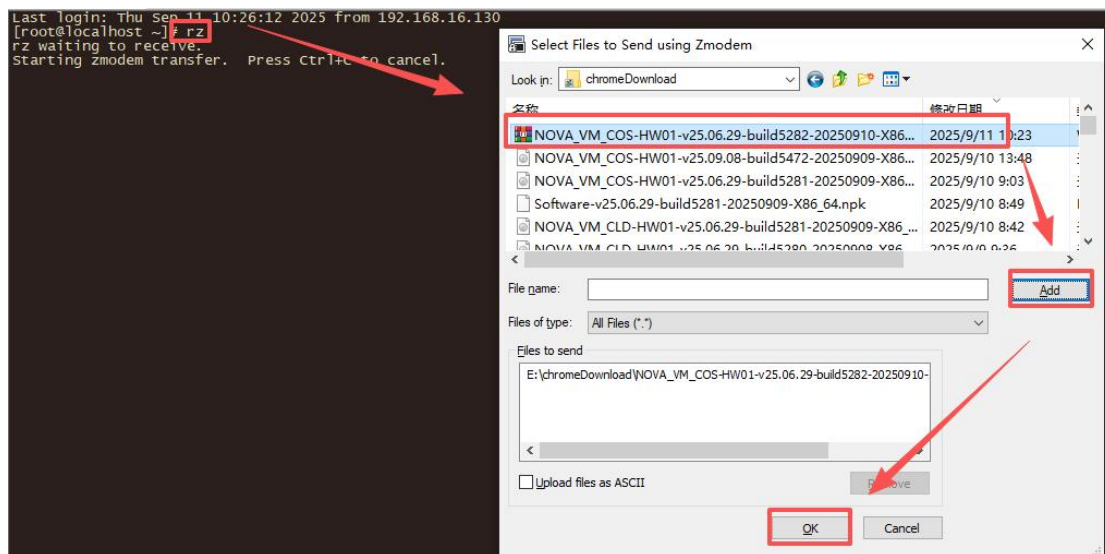
```
[root@localhost ~]# yum install lrzsz -y
已加载插件: fastestmirror, langpacks
Loading mirror speeds from cached hostfile
 * base: mirrors.aliyun.com
 * extras: mirrors.aliyun.com
 * updates: mirrors.aliyun.com
正在检查事务
--> 软件包 lrzsz.x86_64.0.12.20-36.el7 将被安装
--> 解决依赖关系完成

依赖关系解决

Package          架构      版本                源                大小
正在安装:
lrzsz            x86_64    0.12.20-36.el7      base              78 k

事务概要
安装 1 软件包
总计: 78 k
安装大小: 181 k
Downloading packages:
警告: /var/cache/yum/x86_64/7/base/packages/lrzsz-0.12.20-36.el7.x86_64.rpm: 头V3 RSA/SHA256 Signature, 密钥 ID f4a80eb5: NOKEY
从 http://mirrors.aliyun.com/centos/7/RPM-GPG-KEY-CentOS-7 检索密钥
导入 GPG key 0xf4a80eb5:
 用户ID   : "CentOS-7 Key (CentOS 7 Official Signing Key) <security@centos.org>"
 指纹     : 6341 ab27 53d7 8a78 a7c2 7bb1 24c6 a8a7 f4a8 0eb5
 来源     : http://mirrors.aliyun.com/centos/7/RPM-GPG-KEY-CentOS-7
Running transaction check
Running transaction test
transaction test succeeded
Running transaction
 正在安装   : lrzsz-0.12.20-36.el7.x86_64
 验证中     : lrzsz-0.12.20-36.el7.x86_64
已安装:
lrzsz.x86_64 0:0.12.20-36.el7
完毕!
```

上传 Supernova 软件镜像



```

[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 36400 KB/sec 00:00:22 0 Errors

[root@localhost ~]#

```

2.3. 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-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]

[root@localhost ~]#

```

```

[root@localhost ~]# yum -y install unzip wget net-tools qemu-img expect
已加载插件: fastestmirror, langpacks
Loading mirror speeds from cached hostfile
 * base: mirrors.aliyun.com
 * extras: mirrors.aliyun.com
 * updates: mirrors.aliyun.com
软件包 wget-1.14-18.el7_6.1.x86_64 已安装并且是最新版本
软件包 net-tools-2.0-0.25.20131004git.el7.x86_64 已安装并且是最新版本
正在解决依赖关系
--> 正在检查事务
--> 软件包 expect.x86_64.0.5.45-14.el7_1 将被 安装
--> 正在处理依赖关系 libtccl8.so()(64bit), 它被软件包 expect-5.45-14.el7_1.x86_64 需要
--> 软件包 qemu-img.x86_64.10.1.5.3-175.el7_9.6 将被 安装
--> 正在处理依赖关系 libgxfapi.so.0(GFAPI_6.0)(64bit), 它被软件包 10:qemu-img-1.5.3-175.el7_9.6.x86_64 需要
--> 正在处理依赖关系 libgxfapi.so.0(GFAPI_3.4.0)(64bit), 它被软件包 10:qemu-img-1.5.3-175.el7_9.6.x86_64 需要
--> 正在处理依赖关系 libtcmalloc.so.0()(64bit), 它被软件包 10:qemu-img-1.5.3-175.el7_9.6.x86_64 需要
--> 正在处理依赖关系 librbld.so.1()(64bit), 它被软件包 10:qemu-img-1.5.3-175.el7_9.6.x86_64 需要
--> 正在处理依赖关系 librados.so.2()(64bit), 它被软件包 10:qemu-img-1.5.3-175.el7_9.6.x86_64 需要
--> 正在处理依赖关系 libiscsi.so.2()(64bit), 它被软件包 10:qemu-img-1.5.3-175.el7_9.6.x86_64 需要
--> 正在处理依赖关系 libgxfdr.so.0()(64bit), 它被软件包 10:qemu-img-1.5.3-175.el7_9.6.x86_64 需要
--> 正在处理依赖关系 libgfrpc.so.0()(64bit), 它被软件包 10:qemu-img-1.5.3-175.el7_9.6.x86_64 需要
--> 正在处理依赖关系 libgxfapi.so.0()(64bit), 它被软件包 10:qemu-img-1.5.3-175.el7_9.6.x86_64 需要
--> 软件包 unzip.x86_64.0.6.0-21.el7 将被 升级
--> 软件包 unzip.x86_64.0.6.0-24.el7_9 将被 更新
--> 正在检查事务
--> 软件包 glusterfs-api.x86_64.0.6.0-61.el7 将被 安装
--> 正在处理依赖关系 glusterfs-client-xlators(x86-64) = 6.0-61.el7, 它被软件包 glusterfs-api-6.0-61.el7.x86_64 需要
--> 正在处理依赖关系 glusterfs(x86-64) = 6.0-61.el7, 它被软件包 glusterfs-api-6.0-61.el7.x86_64 需要
--> 软件包 glusterfs-libs.x86_64.0.6.0-61.el7 将被 安装
--> 软件包 gperftools-libs.x86_64.0.2.6.1-1.el7 将被 安装
--> 软件包 libiscsi.x86_64.0.1.9.0-7.el7 将被 安装
--> 软件包 librados2.x86_64.1.10.2.5-4.el7 将被 安装
--> 正在处理依赖关系 libboost_random-mt.so.1.53.0()(64bit), 它被软件包 1:librados2-10.2.5-4.el7.x86_64 需要
--> 正在处理依赖关系 libboost_iostreams-mt.so.1.53.0()(64bit), 它被软件包 1:librados2-10.2.5-4.el7.x86_64 需要
--> 软件包 librbd1.x86_64.1.10.2.5-4.el7 将被 安装
--> 软件包 tc1.x86_64.1.8.5.13-8.el7 将被 安装
--> 正在检查事务
--> 软件包 boost-iostreams.x86_64.0.1.53.0-28.el7 将被 安装
--> 软件包 boost-random.x86_64.0.1.53.0-28.el7 将被 安装
--> 软件包 glusterfs.x86_64.0.6.0-61.el7 将被 安装
--> 软件包 glusterfs-client-xlators.x86_64.0.6.0-61.el7 将被 安装
--> 解决依赖关系完成

```

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: 11100000

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 mgmt (y/n): y
Please input management interface name: eth0
Interface eth0, MAC address bc:24:11:f1:01:ze, 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

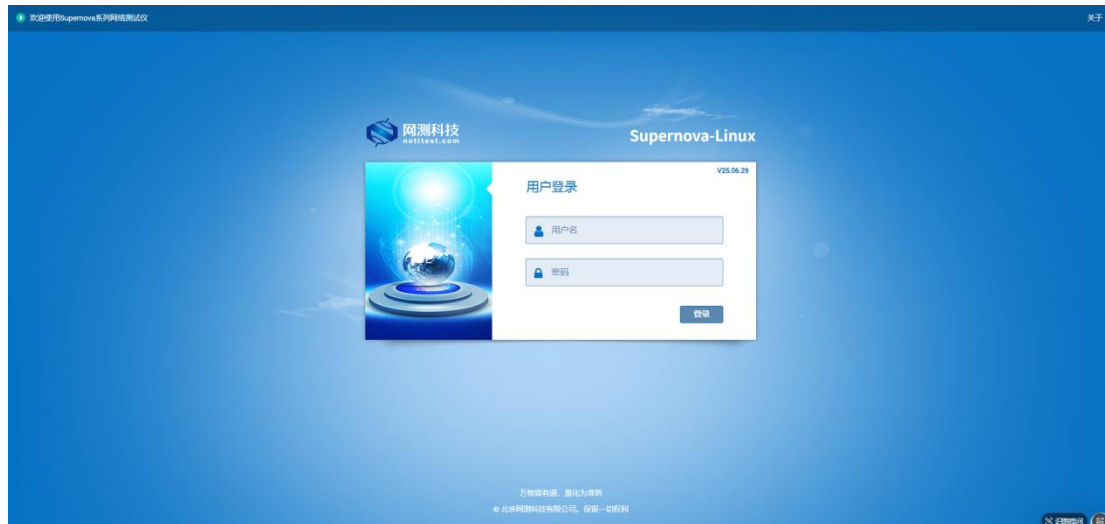
查看 http 及 https 服务是否正常启动 `ps -ef|grep http`

```

Last login: Thu Sep 11 10:28:56 2025 from 192.168.16.130
[root@Supernova ~]#
[root@Supernova ~]# 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_https_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 10:40 pts/1    00:00:00 /usr/bin/python3 /usr/bin/gunicorn -c gunicorn_https.conf.py flask_https_server:app
root      2775      1    0 10:40 pts/1    00:00:00 grep --color=auto http

```

输入管理 ip 地址登陆界面默认用户名/密码: admin/admin



网测科技

netTest.com

用例

资源

列表

运行

报告

系统

帮助

用户

V25.06.29

Supernova-Linux

L4-7582测试

当前位置: 用例 > L4-7582测试 > Web协议测试 > HTTP > 新建

Web协议测试

HTTP

新建

用户模式

运行模式

开发

帮助

UDPTCP测试

HTTP新建用户模式

帮助

主要测试目标: 模拟HTTP新建连接、HTTP新建成功态。
测试过程简介: 依据RFC3311标准, 模拟受测设备新建HTTP会话的整个流程, 每个虚拟用户建立一条TCP连接, 执行一个完整的HTTP的事务(发送请求和接收响应), 最后关闭连接。再新建TCP连接并构造一个完整的HTTP会话。
对于延迟低、传输快的受测设备, 可以获得更好的测试结果, 因为每个虚拟用户对设备造成的收发压力, 其执行流程能快速完成, 所以获得最佳性能数据更能准确利用用户数。此模式在最佳用户数时会获得更好的性能。

用例列表

新增

新增

删除

导入用例

对比用例

去数据

☐

编号

运行

任务列表

用户

名字

受测设备类型

编辑

删除

详细信息

导出

历史记录

显示行数

50

0-0 of 0

全部删除

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