System Administration

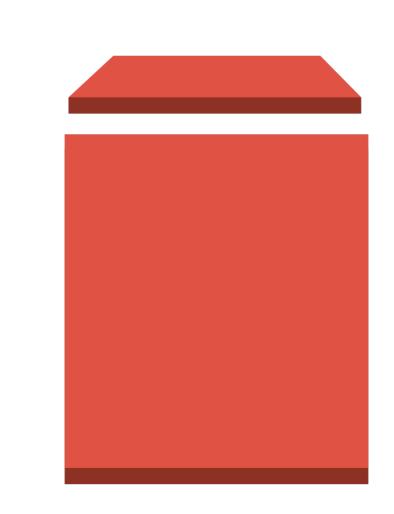## Week 02, Warmup Exercise 2:
Moving an EBS volume across OS

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Filesystem Exercise

- create two AWS instances of a given OS (Linux, FreeBSD, NetBSD, OmniOS)
- create a 1GB volume and attach it to one of the instances
- create a new filesystem on the volume and mount it
- create a file on the new filesystem
- terminate the first instance
- attach the volume to the second instance
- retrieve the file from the volume via the second instance

Repeat for a different OS. Note any differences in the process or tools.

Can you use the same volume / filesystem across different OS instances?

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```
xvdf      202:80   0      1G   0 disk
loop0       7:0     0 31.1M   1 loop /snap/snapd/10707
loop1       7:1     0 55.4M   1 loop /snap/core18/1944
loop2       7:2     0 32.3M   1 loop /snap/amazon-ssm-agent/2996
[ubuntu@ip-10-10-0-55:~$ sudo mount -t ufs -o ro,ufstype=ufs2 /dev/xvdf /mnt
[ubuntu@ip-10-10-0-55:~$ ls -l /mnt
total 2
-rw-r--r-- 1 root root 44 Feb  2 15:26 file
[ubuntu@ip-10-10-0-55:~$ cat /mnt/file
This file was created on a NetBSD instance.
[ubuntu@ip-10-10-0-55:~$ df -h
Filesystem        Size  Used Avail Use% Mounted on
udev              488M     0  488M   0% /dev
tmpfs             100M  3.3M   96M   4% /run
/dev/xvda1        7.7G 1022M  6.7G  13% /
tmpfs             496M     0  496M   0% /dev/shm
tmpfs             5.0M     0  5.0M   0% /run/lock
tmpfs             496M     0  496M   0% /sys/fs/cgroup
/dev/loop0         32M   32M     0 100% /snap/snapd/10707
/dev/loop1         56M   56M     0 100% /snap/core18/1944
/dev/loop2         33M   33M     0 100% /snap/amazon-ssm-agent/2996
tmpfs             100M     0  100M   0% /run/user/1000
/dev/xvdf         993M  4.0K  944M   1% /mnt
ubuntu@ip-10-10-0-55:~$
```

Links

Exercise:

https://stevens.netmeister.org/615/filesystems-exercise.html

Mounting Linux ext filesystems on FreeBSD:

https://docs.freebsd.org/en_US.ISO8859-1/books/handbook/filesystems-linux.html

Linux+FreeBSD Mini-HOWTO: Mounting Filesystems

https://tldp.org/HOWTO/Linux+FreeBSD-5.html

ext4fuse:

https://github.com/gerard/ext4fuse/

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