16.01.2025

Day-8

Partition, hard link and symbolic link

-> Let's continue with the linux Instance.

-> before proceeding delete everything.

-> Let's see partition.

Partition:

IVM - Logical volume Managar

fully:

X199

XVd21

- XVd2 127

- XVd2128

Irool@i9-172-31-95-153 ~]# 15blk

202:1

259:0

259:1

NAHE

HAJ: HIN

RM SIZE RO

202:0 0

8G o disk

89 0

part IM Part 0

0 10 M 0 Part

[iwt@ip-172-31-95-153~]# fdisk /dev/xvdd

welcome to Adisk (util-linux 2.37.4).

changes will remain in memory only, until you decide to write them be calleful before using the with command.

TYPE MOUNTPOINTS

16out lefi

fidish: cannot open Iden/xvda: No such file or directory

[1001@19-172-31-95-153 wif# cd/ Daut@19-172-31-95-153 1]# 15 bin bout der etc home lib liber beal media mot opt proc tout tun s str sys imp wer var [1001@ip-172-31-95-153 1]# 2d dev [iwt@if-172-31-95-153 dev]#/s autofs dish Xvda [1001010-172-31-95-153 dev]# cd [tast@1P-172-31-95-153 ~]# -> gonna add additional of "308" volume. AWS console: -> cleare a "3GB" volume of "samo" "availary zono" -> attach this "30g" volume to our Instance, and during attachment give "device name" as "Identials", can give anything Pultycont [Foot@ip-112-31-95-153 ~]# 15b/k NAHE MAJ: HIN RM SIZE RO TYPE MOUNTPOINTS XVda 86 disk - Xvdd1 Part 86 - Xvd2127 11 AALL 1011 9216 1boot les Abux 36 disk

[Tax1019-172-31-95-153 -]# Fdisk /dev/xvdb whome to Fdisk lutil-linux 2.37.4). changes will -- . Be careful ... gave does not contain a recognized partition table. created a new Dos disklabel with disk identifier 0xdd222366. command cm for helpt: n [: n- for new Artition [:new partition] : P - to print chated partions Partition type - L - to change partition type P Primary (O primary, O extended, 4 fler) " w - to write the changes] e extended (container for logical partitions) sdat (default p): P Pathition number (1-4, default 1): 1 INST SALO (2048 - 6291455, default 2048): st sato ... : +1G cleaned a new partition 1 of type Linux' and of Size 1 Gib. command (m for hap): P [PINT] Olsk /dev/xvdb: 3 GiB, 3221225472 bytes, 6291456 saxor Devi6 Boot start End septous size Id Type ev/Xull1 2048 2099199 2097152 1G 83 LINUX mand (m for help): n [: New parkton] atthion typo P Primary (1 Primary, 0 extended, 3 fee) e extended (contained for logical partitions)

Salat (default p): P Paration number (2-4, derail 2): 2 FAST SPETO ... : 12st sala ... : 11G cheated a new pathition 2 of type zinvx and of size 1618. compad (m for help): p [: PIM+] DISK /der/xxdb: 3 GiB, 3221225472 bytes, 6291456 softer Darle But start FAN sator SILO IN type /dev/modes 2048 2099199 2091152 1G 83 LINUX Ida/Xvd62 2099200 4196351 2097152 1G 83 Linux Gmand (m for hap): 1 (-: type) Partition number (1, 2, default 2): 1 Hex code or alias (type 1 to 11st all): 1 Allases: linux - 83 Swap - 82 extended - 05 UPF - EF Faid - FD tum - 8E IMUXPY - 85 HPX code or allas (type 1 to list all): 8E

changed (g	ac of Altition	Znox' to Z	inox Zun'.		
command (m	fa hap): p			C = prin	t]
; :	db = 3 GiB, 32				
/dev/xvdb1	2048 20991 2048 20991 2099200 419635	99 2091152	19 80	(inux 14	1)
command (m £				[:wik] [- without giving "wife"
The partition of	table has been a	altered.			nothing will be saved]
calling iocke()	to H-KAN PAI	hition 466			
Syncing disks.		•			
[lωι@iP-172-31-6	95-153 ~]# <i>lsblk</i>				
NAME	MAJ:HIN RM	SIZE R	O TYPE	HOUNT POINTS	
xvga	•	86 .	disk		
- x421		86 .	part	,	
- xvd2127	٠.	/n .	part	/	
L xvd2128	•	IOH .	PAH	1600+ 10gg	
Xudb Xudb1 Xudb2		36 . 136 .	disk Part Part		
Trataip-172 2					
		dev			
INTO 172-31-95	-153 dav]# 15				
x.49	xvda127 xvda128 xvdb xvdb1 xvdb2				

DoKO11-172-31-95-153 der]#

[: Partition over]

[: cher earthing before short - (i main files, dir)]

Hard Imk:

-> Inado will be same.

-> even though if we remove the main file, still hardlink file will be precent.

[: white - File

: Blue - dit]

PUHS

[ratair-172-31-95-153 day]# <d

[Faut@ip-172-31-95-15] ~] # touch file!

[tast@if-172-31-95-153]# mkdir files

[wt@ip-172-31-95-153 ~]# 15 -2

10410

-tw-t--t--, 1 but but ... The AW

drwxf-x1-x. ... flb1->8

Dout@i9-172-31-95-153 ~)# touch hard

[hot@il-172-31-95-153 ~]# cat > flo

this is file1

Francoip-12-31-95-153 ~3# In file hallo

[Took@ip-172-31-95-153 ~3# 15 -2 total 8

-tw-1--1-- 56 200

18 - hard ->w

-ta--- hello ->w

[Tool @	ip-170-31-95-153	~]# 15	-li
	6×21 8		
	5055 24	-tw	·
	853 6983	di · · ·	· · · · · · · · · · · · · · · · · · ·
SAMO EX	511666	-tw	·-· hard
	505524	-tw	··· hallo
this i			hello
Lkot@ir-i	172-31-95-153 ~]#	
	[:: gonng	1 18 Move	the Original

Original sile of hardlink]

[wt@ip-172-31-95-153 ~]# 1111 file

HM: HMOVE LEGILAR FILE '56'? XA

[TWEGIP-172-31-95-153 ~]# 15 -l total 4

dr ... fib1 >w -tw hard ->B

hallo -w - YW - .

[tast@if-172-31-95-153 ~]#

[:. eventhough we remove our original file, our linked file is still there in "Hard lin

symbolic link or soft link;

* Inade will not be same.

* if we remove the main file, sufflink file will not present.

Ih -s filoname path

In -5 filoname linkswname

Puty: cont

Mateip-172-31-95-153 ~J# Louch Soft

Irostoip-172-31-95-153 ~J# CAt > Soft

this is symbolic link

[Tout@ip-172-31-95-153 ~]# /n -5 Soft Soft]

[twt@ip-172-31-95-153 w]# 15 -li

total 8

853(983 drw -- files 78

511666 -tw -- hard →w

505524 -tw-- . .- . hello ->w

diff < 511667 -+w-. Soft →w

10000 511670 (1+w-- Soft → Soft → Soft

Sky Blue Sw

[wtoip-172-31-95-153 NJ# CAt Soft1

-chis is symbolic link

Fakap-172-31-95-153 ~J#

[-: Gonna remove the original 56]

Trate ip-172-31-95-153 -34 im soft
Im: Homove kgolar file 'Soft'? you
Frox 611-172-31-95-153 ~]# 15 -21
<i>રહીસે 4</i>
8536983 dr
511666 -1w hard -> w
- con the second

511670 lt ---

CAL: SUFFI: No such file or director

[tout@ip-172-31-95-153 ~]# cat soft1

[:- As we removed the original file, we are unable to doss

the "linked sib", in soft link.

"The "linked sto" van't be acessed, once the original sile delegal in

SOA link"]

[we have done in sto.]

[-: same for solder this process]

-> let's see in folla.

foller can't be used]

[hwto19-172-31-95-153 ~]# pwd

Mout

[twt@ip-172-31-95-153 ~]# mkdir linux

Interp-172-31-95-153 ~J# cd /illux

[100+@19-172-31-95-153 linux]# pwd

Most/linux

[hot@ip-172-31-95-153 linux]# 2d

[Fast@iP-172-31-95-153 ~]# In hard /rost//inux

[wt@ip-172-31-95-153 ~]# 15 -li

total 4

8531983 drw -- Files AB

511111 -tw .- hard >w

505524 -tw... halo ->w

511661 diw... ... hnux >8

511610 /rw. Sof1 -> soft

[wt@ip-172-31-95-153 N]# cd /invx

[10st@ip_172-31-95-153 linux]# 15 hard

[wt@ip-172-31-95-153 linux]# 15 -17

total o

51166 -tw-t-- hard

[: same Inades]