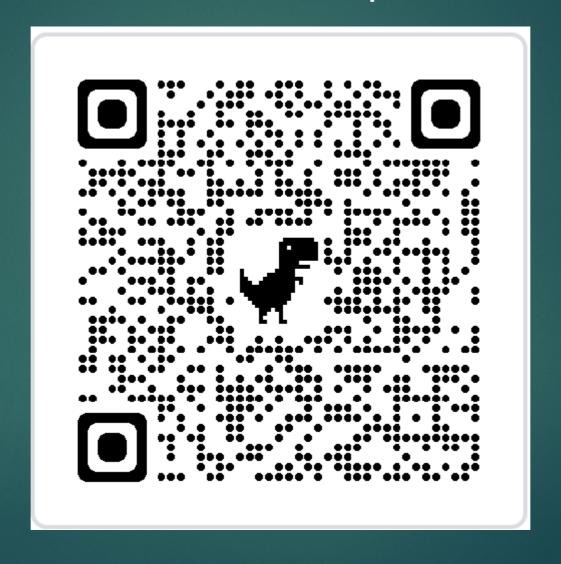
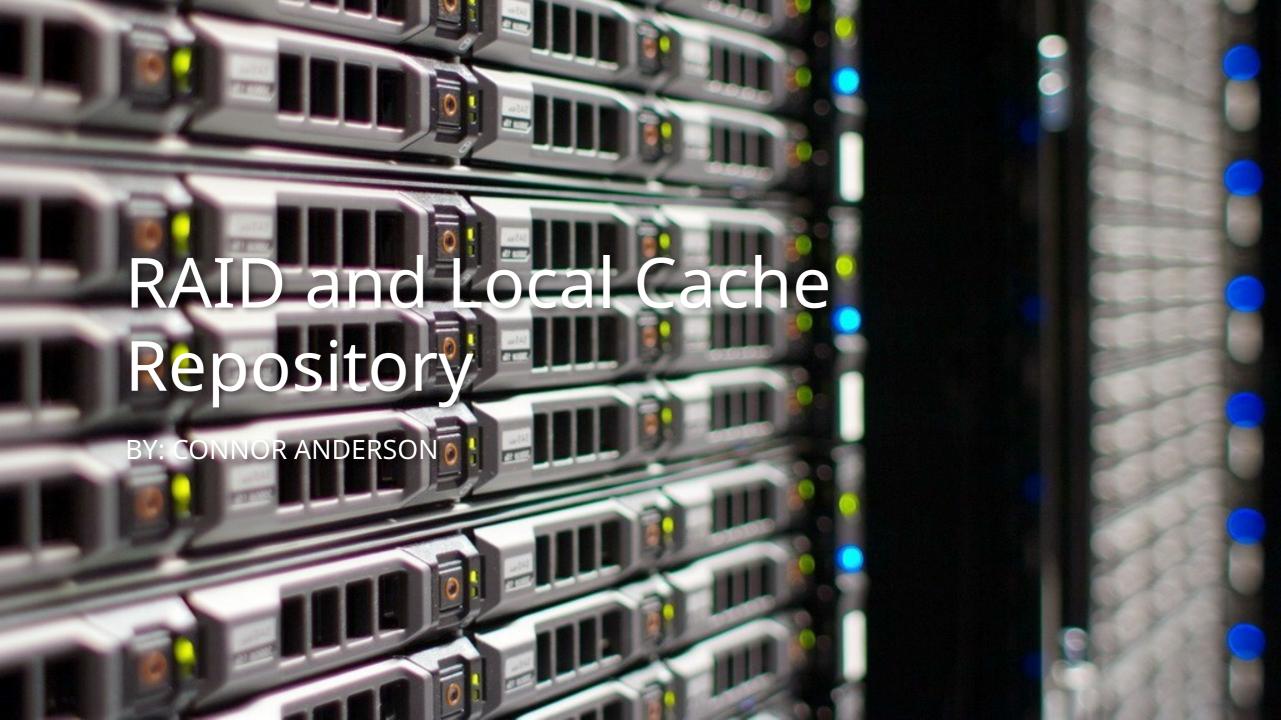
Do Attendance please. 🛘





Verse

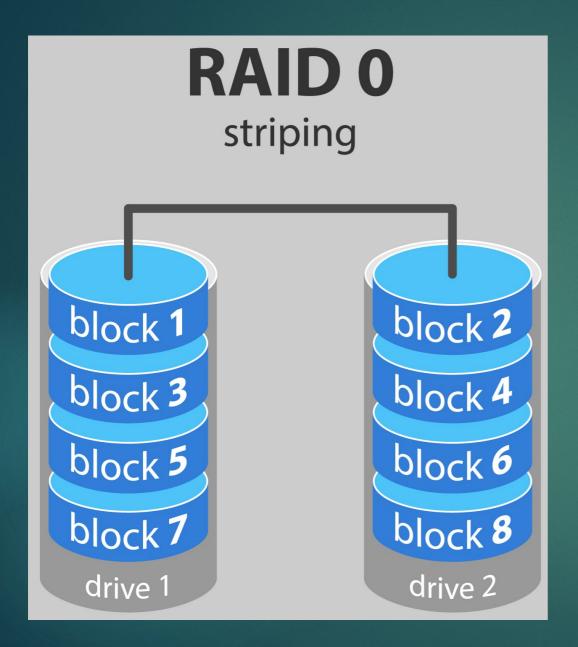
Count it all joy, my brothers, when you meet trials of various kinds, for you know that the testing of your faith produces steadfastness.

James 1:2&3 (NIV)



What is RAID

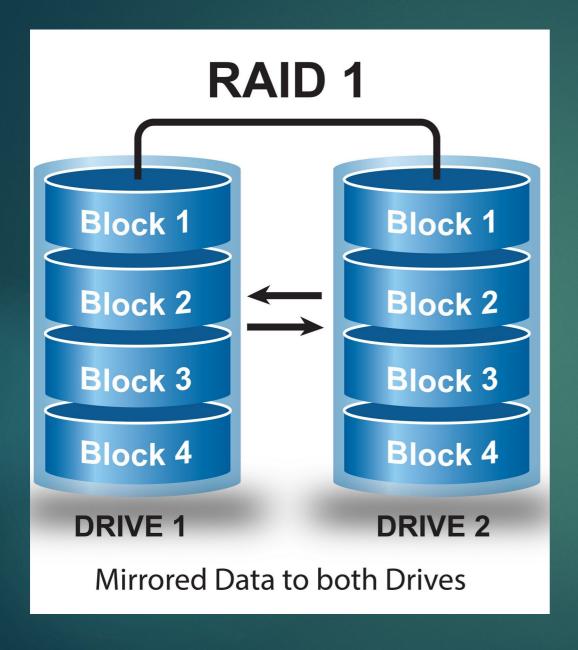
- Stands for Redundant Array of Independent Disks
- Takes multiple disks and makes them one unit
- Used for increasing writing speed or information safety
- Not a replacement for backups
- Software and Hardware RAID



Raid 0

STRIPING

- Faster writing speeds
- Easier to lose data



Raid 1

MIRRORING

- Slower writing speeds
- More secure data

RAID 5 A1 A2 **A3** Ap B1 B2 Bp **B3** C_p C2 **C3** D2 D3 Dp D1 Disk 3 Disk 0 Disk 1 Disk 2

Raid 5

STRIPING WITH PARITY

- Loses an entire drive
- Faster writing speeds
- More secure
- Needs a min of two drives

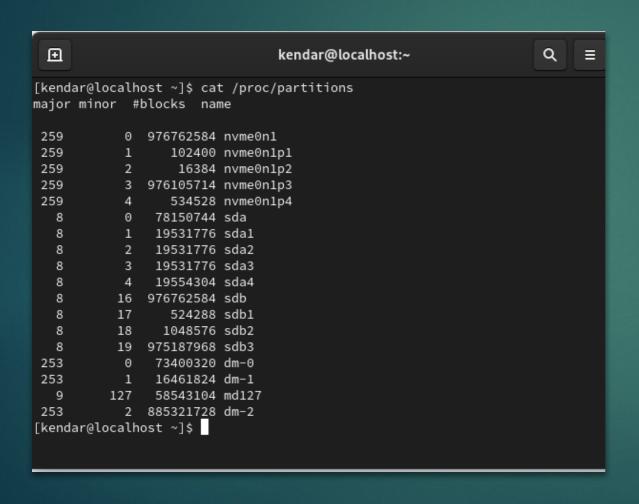
RAID 10 RAID 0 RAID 1 RAID 1 **A1** A1 A2 A2 **A3 A4 A3 A4 A5 A5 A6 A6 A7 A7 A8 A8**

Raid 10

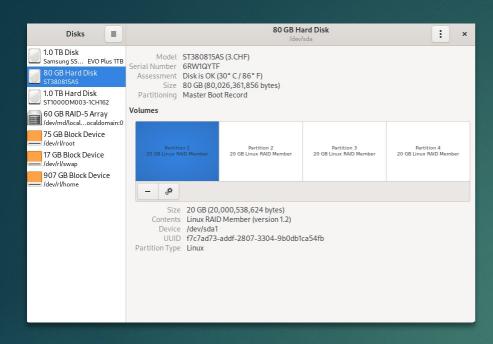
WHAT IS 1 + 0? 10

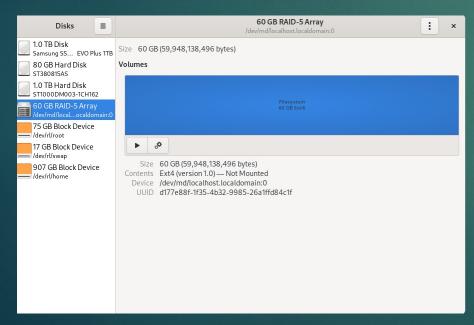
- Combination of Raid 1 and 0
- Faster writing speeds
- Redundancy

How to set up Raid



- Start by partitioning the hard drives
- This can be done in command line or "disks"
- Here's how to do it in command line:
 - Cat /proc/partitions
 - Fdisk "partition location"
 - N (create a new partition)
 - P (primary partition)
 - ▶ 1 (partition number)
 - W (write out)





Using MDADM create the RAID array

- Cat /proc/partitions
- Sudo mdadm –create /dev/md0 –a yes –l 5 –n 4 /dev/sda1 /dev/sda2 /dev/sda3 /dev/sda4
- Cat /proc/partitions
- Mkfs.ext4 /dev/md0
- Mount /dev/md0 /mnt

Repository

- A local storage area for important files or data
- Mirror's specifically are a location to get updates for software



How to (hypothetically) set up a basic repository?

- Yum install yum-utils createrepo
- Reposync –gpcheck -1 –repoid=<rep-id>
- Cd /var/www/html/<rep-id>
- Createrepo –v /var/www/html/<rep_id>

```
modifier_ob.
  mirror object to mirror
mirror_mod.mirror_object
 peration == "MIRROR_X":
elror_mod.use_x = True
mirror_mod.use_y = False
__mod.use_z = False
 _operation == "MIRROR_Y"
irror_mod.use_x = False
lrror_mod.use_y = True
 lrror_mod.use_z = False
  operation == "MIRROR_Z";
  _rror_mod.use_x = False
  Lrror_mod.use_y = False
  rror_mod.use_z = True
 melection at the end -add
   ob.select= 1
   er ob.select=1
   ntext.scene.objects.action
   "Selected" + str(modified
   irror ob.select = 0
  bpy.context.selected_obj
   ata.objects[one.name].se
 int("please select exactle
  --- OPERATOR CLASSES ----
     pes.Operator):
      mirror to the selected
   ject.mirror_mirror_x*
  ext.active_object is not
```

Thank you!