

## GNS3 配置 (二)

上节讲述了 GNS3 上安装 IOU 镜像, 可以满足基本的路由交换实验, 但如果想让实现效果更加贴近真实网络, 则必须配置 QEMU 镜像, 从本节起, 陆续讲解 ASA、ASA v、Windows、Linux 的镜像配置。

### 1.ASA 的配置

在 GNS3 中可以添加 ASA8.2 和 ASA8.4, 这两个镜像可以让初学者掌握 ASA 的基本配置, 并且占用内存少, 特别适合没有大内存的环境下。下面以 ASA8.4 为例, 展示配置过程。

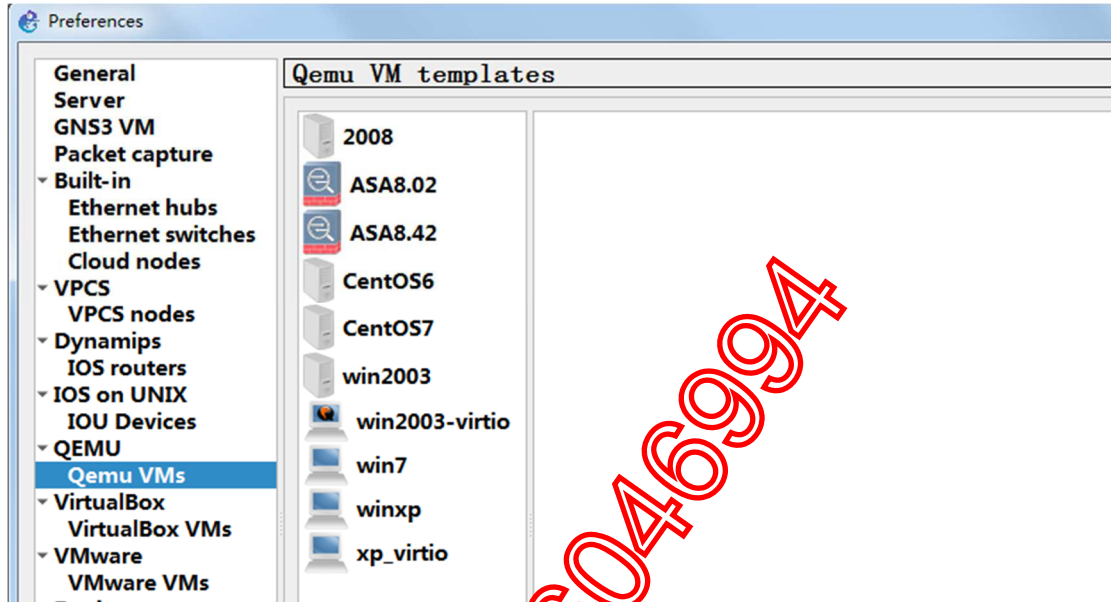


图-1 选择 Qemu VMS

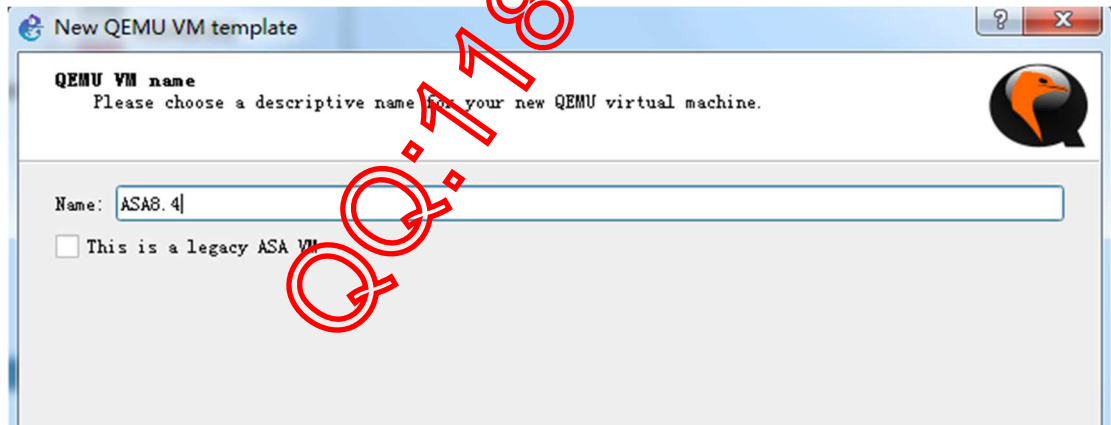


图-2 起名称为 ASA8.4

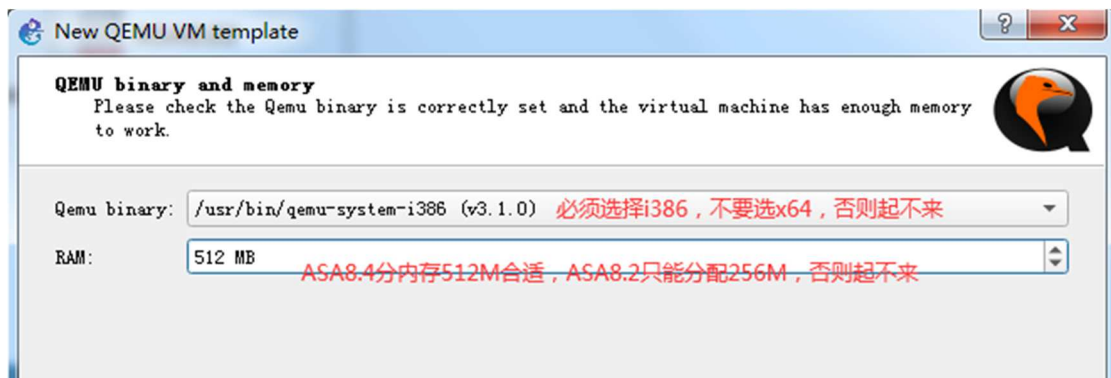


图-3 配置 Qemu 和内存

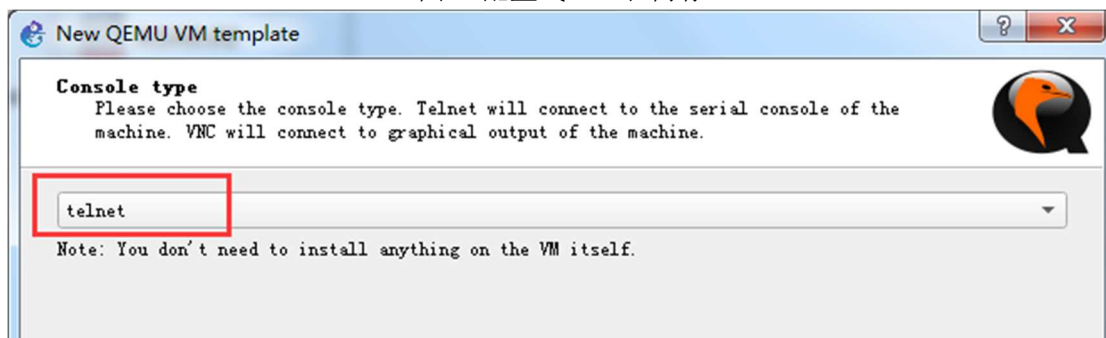


图-4 配置访问方式

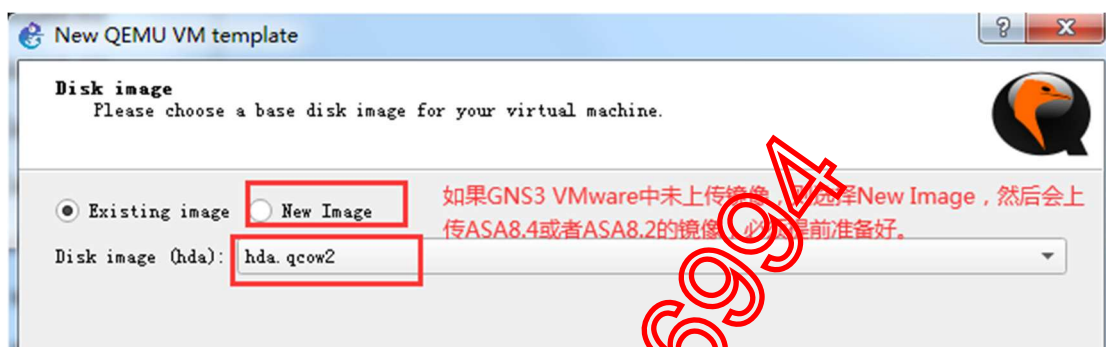


图-5 上传 ASA 镜像



图-6 初步配置好的 ASA8.4

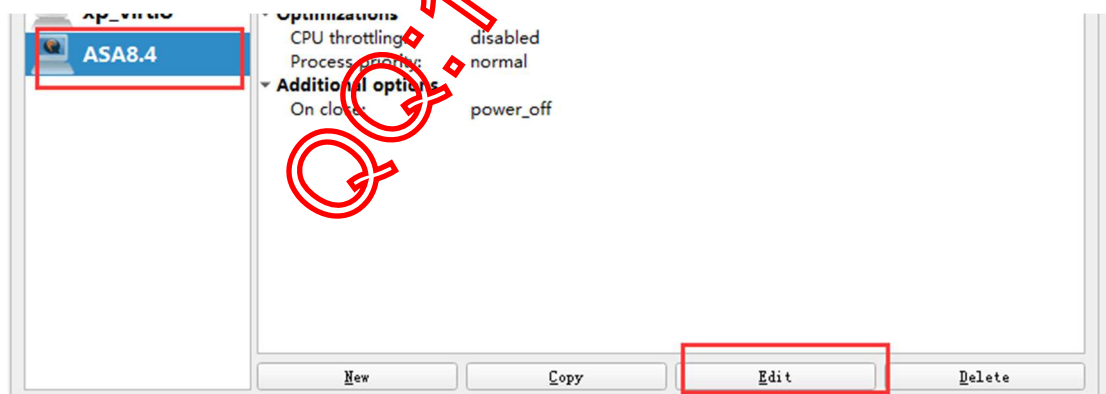


图-7 选择“Edit”详细配置

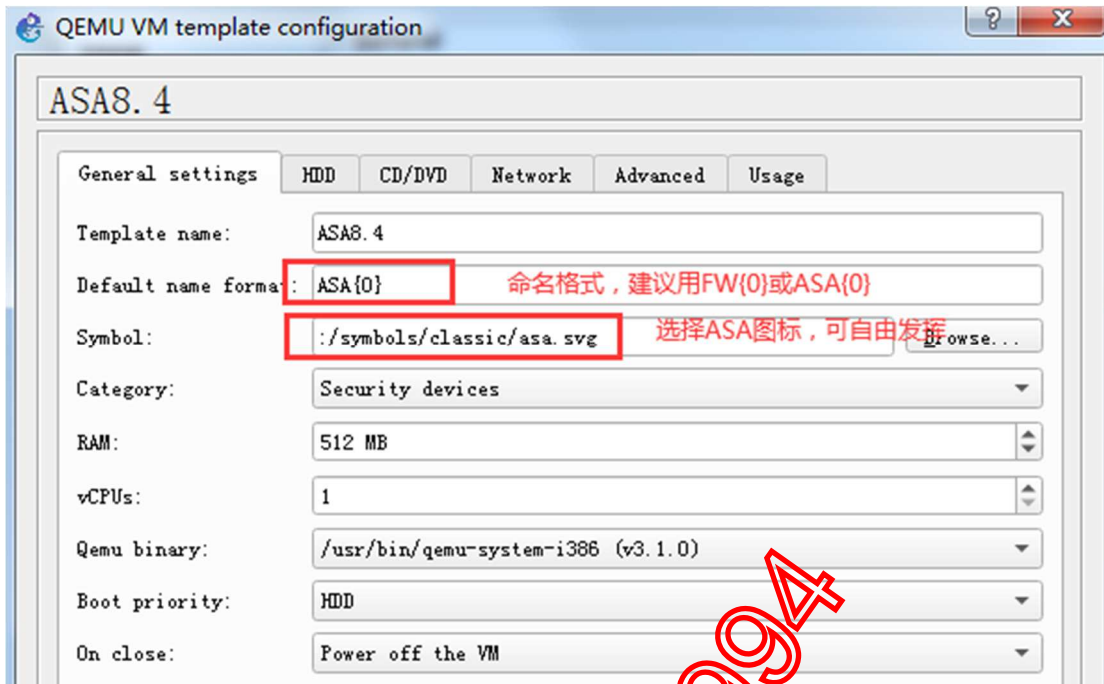


图-8 配置 ASA 显示的名称格式和图标

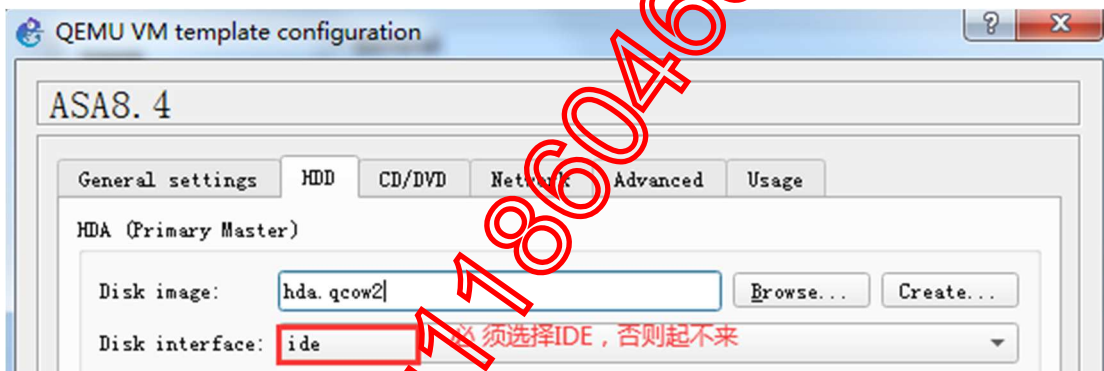


图-9 配置 ASA 的磁盘格式为 ide

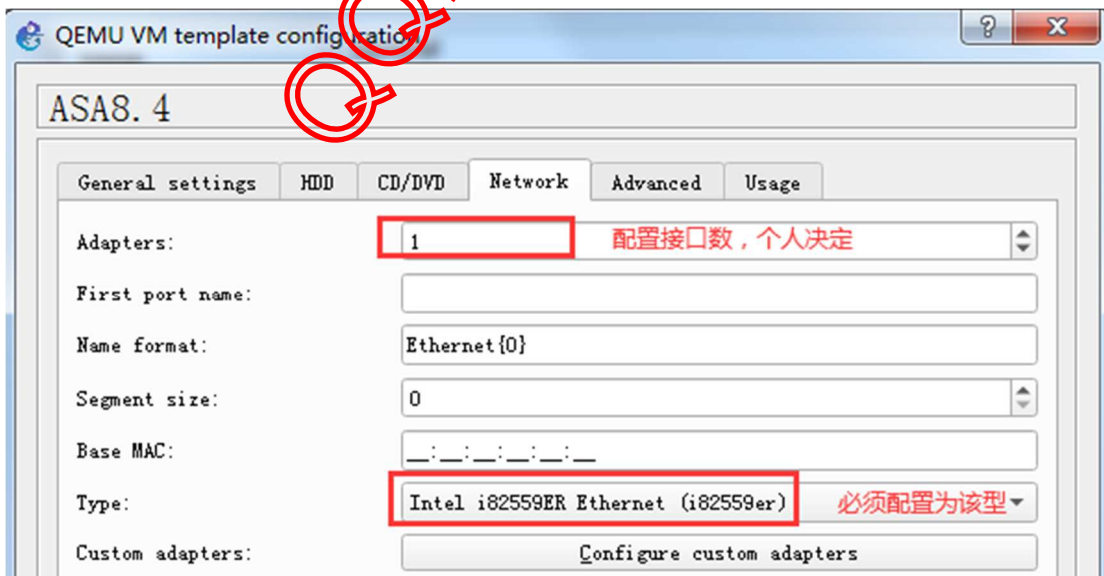


图-10 配置 ASA 网卡型号及个数

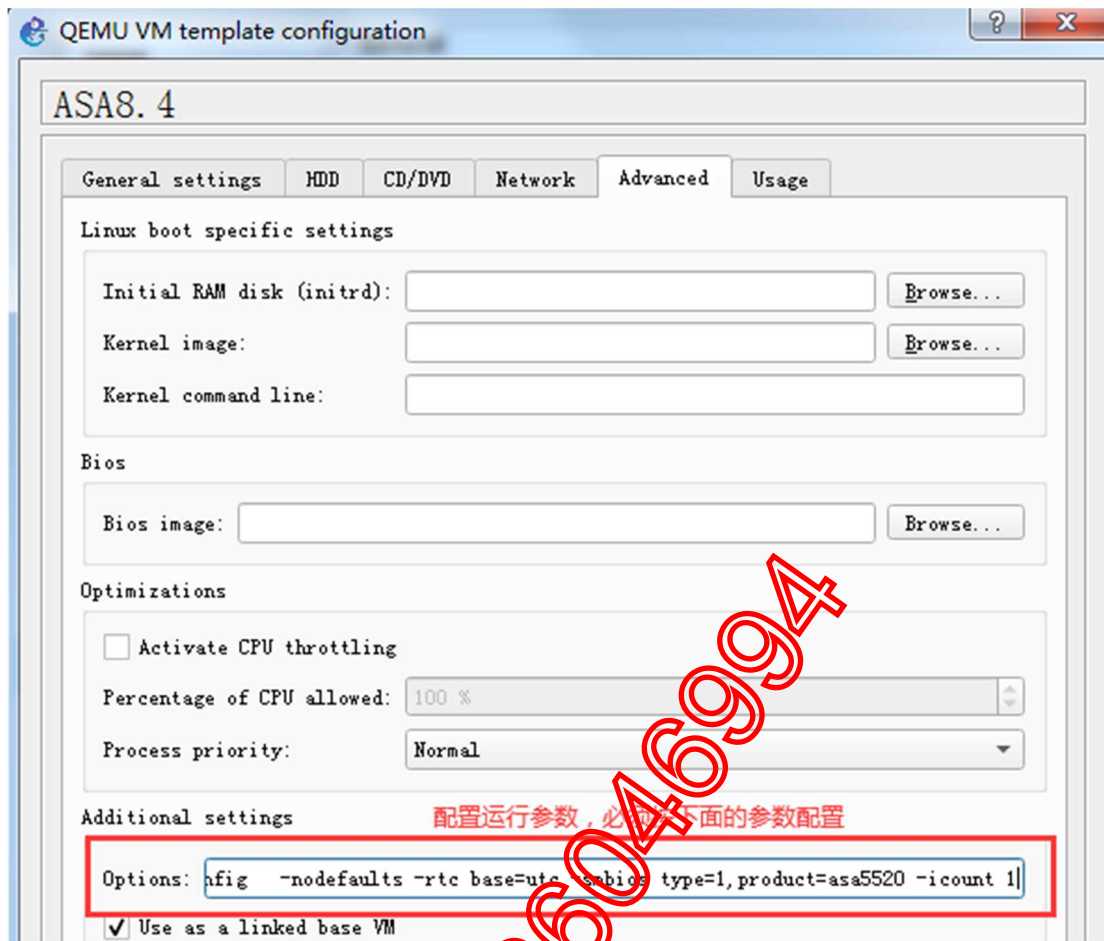
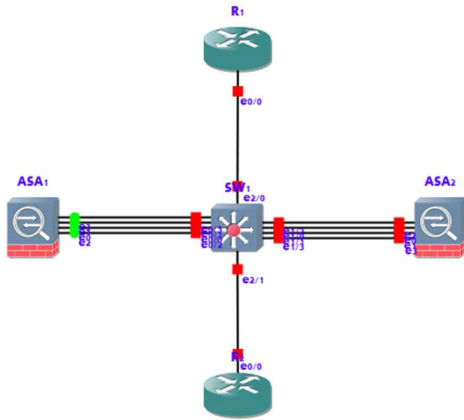


图-11 配置ASA运行的详细参数

`-machine type=pc,accel=tcg -serial mon:stdio -nographic -no-user-config -nodefaults -rtc base=utc -smbios type=1,product=asa5520 -icount 1`

最后确认，则 ASA8.4 配置完成，然后在 GNS3 的 GUI 界面中就可以正常使用。



```

ASA1 - SecureCRT
File Edit View Options Transfer Script Tools Window Help
ASA1
ciscoasa# show version
Cisco Adaptive Security Appliance Software Version 8.4(2)
Device Manager Version 6.4(5)

Compiled on Wed 15-Jun-11 18:17 by builders
System image file is "Unknown, monitor mode tftp booted image"
Config file at boot was "startup-config"

ciscoasa up 5 secs

Hardware: ASA 5520, 512 MB RAM, CPU Pentium II 1000 MHz
Internal ATA Compact Flash, 256MB
BIOS Flash unknown @ 0x0, 0KB

0: Ext: Ethernet0      : address is 0cdd.77e6.3700, irq 10
1: Ext: Ethernet1     : address is 0cdd.77e6.3701, irq 11
2: Ext: Ethernet2     : address is 0cdd.77e6.3702, irq 11
3: Ext: Ethernet3     : address is 0cdd.77e6.3703, irq 10

Licensed features for this platform:
Maximum Physical Interfaces : unlimited perpetual
Maximum VLANs              : 100 perpetual
Inside Hosts               : unlimited perpetual
Failover                   : Active/Active perpetual
VPN-DES                    : Enabled perpetual
VPN-3DES-AES               : Enabled perpetual
Security Contexts          : 20 perpetual
GTP/GPRS                   : Enabled perpetual
AnyConnect Premium Peers   : 10000 perpetual
AnyConnect Essentials      : 0 perpetual
Other VPN Peers            : 5000 perpetual
Total VPN Peers            : 0 perpetual
Shared License              : Enabled perpetual
AnyConnect for Mobile      : Enabled perpetual
AnyConnect for Cisco VPN   : Enabled perpetual
Advanced Endpoint Assessment : Enabled perpetual
UC Phone Proxy Sessions    : 5000 perpetual

Ready Telnet: 100.100.100.100 39, 11 39 Rov

```

图-12 ASA8.4 正常运行图示

※最后强调，此配置中用到的 ASA8.4、ASA8.2 的 `qemu` 镜像，在网上有很多，可以搜索下载。

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