云服务器远程运维实战
技术栈：CentOS 7、银河麒麟、**openEuler**、SSH、SCP、VNC、腾讯云
项目目标：

掌握云服务器全生命周期管理（申请→配置→运维）。

实现安全的远程访问与文件传输。

技术实现：

云环境搭建：

腾讯云申请 ECS 实例，配置安全组（放行 SSH 22 端口、HTTP 80 端口）。

初始化系统：更新 YUM 源、关闭非必要服务、配置防火墙（firewalld）。

SSH 安全优化：

生成 RSA 密钥对，禁用密码登录，防止暴力破解。

使用 SCP 命令实现 Linux/Windows 跨平台文件同步。

远程管理扩展：

安装 TigerVNC 服务端，配置 GNOME 桌面环境供图形化运维。

关键问题与解决：

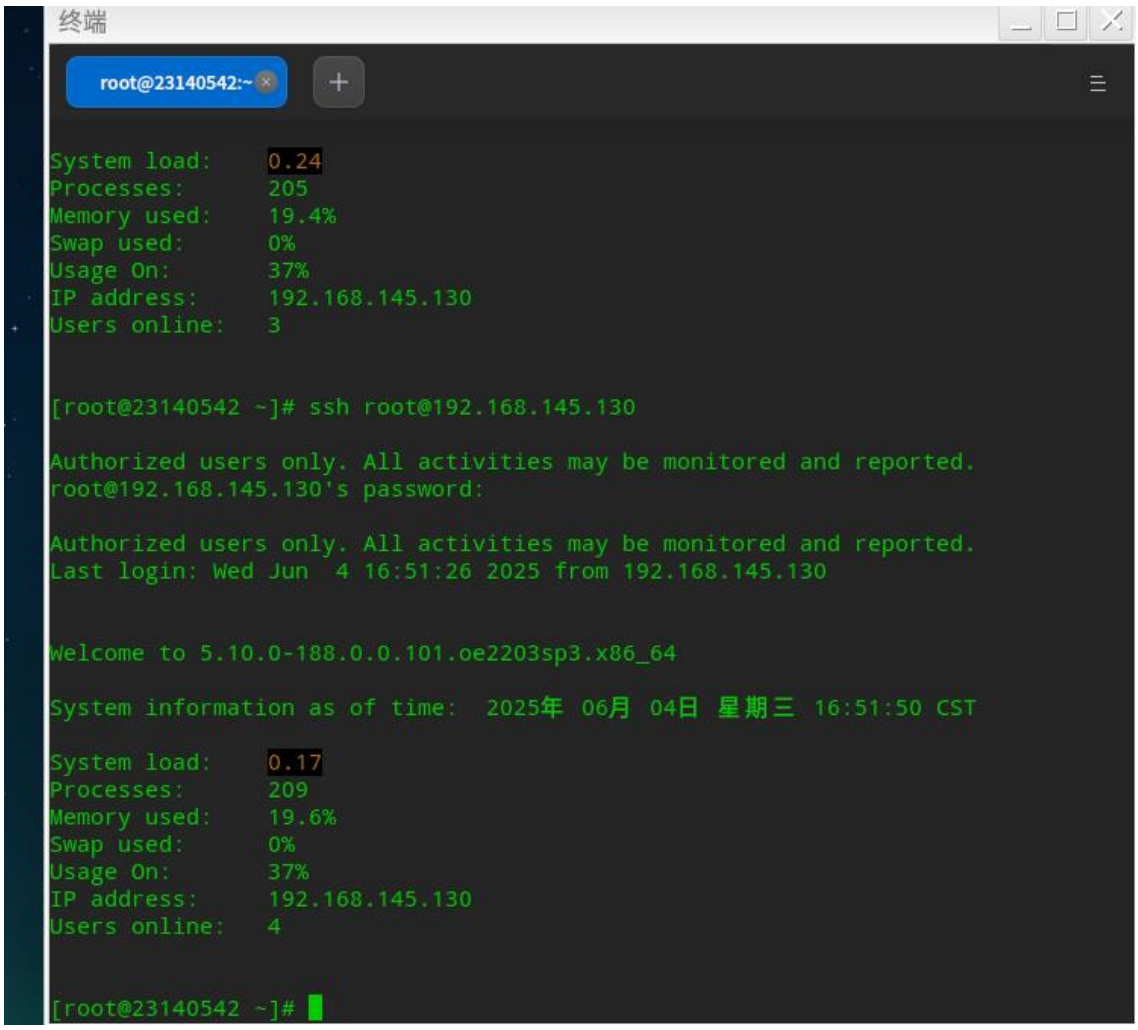
问题 1：VNC 连接黑屏。
解决：检查~/.vnc/xstartup 配置，修正 GNOME 启动参数。

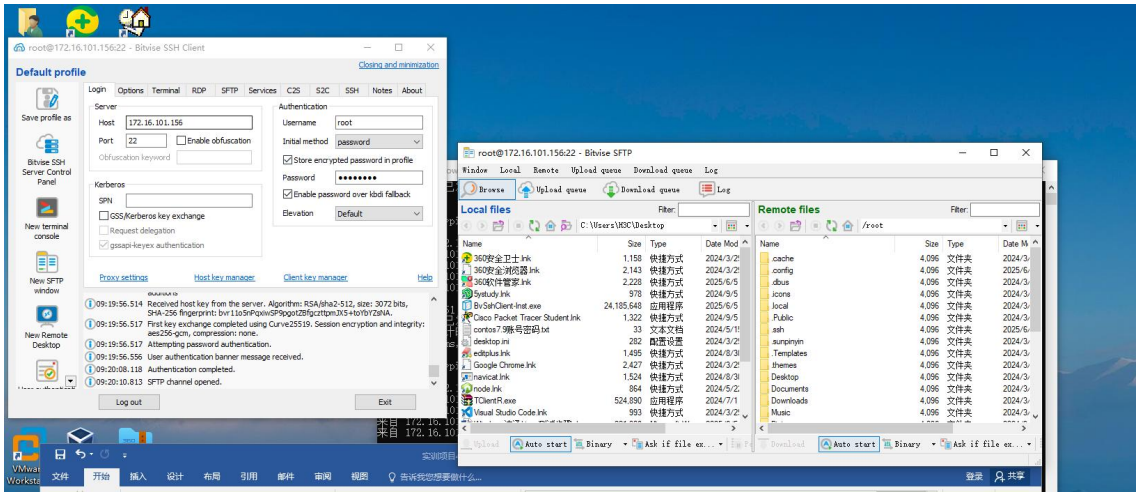
问题 2：SCP 传输速度慢。
解决：启用 SSH 压缩选项（-C），速度提升 30%。

1. 安全 Shell（SSH） （操作结果截图）

   1) 在 Linux 系统上使用 SSH 登录

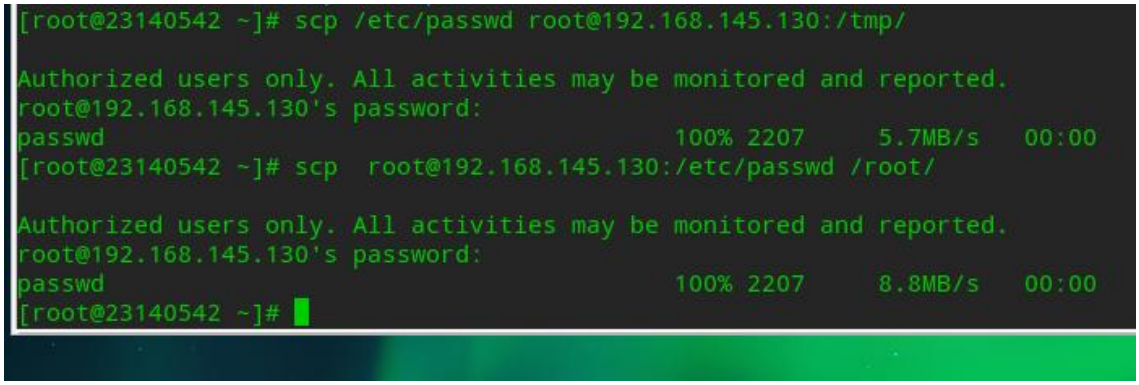
   2) 在 Windows 系统上使用 SSH 登录



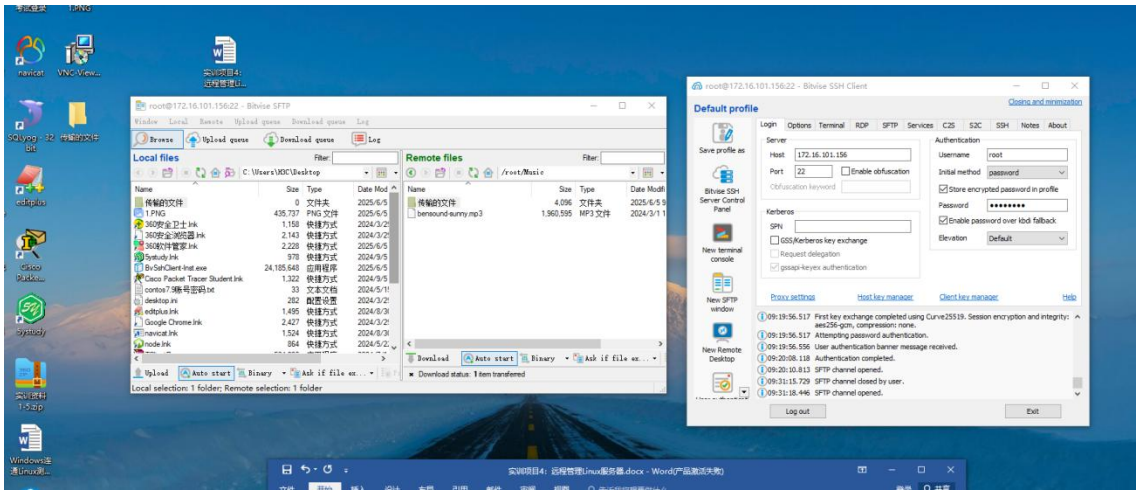


2.文件拷贝

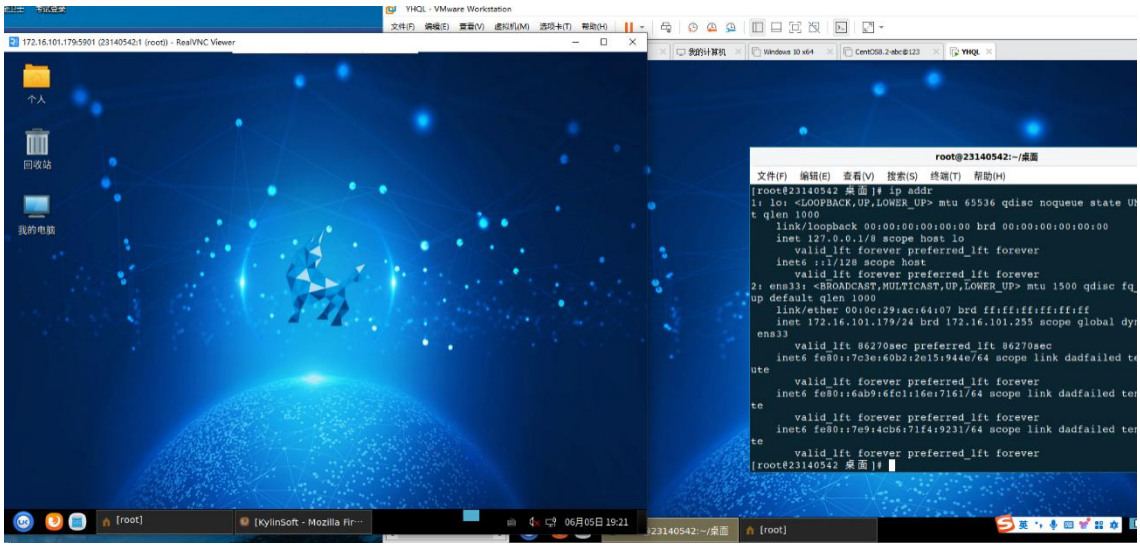
1)在 Linux 系统间传输文件---scp 命令

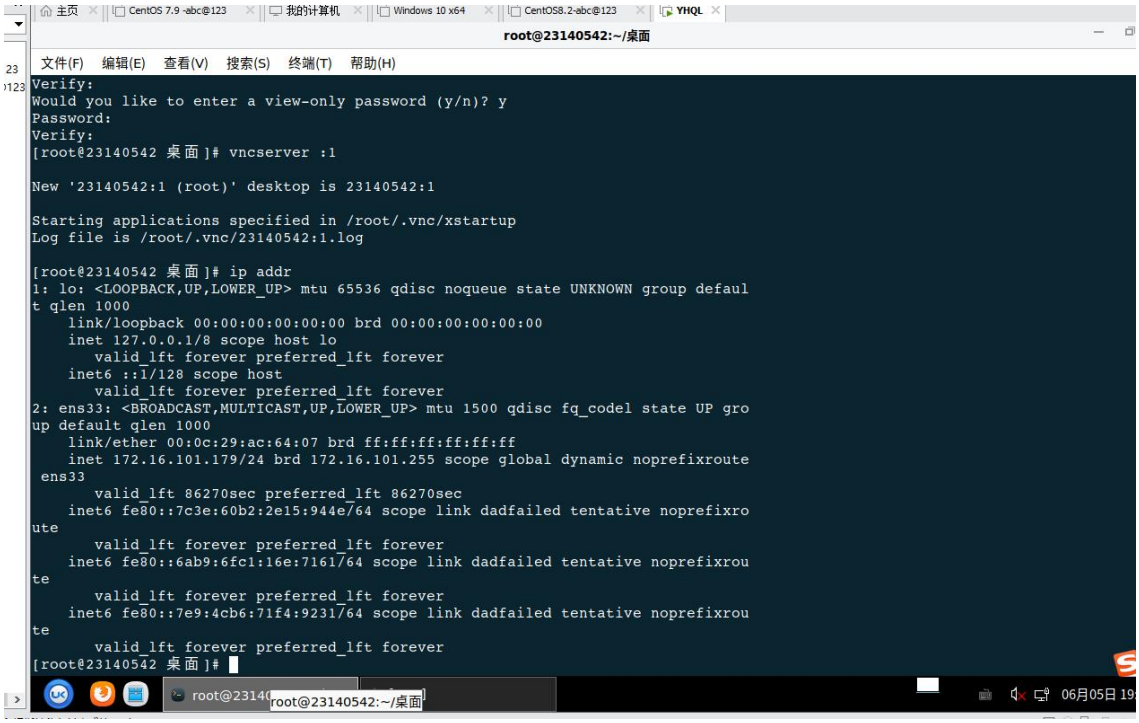


2)在 Windows 和 Linux 系统间传输文件



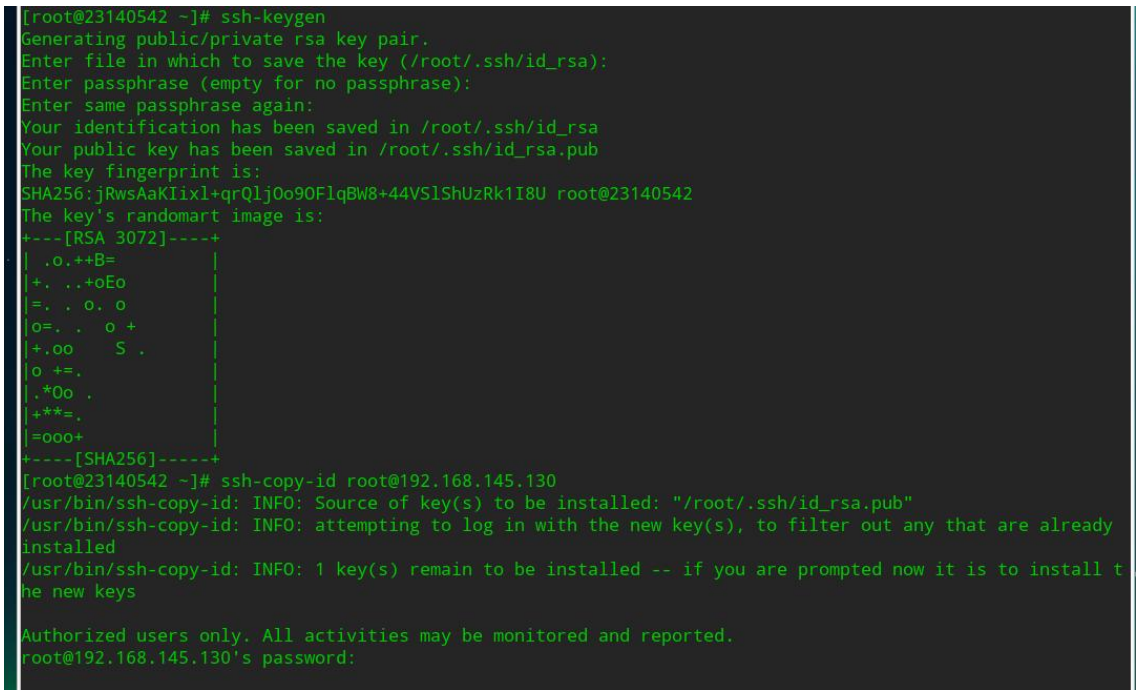
2. 用 VNC 远程桌面管理 Linux 服务器

3. 



5.配置 SSH 密钥认证

实验 1：在 server20 上实现密钥认证登录 server10



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/usr/bin/ssh-copy-id: INFO: 1 key(s) remain to be installed -- if you are prompted now it is to install t
he new keys

Authorized users only. All activities may be monitored and reported.
root@192.168.145.130's password:

Number of key(s) added: 1

Now try logging into the machine, with:   "ssh 'root@192.168.145.130'"
and check to make sure that only the key(s) you wanted were added.

[root@23140542 ~]# ssh root@192.168.145.130

Authorized users only. All activities may be monitored and reported.
root@192.168.145.130's password:

Authorized users only. All activities may be monitored and reported.
Last login: Wed Jun  4 16:51:50 2025 from 192.168.145.130

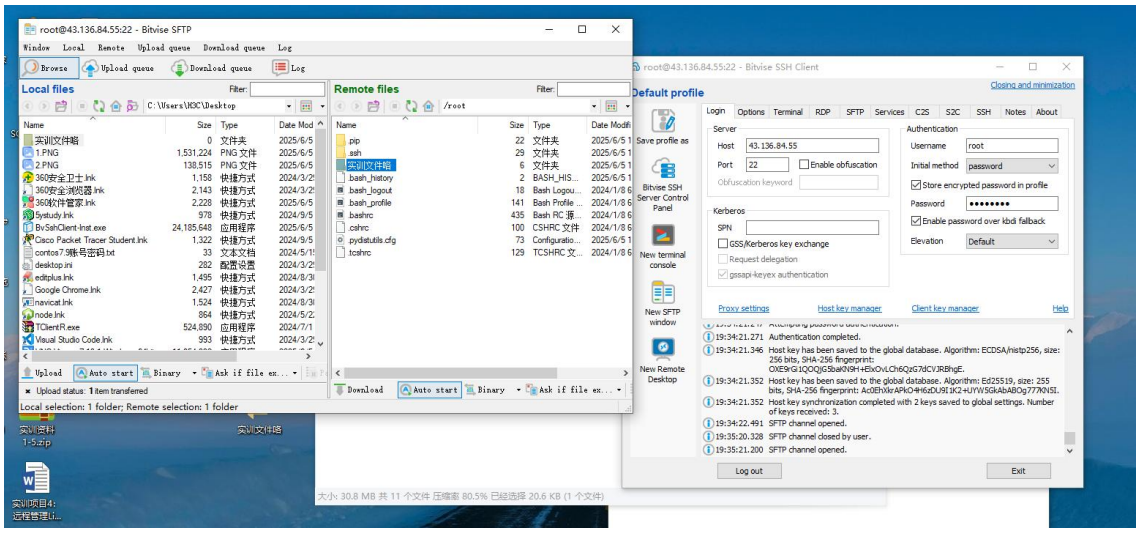

Welcome to 5.10.0-188.0.0.101.oe2203sp3.x86_64

System information as of time:  2025年 06月 04日 星期三 17:24:52 CST

System load:    0.37
Processes:      214
Memory used:    21.7%
Swap used:      0%
Usage On:       39%
IP address:     192.168.145.130
Users online:   5


[root@23140542 ~]# ls /root/.ssh
authorized_keys  id_rsa  id_rsa.pub  known_hosts  known_hosts.old
[root@23140542 ~]#
```

腾讯云申请 ECS 实例，配置安全组（放行 SSH 22 端口、HTTP 80 端口）。
实现安全的远程访问与文件传输。


root@43.136.84.55:22 - Bitvise SFTP
Local files
Remote files
root@43.136.84.55:22 - Bitvise SSH Client
Default profile
Host 43.136.84.55
Port 22
Username root
Password
Log out
Exit