Install GNS3 on UNRAID on your local network

GNS3 allows network engineers to model networks. Unlike network simulators, GNS3 uses real device images. The devices run on a hypervisor. Unraid is an easy to use NAS operating system based on Slackware that supports docker images and virtual machines.

Create a VM in Unraid

We will be using Ubuntu 20.04 as the base of GNS3. Install it as you would normally install it. After or before installation, you will need to edit the Unraid XML file of VM to allow nested VMs.

* In Unraid, go to the "VM" tab.

* Click the VM icon and then click on "Edit".

* On the upper right of the page, click on the switch FORM VIEW ⬤, to switch to XML view.

* In the `cpu mode='host-passthrough'` area, add `<feature policy='require' name='vmx'/>`

```
<cpu mode='host-passthrough' check='none' migratable='on'>
  <topology sockets='1' dies='1' cores='4' threads='1'/>
  <cache mode='passthrough'/>
  <feature policy='require' name='vmx'/>
</cpu>
```

Install GNS3

Install GNS3. All commands need to be run as root or sudo. You can install GNS3 with OpenVPN if you plan to access it from the Internet. However, we will only be accessing GNS3 through the local network.

```
cd /tmp
curl
https://raw.githubusercontent.com/GNS3/gns3-server/master/scripts/remote-install.sh > gns3-remote-install.sh
bash gns3-remote-install.sh --with-iou --with-i386-repository
```

This will take some time to finish.

After the install finishes, edit `/etc/gns3/gns3_server.conf` to change the default IP the GNS3 listens on. By default, it listens on the IP that OpenVPN would normally be on.

Edit the `host` line to the IP of your server.

```
[Server]
host = 192.168.1.13
port = 3080
images_path = /opt/gns3/images
projects_path = /opt/gns3/projects
report_errors = True

[Qemu]
enable_kvm = True
require_kvm = True
```

Restart the GNS3 service.

```
systemctl restart gns3
```

Done!

You should now have a working GNS3 installation. You will now need to add your server as a remote server for your GNS3 installation.

From:
https://vernon.wenberg.net/ - **vernon.wenberg**

Permanent link:
https://vernon.wenberg.net/networking:install_gns3_on_unraid_on_your_local_network

Last update: **2021/08/05 18:36**