

# eNSP网络仿真平台实验介绍

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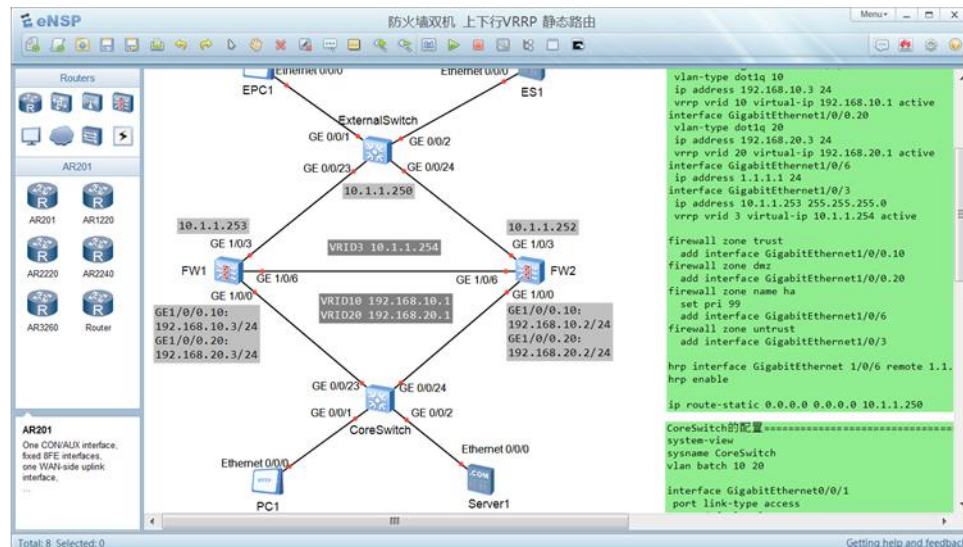
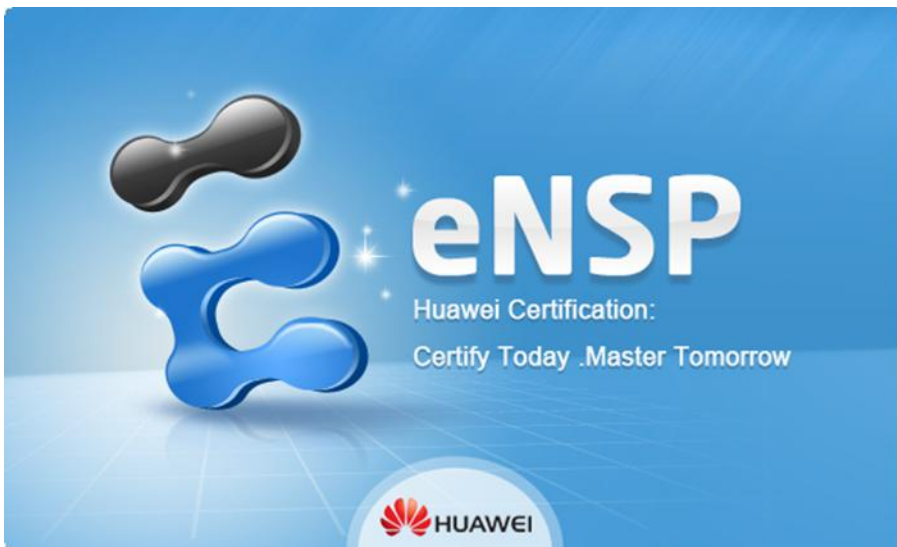


# 目录

1. eNSP简介
2. eNSP安装
3. eNSP操作说明

# eNSP简介

- eNSP(Enterprise Network Simulation Platform)是一款网络设备仿真平台，主要对企业网路由器、交换机、WLAN等设备进行软件仿真，呈现真实设备部署实景，支持大型网络模拟



- eNSP当前官网停止运维，新版本正在开发中。同学们实验中遇到问题，[可以与yeyanfei1@Huawei.com](mailto:yeyanfei1@Huawei.com) 联系，单点解决



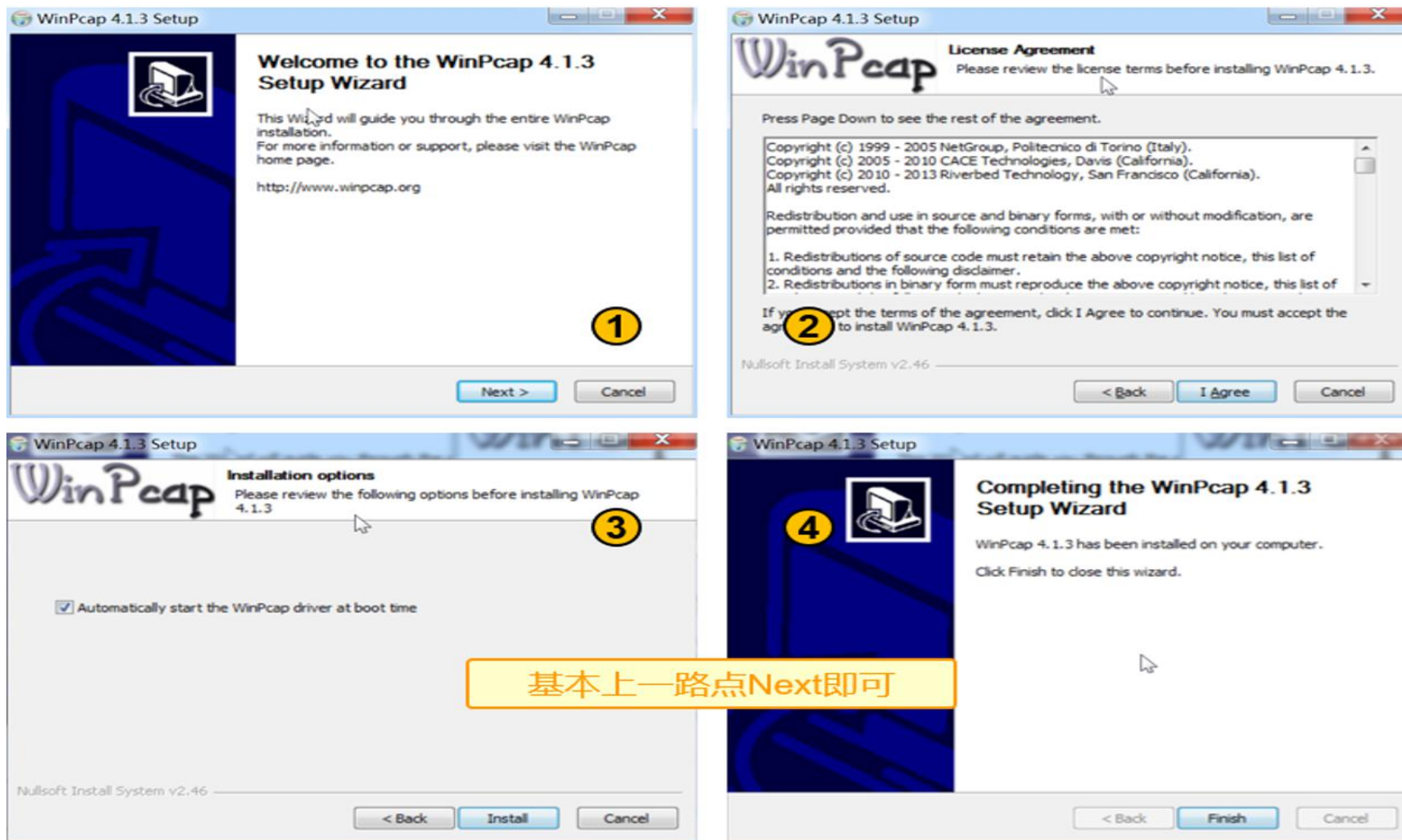
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- 2. eNSP安装**
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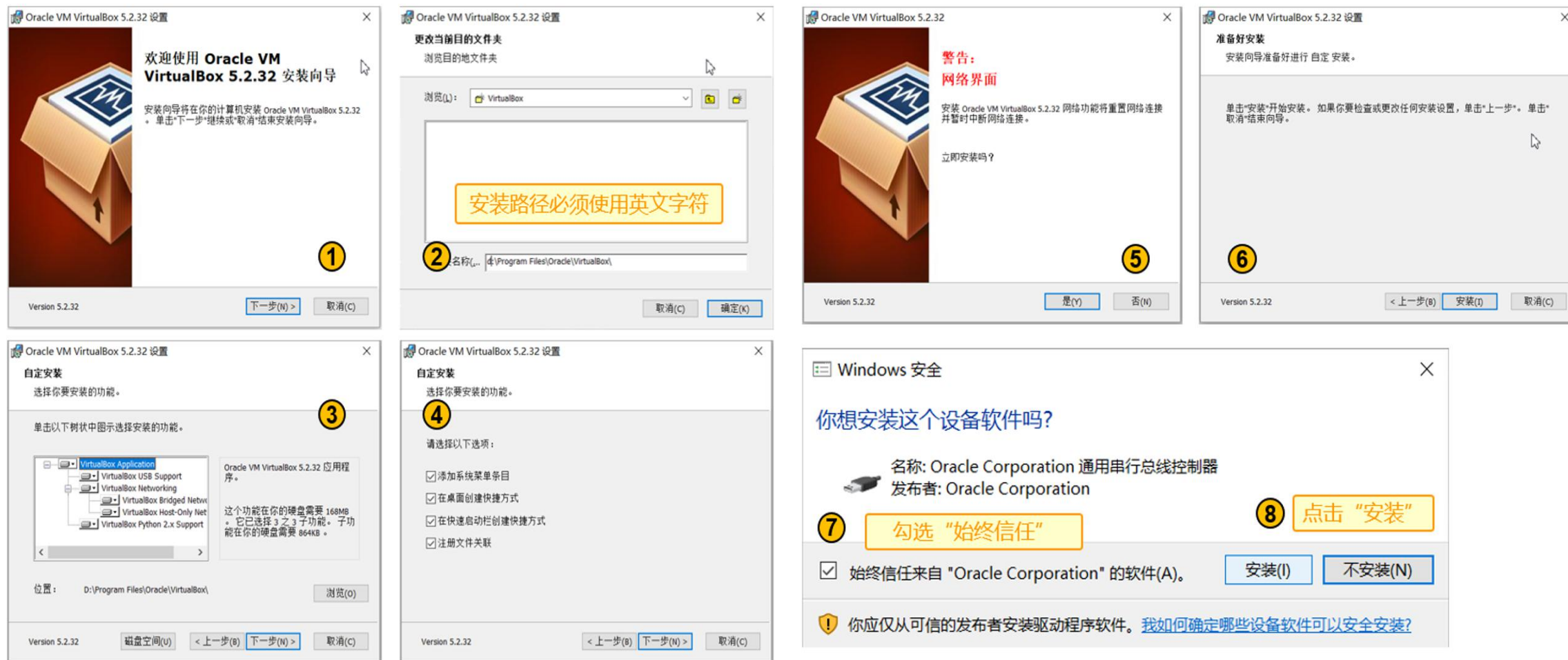
## 安装注意事项

- eNSP官网已经停止维护，可以通过如下地址下载：  
<https://forum.huawei.com/enterprise/zh/thread-573181.html>
- eNSP单机版只能运行在Windows操作系统上。
- 请先行安装WinPcap和VirtualBox软件。
- 安装VirtualBox时，请务必不要安装在带中文的路径下。
- 若需重新安装eNSP，请先卸载原有eNSP软件，将安装目录下的eNSP文件夹完全删除，同时将User->AppData(隐藏文件夹)->Local->eNSP文件夹完全删除

# eNSP安装1：安装WinPcap



## eNSP安装2：安装VirtualBox





## eNSP安装3：安装eNSP



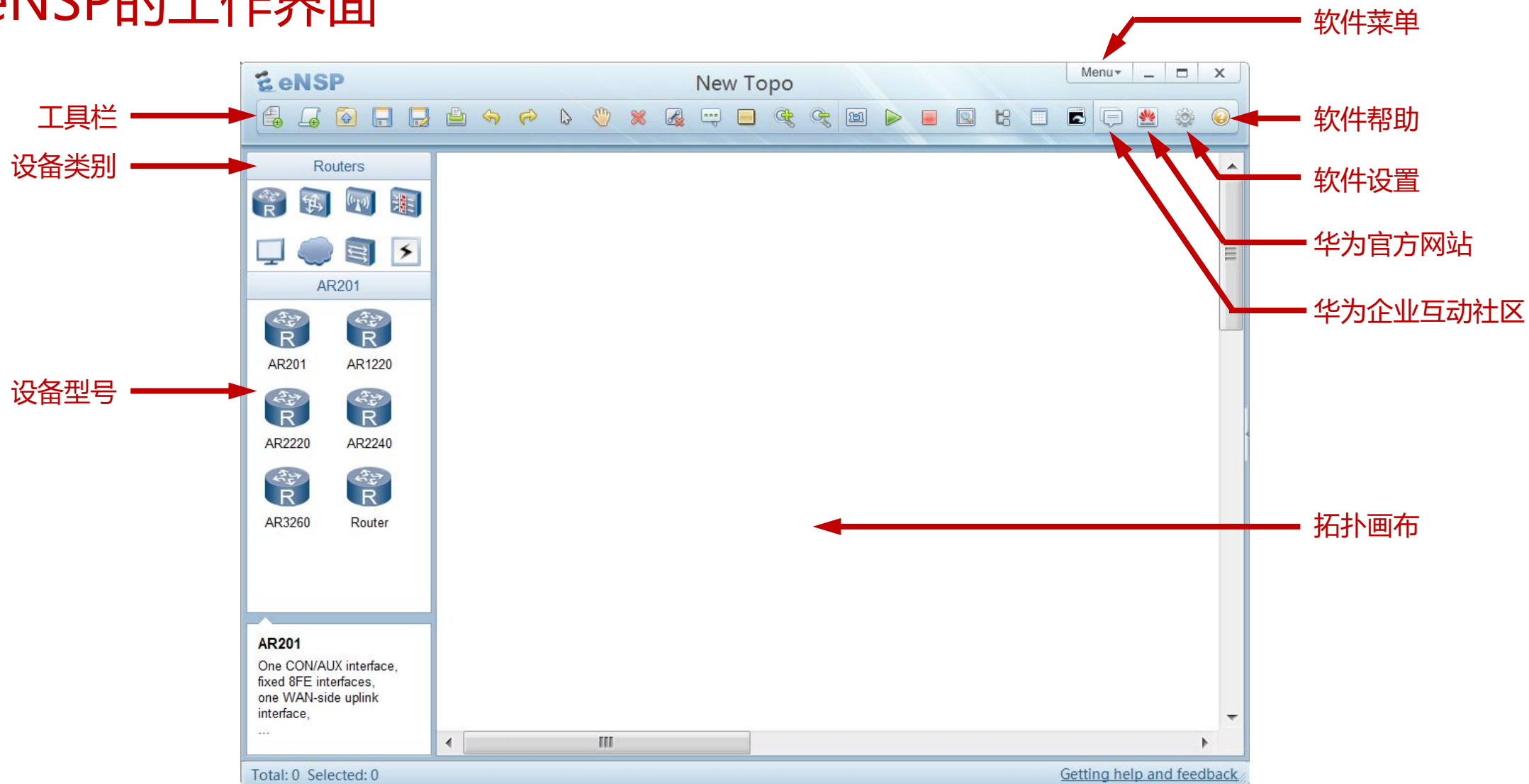




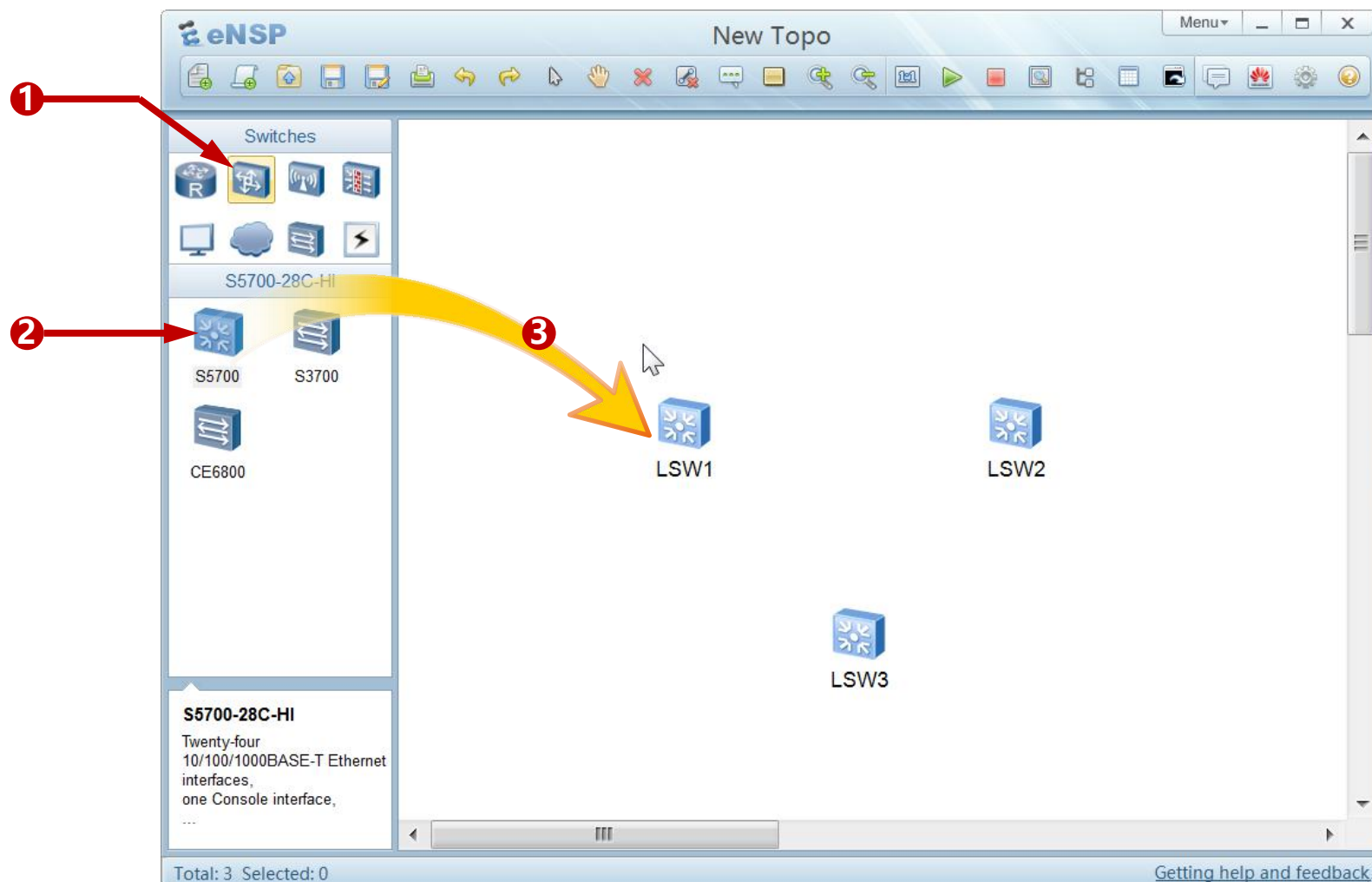
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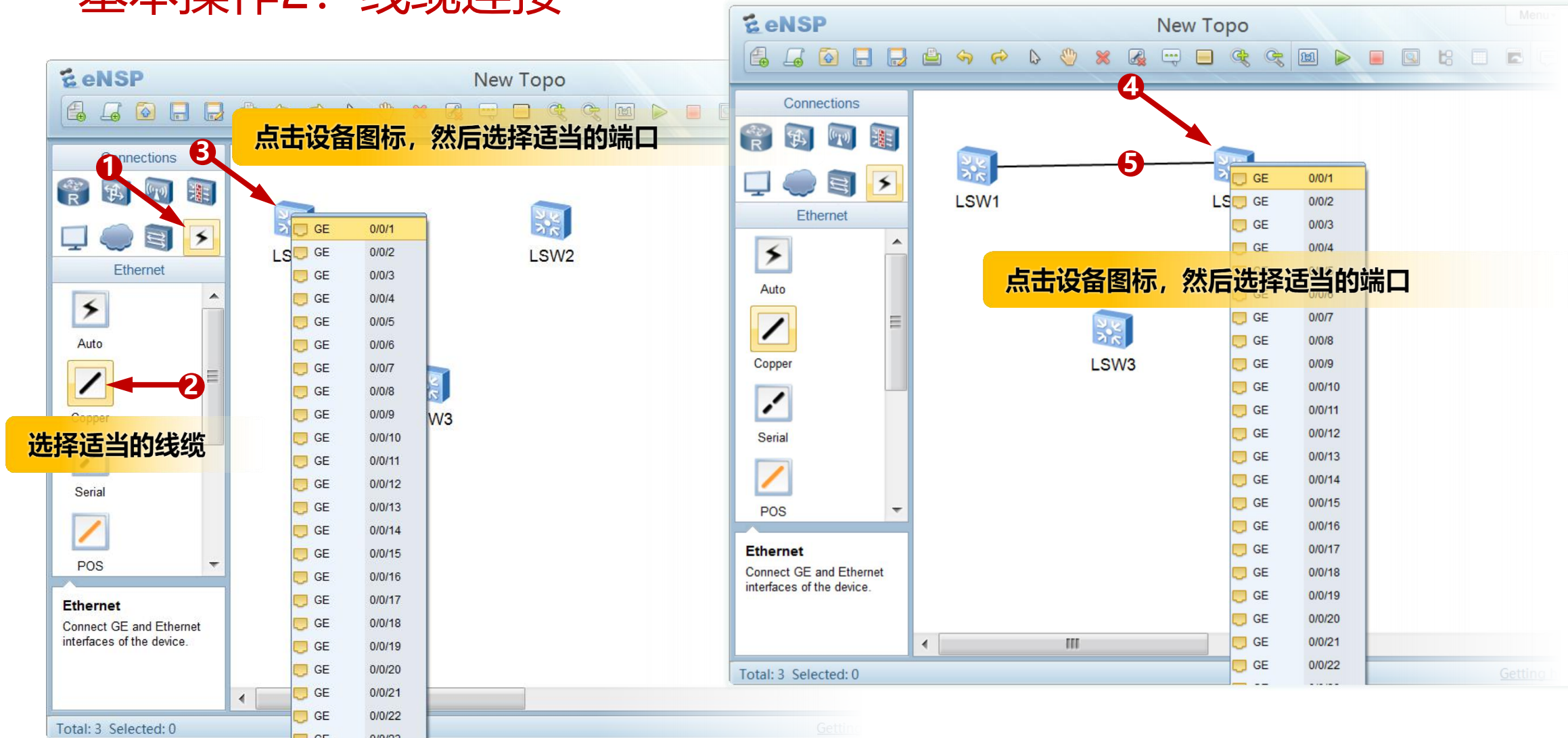
# eNSP的工作界面



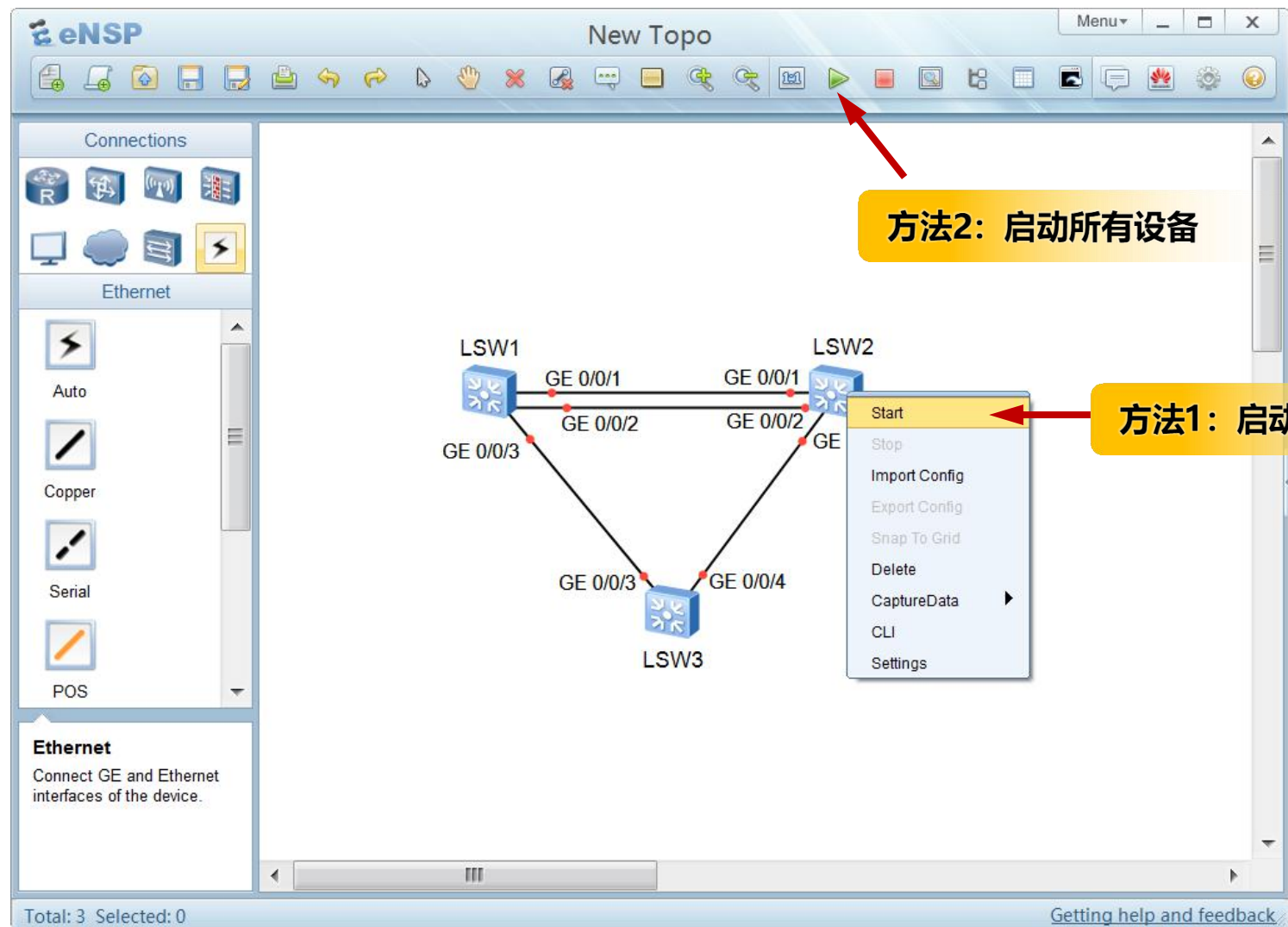
# 基本操作1：选择设备型号，拖动到拓扑画布



## 基本操作2：线缆连接



## 基本操作3：启动设备



## 基本操作4：登录设备的CLI（命令行界面）开始调试设备

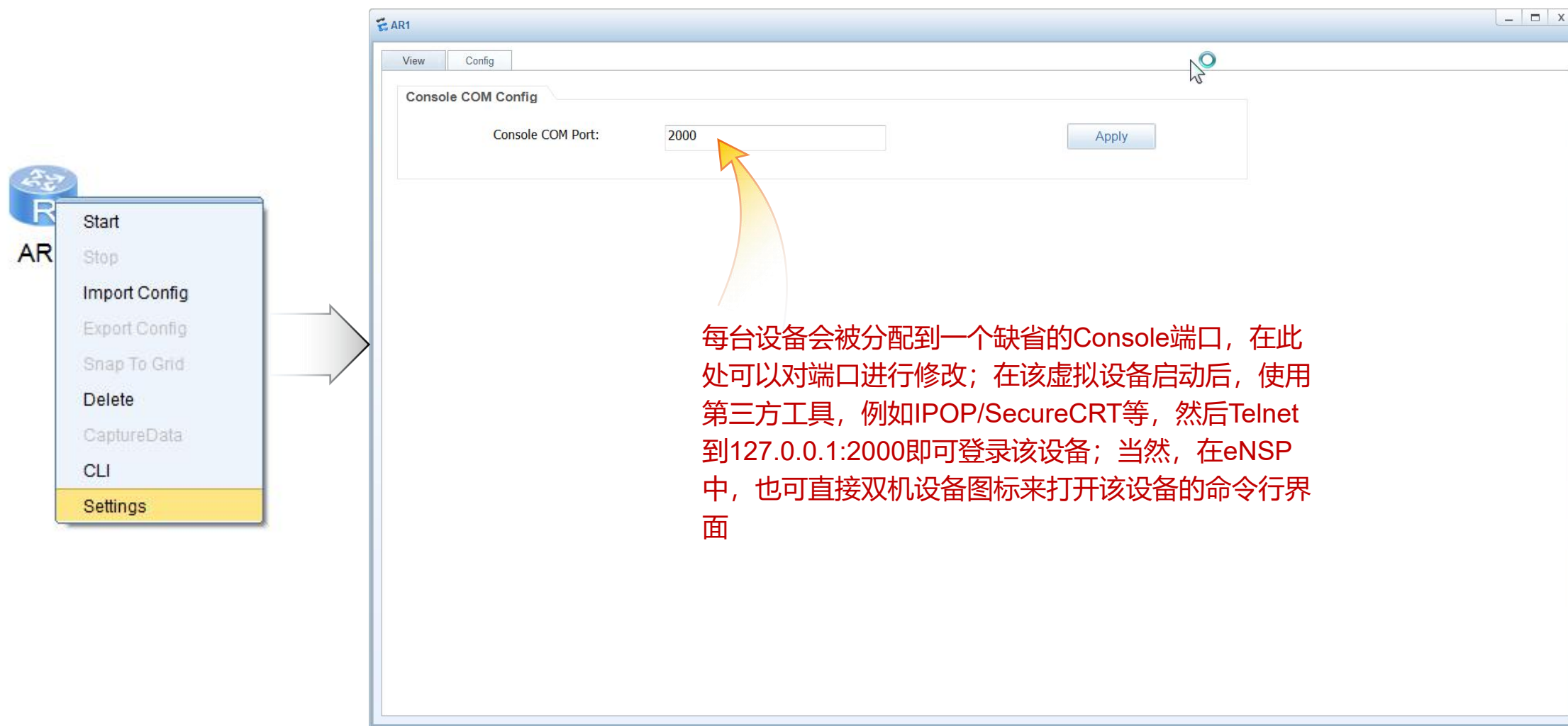
The screenshot displays the Huawei eNSP interface. On the left, a network topology is shown with three switches: LSW1, LSW2, and LSW3. LSW1 is connected to LSW2 via GE 0/0/1 and GE 0/0/2. LSW1 is also connected to LSW3 via GE 0/0/3. LSW2 is connected to LSW3 via GE 0/0/4. A yellow callout box with the text "双击设备" (Double-click the device) and a red arrow points to LSW2. On the right, the CLI window for LSW2 is open, showing the following commands and output:

```
LSW2
LSW2
The device is running!
<Huawei>
<Huawei>system-view
Enter system view, return user view with Ctrl+Z.
[Huawei]sysname SW2
[SW2]
Aug 3 2017 09:31:55-08:00 SW2 DS/4/DATASYNC_CFGCHANGE:OID 1.3.6.1.4.1.2011.5.25
.191.3.1 configurations have been changed. The current change number is 4, the c
hange loop count is 0, and the maximum number of records is 4095.
```

A yellow callout box with the text "在弹出的CLI中，对设备进行调试" (In the popped CLI, debug the device) is located below the CLI window.



## 基本操作4.1：配置设备的COM端口（可选）



## 基本操作5：在设备中保存配置信息、在工程中保存配置信息

LSW2

```
<SW2>system-view
Enter system view, return user view with Ctrl+Z.
[SW2]sysname Huawei
[Huawei]vlan batch 100
Info: This operation will take some time. Please wait.
[Huawei]quit
<Huawei>save
The current configuration will be written to the device.
Are you sure to continue?[Y/N]y
Info: Please input the file name ( *.cfg, *.zip ) [vrpcfg]
Now saving the current configuration to the slot 0.
Save the configuration successfully.
<Huawei>
```

① 在设备上执行save命令，  
将当前配置保存到该设备上

eNSP

Connections

Ethernet

Auto

② 保存当前拓扑及设备配置

LSW1

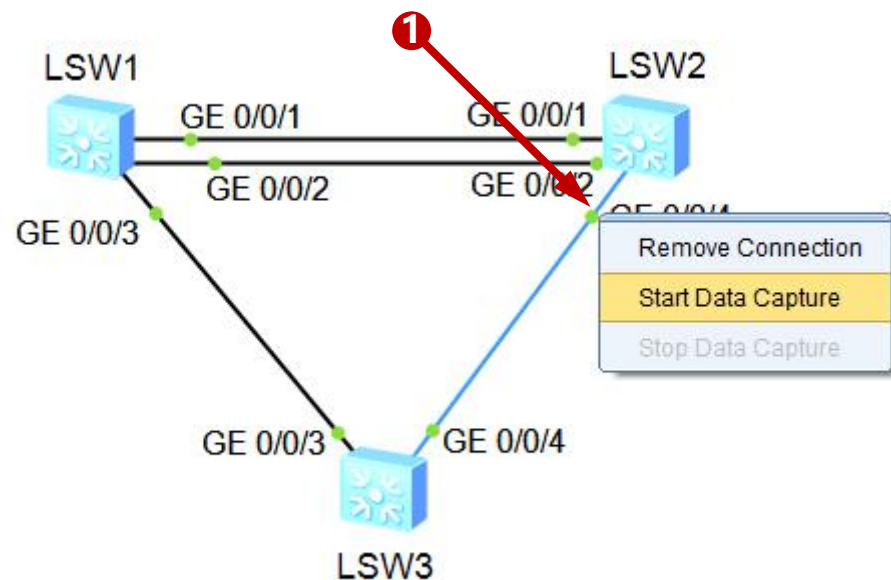
GE 0/0/1

GE 0/0/2

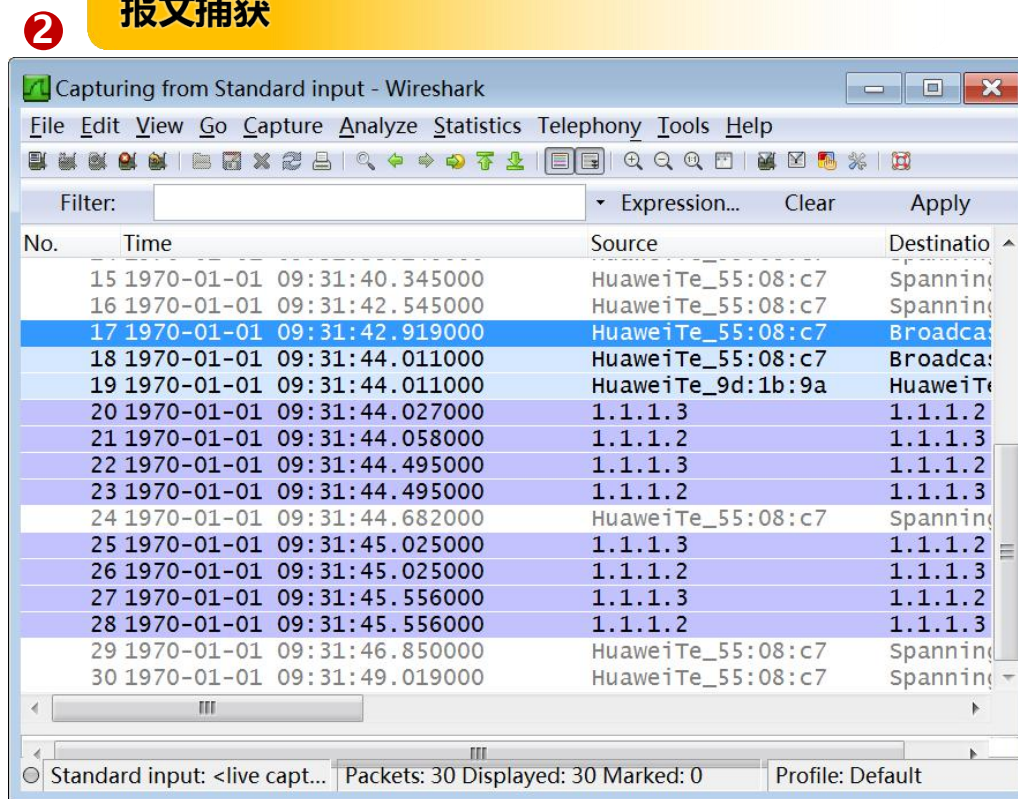
GE 0/0/3

## 基本操作6：捕获报文

在需要进行抓包的接口（绿色标记处）单击鼠标右键，  
在弹出的菜单中选择“Start Data Capture”

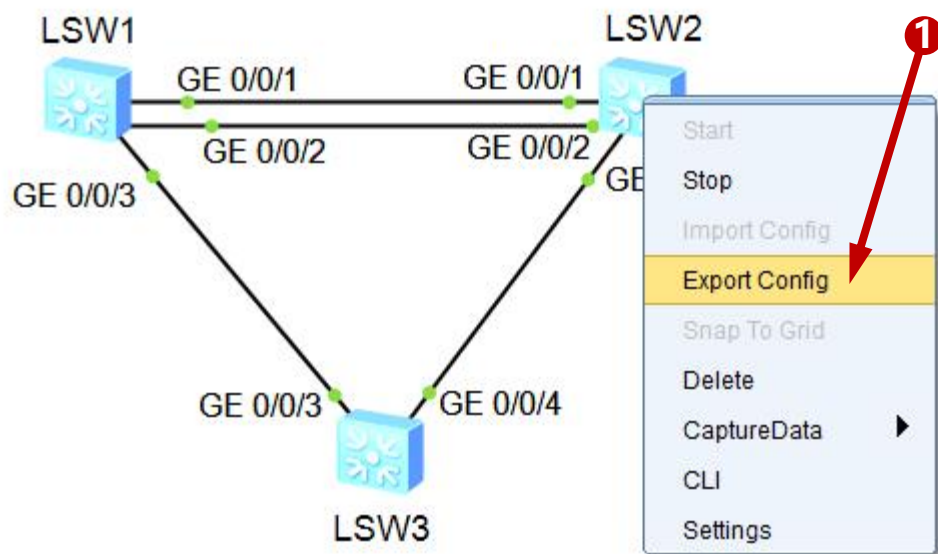


弹出Wireshark抓包工具界面，开始进行实时  
报文捕获



## 基本操作7：导出设备配置文件

对需要导出配置文件的设备单击鼠标右键，在弹出的菜单中选择“Export Config”



1 - 记事本  
文件(F) 编辑(E) 格式(O) 查看(V) 帮助(H)

```
#  
sysname Huawei  
#  
undo info-center enable  
#  
vlan batch 10 to 15  
#  
cluster enable  
ntdp enable  
ndp enable  
#  
drop illegal-mac alarm  
#  
diffserv domain default  
#  
drop-profile default  
#  
aaa  
authentication-scheme default  
authorization-scheme default  
accounting-scheme default  
domain default  
domain default_admin  
local-user admin password simple admin  
local-user admin service-type http
```

# Thank you.

把数字世界带入每个人、每个家庭、  
每个组织，构建万物互联的智能世界。

Bring digital to every person, home, and  
organization for a fully connected,  
intelligent world.

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