Computer Networking GNS3



Name

Dicha Zelianivan Arkana

NIM

2241720002

Class

2i

Department

Information Technology

Study Program

D4 Informatics Engineering

1 GNS3 Installation

I use Linux, so the way I installed it is going to be different from Windows or MacOS. I installed it using the pip3 package manager. The command to install it is as follows:

```
pip3 install gns3-gui==2.2.17 PyQt5 psutil
```

The PyQt5 and psutil are the dependency packages that is needed by GNS3. After that, the GNS3 app should appear in the application menu like shown below.



If we click on the GNS3 app, the GNS3 GUI will appear like shown below.



2 OpenVPN Installation

The OpenVPN installation is not needed since my Linux which is Fedora comes with OpenVPN pre-installed. We can check it by running the following command.

```
openvpn --version
```

The output should look as follow:

```
popenypn --version

OpenVPN 2.6.8 x86_64-redhat-linux-gnu [SSL (OpenSSL)] [LZO] [LZ4] [EPOLL] [PKCS11] [MH/PKTINFO] [AEAD] [DCO] 
Ilbrary versions: OpenSSL 3.1.1 30 May 2023, LZO 2.10 
DCO version: M/A 
Originally developed by James Yonan 
Copyright (C) 2002-2023 OpenVPN Inc <sales@openvpn.net> 
Compile time defines: enable_async_push=yes enable_comp_stub=no enable_crypto_ofb_cfb=yes enable_dco=yes enable_dco_arg=yes enable_debug=yes enable_dependency_tracking=no enable_ddopen=unknown enable_dlopen_self=unknown enable_dlopen_self_static=unknown enable_fast_install=needless enable_fragment=yes enable_iproute2=no enable_lithool_lock=yes enable_litheys=yes enable_gup-yes enable_pugh_down_rot=yes enable_pugh_down_rot=yes enable_pugh_down_rot=yes enable_plugins=yes enable_port_share=yes enable_selinux=yes enable_shared=yes enable_shared_with_static_runtimes=no enable_silent_rules=yes enable_small=no enable_static=yes enable_strict=no enable_strict=no enable_systemd=yes enable_systemd=yes enable_wortor=no enable_suprous-no enable_systemd=yes enable_wortor=no enable_suprous-no enable_systemd=yes enable_wortor=no enable_strict=yes with_aix_soname=aix with_crypto_library=openssl with_gnu_ld=yes with_mem_check=no with_openssl_engine=auto with_sysroot=no
```

To connect to the OpenVPN server, we need to have the .ovpn file and then connect it using the following command

```
openvpn --config TI2I08.ovpn
```

It should output the following message if the connection is successful.