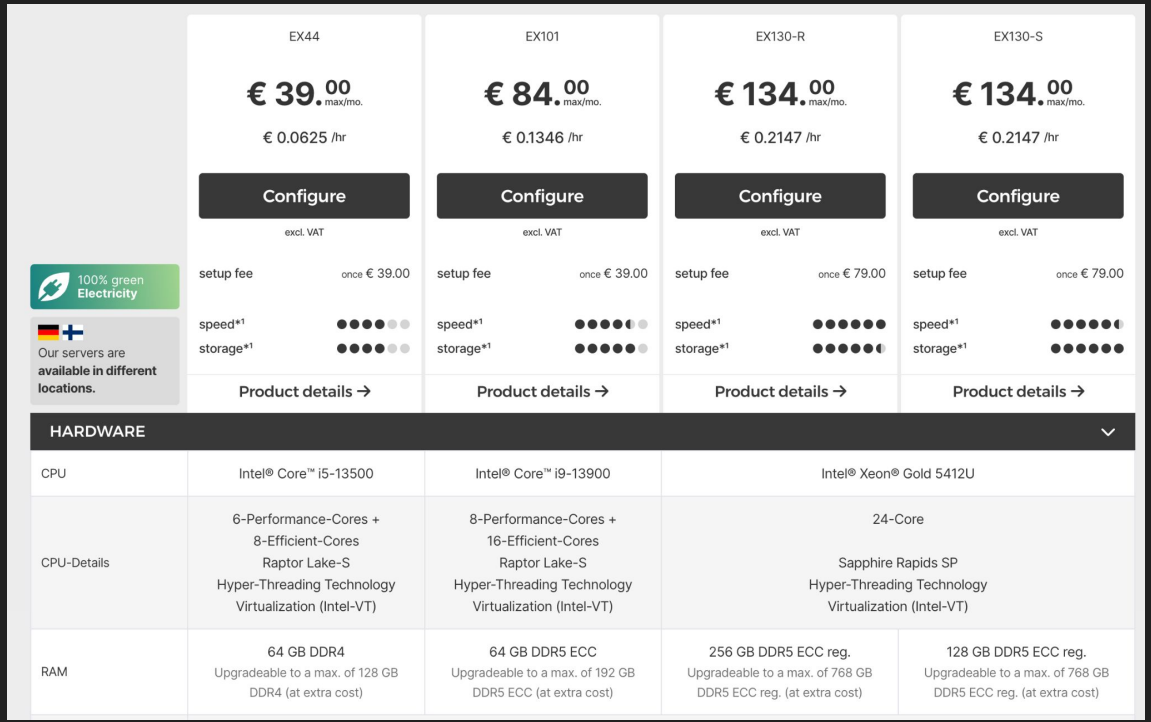
Katakate -- K7

Hetzner node setup

Pick a dedicated instance exposing hardware virtualization

Since you need hardware virtualization exposed, cloud VMs won’t do.

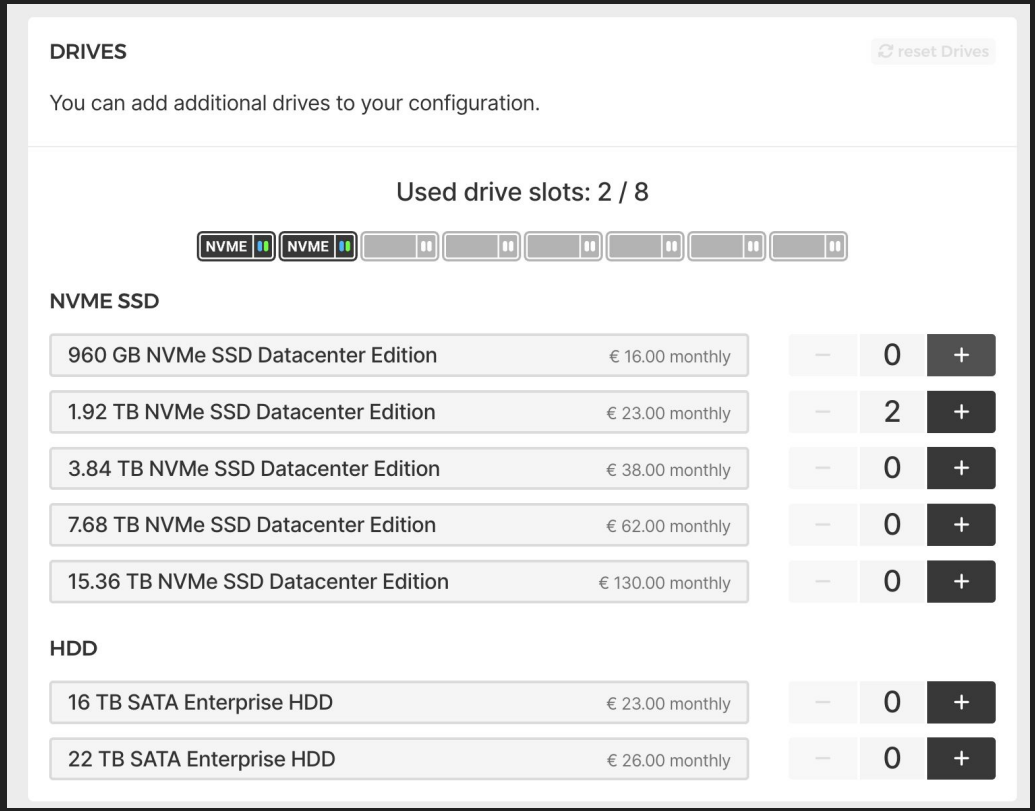
Pick a dedicated instance, click “**configure**”. For instance on one of those: https://www.hetzner.com/dedicated-rootserver/matrix-ex/



	EX44	EX101	EX130-R	EX130-S
	€ 39.00 max/mo.	€ 84.00 max/mo.	€ 134.00 max/mo.	€ 134.00 max/mo.
	€ 0.0625 /hr	€ 0.1346 /hr	€ 0.2147 /hr	€ 0.2147 /hr
	Configure	Configure	Configure	Configure
	excl. VAT	excl. VAT	excl. VAT	excl. VAT
100% green Electricity	setup fee once € 39.00	setup fee once € 39.00	setup fee once € 79.00	setup fee once € 79.00
Our servers are available in different locations.	speed*1 ●●●●○○	speed*1 ●●●●◐○	speed*1 ●●●●●●	speed*1 ●●●●●◐
	storage*1 ●●●○○○	storage*1 ●●●●●○	storage*1 ●●●●●◐	storage*1 ●●●●●●
	Product details →	Product details →	Product details →	Product details →
HARDWARE				
CPU	Intel® Core™ i5-13500	Intel® Core™ i9-13900	Intel® Xeon® Gold 5412U	
CPU-Details	6-Performance-Cores + 8-Efficient-Cores Raptor Lake-S Hyper-Threading Technology Virtualization (Intel-VT)	8-Performance-Cores + 16-Efficient-Cores Raptor Lake-S Hyper-Threading Technology Virtualization (Intel-VT)	24-Core Sapphire Rapids SP Hyper-Threading Technology Virtualization (Intel-VT)	
RAM	64 GB DDR4 Upgradeable to a max. of 128 GB DDR4 (at extra cost)	64 GB DDR5 ECC Upgradeable to a max. of 192 GB DDR5 ECC (at extra cost)	256 GB DDR5 ECC reg. Upgradeable to a max. of 768 GB DDR5 ECC reg. (at extra cost)	128 GB DDR5 ECC reg. Upgradeable to a max. of 768 GB DDR5 ECC reg. (at extra cost)

Add an external hard-drive

You now need to add an external device without any sort of formatting, that will be used for the *devmapper snapshotter* thinpool provisioning. What does that mean? It means it will be used as ephemeral storage for the VM sandboxes. For instance, add the cheapest one: 960GB NVMe SSD, bringing you to ⅜ used drive slots.



From the rescue system

When booting from the rescue system, type “installimage” to choose an OS to install. Pick your OS. I tested only Ubuntu 24 Noble so far.

```
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Rescue System (via EFI) up since 2025-09-17 12:11 +02:00

Hardware data:

   CPU1: 13th Gen Intel(R) Core(TM) i5-13500 (Cores 20)
   Memory:  64127 MB (Non-ECC)
   Disk /dev/nvme0n1: 512 GB (=> 476 GiB)
   Disk /dev/nvme1n1: 2048 GB (=> 1907 GiB) doesn't contain a valid partition ta
ble
   Disk /dev/nvme2n1: 512 GB (=> 476 GiB)
   Total capacity 2861 GiB with 3 Disks

Network data:
   eth0  LINK: yes
         MAC:  c8:7f:54:07:e6:7c
         IP:   176.9.17.156
         IPv6: 2a01:4f8:150:1186::2/64
         RealTek RTL-8169 Gigabit Ethernet driver

root@rescue ~ # installimage
```

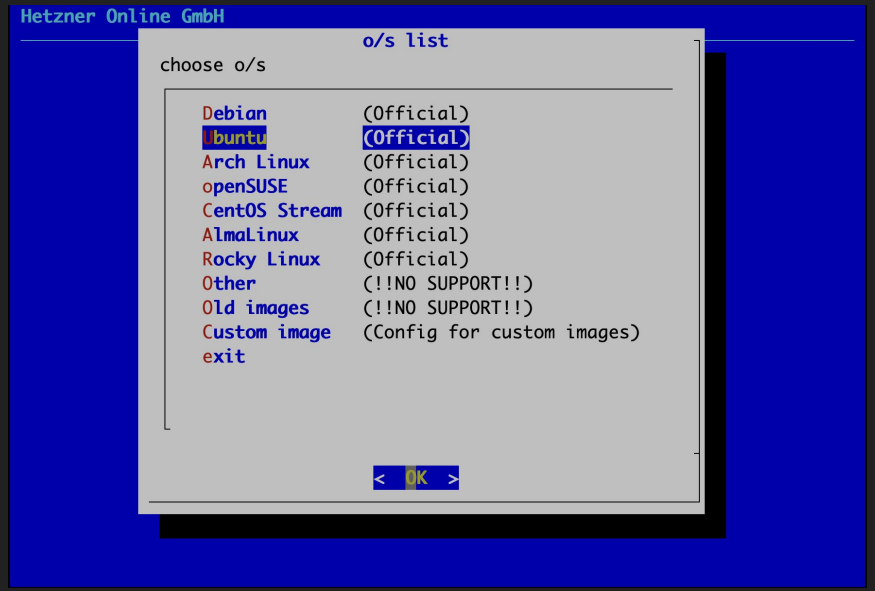

Keep the last drive unformatted, without SWRAID

Make sure you comment the third device, and that you decrease the SWRAID level from 5 to 1. Then click “save” and “quit”.

```
/installi~all.conf   [BM--]  0 L:[ 12+ 5  17/179] *(540 /5188b) 0035 0x023 [*][X]
# Device Model: SAMSUNG MZVL2512HCJQ-00B00, Serial Number: S675NU0TB25138
DRIVE1 /dev/nvme0n1
# Device Model: Micron_3400_MTFDKBA2T0TFH, Serial Number: 234747AF0754
DRIVE2 /dev/nvme1n1
# Device Model: SAMSUNG MZVL2512HCJQ-00B00, Serial Number: S675NU0TB25126
# DRIVE3 /dev/nvme2n1

## if you dont want raid over your three drives then comment out the following l
## please make sure the DRIVE[nr] variable is strict ascending with the used har


## ===============
##  SOFTWARE RAID:
## ===============

## activate software RAID?  < 0 | 1 >

SWRAID 1

## Choose the level for the software RAID < 0 | 1 | 5 | 10 >

SWRAIDLEVEL 1
 1Help  2Save  3Mark  4Replac 5Copy  6Move  7Search 8Delete 9PullDn10Quit
```

Reboot

Once OS install is completed, type “reboot” and press enter.