1 Adding users

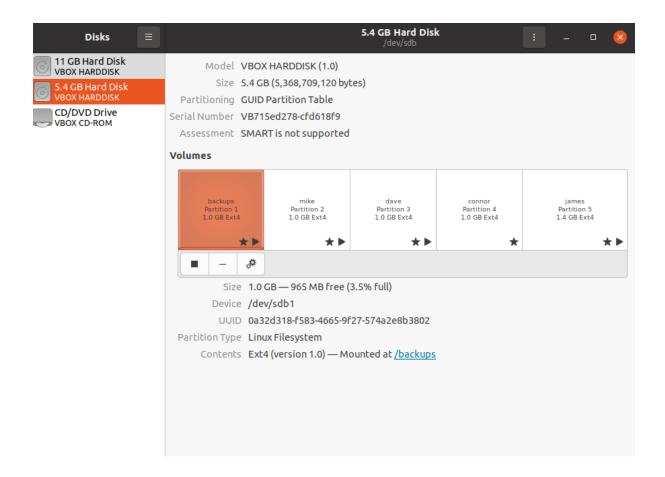
```
systemd-coredump:x:999:999:systemd Core Dumper:/:/usr/sbin/nologin
james:x:1001:1001:,,,:/home/james:/bin/bash
connor:x:1002:1002:,,,:/home/connor:/bin/bash
dave:x:1003:1003:dave,0,0,0,0:/home/dave:/bin/bash
mike:x:1004:1004:mike,0,0,0,0:/home/mike:/bin/bash
smomot@smomot-VirtualBox:~$
```

Two users have sudo permissions and two do not

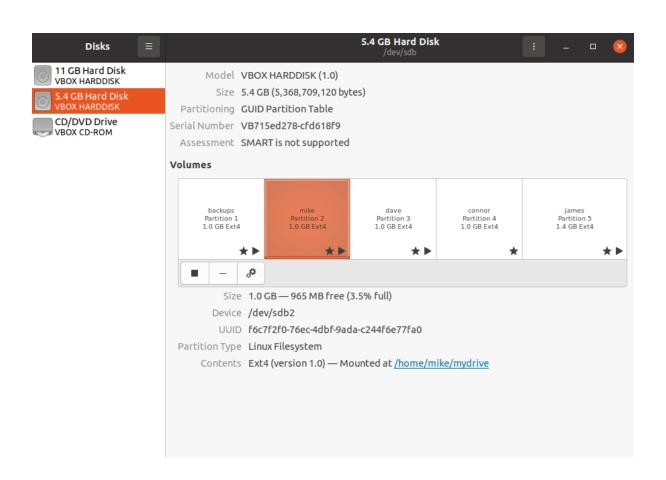
```
smomot@smomot-VirtualBox:~$ sudo -l -U james
User james is not allowed to run sudo on smomot-VirtualBox.
smomot@smomot-VirtualBox:~$ sudo -l -U connor
User connor is not allowed to run sudo on smomot-VirtualBox.
smomot@smomot-VirtualBox:~$ sudo -l -U dave
Matching Defaults entries for dave on smomot-VirtualBox:
    env_reset, mail_badpass,
    secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/bi
n\:/snap/bin
User dave may run the following commands on smomot-VirtualBox:
    (ALL: ALL) ALL
smomot@smomot-VirtualBox:~$ sudo -l -U mike
Matching Defaults entries for mike on smomot-VirtualBox:
    env_reset, mail_badpass,
    secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/bi
n\:/snap/bin
User mike may run the following commands on smomot-VirtualBox:
    (ALL : ALL) ALL
smomot@smomot-VirtualBox:~$
```

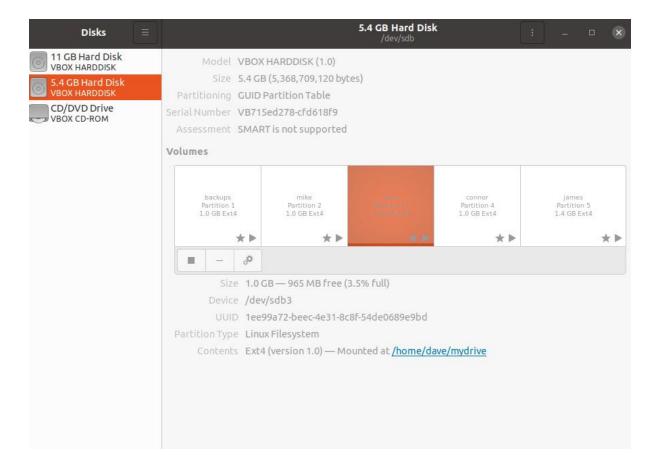
2 HDD Configuration

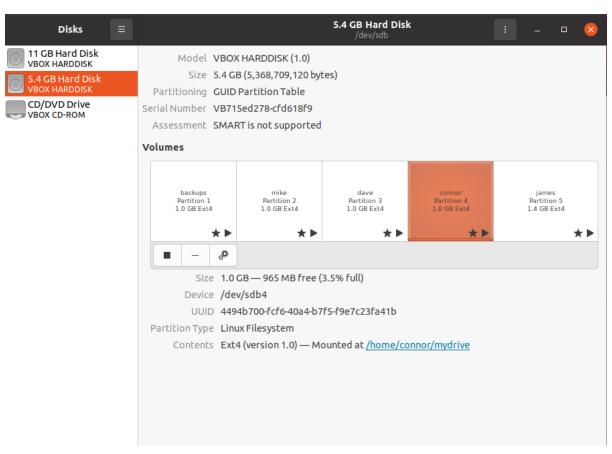
: Backup partition

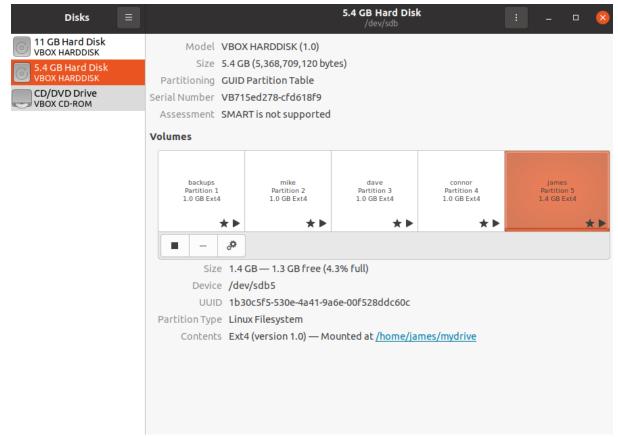


User drives

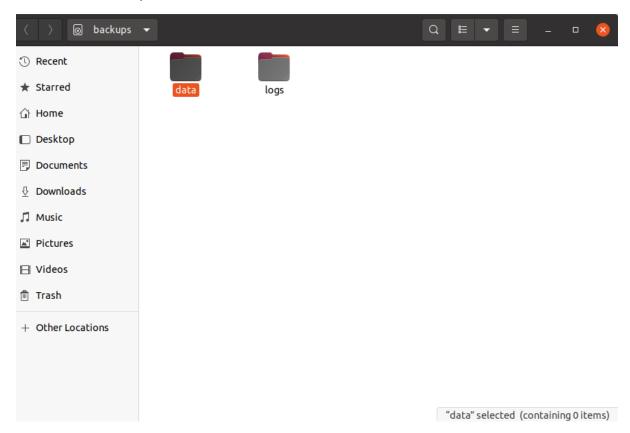




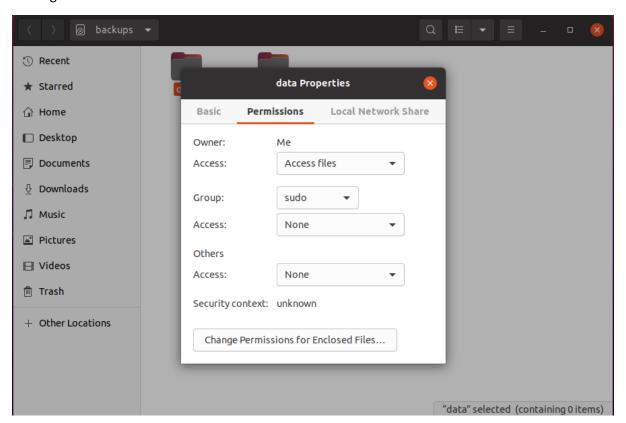




Folders in backups



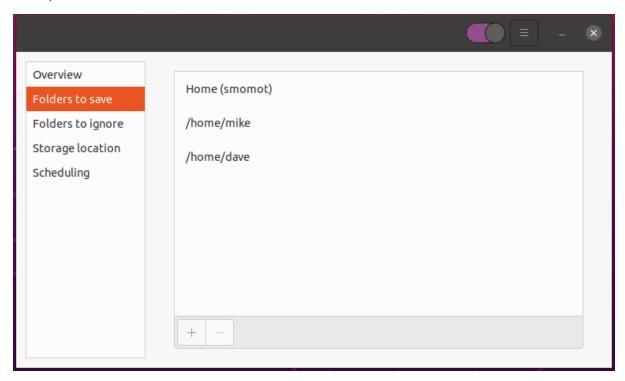
Locking the folders for other users

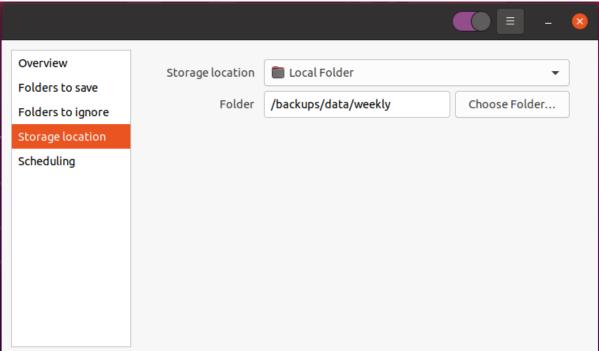


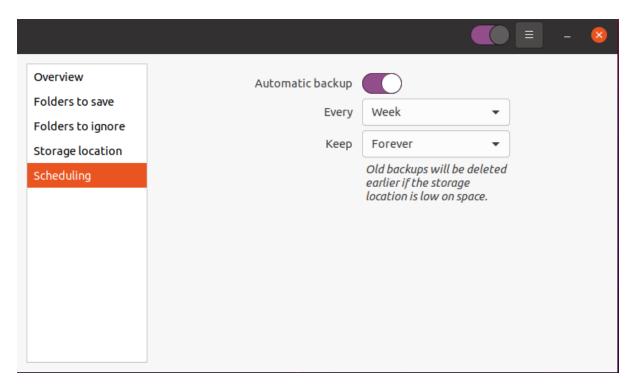
Assigning the partition to each user

```
smomot@smomot-VirtualBox:~$ sudo chown mike:mike /home/mike/mydrive -R
smomot@smomot-VirtualBox:~$ sudo chown dave:dave /home/dave/mydrive -R
smomot@smomot-VirtualBox:~$ sudo chown connor:connor /home/connor/mydrive -R
```

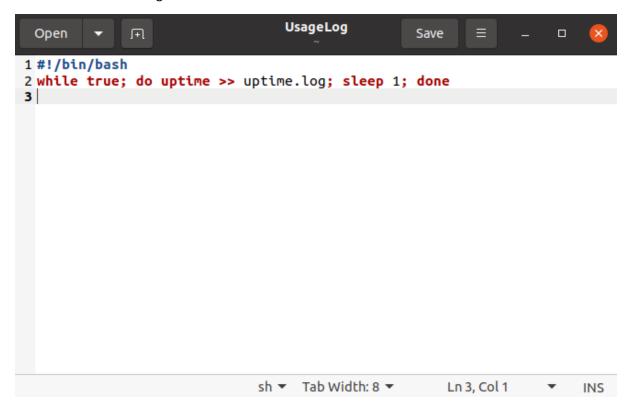
Backups

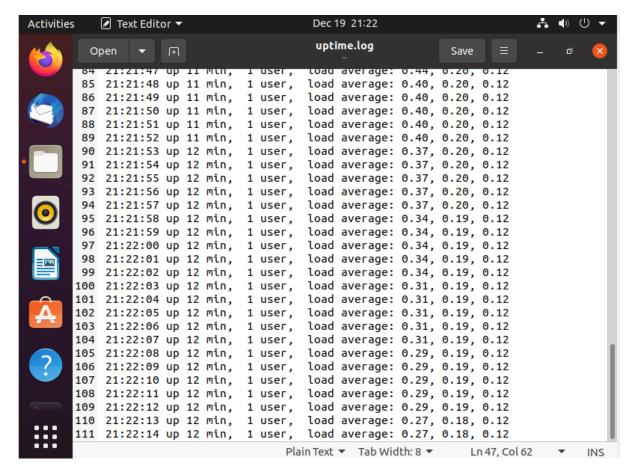




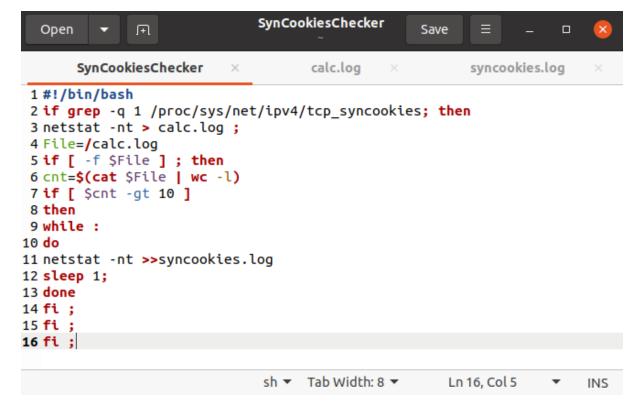


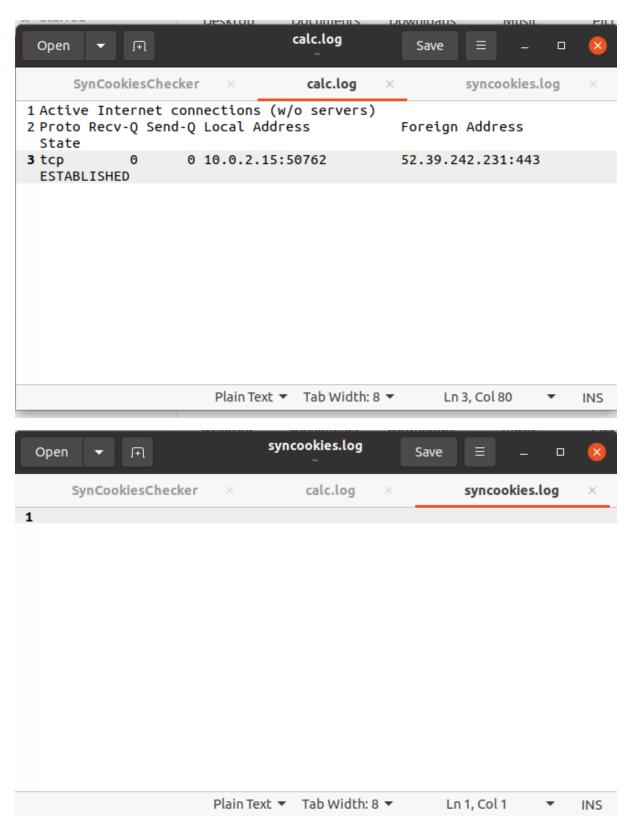
Performance Monitoring





Syn Flood Detection Service





Attempt to make a SystemD service

```
smomot@smomot-VirtualBox: /etc/systemd/system
smomot@smomot-VirtualBox: /etc/systemd/system
smomot@smomot-VirtualBox: /etc/systemd/system$ sudo vim SynCookiesChecker
[sudo] password for smomot:
sudo: vim: command not found
smomot@smomot-VirtualBox: /etc/systemd/system$ sudo vim SynCookiesCHecker.servi
ce
sudo: vim: command not found
smomot@smomot-VirtualBox: /etc/systemd/system$
```

Custom kernel

```
smomot@smomot-VirtualBox:~$ sudo apt-get install kernel-package
Reading package lists... Done
Building dependency tree
Reading state information... Done
```

Installing linux kernel source code:

```
ſŦ
                            smomot@smomot-VirtualBox: ~
                                                           \alpha
                                                                          smomot@smomot-VirtualBox:~$ wget https://cdn.kernel.org/pub/linux/kernel/v4.x/li
nux-4.9.11.tar.sign
-2021-12-19 19:13:57-- https://cdn.kernel.org/pub/linux/kernel/v4.x/linux-4.9.
11.tar.sign
Resolving cdn.kernel.org (cdn.kernel.org)... 199.232.25.176, 2a04:4e42:43::432
Connecting to cdn.kernel.org (cdn.kernel.org)|199.232.25.176|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 833 [text/plain]
Saving to: 'linux-4.9.11.tar.sign'
linux-4.9.11.tar.si
                                                     0 --.-KB/s
                                                                    in 0.001s
                     0%[
Cannot write to 'linux-4.9.11.tar.sign' (Success).
smomot@smomot-VirtualBox:~$ wget wget https://cdn.kernel.org/pub/linux/kernel/v4
.x/linux-4.9.11.tar.xz
-2021-12-19 19:14:11-- http://wget/
Resolving wget (wget)... failed: Temporary failure in name resolution.
wget: unable to resolve host address 'wget
-2021-12-19 19:14:11-- https://cdn.kernel.org/pub/linux/kernel/v4.x/linux-4.9.
11.tar.xz
Resolving cdn.kernel.org (cdn.kernel.org)... 199.232.25.176, 2a04:4e42:43::432
Connecting to cdn.kernel.org (cdn.kernel.org)|199.232.25.176|:443... connected.
HTTP request sent, awaiting response... 200 OK
```