=========Hardware requirement=========

Raspberry Pi 4b (Raspberry PI Lite OS)

32G SD-Card

4T SATA HDD + SATA to USB convertor

IP cameras (Reolink wifi camera) \ NOT Cloud managed camera

==============Assume===============

Install Raspberry OS

Connect IP cameras to the network and enable RTSP (streaming)

============Static IP=================

sudo nano /etc/dhcpcd.conf

interface eth0

static ip\_address=10.1.1.4/24

static routers=10.1.1.1

static domain\_name\_servers=10.1.1.1

===========recording script==============

Bellow script will record footage 1hr per file and keep 7 days footages

nano cam1.sh

#!/bin/bash

now=`date '+%Y-%m-%d-%H-%M-%S'`

ffmpeg -rtsp\_transport tcp -i rtsp://username:password@<Camera-IP-address>/live1.sdp -t 3600 -vcodec copy /mnt/CCTV01/Cam1/cam1\_$now.mp4

find /mnt/CCTV01/Cam1 -type f -mtime +7 -exec rm {} \;

chomd +x cam1.sh

sudo apt-get install ffmpeg

=========auto mount USB Disk===========

// find the disk /dev/sdb

sudo fdisk -l

// modify the disk and partition

sudo fdisk /dev/sdb

p print the partition table

d delete a partition

n add a new partition

//format partition to exfat

sudo mkfs.exfat -n CCTV01 /dev/sdb1

//add the disk to auto mount

sudo blkid

sudo nano /etc/fstab

UUID=ED3D-D3BB /mnt/CCTV01 exfat auto,nofail,noatime,users,rw,uid=pi,gid=pi 0 0

mkdir /mnt/CCTV01

Chmod 777 /mnt/CCTV01

sudo chown -R pi:pi /mnt/CCTV01

sudo apt install exfat-fuse

reboot

===============Samba server=================

sudo apt-get install samba samba-common-bin

sudo smbpasswd -a pi

sudo nano /etc/samba/smb.conf

[CCTV01]

Comment = Pi shared folder

Path = /mnt/CCTV01

Browseable = yes

Writeable = Yes

only guest = no

create mask = 0777

directory mask = 0777

Public = yes

Guest ok = yes

force user = pi

force group = pi

sudo /etc/init.d/samba-ad-dc restart

===============Schedule Task=================

crontab -e

0 \* \* \* \* /home/pi/cam1.sh

0 \* \* \* \* /home/pi/cam2.sh

0 \* \* \* \* /home/pi/cam3.sh