

Tugas :

1. Buatlah sebuah bash script untuk mengecek penggunaan disk pada server. Jika penggunaan disk melebihi 80%, kirim notifikasi ke Discord.

Angka **80%** ini hanya contoh, bisa disesuaikan dengan kapasitas disk server Anda. Intinya, script harus dapat mengirimkan alert ketika penggunaan disk melewati batas yang ditentukan.

2. Setup cronjob untuk menjalankan bash script tersebut jalan 30 menit sekali

Notes :

Saya set penggunaan disk 10%, supaya bisa segera mendapat notif di discord

Begitu pula di cronjob, saya set setiap 1 menit, supaya saya bisa mendapat notif segera di discord untuk tujuan pengetesan

1. Masuk ke EC2 lewat SSH

```
ssh -i your_key.pem ubuntu@PUBLIC_IP
```

2. Buat File Script

```
sudo nano /usr/local/bin/check_disk.sh
```

Dan copy paste script berikut (ubah webhook URLnya terlebih dahulu). Untuk mendapatkan webhook URL, saya akan sertakan caranya dibawah.

Notes : Webhook itu cara otomatis “ngirim pesan/data ke aplikasi lain” saat terjadi suatu event. Kelebihan: real-time, push-based, nggak perlu polling.



```
ubuntu@ip-172-31-1-220: ~
GNU nano 7.2
#!/bin/bash

# ===== CONFIG =====
THRESHOLD=10 # batas disk usage, aku masukin 10 karna supaya cepet dapet alertnya
WEBHOOK_URL="https://discord.com/api/webhooks/1449123462852509776/dEhtr7H7SrxS12GVevtufNBRxp2w4UesxMutxgTRSBsvgDQMDemTy7_24_OFJrUMcceKu" # Link webhook Discord
HOSTNAME=$1 #hostname
DATE=$(date +'%Y-%m-%d %H:%M:%S')

# ===== CEK DISK =====
USAGE=$(df -h / | awk 'NR==2 {print $5}' | sed 's/%//')

# ===== LOGIC ALERT =====
if [ "$USAGE" -gt "$THRESHOLD" ]; then
    MESSAGE="ALERT! Disk usage on **$HOSTNAME** reached **$USAGE** at $DATE"
    curl -H "Content-Type: application/json" \
        -X POST \
        -d "{\"content\": \"$MESSAGE\"}" \
        "$WEBHOOK_URL"
fi
```

GNU nano 7.2

/usr/local/bin/check_disk.sh

```
#!/bin/bash
```

```
# ===== CONFIG =====
```

```

THRESHOLD=10 # batas disk usage, aku masukin 10 karna supaya cepet dapet
alertnya

WEBHOOK_URL="https://discord.com/api/webhooks/1449123462852509776/dEhtr7
H7SrxS12GVeVtufNBRXp2W4UesxMutxgTRSBsvgDQMDemTy7_24_OFJrUMceKu" #

link webhook Discord

HOSTNAME=$(hostname)

DATE=$(date +"%Y-%m-%d %H:%M:%S")

# ===== CEK DISK =====

USAGE=$(df -h / | awk 'NR==2 {print $5}' | sed 's/%//')

# ===== LOGIC ALERT =====

if [ "$USAGE" -gt "$THRESHOLD" ]; then

    MESSAGE="⚠️ ALERT! Disk usage on **$HOSTNAME** reached **$USAGE%** at
$DATE"

    curl -H "Content-Type: application/json" \
        -X POST \
        -d "{\"content\": \"$MESSAGE\"}" \
        "$WEBHOOK_URL"

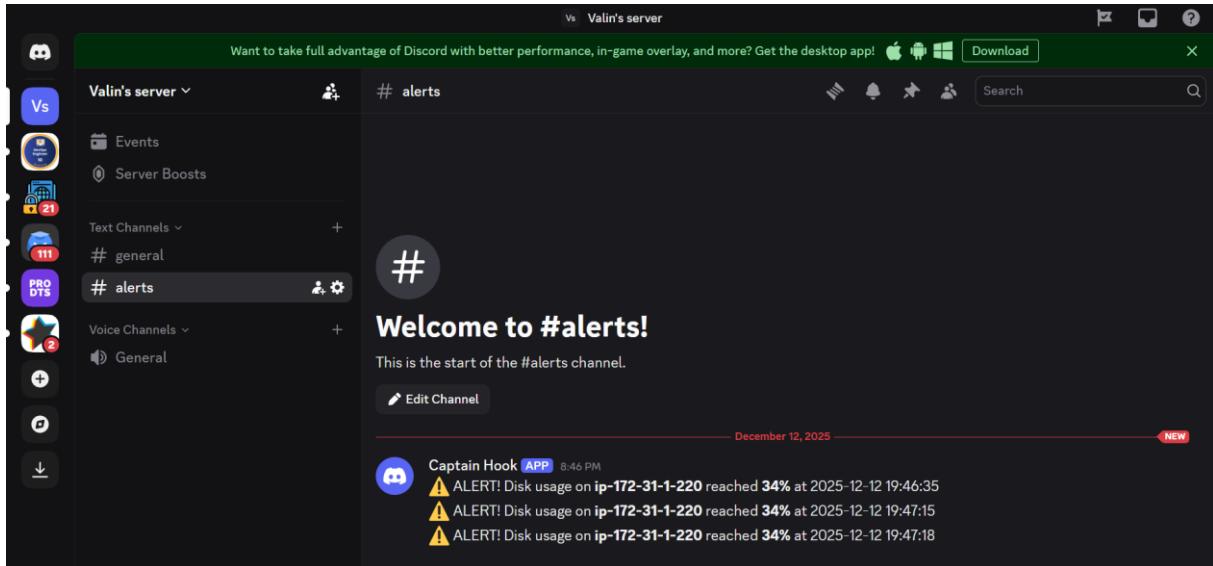
fi

```

3. Buat script executable

```
sudo chmod +x /usr/local/bin/check_disk.sh
```

4. Test script manual (Kalau disk usage >10%, harus muncul notifikasi Discord)



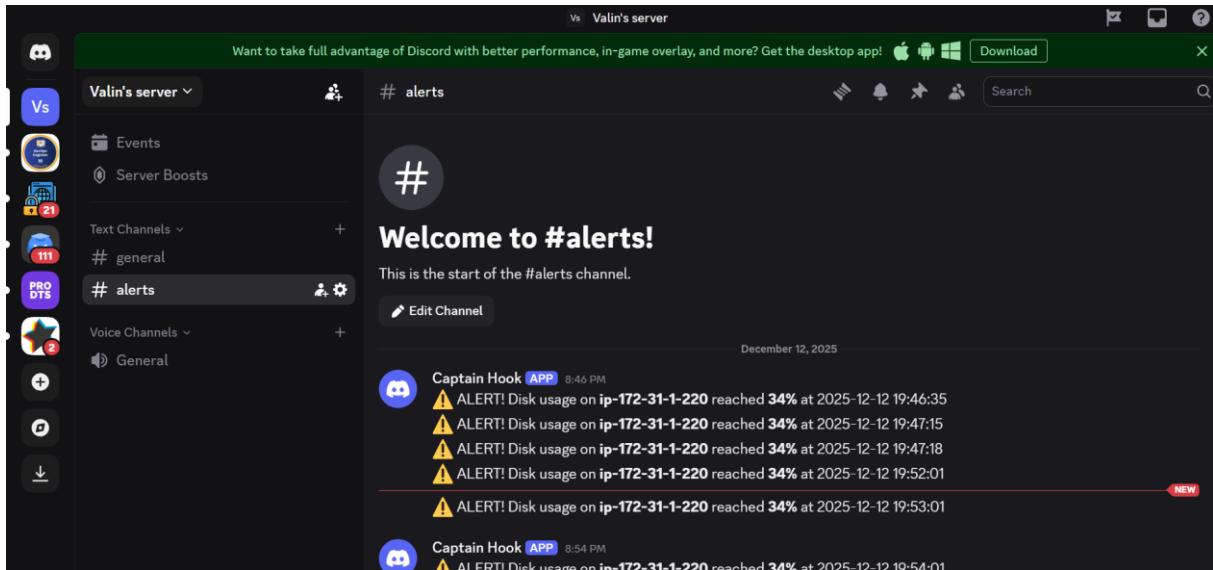
5. Setup Cronjob (jalan tiap 1 menit)

```
crontab -e
```

```
ubuntu@ip-172-31-1-220: ~
GNU nano 7.2
# Edit this file to introduce tasks to be run by cron.
#
# Each task to run has to be defined through a single line
# indicating with different fields when the task will be run
# and what command to run for the task
#
# To define the time you can provide concrete values for
# minute (m), hour (h), day of month (dom), month (mon),
# and day of week (dow) or use '*' in these fields (for 'any').
#
# Notice that tasks will be started based on the cron's system
# daemon's notion of time and timezones.
#
# Output of the crontab jobs (including errors) is sent through
# email to the user the crontab file belongs to (unless redirected).
#
# For example, you can run a backup of all your user accounts
# at 5 a.m every week with:
# 0 5 * * 1 tar -zcf /var/backups/home.tgz /home/
#
# For more information see the manual pages of crontab(5) and cron(8)
#
# m h dom mon dow   command
*/1 * * * * /usr/local/bin/check_disk.sh #
aku mau tiap 1 menit dicek, supaya cepet aja ka liat hasilnya di discord hehe
```

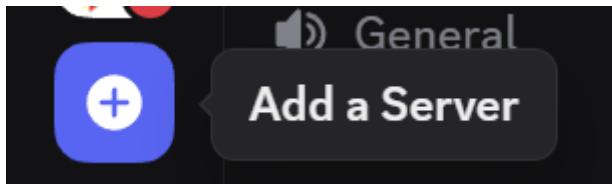
```
*/1 * * * * /usr/local/bin/check_disk.sh
```

Dan hasilnya, tiap 1 menit saya mendapatkan alert, karna disk usagenya lebih dari 10%

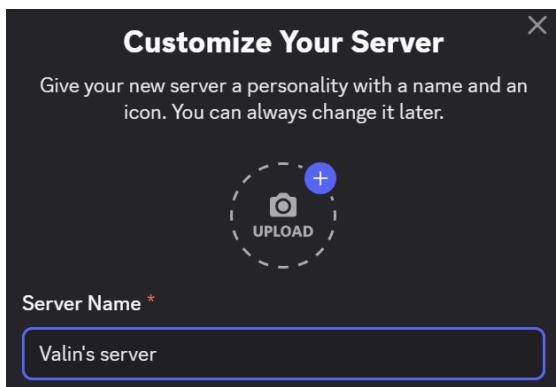


Cara mendapatkan webhook URL di discord

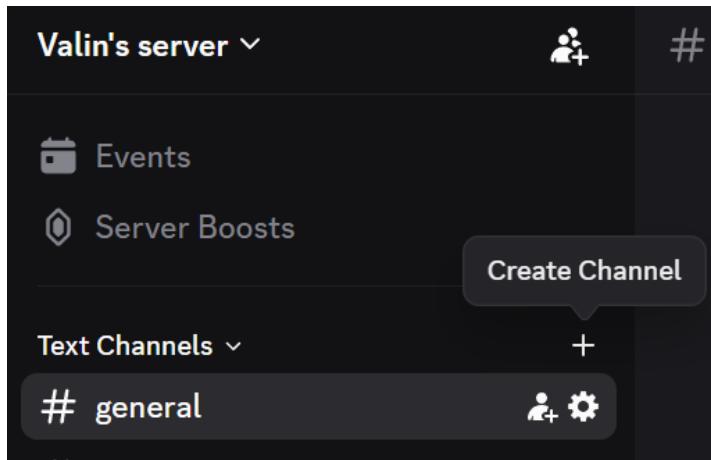
1. Klik Add a Server



2. Klik Create My Own dan For me and my friends
3. Beri nama servernya



4. Klik create channel



5. Buat Webhook

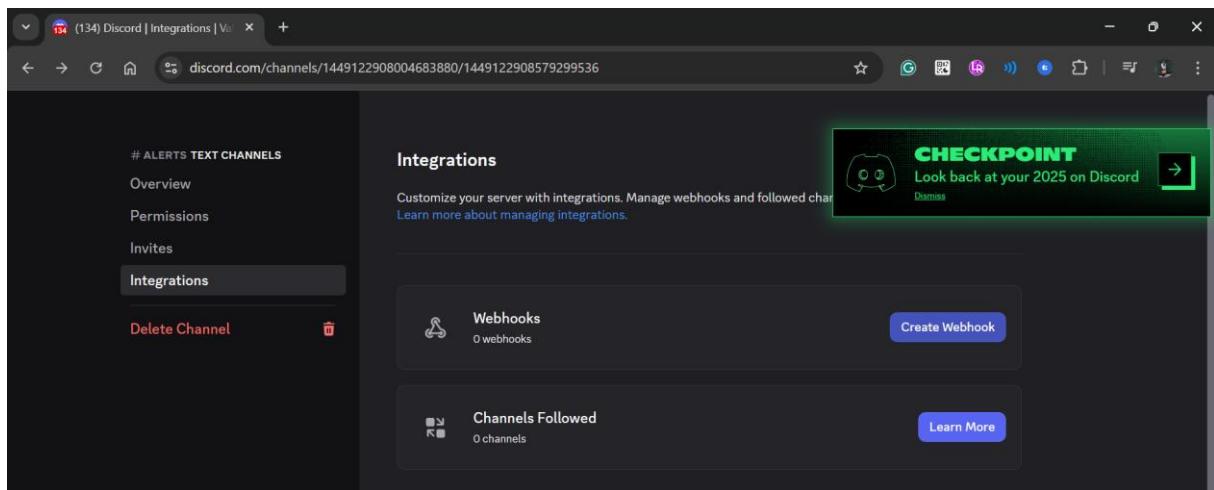
Klik **channel** → **Edit Channel** (ikon gear) → **Integrations** → **Webhooks**

Klik **New Webhook**

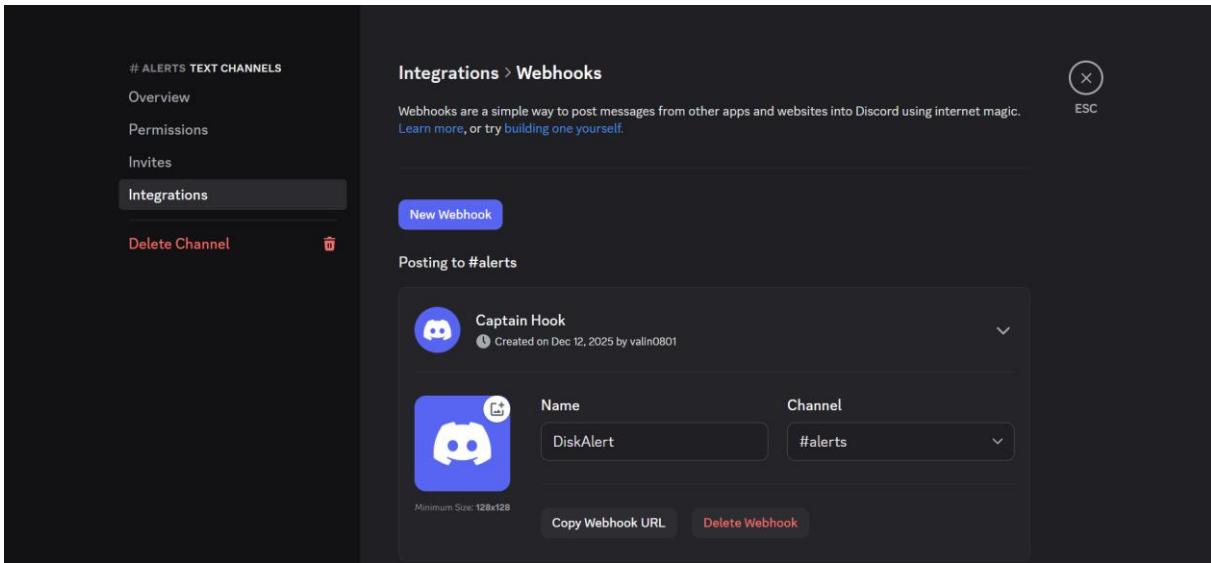
Isi:

- **Name:** nama webhook, misal DiskAlert
- **Channel:** pilih channel target (misal #alerts)

Klik **Copy Webhook URL** → ini yang akan dipakai di script.



Click Create Webhook



Click Copy Webhook URL dan paste disini :

```
ubuntu@ip-172-31-1-220:~$ sudo nano /usr/local/bin/check_disk.sh
```

```
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# /bin/bash

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HOSTNAME=$(hostname)
DATE=$(date +"%Y-%m-%d %H:%M:%S")

# ===== CEK DISK =====
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# ===== LOGIC ALERT =====
if [ "$USAGE" -gt "$THRESHOLD" ]; then
    MESSAGE="\`ALERT! Disk usage on **$HOSTNAME** reached **$USAGE%** at $DATE"
    curl -H "Content-Type: application/json" \
        -X POST \
        -d "{\"content\": \"$MESSAGE\"}" \
        "$WEBHOOK_URL"
fi
```