Opnsense firewall installation:

Opnsense virtual and min requirement:

Virtual

Type	Description
Processor	1 or more virtual cores
RAM	Minimum required RAM is 2 GB
Install method	ISO
Install target	Minimum recommended virtual disk size of 8GB

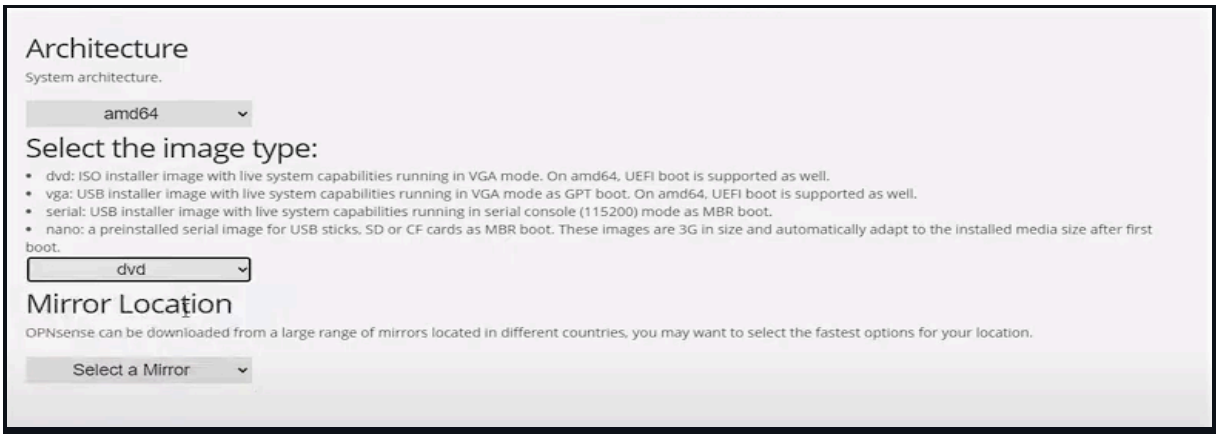
Minimum

The minimum specification to run all OPNsense standard features that do not need disk writes, means you can run all standard features, except for the ones that require disk writes, e.g. a caching proxy (cache) or intrusion detection and prevention (alert database).

Type	Description
Processor	1Ghz dual core cpu
RAM	2 GB
Install method	Serial console or video (vga)
Install target	SD or CF card with a minimum of 4GB, use nano images for installation.

download link and settings:

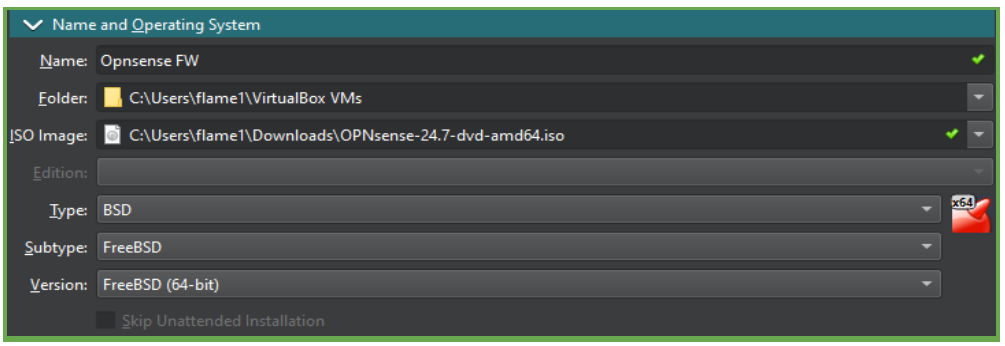
-https://opnsense.org/download/



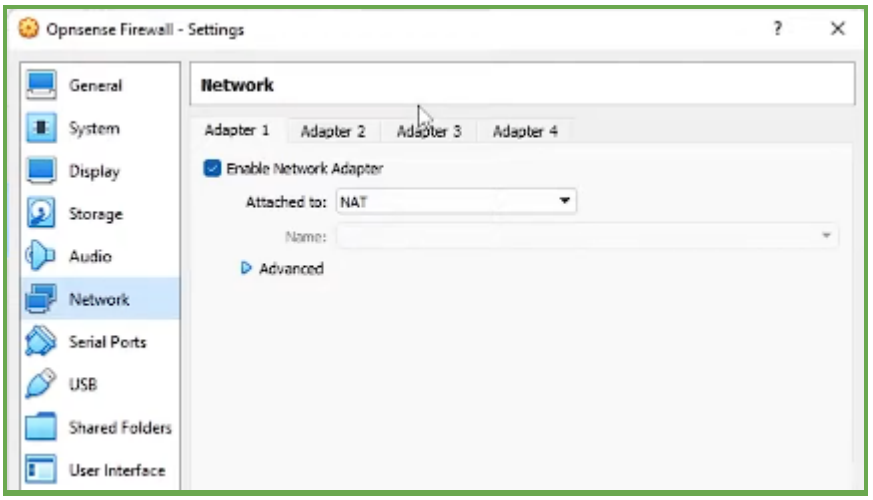
Opensense installation virtualbox:

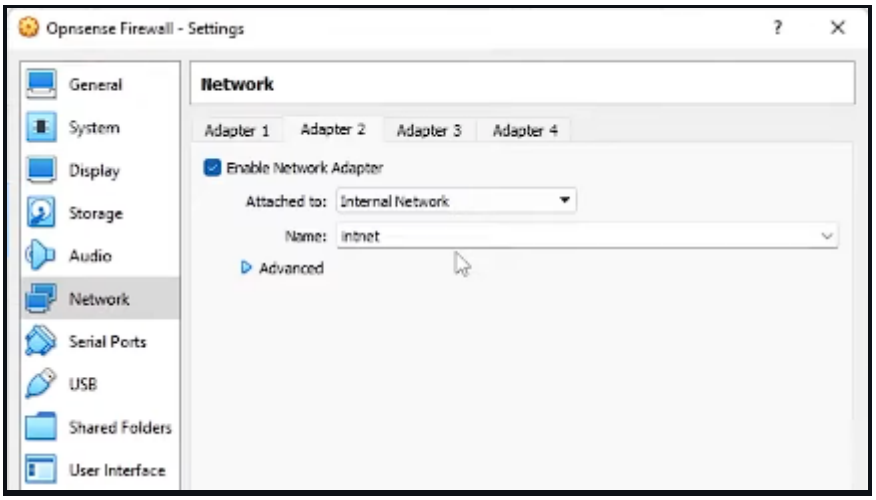
-select the downloaded iso image

-select free bsd the 64-bit version as there is only one version of opnsense and that is the 64-bit version.



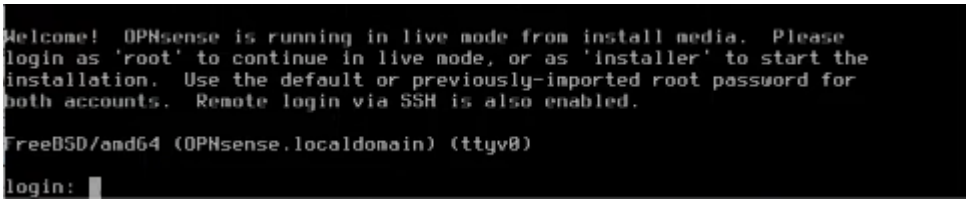
adapter 1 can share our internet connection on our machines(**NAT**) and **adapter 2** for **internal network**



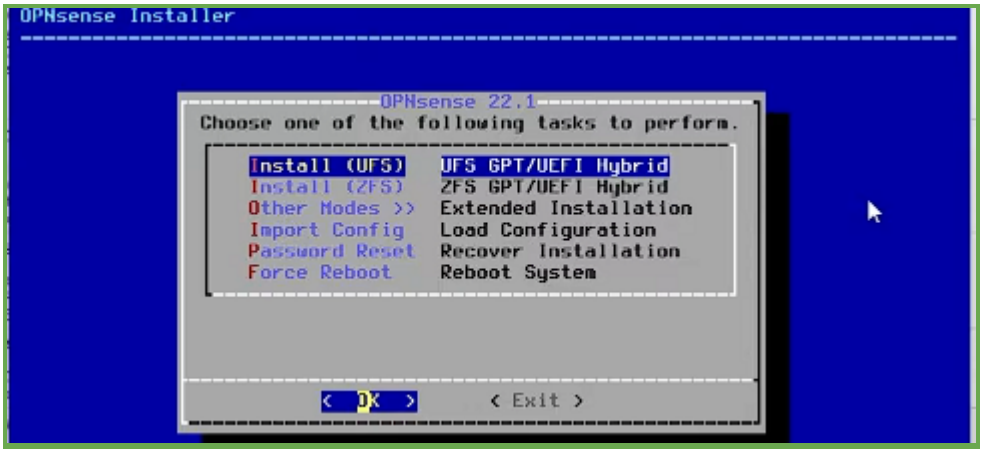


login for installation:

login: installer
password: opnsense



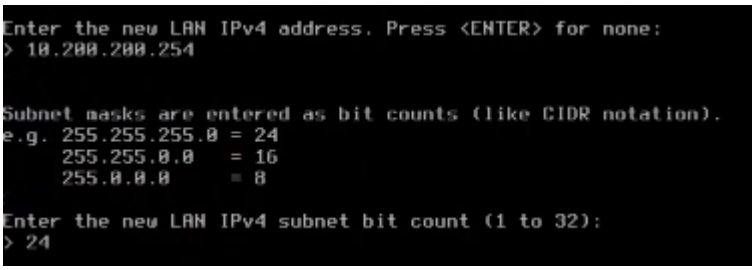
select UFS partition since it's stable and it will work well for our lab



after installation **reboot** and login with :

login: root
password: opnsense

network configuration:



now we can **login to the FW** from pc in **the internal network** by **web graphical interface**
https://10.200.200.254/
login: root
password: opnsense