

File Edit View Control Node Annotate Tools Help



Topology Summary

Node	Console
------	---------

Servers Summary

● gns3 CPU 12.4%, RAM 17...



End devices

- Filter
- Cloud
  - Linux Core 4.7.7 + ovs + quagga
  - NAT
  - VPCS



+ New template

Topology Summary

Node	Console
------	---------

Servers Summary

gns3 CPU 11.5%, RAM 17...

**New template**

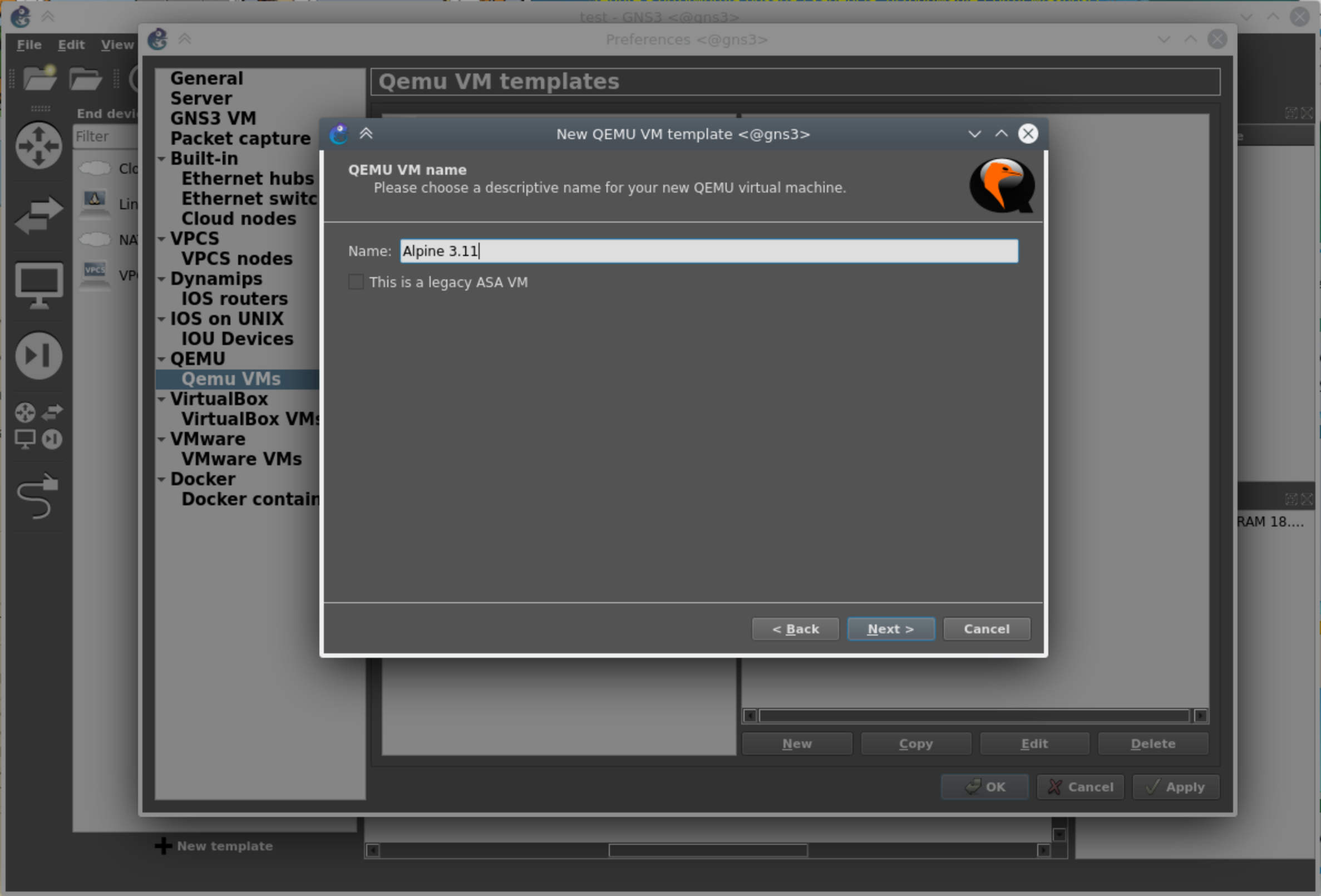
Please select how you want to create a new template

- Install an appliance from the GNS3 server (recommended)
- Import an appliance file (.gns3a extension)
- Manually create a new template

&lt; Back

Next &gt;

Cancel



## Qemu VM templates

New QEMU VM template <@gns3>

### QEMU VM name

Please choose a descriptive name for your new QEMU virtual machine.



Name:

This is a legacy ASA VM

< Back

Next >

Cancel

+ New template

New

Copy

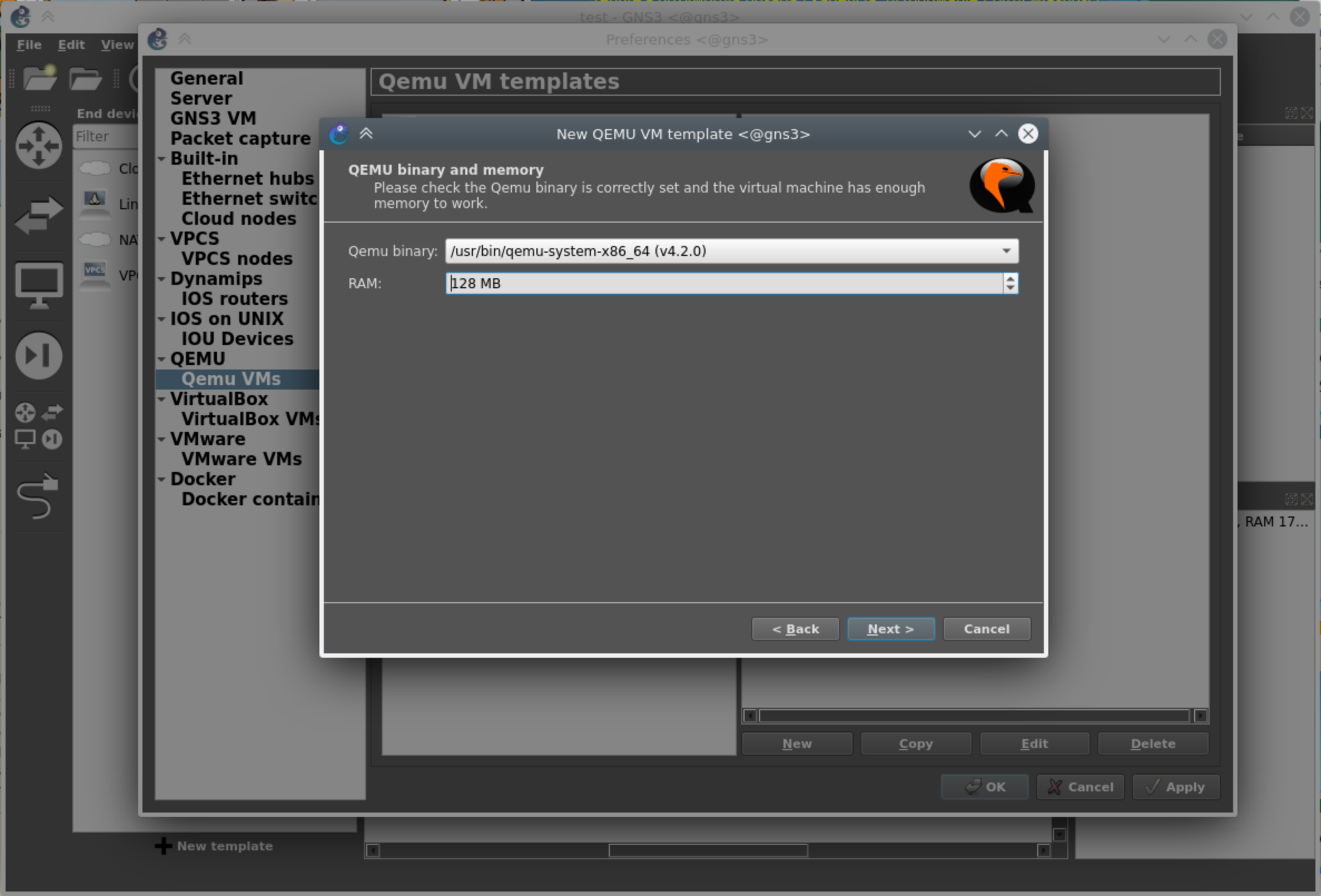
Edit

Delete

OK

Cancel

Apply



- General
- Server
- GNS3 VM
- Packet capture
- Built-in
  - Ethernet hubs
  - Ethernet switch
  - Cloud nodes
- VPCS
  - VPCS nodes
- Dynamips
  - IOS routers
  - IOS on UNIX
  - IOU Devices
- QEMU
  - Qemu VMs
- VirtualBox
  - VirtualBox VMs
- VMware
  - VMware VMs
- Docker
  - Docker containers

### Qemu VM templates

New QEMU VM template <@gns3>

**QEMU binary and memory**  
Please check the Qemu binary is correctly set and the virtual machine has enough memory to work.

Qemu binary: /usr/bin/qemu-system-x86\_64 (v4.2.0)

RAM: 128 MB

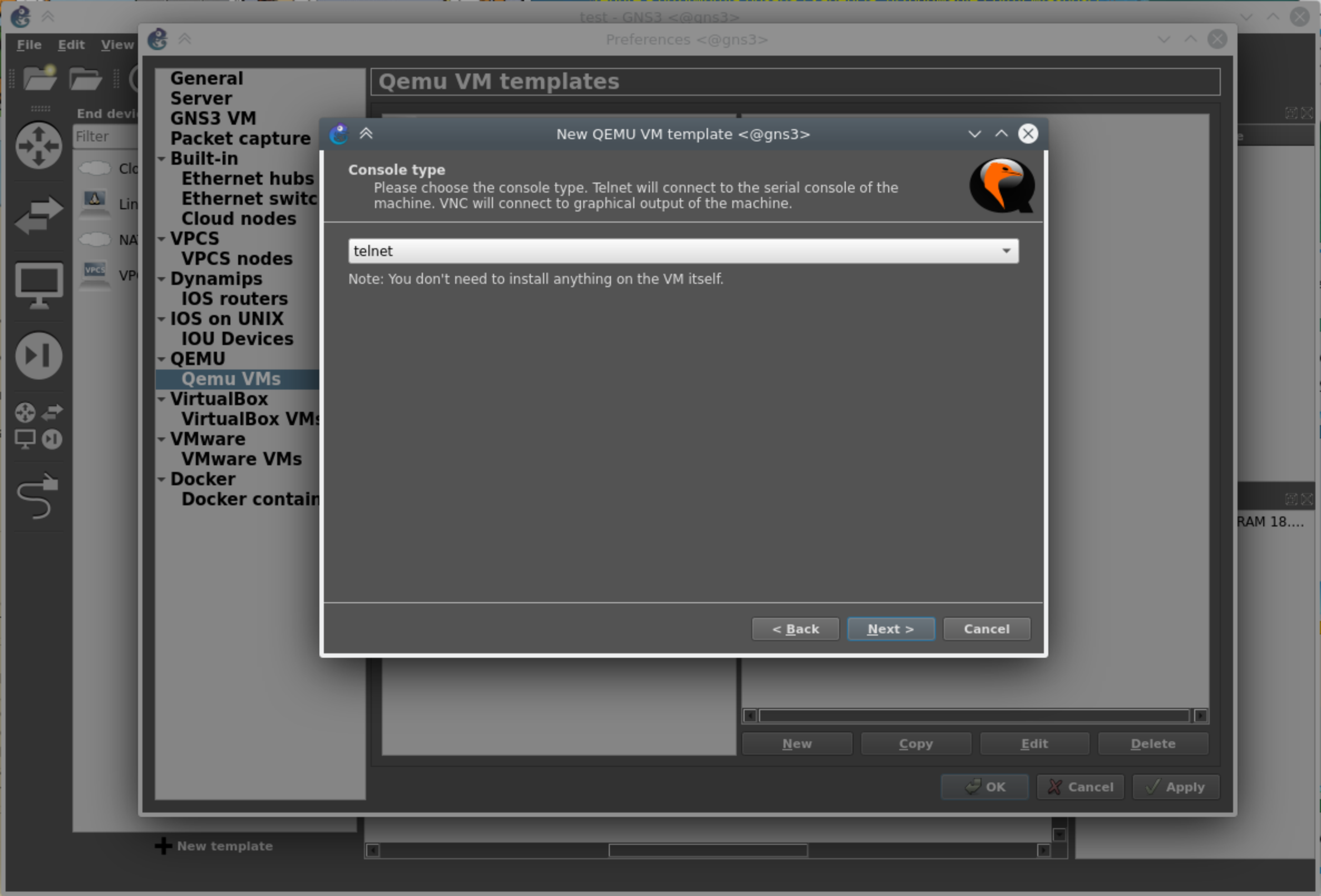
< Back   Next >   Cancel

New   Copy   Edit   Delete

OK   Cancel   Apply

+ New template

RAM 17...



- General
- Server
- GNS3 VM
- Packet capture
- Built-in
  - Ethernet hubs
  - Ethernet switch
  - Cloud nodes
- VPCS
  - VPCS nodes
- Dynamips
  - IOS routers
  - IOS on UNIX
  - IOU Devices
- QEMU
  - Qemu VMs**
- VirtualBox
  - VirtualBox VMs
- VMware
  - VMware VMs
- Docker
  - Docker contain

### Qemu VM templates

New QEMU VM template <@gns3>



#### Console type

Please choose the console type. Telnet will connect to the serial console of the machine. VNC will connect to graphical output of the machine.

telnet

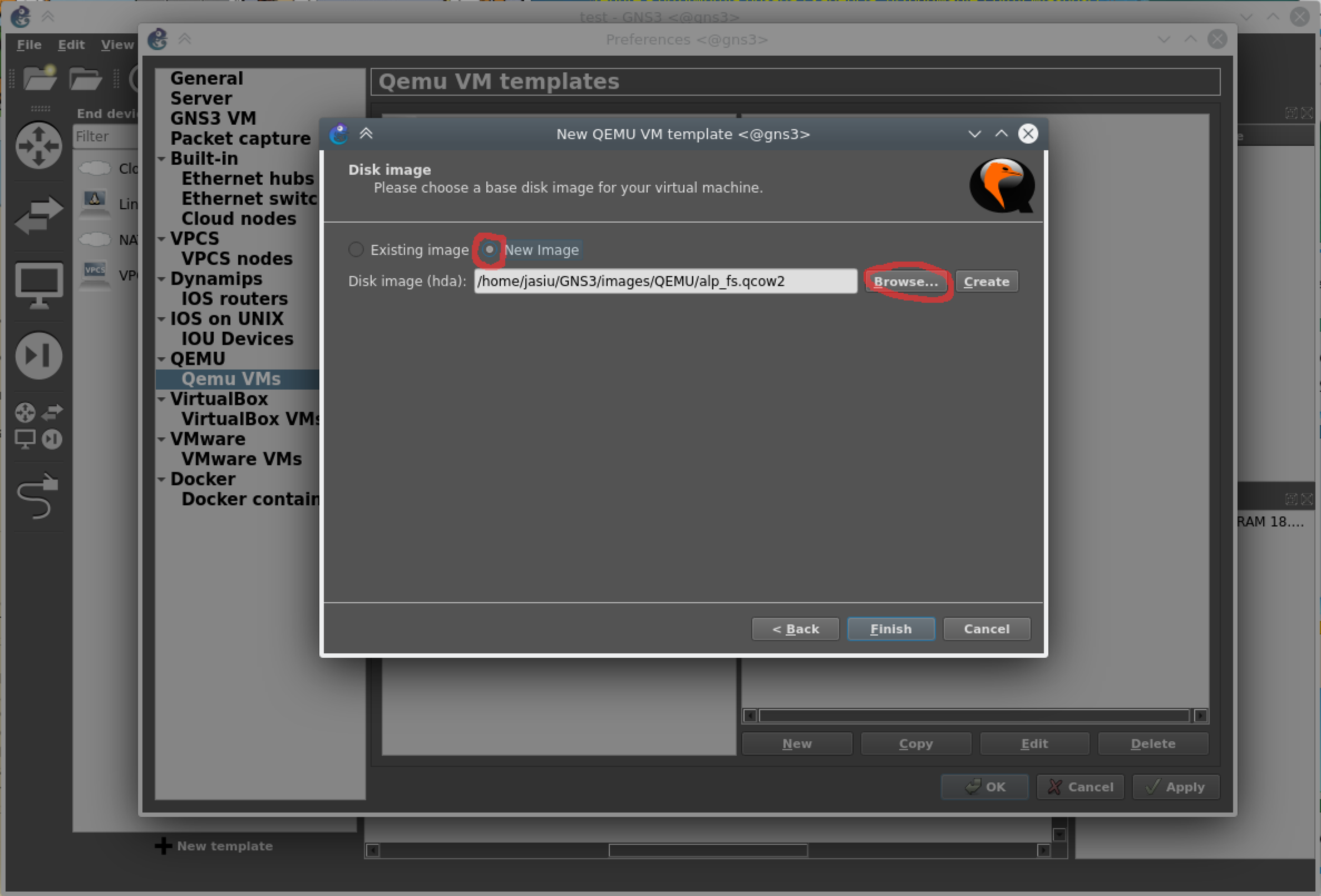
Note: You don't need to install anything on the VM itself.

< Back   Next >   Cancel

New   Copy   Edit   Delete

OK   Cancel   Apply

+ New template



- General
- Server
- GNS3 VM
- Packet capture
- Built-in
  - Ethernet hubs
  - Ethernet switch
  - Cloud nodes
- VPCS
  - VPCS nodes
- Dynamips
  - IOS routers
  - IOS on UNIX
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- VMware
  - VMware VMs
- Docker
  - Docker contain...

### Qemu VM templates

New QEMU VM template <@gns3>

#### Disk image

Please choose a base disk image for your virtual machine.



Existing image  New Image

Disk image (hda): /home/jasiu/GNS3/images/QEMU/alp\_fs.qcow2

Browse...

Create

< Back

Finish

Cancel

New

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Edit

Delete

OK

Cancel

Apply

+ New template

File Edit View

- End dev
- Filter
- Cloud nodes
- Linux VMs
- Networks
- VPCS
- VirtualBox VMs
- VMware VMs
- Docker containers

- General
- Server
- GNS3 VM
- Packet capture
- Built-in
  - Ethernet hubs
  - Ethernet switches
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- IOS on UNIX
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- VirtualBox
  - VirtualBox VMs
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  - VMware VMs
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  - Docker containers

### Qemu VM templates

- Linux Core 4.7.7 + ovs + quag...
- Alpine 3.11**

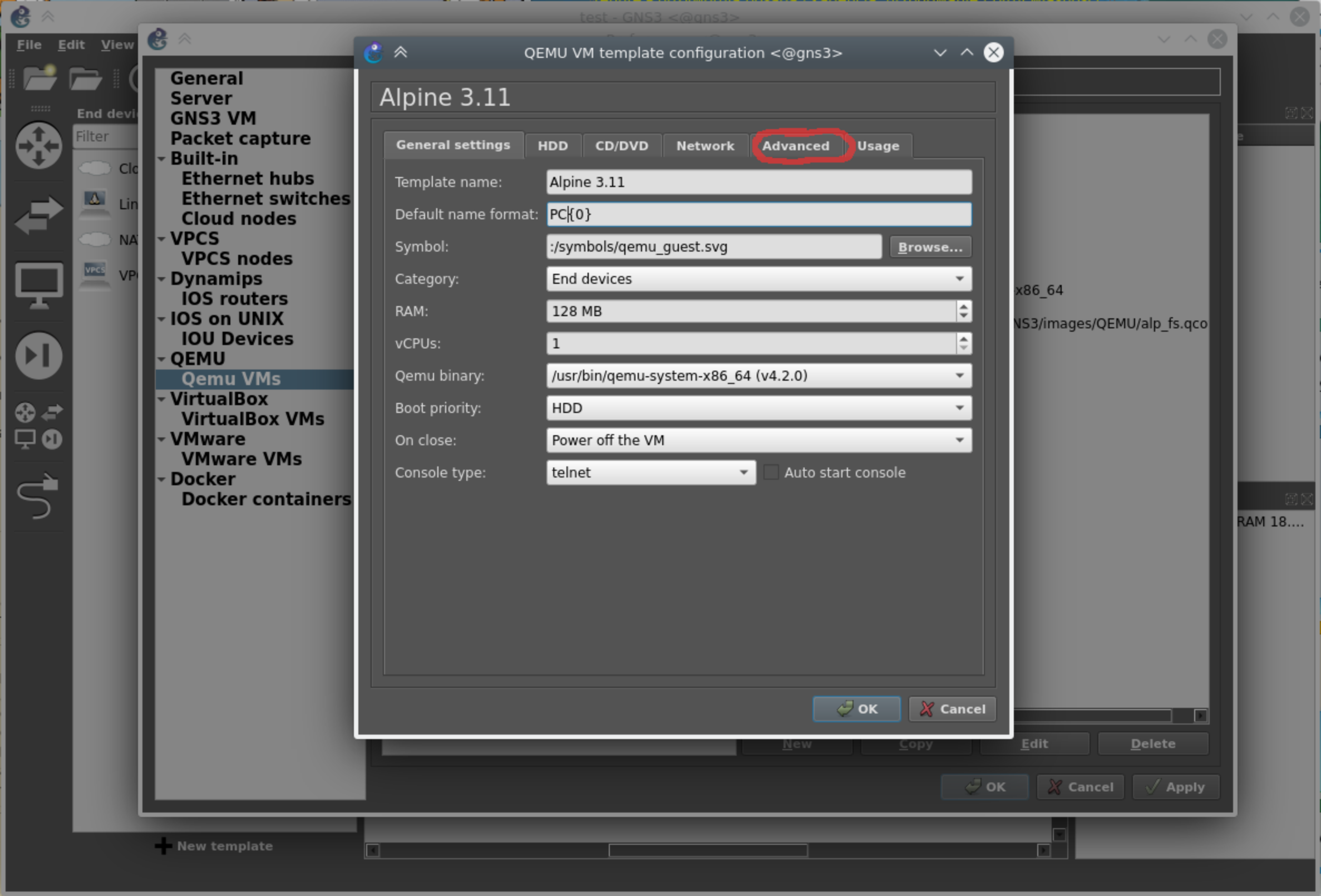
<b>General</b>	
Template name:	Alpine 3.11
Template ID:	none
Default name format:	{name}-{0}
Server:	gns3
Console type:	telnet
Auto start console:	False
CPUs:	1
Memory:	128 MB
Linked base VM:	True
QEMU binary:	qemu-system-x86_64
<b>Hard disks</b>	
Disk image (hda):	/home/jasiu/GNS3/images/QEMU/alp_fs.qco
Disk interface (hda):	ide
<b>Network</b>	
Adapters:	1
Name format:	Ethernet{0}
Type:	e1000
<b>Optimizations</b>	
CPU throttling:	disabled
Process priority:	normal
<b>Additional options</b>	
Options:	-nographic
On close:	power_off

New Copy **Edit** Delete

OK Cancel Apply

+ New template





QEMU VM template configuration <@gns3>

## Alpine 3.11

General settings

HDD

CD/DVD

Network

Advanced

Usage

Template name: Alpine 3.11

Default name format: PC{0}

Symbol:

Category: End devices

RAM: 128 MB

vCPUs: 1

Qemu binary: /usr/bin/qemu-system-x86\_64 (v4.2.0)

Boot priority: HDD

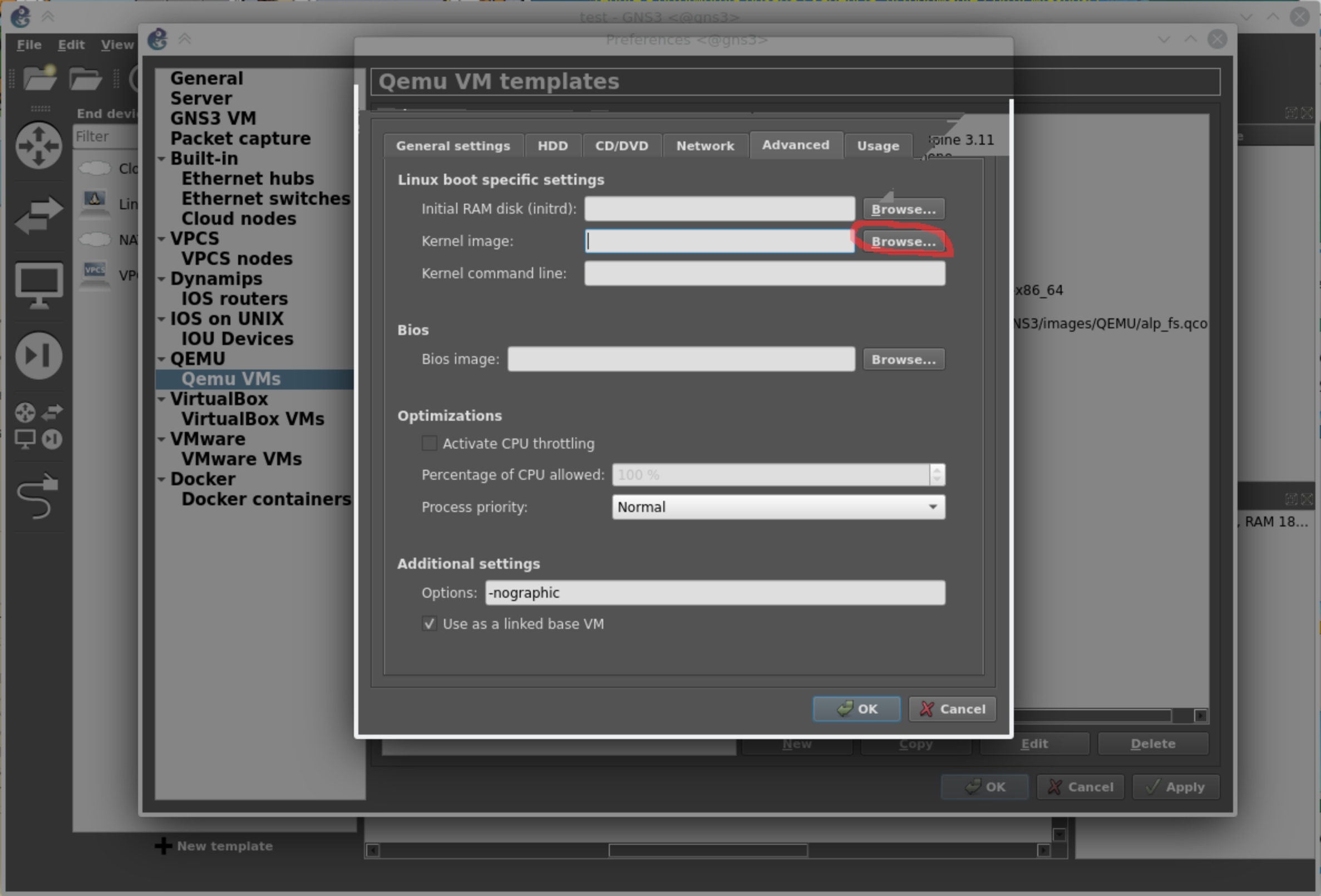
On close: Power off the VM

Console type: telnet  Auto start console

OK

Cancel

+ New template



### Qemu VM templates

- General settings
- HDD
- CD/DVD
- Network
- Advanced
- Usage

#### Linux boot specific settings

Initial RAM disk (initrd):

Kernel image:

Kernel command line:

#### Bios

Bios image:

#### Optimizations

Activate CPU throttling

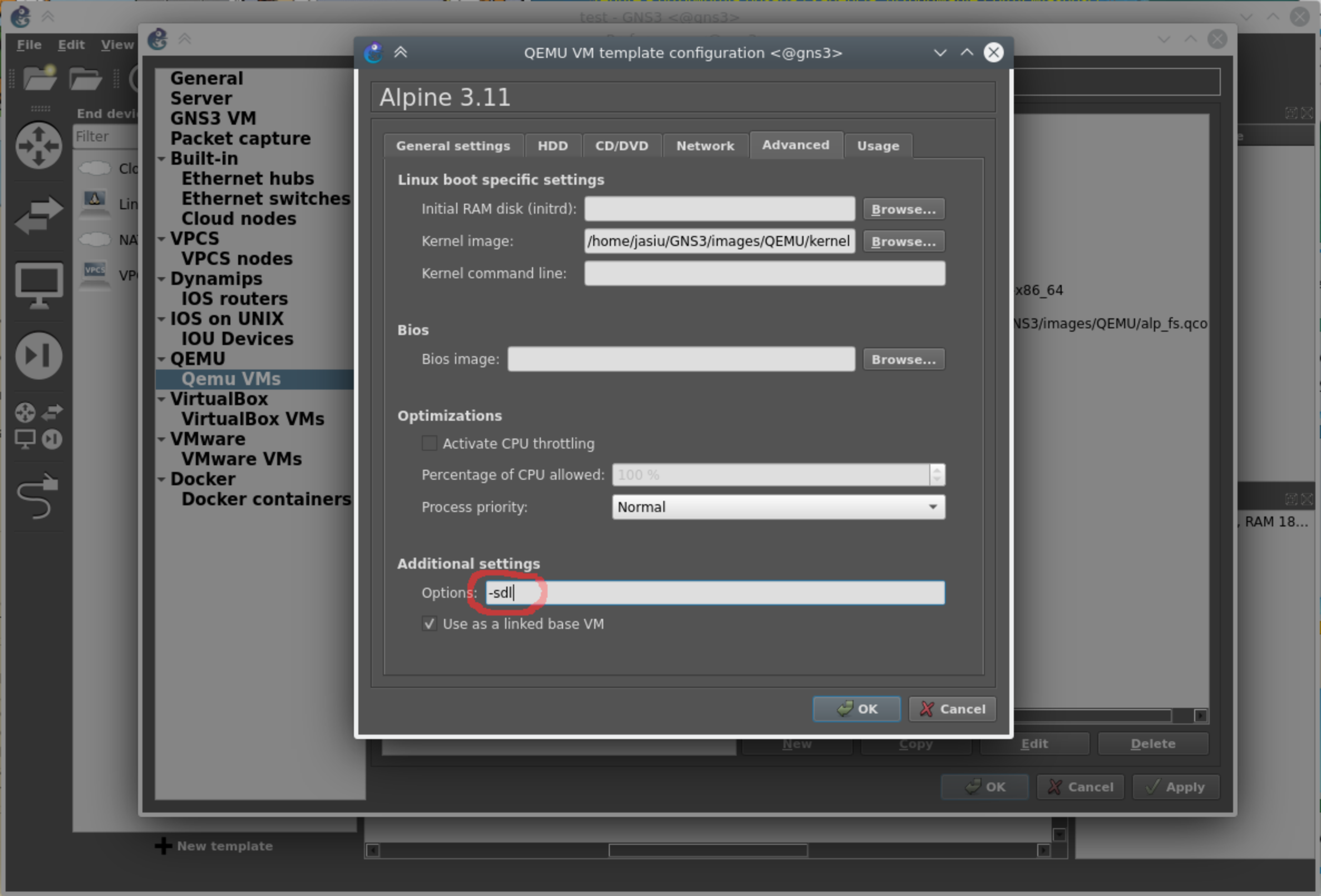
Percentage of CPU allowed:

Process priority:

#### Additional settings

Options:

Use as a linked base VM



QEMU VM template configuration <@gns3>

## Alpine 3.11

General settings HDD CD/DVD Network Advanced Usage

### Linux boot specific settings

Initial RAM disk (initrd):

Kernel image:

Kernel command line:

### Bios

Bios image:

### Optimizations

Activate CPU throttling

Percentage of CPU allowed:

Process priority:

### Additional settings

Options:

Use as a linked base VM

OK

Cancel

+ New template

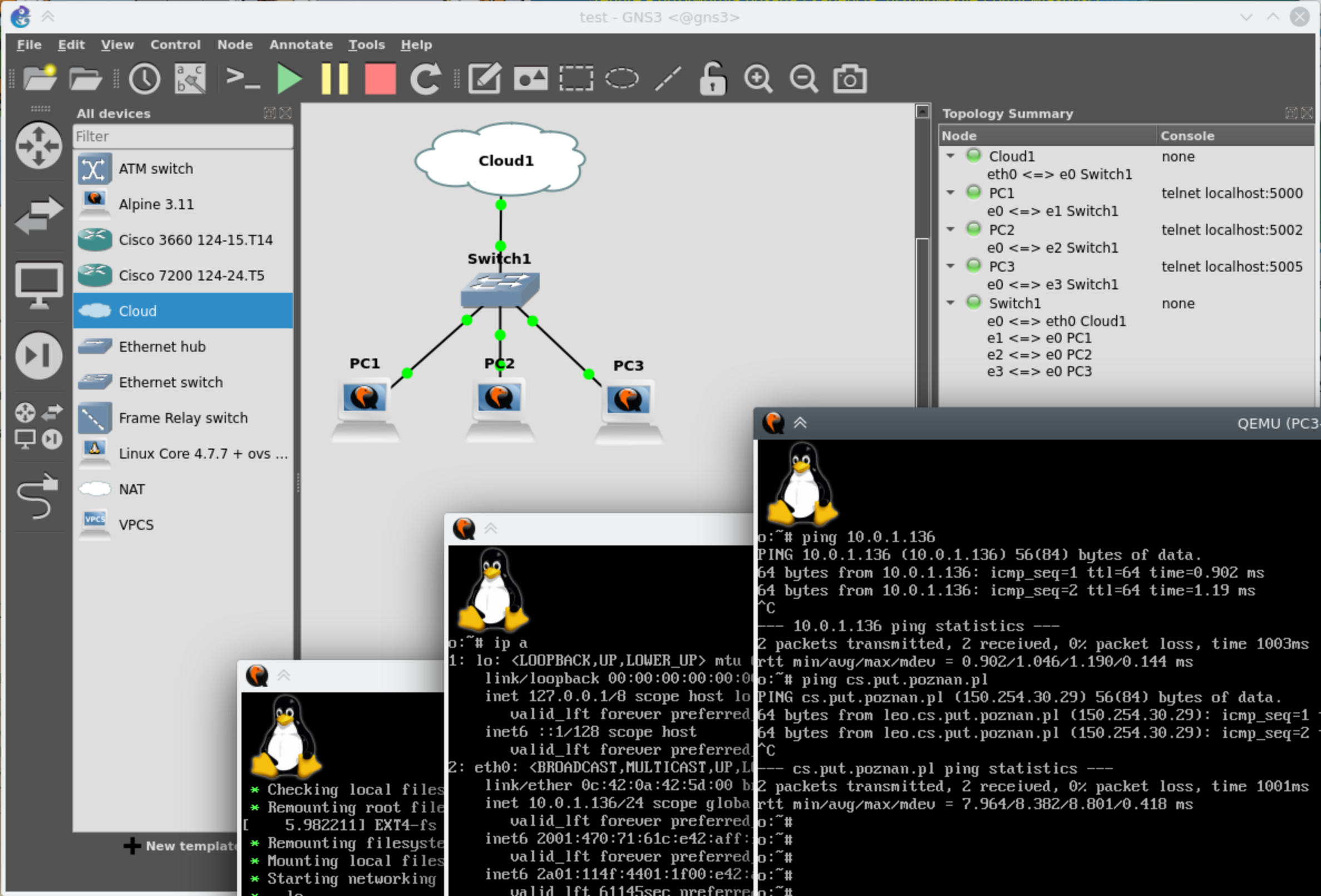
- General
- Server
- GNS3 VM
- Packet capture
- ▼ Built-in
  - Ethernet hubs
  - Ethernet switches
  - Cloud nodes
- ▼ VPCS
  - VPCS nodes
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  - Docker containers

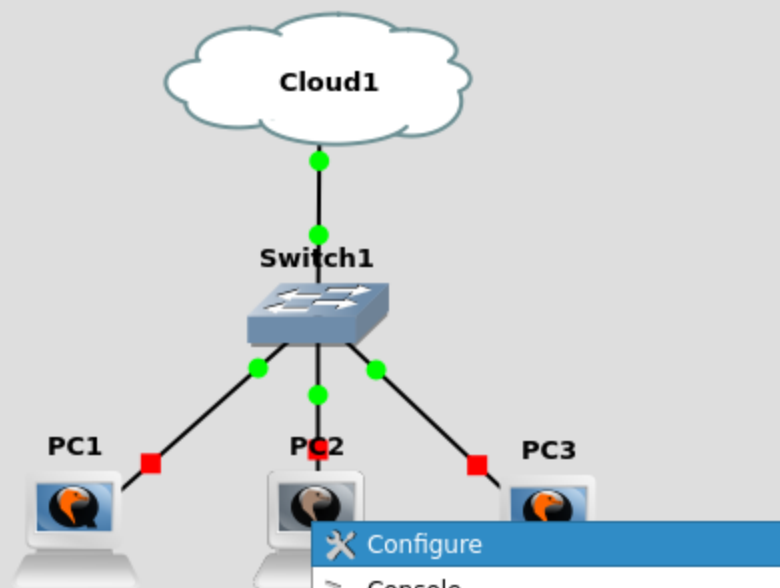
### Qemu VM templates

-  Linux Core 4.7.7 + ovs + quag...
-  **Alpine 3.11**

<b>General</b>	
Template name:	Alpine 3.11
Template ID:	none
Default name format:	PC{0}
Server:	gns3
Console type:	telnet
Auto start console:	False
CPUs:	1
Memory:	128 MB
Linked base VM:	True
QEMU binary:	qemu-system-x86_64
<b>Hard disks</b>	
Disk image (hda):	/home/jasiu/GNS3/images/QEMU/alp_fs.qco
Disk interface (hda):	ide
<b>Network</b>	
Adapters:	1
Name format:	Ethernet{0}
Type:	e1000
<b>Linux boot</b>	
Kernel image:	/home/jasiu/GNS3/images/QEMU/kernel
<b>Optimizations</b>	
CPU throttling:	disabled
Process priority:	normal
<b>Additional options</b>	
Options:	-sdl
On close:	power_off

+ New template





- ✕ Configure
- > Console
- ▶ Start
- ⏸ Suspend
- Stop
- 🔄 Reload
- 📄 Custom console
- 📄 Change hostname
- 📄 Change symbol
- 📄 Duplicate
- 📄 Show node information
- 📄 Show in file manager
- 📄 Raise one layer
- 📄 Lower one layer
- 🔒 Lock item
- ✖ Delete

## Topology Summary

Node	Console
▶ Cloud1	none
▶ PC1	telnet localhost:5000
▶ PC2	telnet localhost:5002
▶ PC3	telnet localhost:5005
▶ Switch1	none

## Servers Summary

- ▶ gns3 CPU 16.4%, RAM 30.3%



### Node properties <@gns3>

#### PC2 configuration

**General settings** | HDD | CD/DVD | **Network** | Advanced | Usage

Adapters:

Base MAC:

Type:

Custom adapters:

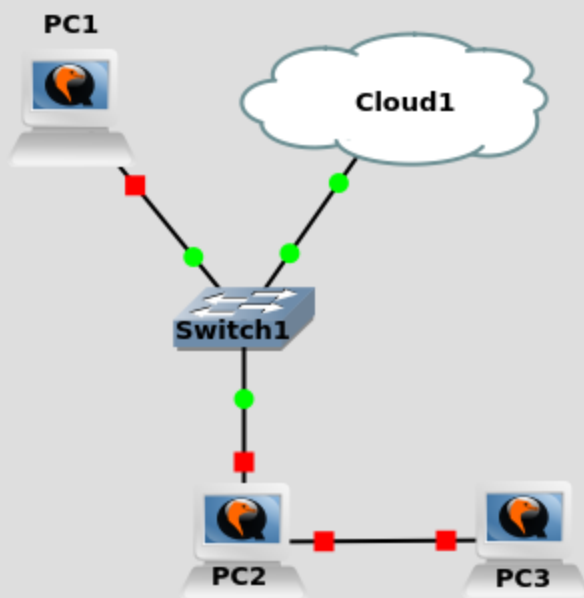
Use the legacy networking mode

#### Topology Summary

Node	Console
	none
	telnet localhost:5000
	telnet localhost:5002
	telnet localhost:5005
	none

#### Summary

U 11.5%, RAM 30.4%



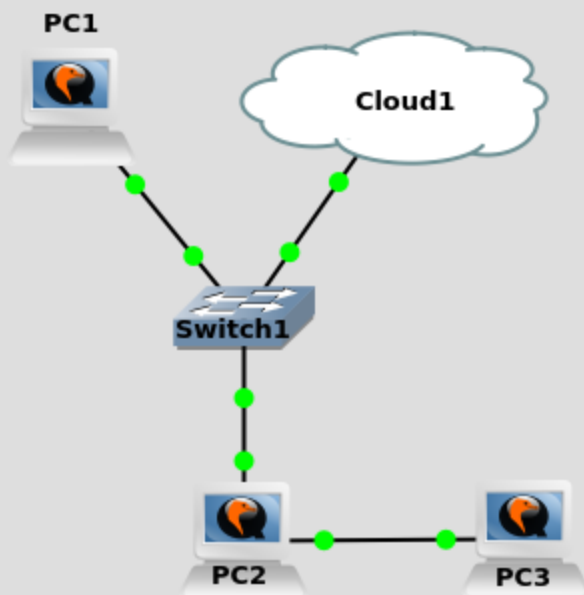
## Topology Summary

Node	Console
▶ Cloud1	none
▶ PC1	telnet localhost:5000
▶ PC2	telnet localhost:5002
▶ PC3	telnet localhost:5005
▶ Switch1	none

## Servers Summary

▶ gns3 CPU 10.6%, RAM 30.5%





## Topology Summary

Node	Console
▶ Cloud1	none
▶ PC1	telnet localhost:5000
▶ PC2	telnet localhost:5002
▶ PC3	telnet localhost:5005
▶ Switch1	none

QEMU (PC2-0)

```

o:~#
o:~# ifconfig eth1 192.168.0.1 up
o:~# iptables -t nat -A POSTROUTING -o eth0 -j MASQUERADE

```

QEMU (PC3-0) <@gns3>

```

nameserver 1.1.1.1
~
~
~
o:~#
o:~# echo nameserver 1.1.1.1 > /etc/resolv.conf
o:~# ifconfig eth0 192.168.0.2 up
o:~# ip route add default via 192.168.0.1
o:~# traceroute cs.put.poznan.pl
traceroute to cs.put.poznan.pl (150.254.30.29), 30 hops max, 46 byte packets
 1  192.168.0.1 (192.168.0.1)  0.302 ms  1.071 ms  0.858 ms
 2  10.0.1.2 (10.0.1.2)  1.237 ms  1.267 ms  1.214 ms
 3  poz-bng101.neo.tpnet.pl (83.1.5.122)  3.125 ms  4.479 ms  4.326 ms

```