Annexes

Cette rubrique présente les différentes captures, et procédures utilisées pour la réalisation de ce projet, les codes se trouvent dans la rubrique recommandation.

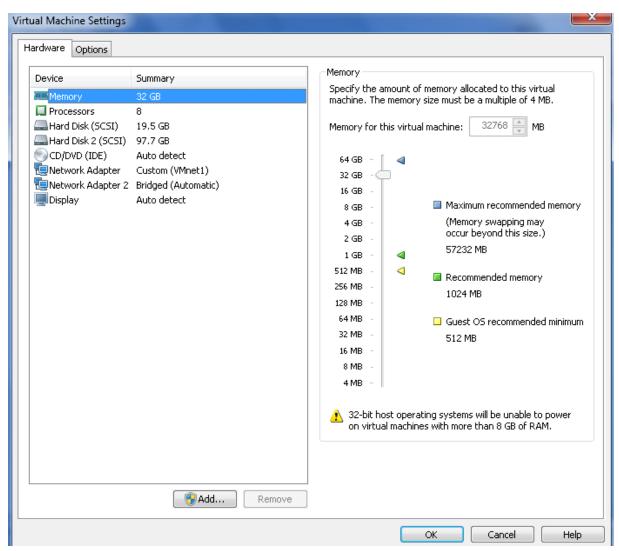
https://github.com/projet2019/TFE

Listes des annexes

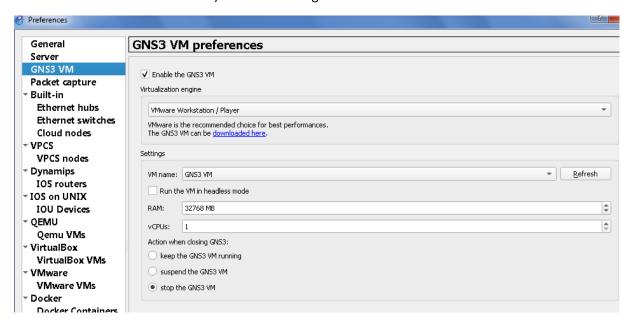
- I. Configuration de GNS3 sur VMWAREWORKSTATION
- II. Intégration d'un hôte sur gns3
- III. Intégration de l'architecture réseau
- IV. Développement du système de contrôle
- V. Systèmes de monitoring

I- Configuration de GNS3 sur VMWAREWORKSTATION

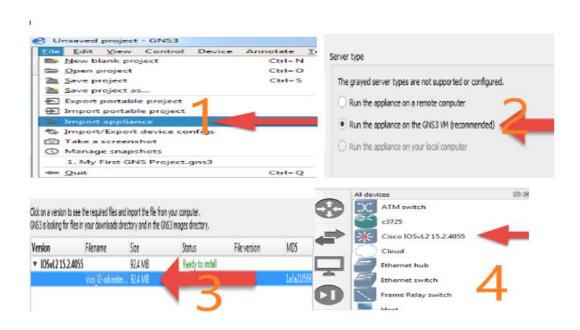
a) Workstation



b) Association de gns3 à Workstation

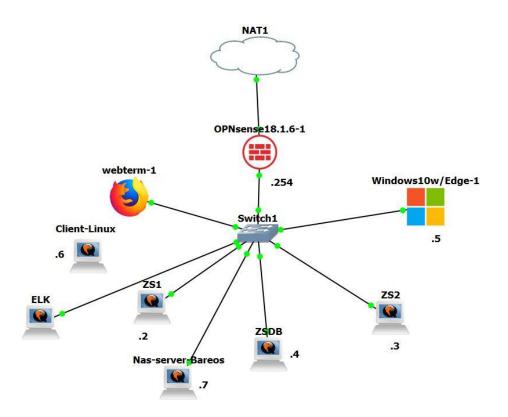


II- Intégration d'un hôte sur gns3

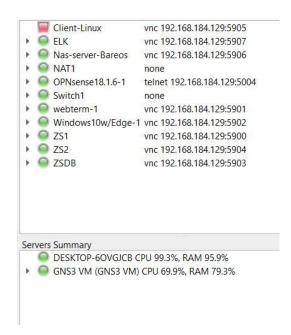


III- intégration de l'architecture réseau

a) schéma réseau

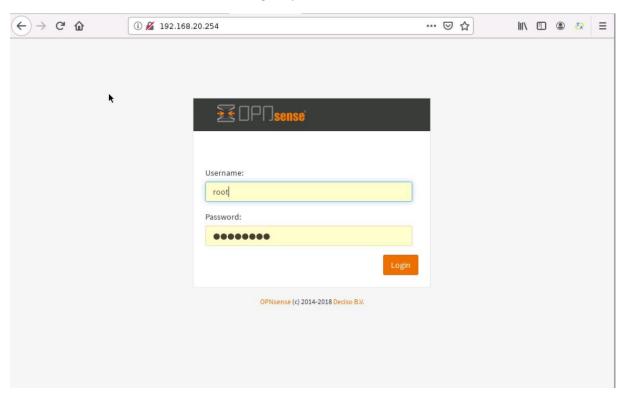


b) état des périphériques

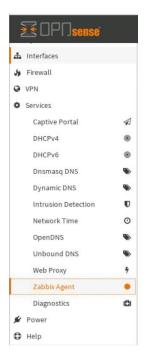


IV- Développement du système de contrôle

a) Login OpnSense et IPSec



b) Installation Zabbix agent

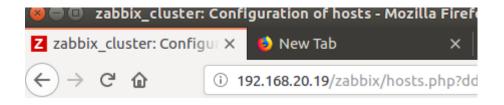


d) Zabbix

-Zabbix server

```
osboxes@osboxes:~$ sudo su
[sudo] password for osboxes:
root@osboxes:/home/osboxes# systemctl status mysql
🌎 mysql.service - LSB: Start and stop the mysql database server daemon
    Loaded: loaded (/etc/init.d/mysql; bad; vendor preset: enabled)
Active: active (running) since Mon 2019-08-19 23:24:42 CEST; 1h 21min ago
       Docs: man:systemd-sysv-generator(8)
  Process: 914 ExecStart=/etc/init.d/mysql start (code=exited, status=0/SUCCESS) CGroup: /system.slice/mysql.service
                 —1045 /bin/bash /usr/bin/mysqld_safe
—1310 /usr/sbin/mysqld --basedir=/usr --datadir=/var/lib/mysql --plu
                 1311 logger -t mysgld -p daemon error
Aug 19 23:24:41 osboxes mysqld[1311]: Version: '10.0.38-MariaDB-Oubuntu0.16.04.
Aug 19 23:24:42 osboxes mysql[914]:
    □ □ root@osboxes: /home/osboxes
zabb<del>i</del>x-server.service - Zabbix Server
   Loaded: loaded (/lib/systemd/system/zabbix-server.service; enabled; vendor pr
   Active: active (running) since Mon 2019-08-19 23:24:19 CEST; 1h 24min ago
  Process: 767 ExecStart=/usr/sbin/zabbix_server -c $CONFFILE (code=exited, stat
Main PID: 787 (zabbix_server)
   CGroup: /system.slice/zabbix-server.service
                 - 787 /usr/sbin/zabbix_server -c /etc/zabbix/zabbix_server.conf
-1874 /usr/sbin/zabbix_server: configuration syncer [synced configur
-1875 /usr/sbin/zabbix_server: housekeeper [deleted 2923 hist/trends
-1876 /usr/sbin/zabbix_server: timer #1 [updated 0 hosts, suppressed
-1877 /usr/sbin/zabbix_server: http poller #1 [got 0 values in 0.012
-1878 /usr/sbin/zabbix server: discoverer #1 [processed 0 rules in 0
```

-Zabbix frontend



e) configuration du simulateur cardiaque

```
File Edit Tabs Help

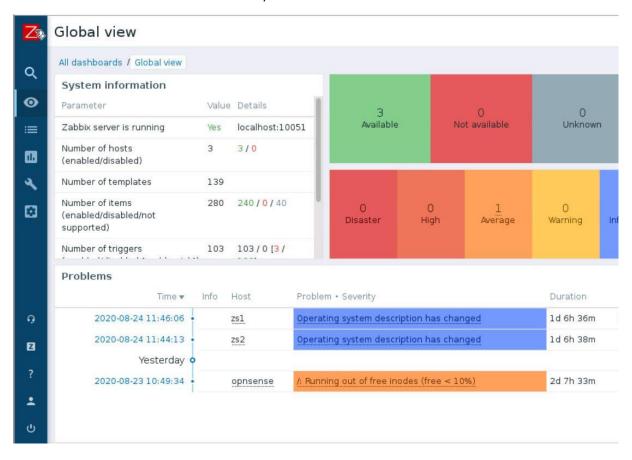
GNU nano 2.9.3

192.168.20.2 ZS1 zs1.andersonLabs.local
192.168.20.3 ZS2 zs2.andersonLabs.local

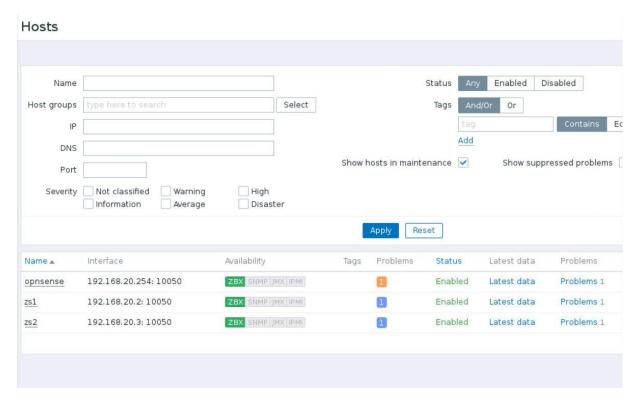
# The following lines are desirable for IPv6 capable hosts
::1 ip6-localhost ip6-loopback
fe00::0 ip6-mcastprefix
ff00::0 ip6-mcastprefix
ff02::1 ip6-allnodes
ff02::2 ip6-allrouters
```

V- Systèmes de monitoring

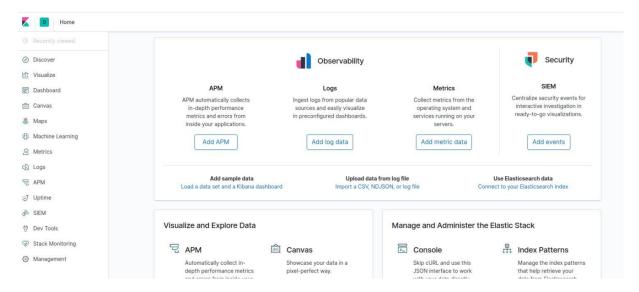
a) dashboardZabbix



b) dashboardHostZabbix

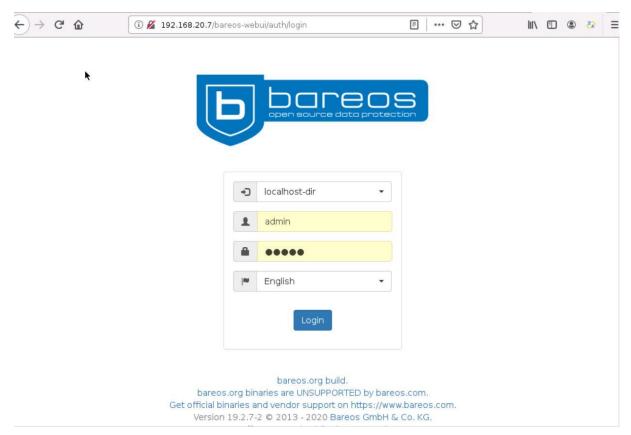


c) DashboardELK



V- Systèmes de Backup

a) login Bareos



b) saveHost

