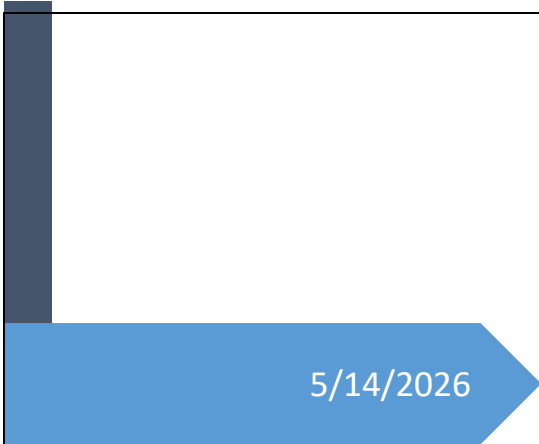
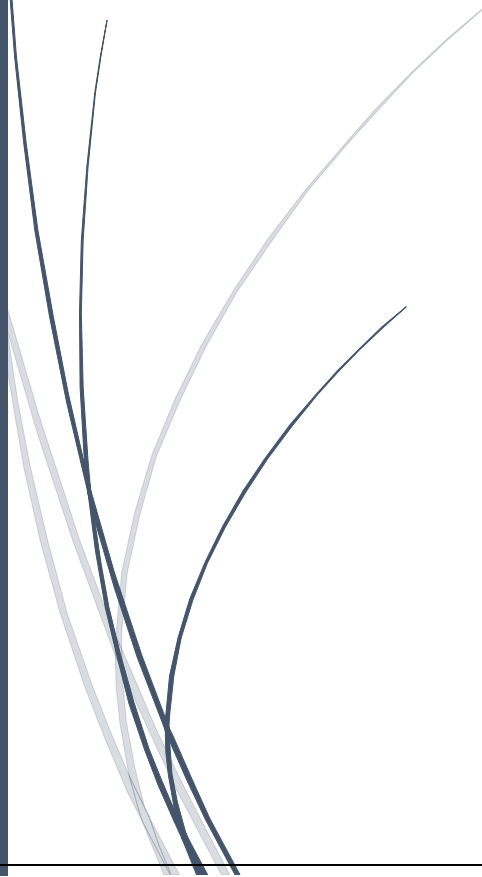


A dark blue vertical bar is on the left. A blue arrow points right from it, containing the date.

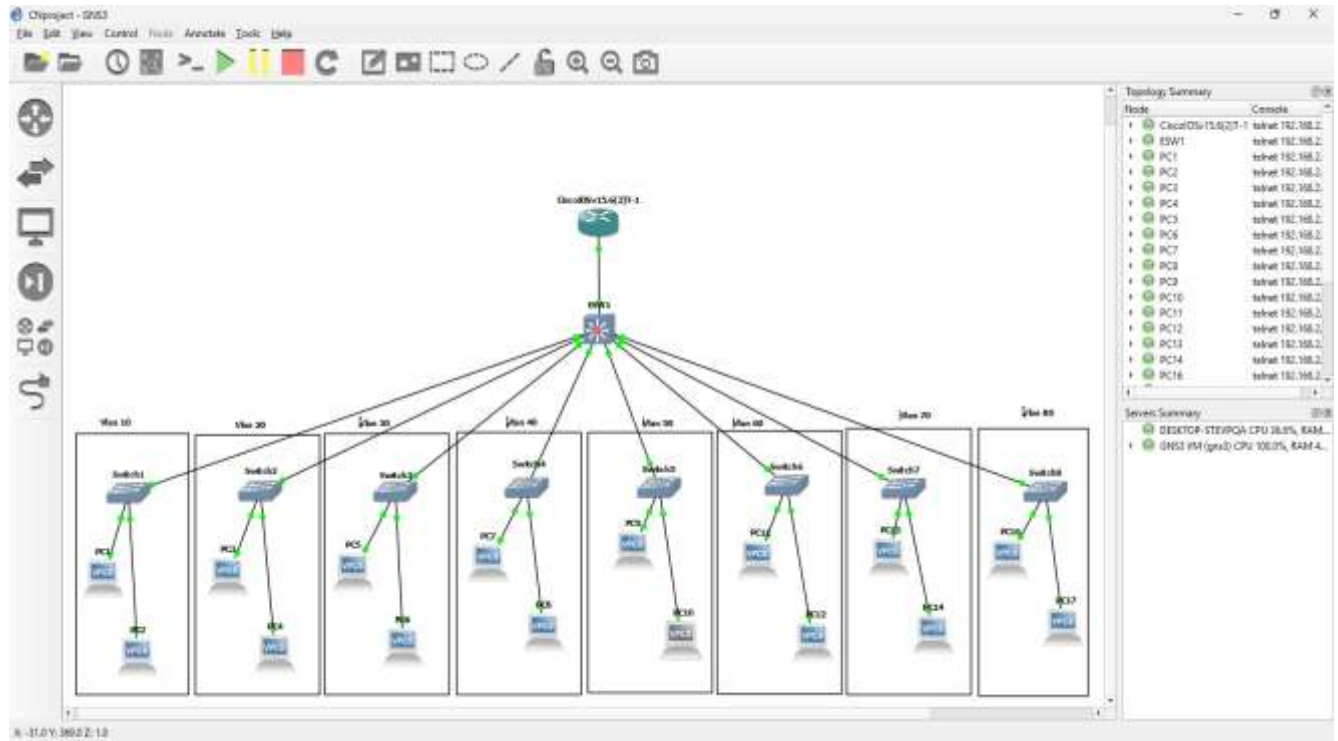
5/14/2026

Network Using GNS3 And Packet Capturing Using Wireshark

Several thin, curved lines in dark blue and light grey originate from the left side and sweep upwards and to the right.

Prepared By:
Rabya Hassan

Network



Setup:

- **1 router**
IOSv template: [cisco-iosv](#)
Image: [vios-adventerprisek9-m.vmdk.SPA.156-2](#)
- **1 L3 switch**
Image: [c3640-a3js-mz.124-23](#)
- **8 Ethernet switches(built in switch)**
- **16 vpcs**

VPCS Configuration:

VLAN 10:

- PC1: 192.168.10.2 gateway:192.168.10.1
- PC2: 192.168.10.3 gateway:192.168.10.1

```
PC1> ip 192.168.10.2/24 192.168.10.1
Checking for duplicate address...
PC1 : 192.168.10.2 255.255.255.0 gateway 192.168.10.1

PC1> █
```

```
PC2> ip 192.168.10.3/24 192.168.10.1
Checking for duplicate address...
PC2 : 192.168.10.3 255.255.255.0 gateway 192.168.10.1

PC2> █
```

VLAN 20:

- PC1: 192.168.20.2 gateway:192.168.20.1
- PC2: 192.168.20.3 gateway:192.168.20.1

```
PC3> ip 192.168.20.2/24 192.168.20.1
Checking for duplicate address...
PC3 : 192.168.20.2 255.255.255.0 gateway 192.168.20.1

PC3> █
```

```
PC4> ip 192.168.20.3/24 192.168.20.1
Checking for duplicate address...
PC4 : 192.168.20.3 255.255.255.0 gateway 192.168.20.1

PC4> █
```

VLAN 30:

- PC1: 192.168.30.2 gateway:192.168.30.1
- PC2: 192.168.30.3 gateway:192.168.30.1

```
PC5> ip 192.168.30.2/24 192.168.30.1
Checking for duplicate address...
PC5 : 192.168.30.2 255.255.255.0 gateway 192.168.30.1

PC5> █
```

```
PC6> ip 192.168.30.3/24 192.168.30.1
Checking for duplicate address...
PC6 : 192.168.30.3 255.255.255.0 gateway 192.168.30.1

PC6> █
```

VLAN 40:

- PC1: 192.168.40.2 gateway:192.168.40.1
- PC2: 192.168.40.3 gateway:192.168.40.1

```
PC7> ip 192.168.40.2/24 192.168.40.1
Checking for duplicate address...
PC7 : 192.168.40.2 255.255.255.0 gateway 192.168.40.1

PC7> █
```

```
PC8> ip 192.168.40.3/24 192.168.40.1
Checking for duplicate address...
PC8 : 192.168.40.3 255.255.255.0 gateway 192.168.40.1

PC8> █
```

VLAN 50:

- PC1: 192.168.50.2 gateway:192.168.50.1
- PC2: 192.168.50.3 gateway:192.168.50.1

```
PC9> ip 192.168.50.2/24 192.168.50.1
Checking for duplicate address...
PC9 : 192.168.50.2 255.255.255.0 gateway 192.168.50.1
PC9> █
```

```
PC10> ip 192.168.50.3/24 192.168.50.1
Checking for duplicate address...
PC10 : 192.168.50.3 255.255.255.0 gateway 192.168.50.1
PC10> █
```

VLAN 60:

- PC1: 192.168.60.2 gateway:192.168.60.1
- PC2: 192.168.60.3 gateway:192.168.60.1

```
PC11> ip 192.168.60.2/24 192.168.60.1
Checking for duplicate address...
PC11 : 192.168.60.2 255.255.255.0 gateway 192.168.60.1
PC11> █
```

```
PC12> ip 192.168.60.3/24 192.168.60.1
Checking for duplicate address...
PC12 : 192.168.60.3 255.255.255.0 gateway 192.168.60.1
PC12> █
```

VLAN 70:

- PC1: 192.168.70.2 gateway:192.168.70.1
- PC2: 192.168.70.3 gateway:192.168.70.1

```
PC13> ip 192.168.70.2/24 192.168.70.1
Checking for duplicate address...
PC13 : 192.168.70.2 255.255.255.0 gateway 192.168.70.1

PC13> █
```

```
PC15> ip 192.168.70.3/24 192.168.70.1
Checking for duplicate address...
PC15 : 192.168.70.3 255.255.255.0 gateway 192.168.70.1

PC15> █
```

VLAN 80:

- PC1: 192.168.80.2 gateway:192.168.80.1
- PC2: 192.168.80.3 gateway:192.168.80.1

```
PC16> ip 192.168.80.2/24 192.168.80.1
Checking for duplicate address...
PC16 : 192.168.80.2 255.255.255.0 gateway 192.168.80.1

PC16> █
```

```
PC17> ip 192.168.80.3/24 192.168.80.1
Checking for duplicate address...
PC17 : 192.168.80.3 255.255.255.0 gateway 192.168.80.1

PC17> █
```

Note: Make sure to enter the command “save” after entering ip of each pc’s.

Ethernet Switch Configuration (built in):

Node properties

Switch1 configuration

General

Name: Switch1

Console type: none

Settings

Port: 2

VLAN: 10

Type: access

QinQ EtherType: 0x8100

Ports

Port	VLAN	Type	EtherType
0	10	dot1q	
1	10	access	
2	10	access	
3	1	access	
4	1	access	
5	1	access	
6	1	access	
7	1	access	

Buttons: Add, Delete, Reset, OK, Cancel, Apply

Each of the 8 built-in switches requires the following port configuration:

- **Port 0** (uplink to main switch ESW1): **Trunk mode(dot1Q)** - carries VLAN traffic to ESW1
- **Ports 1 & 2** (connected to PCs): **Access mode** - assigned to the switch's respective VLAN

Repeat this configuration for all 8 switches (Switch1 through Switch8), ensuring Port 0 is set to trunk and Ports 1-2 are set to access mode with the correct VLAN assignment

Ethernet Layer 3 Switch Setup

- **ESW1 VLAN Database Configuration**

```
ESW1(config)#exit
ESW1#
*Mar  1 00:12:30.099: %SYS-5-CONFIG_I: Configured from console by console
ESW1#vlan database
ESW1(vlan)#vlan 10 name vlan10
VLAN 10 added:
    Name: vlan10
ESW1(vlan)#vlan 20 name vlan20
VLAN 20 added:
    Name: vlan20
ESW1(vlan)#vlan 30 name vlan30
VLAN 30 added:
    Name: vlan30
ESW1(vlan)#vlan 40 name vlan40
VLAN 40 added:
    Name: vlan40
ESW1(vlan)#vlan 50 name vlan50
VLAN 50 added:
    Name: vlan50
ESW1(vlan)#vlan 60 name vlan60
VLAN 60 added:
    Name: vlan60
ESW1(vlan)#vlan 70 name vlan70
VLAN 70 added:
    Name: vlan70
ESW1(vlan)#vlan 80 name vlan80
VLAN 80 added:
    Name: vlan80
ESW1(vlan)#
```

The main switch (ESW1) has successfully created and configured a VLAN database containing 8 VLANs. Each VLAN is named according to its VLAN ID and has been added to the switch's VLAN database. The configuration includes:

- VLAN 10 (vlan10) - for Switch1
- VLAN 20 (vlan20) - for Switch2
- VLAN 30 (vlan30) - for Switch3
- VLAN 40 (vlan40) - for Switch4
- VLAN 50 (vlan50) - for Switch5
- VLAN 60 (vlan60) - for Switch6
- VLAN 70 (vlan70) - for Switch7
- VLAN 80 (vlan80) - for Switch8

All VLANs have been successfully added to the VLAN database on ESW1. This configuration enables proper VLAN segmentation across the network, with each of the 8 connected switches assigned to its own dedicated VLAN. The VLANs are then trunked to the router via port Fa0/8 for inter-VLAN routing.

- **ESW1 Access Port Configuration for VLAN Assignment**

```

ESW1(config)#interface fastEthernet 0/0
ESW1(config-if)#switchport mode access
ESW1(config-if)#switchport access vlan 10
ESW1(config-if)#no shutdown
ESW1(config-if)#
*Mar 1 00:18:26.543: %LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan10, changed state to up
ESW1(config-if)#
*Mar 1 00:18:28.419: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
ESW1(config-if)#exit
ESW1(config)#interface fastEthernet 0/1
ESW1(config-if)#switchport mode access
ESW1(config-if)#switchport access vlan 20
ESW1(config-if)#no shutdown
ESW1(config-if)#
*Mar 1 00:19:31.183: %LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan20, changed state to up
ESW1(config-if)#
*Mar 1 00:19:33.099: %LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up
ESW1(config-if)#exit
ESW1(config)#interface fastEthernet 0/2
ESW1(config-if)#switchport mode access
ESW1(config-if)#switchport access vlan 30
ESW1(config-if)#no sh
*Mar 1 00:20:04.899: %LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan30, changed state to up
ESW1(config-if)#no shutdown
ESW1(config-if)#exit
ESW1(config)#interface fastEthernet 0/3
ESW1(config-if)#switchport mode access
ESW1(config-if)#switchport access vlan 40
ESW1(config-if)#
*Mar 1 00:20:58.503: %LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan40, changed state to up
ESW1(config-if)#no shutdown
ESW1(config-if)#exit
ESW1(config)#interface fastEthernet 0/4
ESW1(config-if)#switchport mode access
ESW1(config-if)#switchport access vlan 50
ESW1(config-if)#no shut
*Mar 1 00:22:03.043: %LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan50, changed state to up
ESW1(config-if)#no shutdown
ESW1(config-if)#exit
ESW1(config)#interface fastEthernet 0/5
ESW1(config-if)#switchport mode access
ESW1(config-if)#switchport access vlan 60
ESW1(config-if)#
*Mar 1 00:22:38.627: %LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan60, changed state to up
ESW1(config-if)#no shutdown
ESW1(config-if)#exit
ESW1(config)#interface fastEthernet 0/6
ESW1(config-if)#switchport mode access
ESW1(config-if)#switchport access vlan 70
ESW1(config-if)#
*Mar 1 00:23:24.511: %LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan70, changed state to up
ESW1(config-if)#no shutdown
ESW1(config-if)#exit
ESW1(config)#interface fastEthernet 0/7
ESW1(config-if)#switchport mode access
ESW1(config-if)#switchport access vlan 80
ESW1(config-if)#
*Mar 1 00:24:03.875: %LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan80, changed state to up
ESW1(config-if)#no shutdown
ESW1(config-if)#exit
ESW1(config)#

```

The main switch (ESW1) has been configured with 8 FastEthernet access ports (Fa0/0 through Fa0/7), each assigned to a specific VLAN. Each port is set to access mode and has been brought up (no shutdown). The configuration includes:

- **Port Fa0/0:** Access mode, assigned to VLAN 10
- **Port Fa0/1:** Access mode, assigned to VLAN 20
- **Port Fa0/2:** Access mode, assigned to VLAN 30
- **Port Fa0/3:** Access mode, assigned to VLAN 40
- **Port Fa0/4:** Access mode, assigned to VLAN 50
- **Port Fa0/5:** Access mode, assigned to VLAN 60
- **Port Fa0/6:** Access mode, assigned to VLAN 70
- **Port Fa0/7:** Access mode, assigned to VLAN 80

All ports have been enabled and are operational, as confirmed by the LINEPROTO-5-UPDOWN system messages indicating each interface has come up.

• ESW1 Trunk Port Configuration

```
ESW1(config)#interface fastEthernet 0/8
ESW1(config-if)#switchport trunk encapsulation dot1q
ESW1(config-if)#switchport mode trunk
ESW1(config-if)#
*Mar  1 00:28:06.223: %DTP-5-TRUNKPORTON: Port Fa0/8 has become dot1q trunk
ESW1(config-if)#no shutdown
ESW1(config-if)#exit
ESW1(config)#end
ESW1#wr
*Mar  1 00:28:37.699: %SYS-5-CONFIG_I: Configured from console by console
ESW1#write memory
Building configuration...
[OK]
ESW1#
```

The main switch (ESW1) has been configured with a trunk port (FastEthernet 0/8) to connect to the router. This port is configured to carry VLAN traffic using 802.1Q (dot1q) encapsulation, allowing multiple VLANs to pass through a single physical link. The configuration includes:

- **Port Fa0/8:** Trunk mode enabled with dot1q encapsulation
- **Encapsulation:** 802.1Q (dot1q) - standard VLAN tagging protocol
- **Status:** Interface is up and operational (LINEPROTO-5-TRUNKPORTON message confirms successful trunk activation)
- **No Shutdown:** Interface has been enabled

The trunk port successfully transitions to an active trunk state, as confirmed by the system message "Port Fa0/8 has become dot1q trunk." This trunk link carries all 8 VLANs (10, 20, 30, 40, 50, 60, 70, 80) from ESW1 to the router's Gi0/0 interface, enabling the router to perform inter-VLAN routing. The configuration has been saved to memory, ensuring persistence after device restart.

Router Subinterface Configuration for VLAN Routing

```

Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface gigabitEthernet 0/0.10
Router(config-subif)#encapsulation dot1Q 10
Router(config-subif)#ip address 192.168.10.1 255.255.255.0
Router(config-subif)#no shutdown
Router(config-subif)#exit
Router(config)#interface gigabitEthernet 0/0.20
Router(config-subif)#encapsulation dot1Q 20
Router(config-subif)#ip address 192.168.20.1 255.255.255.0
Router(config-subif)#no shutdown
Router(config-subif)#exit
Router(config)#interface gigabitEthernet 0/0.30
Router(config-subif)#encapsulation dot1Q 30
Router(config-subif)#ip address 192.168.30.1 255.255.255.0
Router(config-subif)#no shutdown
Router(config-subif)#exit
Router(config)#interface gigabitEthernet 0/0.40
Router(config-subif)#encapsulation dot1Q 40
Router(config-subif)#ip address 192.168.40.1 255.255.255.0
Router(config-subif)#no shutdown
Router(config-subif)#exit
Router(config)#interface gigabitEthernet 0/0.50
Router(config-subif)#encapsulation dot1Q 50
Router(config-subif)#ip address 192.168.50.1 255.255.255.0
Router(config-subif)#no shutdown
Router(config-subif)#exit
Router(config)#interface gigabitEthernet 0/0.60
Router(config-subif)#encapsulation dot1Q 60
Router(config-subif)#ip address 192.168.60.1 255.255.255.0
Router(config-subif)#no shutdown
Router(config-subif)#exit
Router(config)#interface gigabitEthernet 0/0.70
Router(config-subif)#encapsulation dot1Q 70
Router(config-subif)#ip address 192.168.70.1 255.255.255.0
Router(config-subif)#no shutdown
Router(config-subif)#exit
Router(config)#interface gigabitEthernet 0/0.80
Router(config-subif)#encapsulation dot1Q 80
Router(config-subif)#ip address 192.168.80.1 255.255.255.0
Router(config-subif)#no shutdown
Router(config-subif)#exit
Router(config)#ip routing
Router(config)#end
Router#writ
*Dec 13 14:26:15.293: %SYS-5-CONFIG_I: Configured from console by consolee
Router#write memory
Building configuration...
[OK]

```

The router has been configured with 8 subinterfaces on its Gi0/0 port, one for each VLAN. Each subinterface uses 802.1Q (dot1q) encapsulation and has been assigned a gateway IP address for its respective VLAN:

- **Gi0/0.10:** VLAN 10 gateway - 192.168.10.1/24
- **Gi0/0.20:** VLAN 20 gateway - 192.168.20.1/24

- **Gi0/0.30:** VLAN 30 gateway - 192.168.30.1/24
- **Gi0/0.40:** VLAN 40 gateway - 192.168.40.1/24
- **Gi0/0.50:** VLAN 50 gateway - 192.168.50.1/24
- **Gi0/0.60:** VLAN 60 gateway - 192.168.60.1/24
- **Gi0/0.70:** VLAN 70 gateway - 192.168.70.1/24
- **Gi0/0.80:** VLAN 80 gateway - 192.168.80.1/24

All subinterfaces are enabled (no shutdown) and IP routing is activated. This router-on-a-stick configuration enables inter-VLAN routing, allowing devices in different VLANs to communicate through the router via the single trunk link to ESW1.

Configuration Check

❑ Switch check:

```
ESW1#show interfaces status
```

Port	Name	Status	Vlan	Duplex	Speed	Type
Fa0/0	*** Unused for Lay	connected	10	a-full	a-100	10/100BaseTX
Fa0/1	*** Unused for Lay	connected	20	a-full	a-100	10/100BaseTX
Fa0/2		connected	30	a-full	a-100	10/100BaseTX
Fa0/3		connected	40	a-full	a-100	10/100BaseTX
Fa0/4		connected	50	a-full	a-100	10/100BaseTX
Fa0/5		connected	60	a-full	a-100	10/100BaseTX
Fa0/6		connected	70	a-full	a-100	10/100BaseTX
Fa0/7		connected	80	a-full	a-100	10/100BaseTX
Fa0/8		connected	trunk	a-full	a-100	10/100BaseTX
Fa0/9		notconnect	1	auto	auto	10/100BaseTX
Fa0/10		notconnect	1	auto	auto	10/100BaseTX
Fa0/11		notconnect	1	auto	auto	10/100BaseTX
Fa0/12		notconnect	1	auto	auto	10/100BaseTX
Fa0/13		notconnect	1	auto	auto	10/100BaseTX
Fa0/14		notconnect	1	auto	auto	10/100BaseTX
Fa0/15		notconnect	1	auto	auto	10/100BaseTX
Fa1/0		notconnect	1	auto	auto	10/100BaseTX
Fa1/1		notconnect	1	auto	auto	10/100BaseTX
Fa1/2		notconnect	1	auto	auto	10/100BaseTX
Fa1/3		notconnect	1	auto	auto	10/100BaseTX
Fa1/4		notconnect	1	auto	auto	10/100BaseTX

• Router check:

```
Router#show ip interface brief
```

Interface	IP-Address	OK?	Method	Status	Protocol
GigabitEthernet0/0	unassigned	YES	NVRAM	up	up
GigabitEthernet0/0.10	192.168.10.1	YES	manual	up	up
GigabitEthernet0/0.20	192.168.20.1	YES	manual	up	up
GigabitEthernet0/0.30	192.168.30.1	YES	manual	up	up
GigabitEthernet0/0.40	192.168.40.1	YES	manual	up	up
GigabitEthernet0/0.50	192.168.50.1	YES	manual	up	up
GigabitEthernet0/0.60	192.168.60.1	YES	manual	up	up
GigabitEthernet0/0.70	192.168.70.1	YES	manual	up	up
GigabitEthernet0/0.80	192.168.80.1	YES	manual	up	up
GigabitEthernet0/1	unassigned	YES	NVRAM	administratively down	down
GigabitEthernet0/2	unassigned	YES	NVRAM	administratively down	down

```
--More--
```

Ping Testing

```
PC1> ping 192.168.80.3

84 bytes from 192.168.80.3 icmp_seq=1 ttl=63 time=98.815 ms
84 bytes from 192.168.80.3 icmp_seq=2 ttl=63 time=13.654 ms
84 bytes from 192.168.80.3 icmp_seq=3 ttl=63 time=6.213 ms
84 bytes from 192.168.80.3 icmp_seq=4 ttl=63 time=7.208 ms
84 bytes from 192.168.80.3 icmp_seq=5 ttl=63 time=3.576 ms

PC1> █
```

```
PC13> ping 192.168.50.2

84 bytes from 192.168.50.2 icmp_seq=1 ttl=63 time=79.540 ms
84 bytes from 192.168.50.2 icmp_seq=2 ttl=63 time=4.995 ms
84 bytes from 192.168.50.2 icmp_seq=3 ttl=63 time=4.730 ms
84 bytes from 192.168.50.2 icmp_seq=4 ttl=63 time=5.642 ms
84 bytes from 192.168.50.2 icmp_seq=5 ttl=63 time=7.006 ms

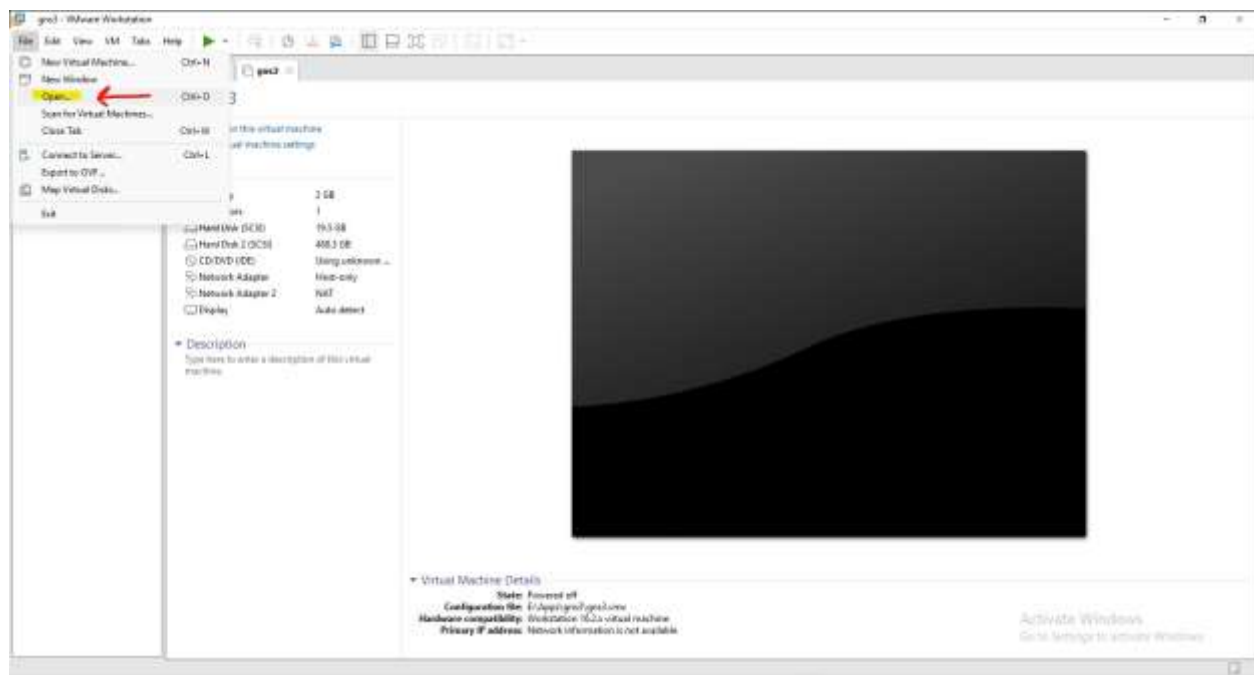
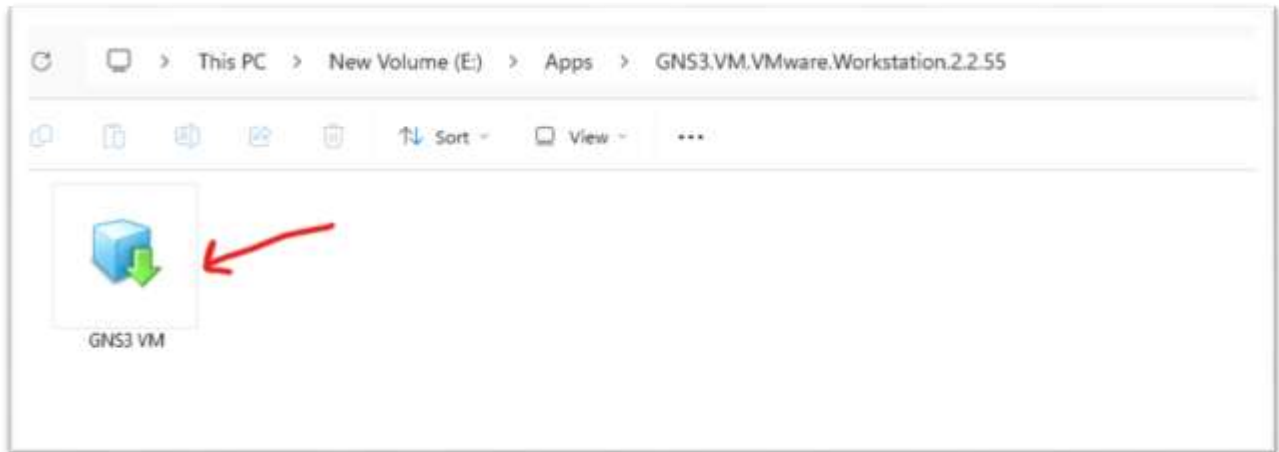
PC13> █
```

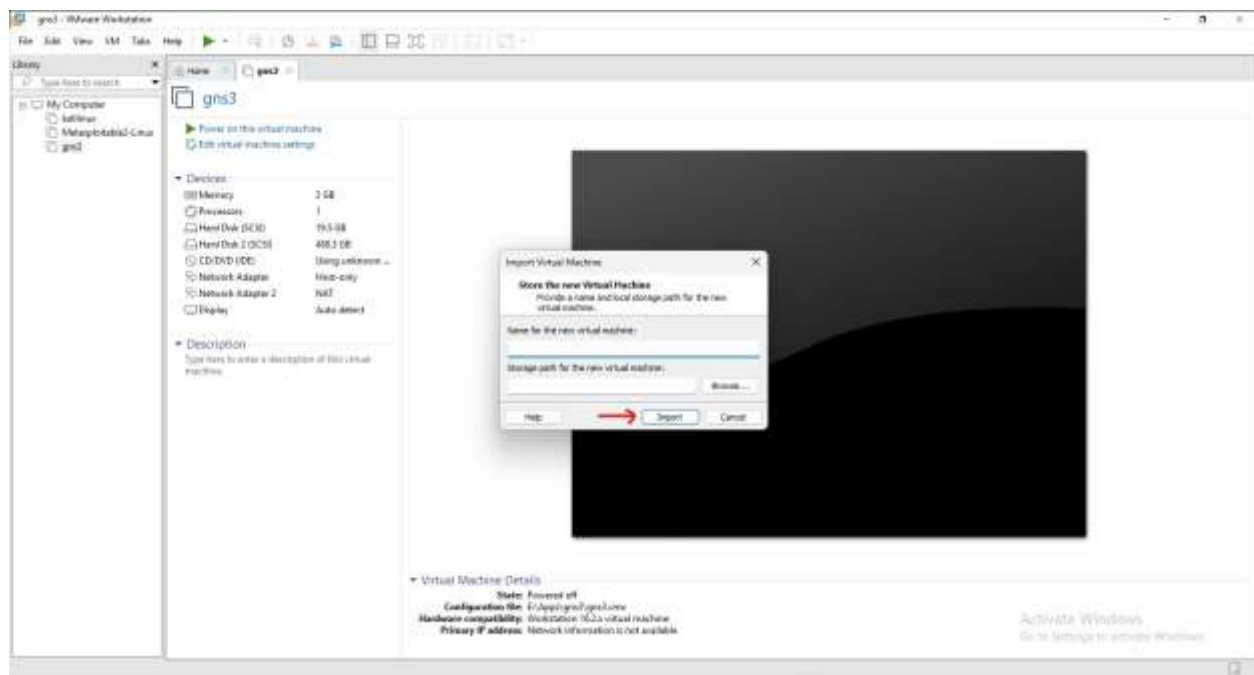
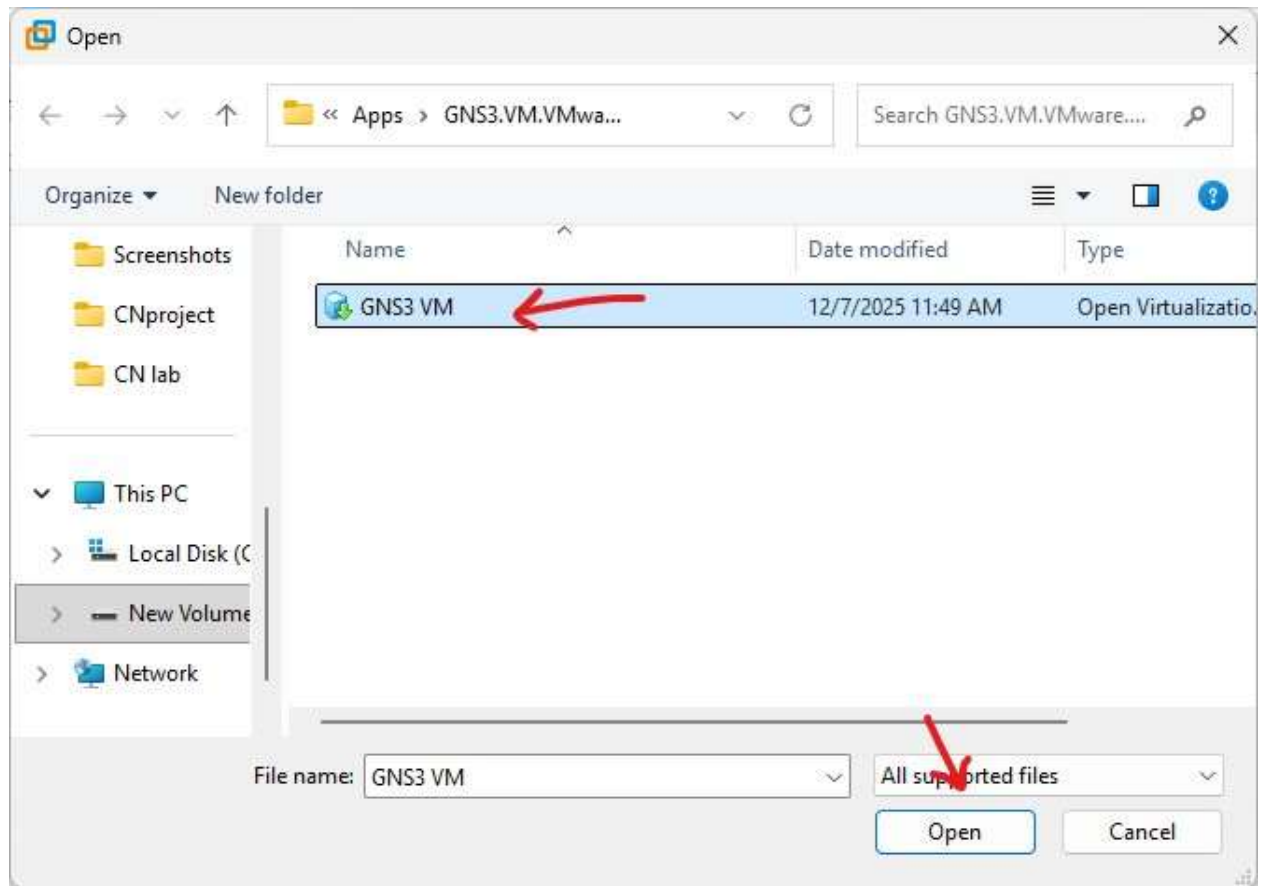
Pre-Requisites □

Gns3 VM installation:

<https://sourceforge.net/projects/gns-3/files/Releases/v2.2.15/GNS3.VM.VMware.Workstation.2.2.15.zip/download> Download

this GNS3 virtual machine.

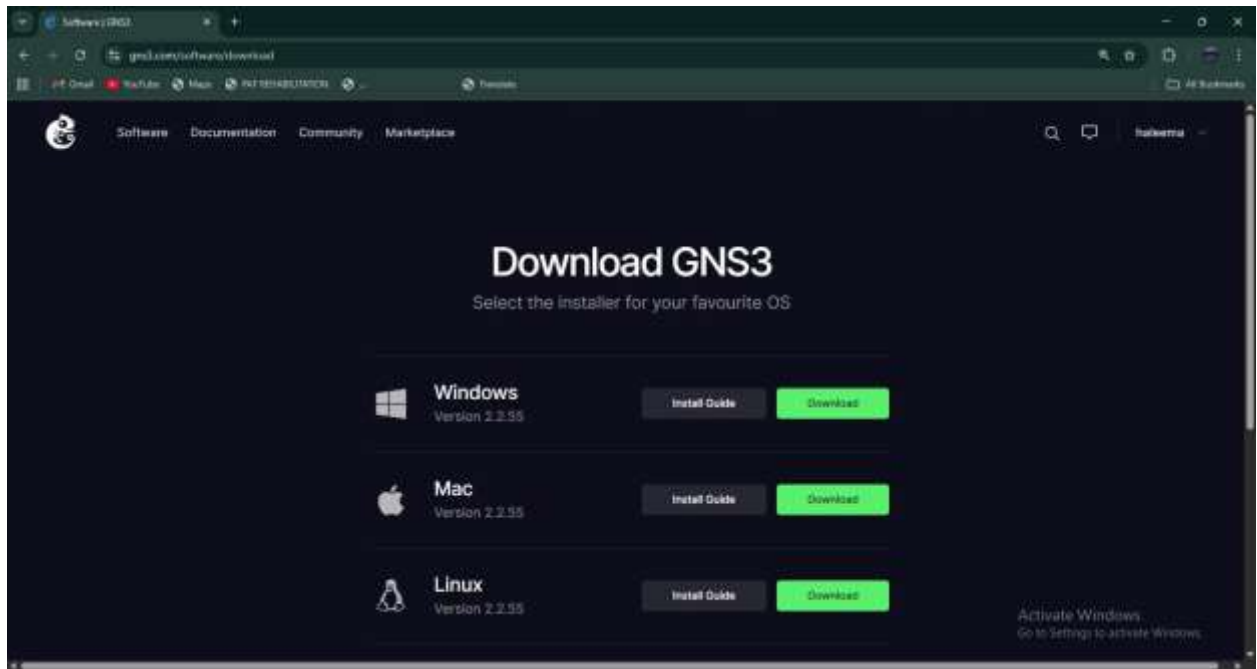




After naming the VM, import it and power on it.

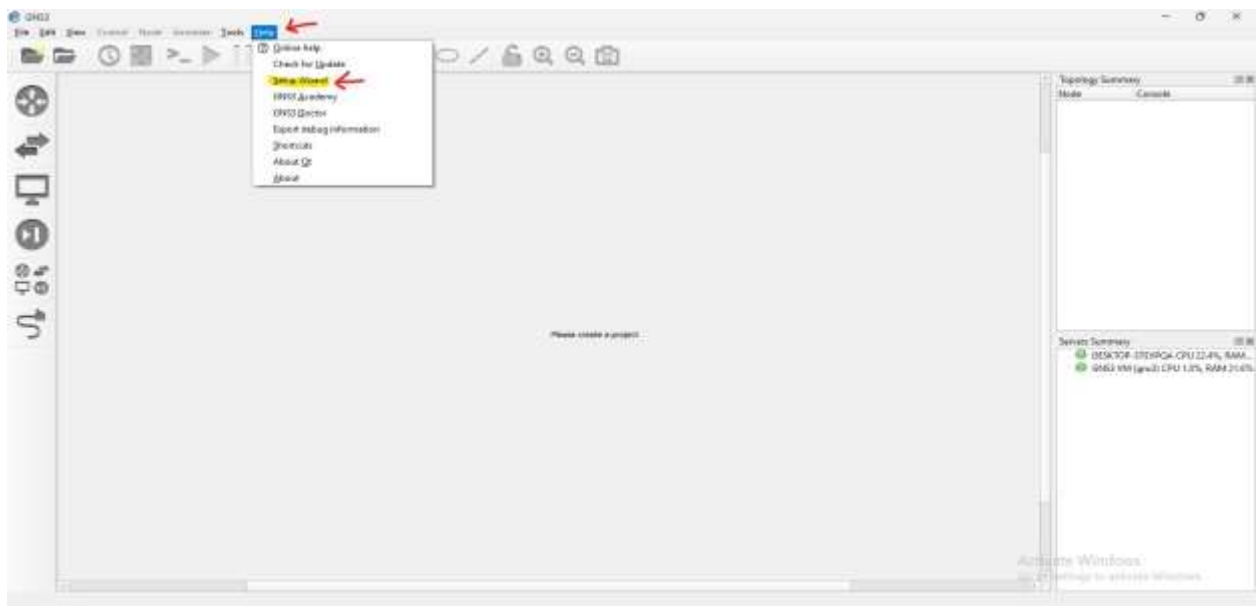
- **Gns3 Software installation:**

<https://www.gns3.com/software/download>



Download and install, gns3 software.

- **Connecting GNS3 and VM:**



Setup Wizard

Server

Please choose how would like to run your GNS3 network simulations. The GNS3 VM option is strongly recommended on Windows and Mac OS X.

☒ **Run appliances in a virtual machine**
Requires to download and install the GNS3 VM (available for free)

☐ **Run appliances on my local computer**
A limited number of appliances like the Cisco IOS routers <= C7200 can be run

☐ **Run appliances on a remote server (advanced usage)**
The server will be on a remote computer and can be shared with multiple users

☒ Don't show this again



Setup Wizard

Local server configuration

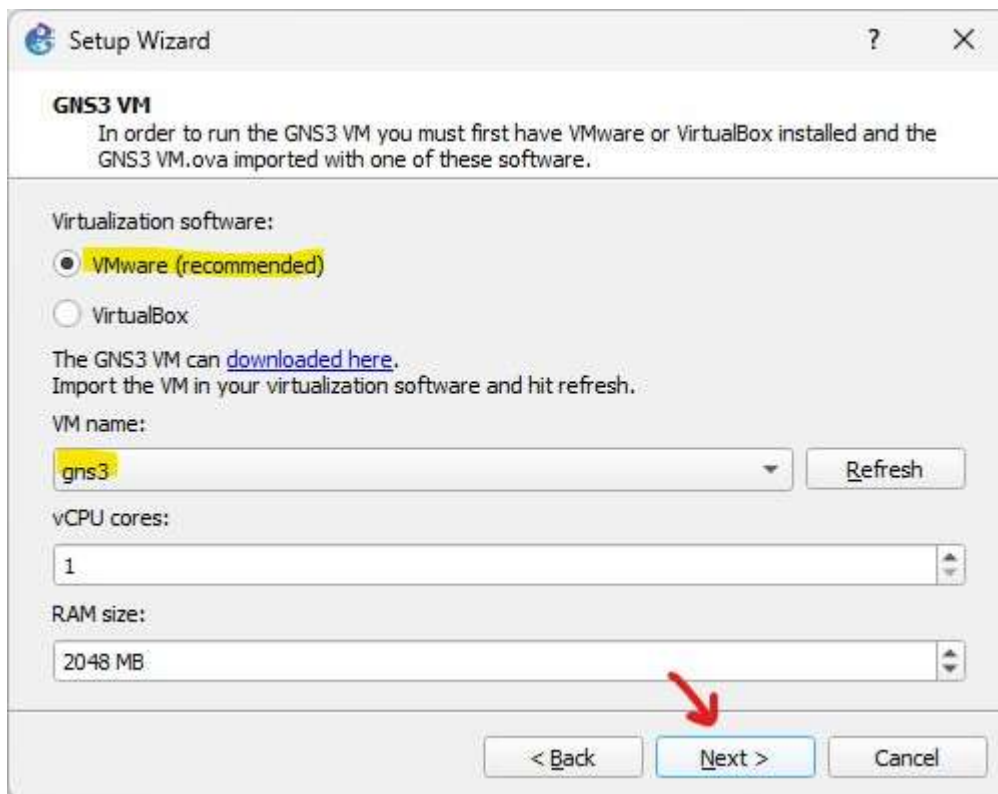
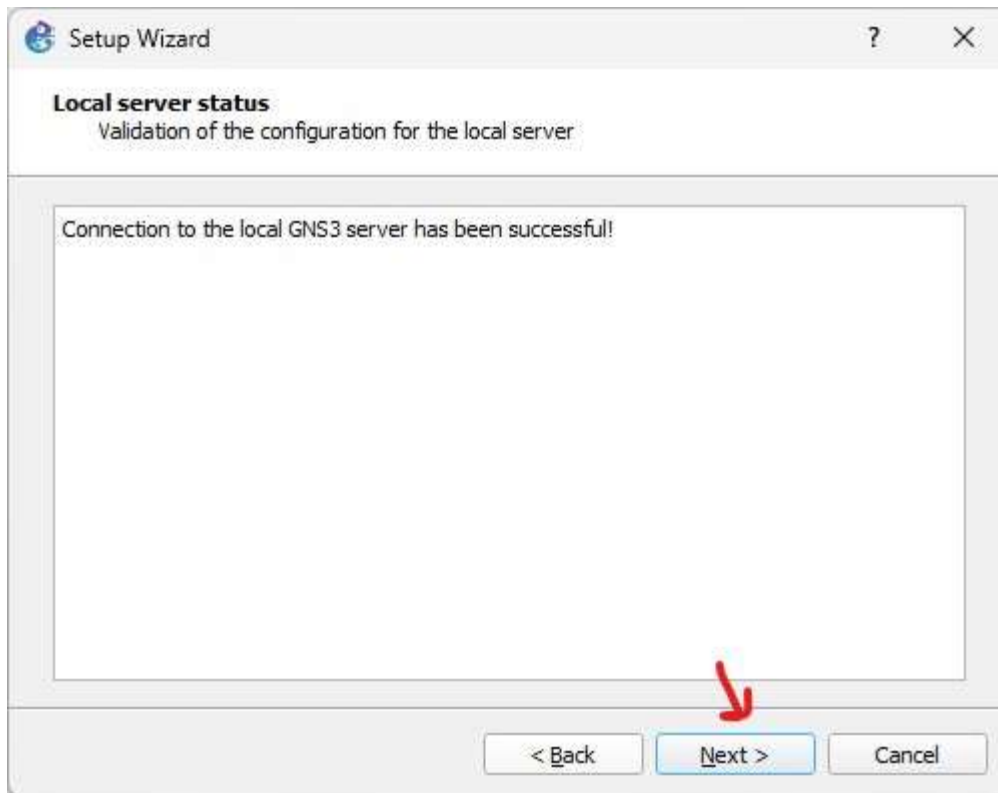
Please configure the following GNS3 local server settings

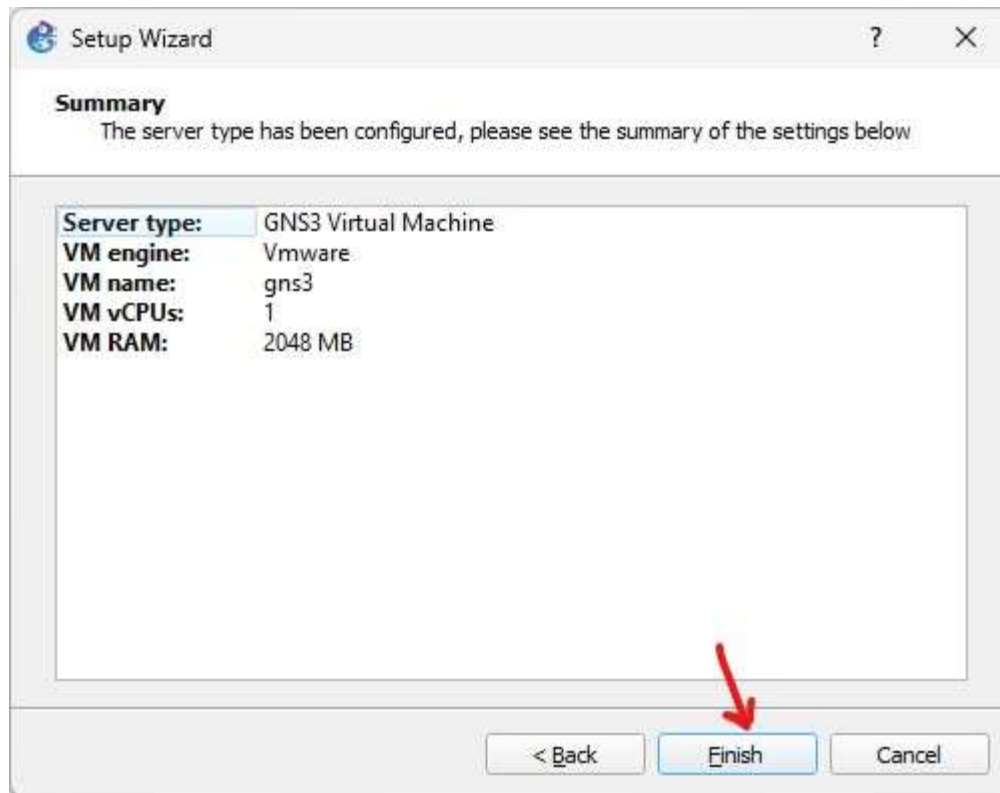
Server path:

Host binding:

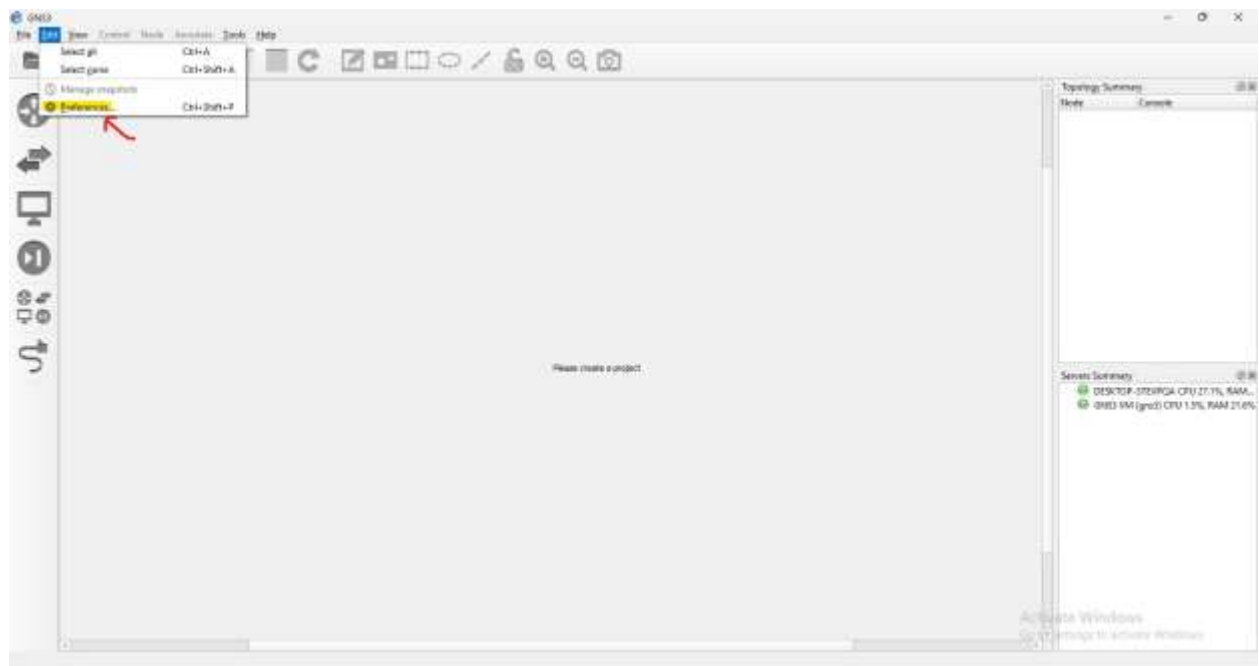
Port:

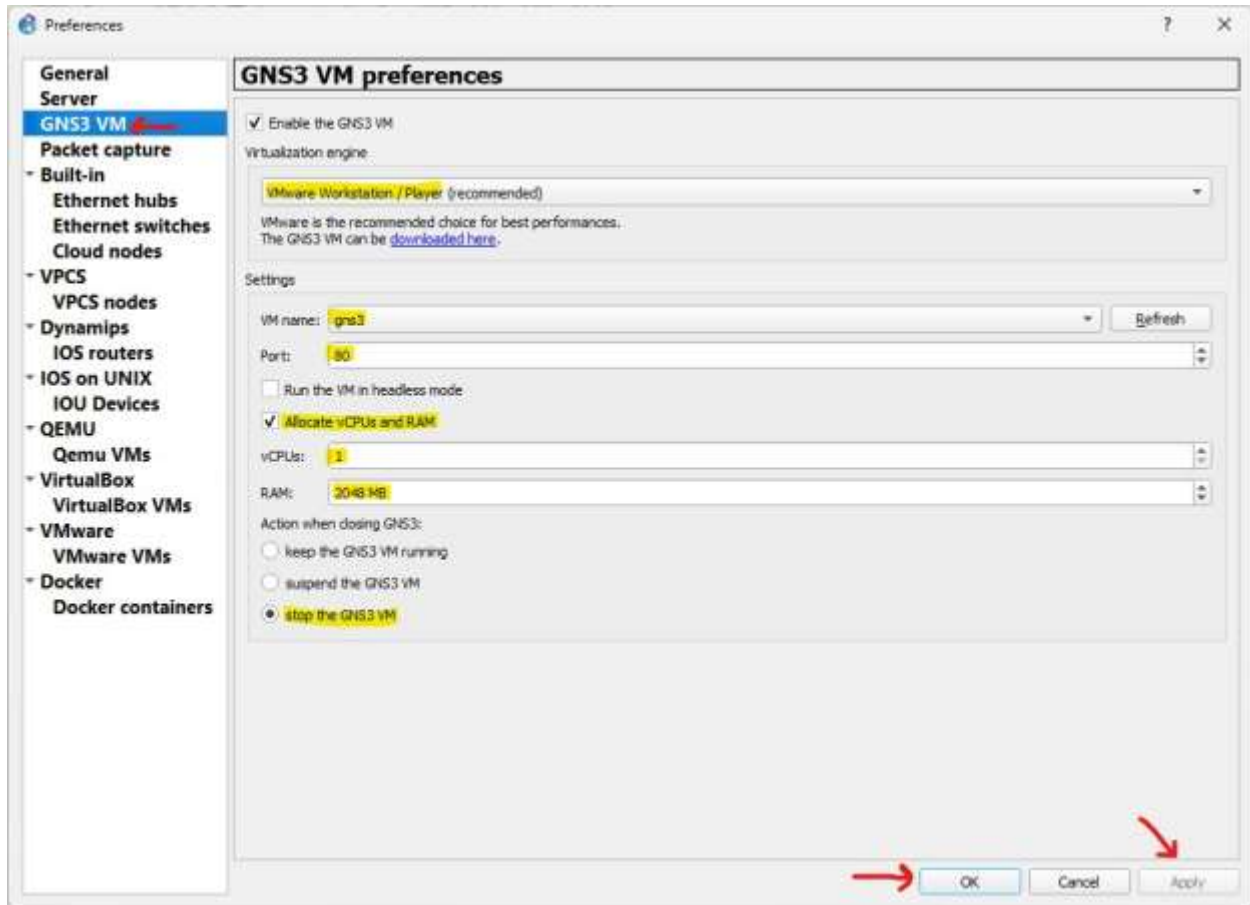






Configuration GNS3:



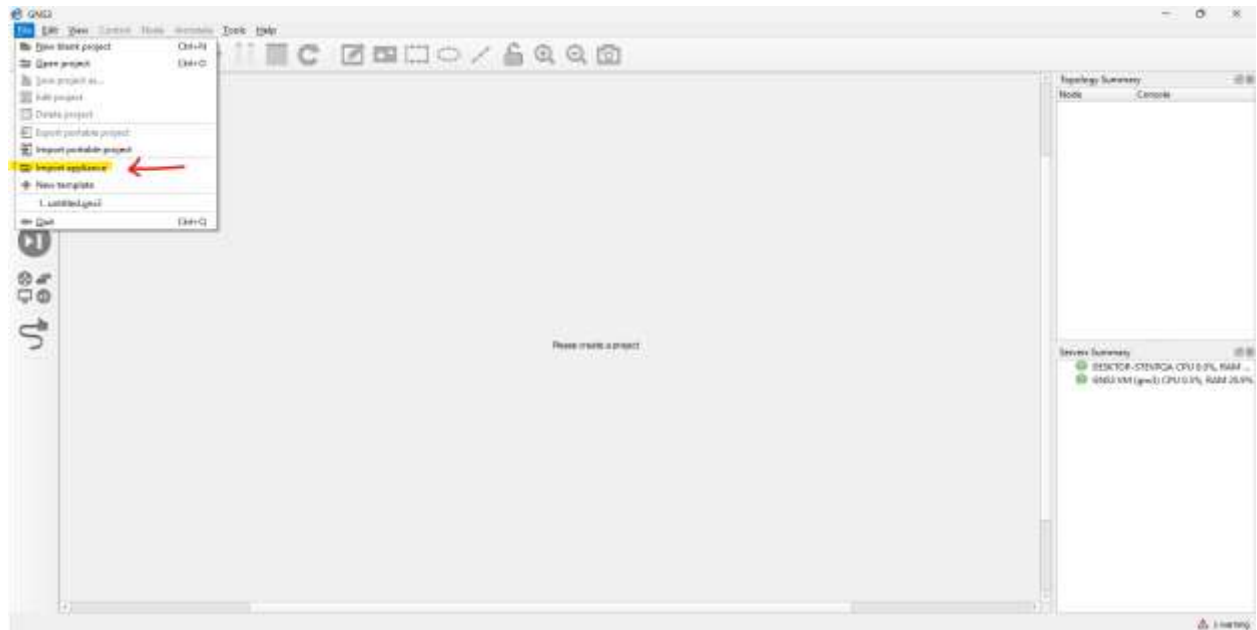


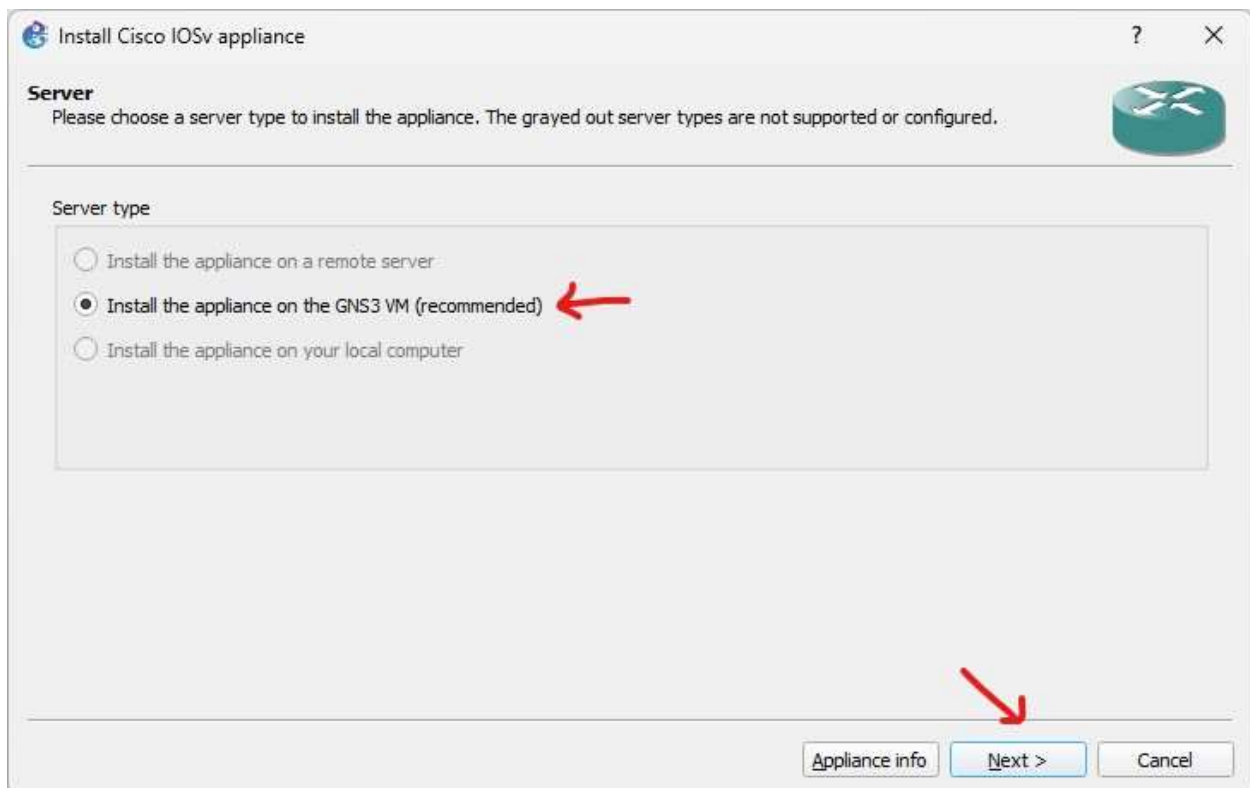
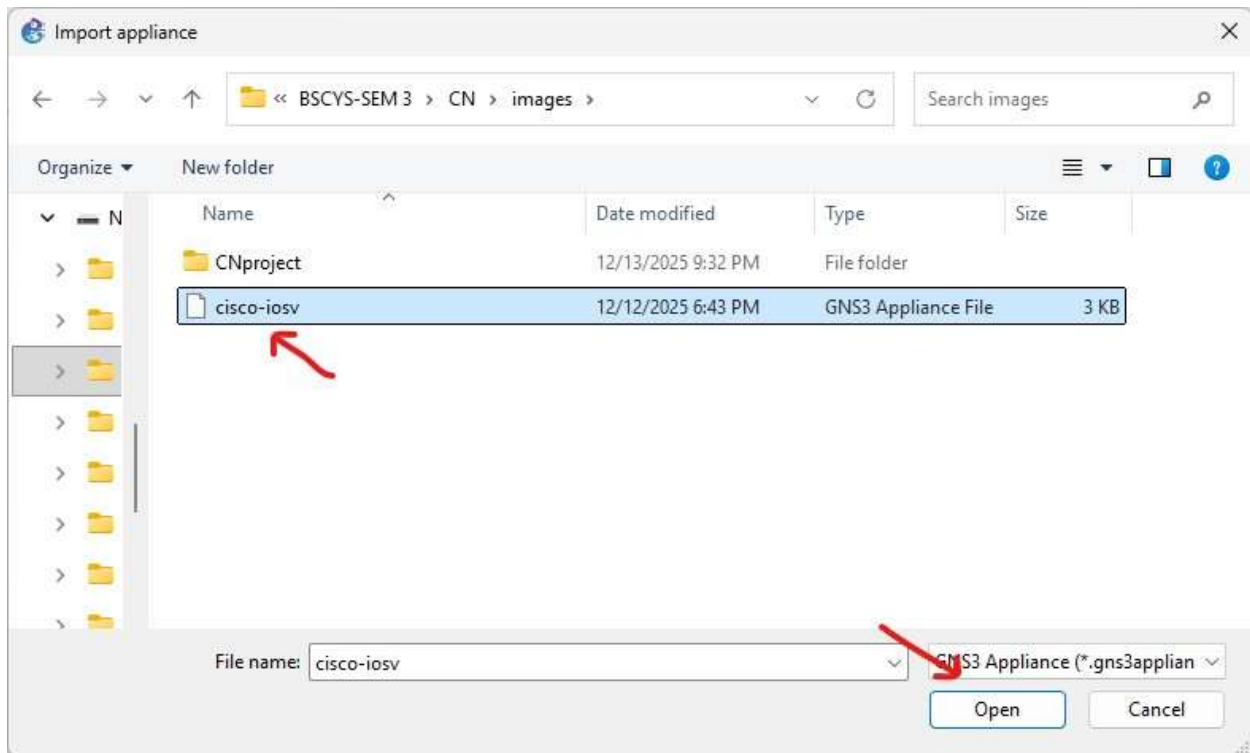
• Router And Switch Images:

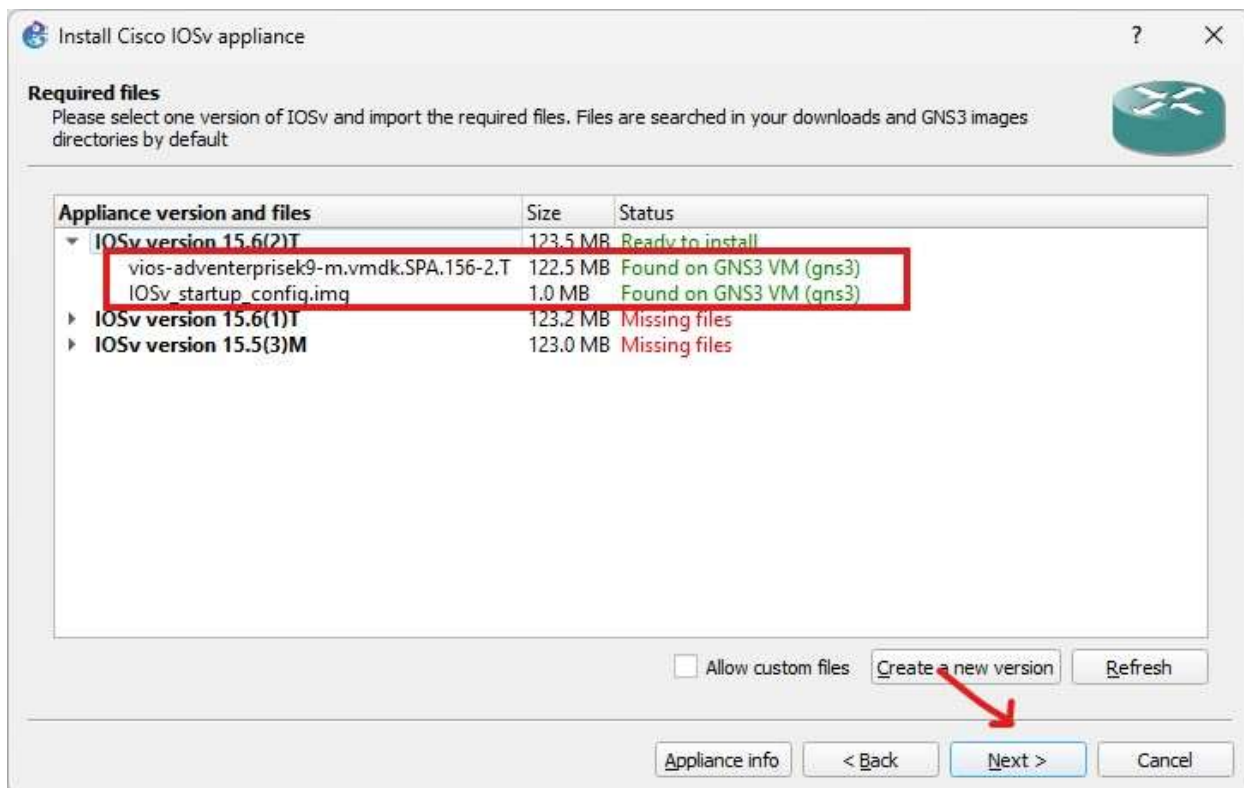
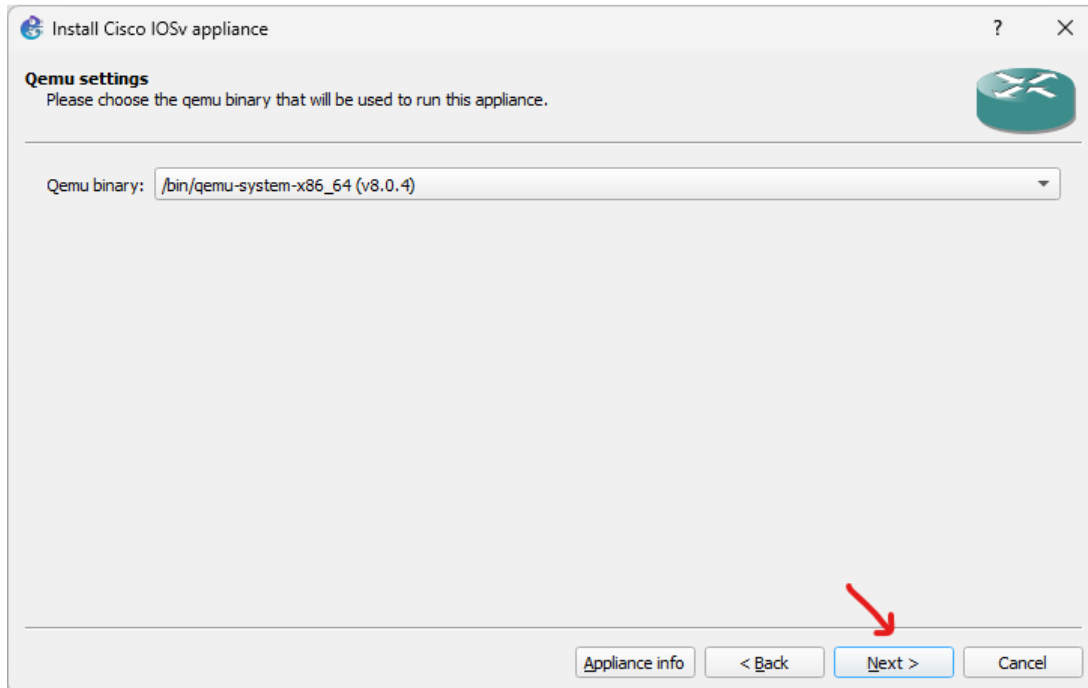
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cisco-iosv.gns3a.md5sum	12/12/2025 6:43 PM	MD5SUM File	1 KB
IOSv_startup_config	12/12/2025 6:42 PM	Disc Image File	1,024 KB
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vios-adventerprisek9-m.vmdk.SPA.156-2	12/12/2025 6:41 PM	Perl Source File	125,440 KB
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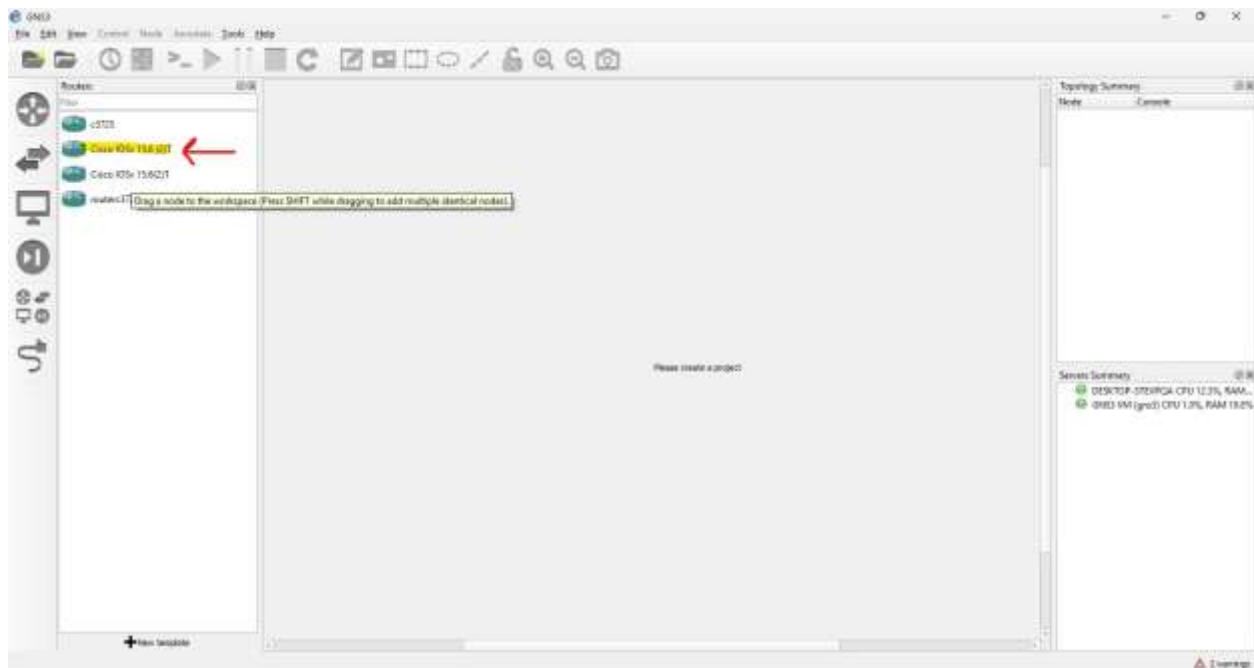
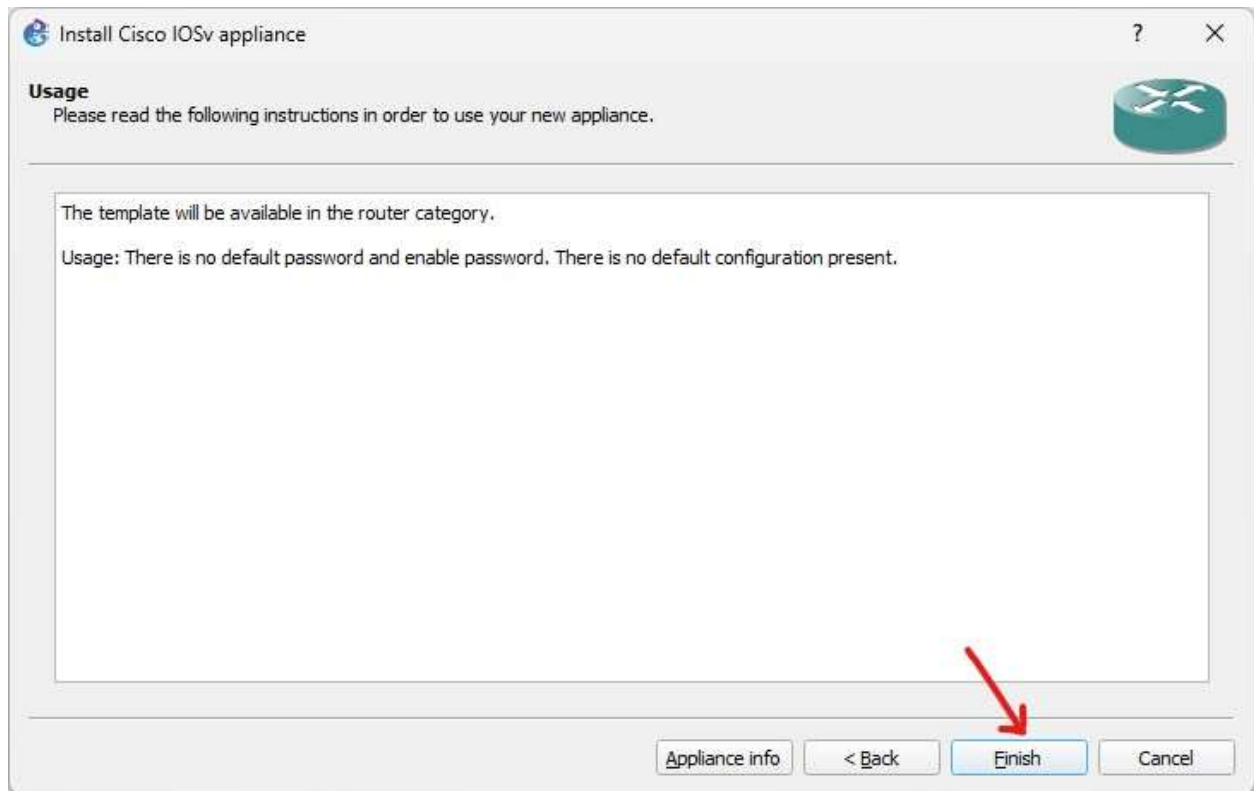
• Router installation

c3640-a3js-mz.124-23.image	12/13/2025 3:08 PM	IMAGE File	64,160 KB
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IOSv_startup_config	12/12/2025 6:42 PM	Disc Image File	1,024 KB
IOSv_startup_config.img.md5sum	12/12/2025 6:42 PM	MD5SUM File	1 KB
vios-adventerprise9-m.vmdk.SPA.156-2	12/12/2025 6:41 PM	Perl Source File	125,440 KB
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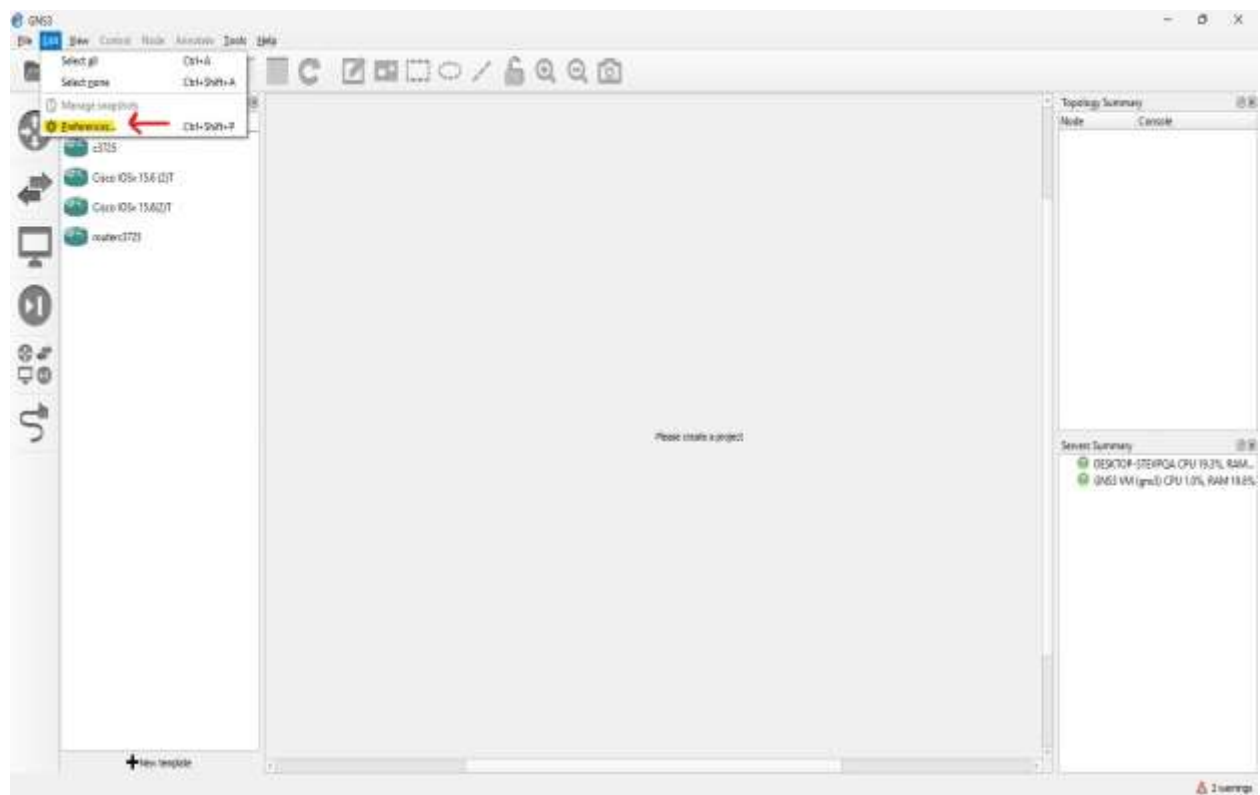


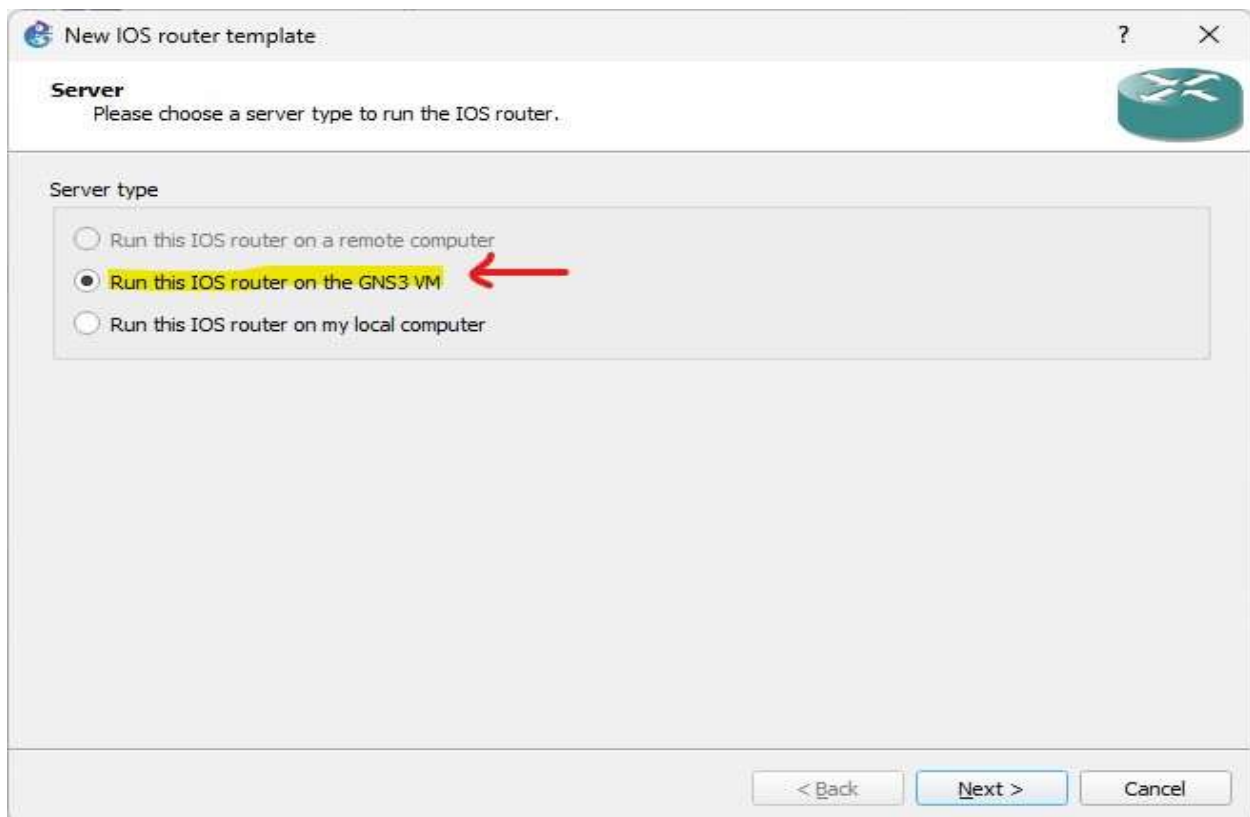
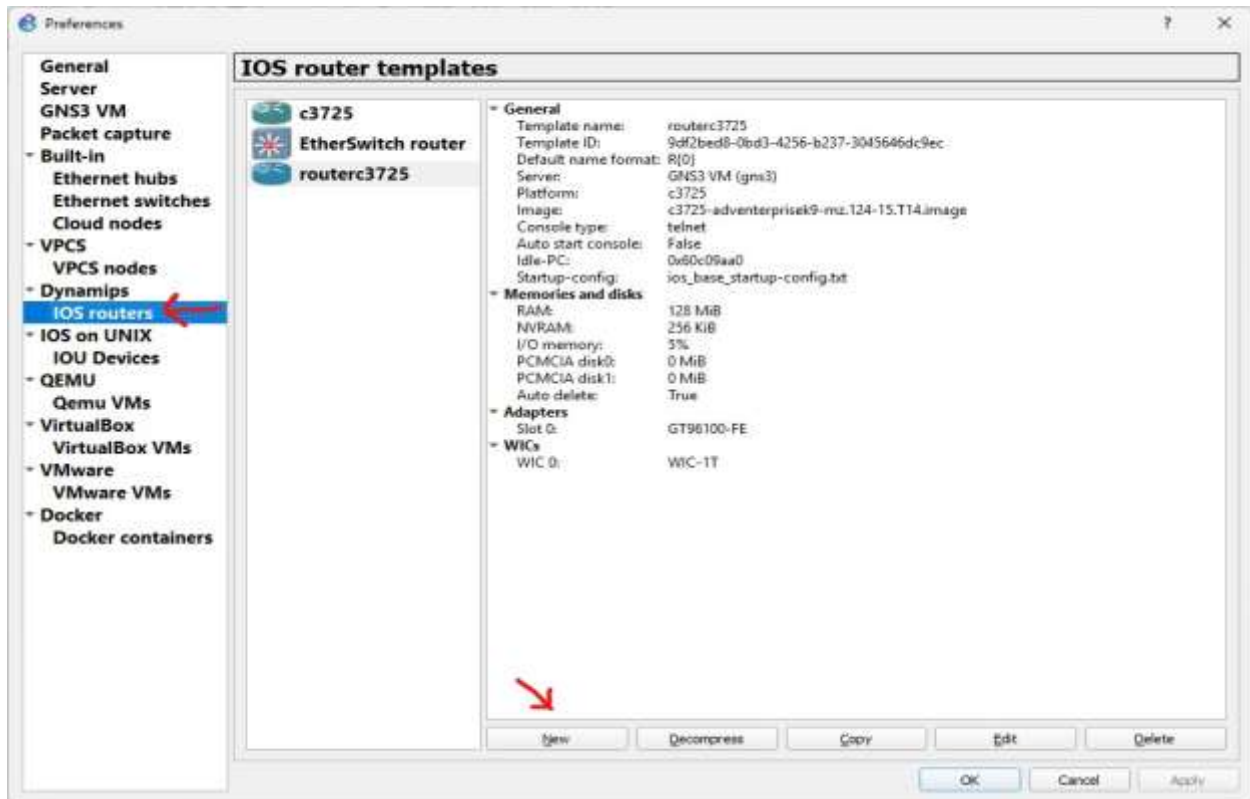


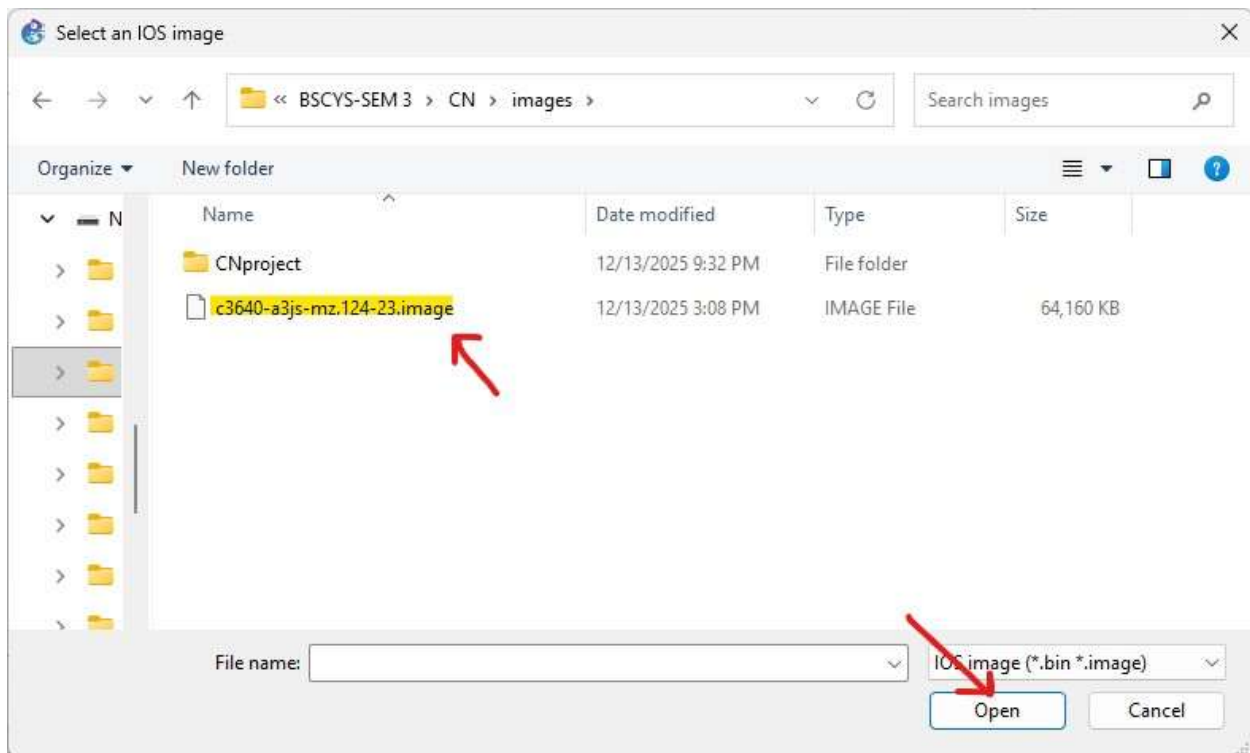
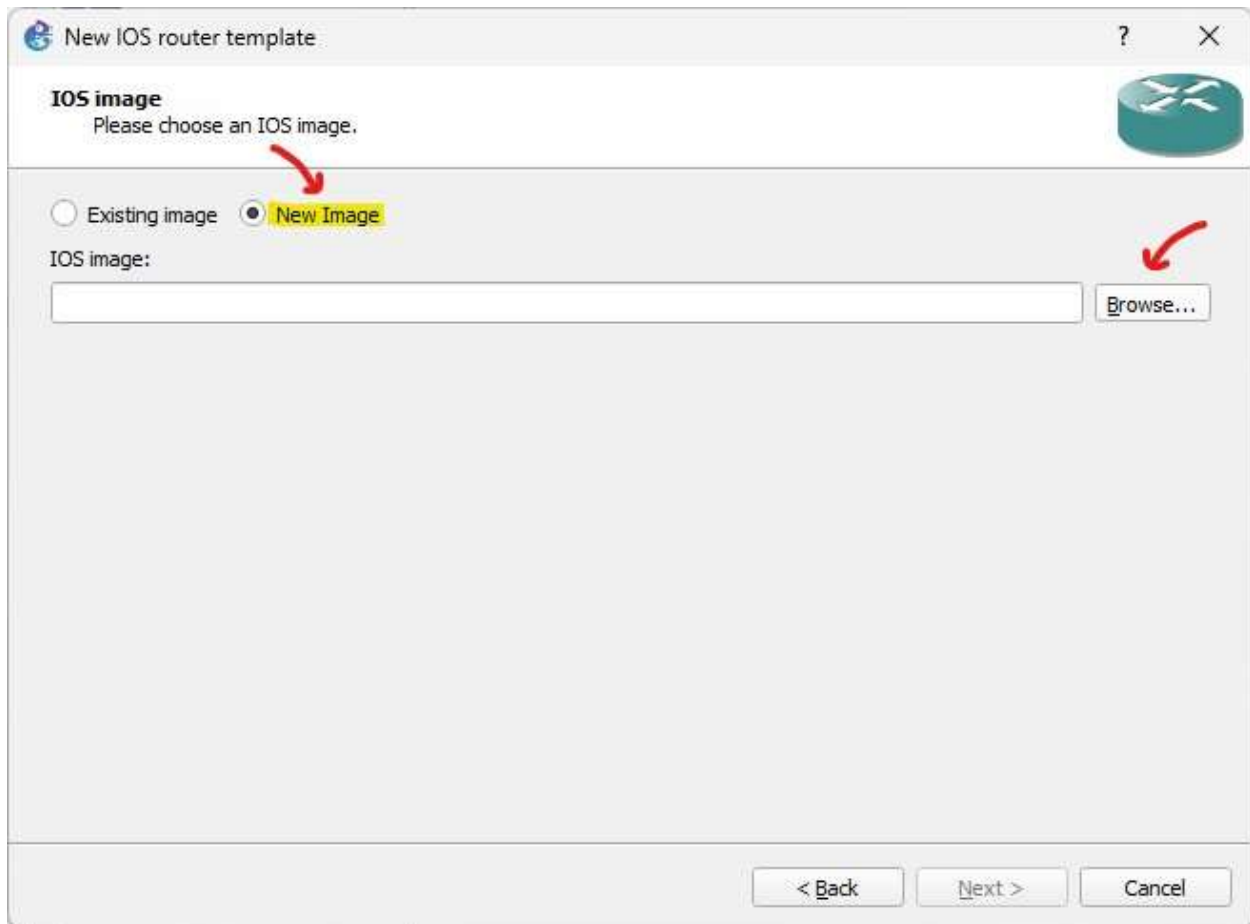


- **Switch installation**

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 vios-adventerprise9-m.vmdk.SPA.156-2....	12/12/2025 6:25 PM	MD5SUM File	1 KB







New IOS router template

IOS image
Please choose an IOS image.

☐ Existing image ☒ New Image

IOS image:

c3640-a3js-mz.124-23.image Browse...

< Back Next > Cancel

New IOS router - c3640-a3js-mz.124-23.image

Name and platform
Please choose a descriptive name for this new IOS router and verify the platform and chassis.

Name: EtherSwitch router2

Platform: c3600

Chassis: 3640

☒ This is an EtherSwitch router

< Back Next > Cancel

New IOS router - c3640-a3js-mz.124-23.image

Memory

Please check the amount of memory (RAM) that you allocate to IOS. Too much or not enough RAM could prevent IOS from starting.

Default RAM: 192 MiB

[Check for minimum and maximum RAM requirement](#)

< Back Next > Cancel

New IOS router - c3640-a3js-mz.124-23.image

Network adapters

Please choose the default network adapters that should be inserted into every new instance of this router.

slot 0:	
slot 1:	NM-1FE-TX
	NM-1E
slot 2:	NM-4E
slot 3:	NM-16ESW
slot 4:	NM-4T
slot 5:	
slot 6:	

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