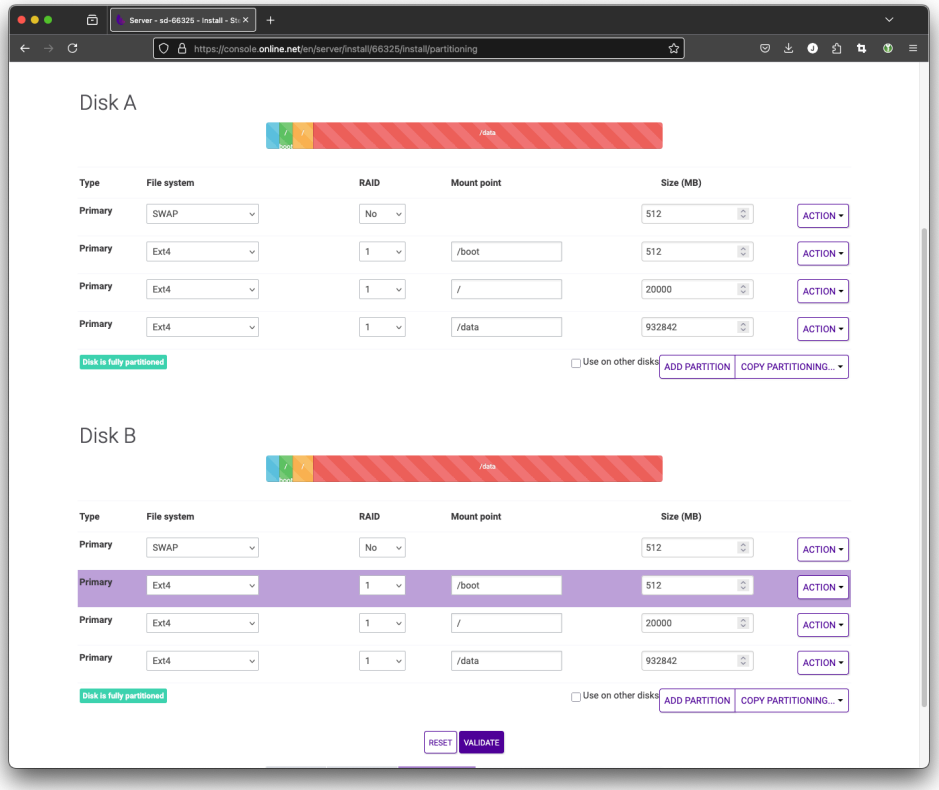
PBS Setup

Proxmox Backup Server (PBS) Setup

Rent START-1-L servers from Scaleway.

By default, the two 1TB disks are arranged in a RAID 1 configuration. This is fine so keep everything the same.



Upgrade Debian 10 → 11 → 12 using standard methods.

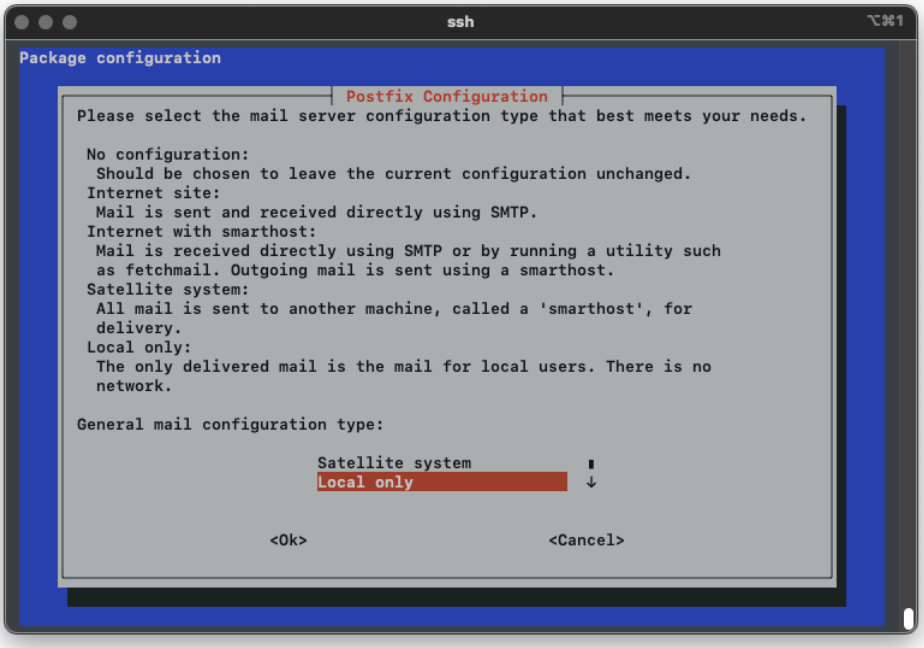
- https://www.cyberciti.biz/faq/update-upgrade-debian-10-to-debian-11-bullseye/
- https://www.cyberciti.biz/faq/update-upgrade-debian-11-to-debian-12-bookworm/

Install Proxmox Backup Server

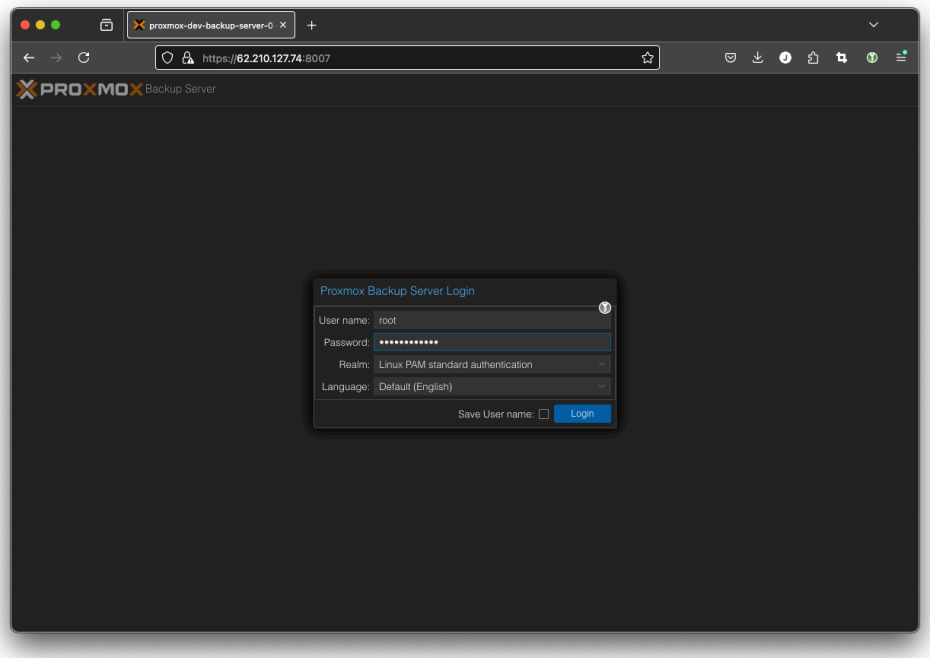
```
# Add Proxmox signing key to our trusted list.
wget https://enterprise.proxmox.com/debian/proxmox-release-bookworm.gpg \
  -O /etc/apt/trusted.gpg.d/proxmox-release-bookworm.gpg

# Add proxmox backup server repository to our sources.
echo "deb http://download.proxmox.com/debian/pbs bookworm pbs-no-subscription" \
  | tee -a /etc/apt/sources.list.d/proxmox-backup-server.list
```

```
apt update && apt install proxmox-backup -y
```

During installation, it may ask you for Postfix configuration. Select Local only. Then, the following screen can be left to defaults.

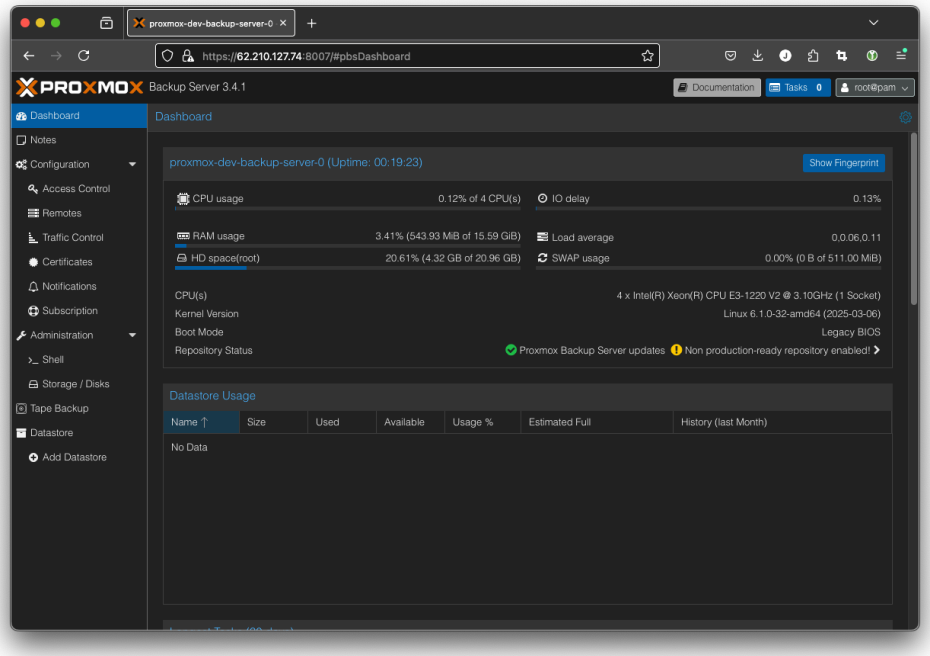


Access the web GUI on port 8007 to confirm that it is working.



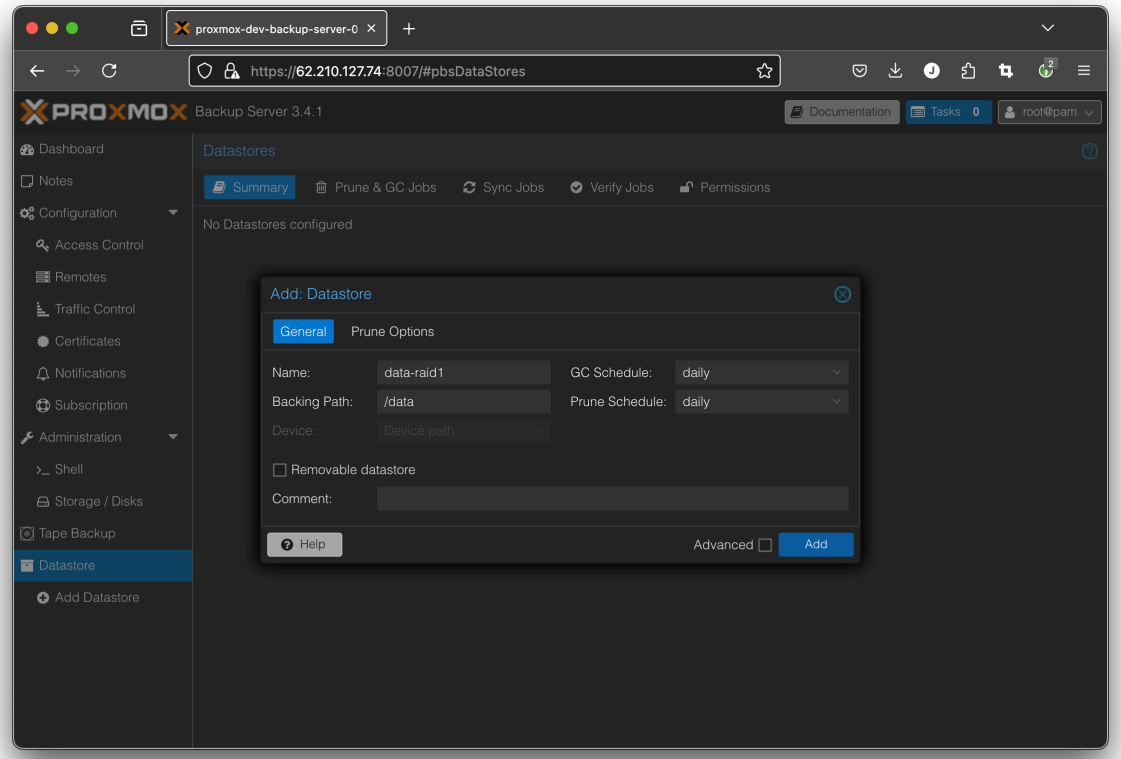
Log in with the ‘root’ and password defined initially at Scaleway server setup and use “Linux PAM standard authentication”.

Before we proceed, however, we will use Tailscale to prevent access to this web UI from the open internet. This backup server will join the Tailnet along with the Proxmox VE nodes. Therefore, backups will also go securely through the tailnet.



Option 1: Using software RAID - Add `/data` directory as PBS Datastore.

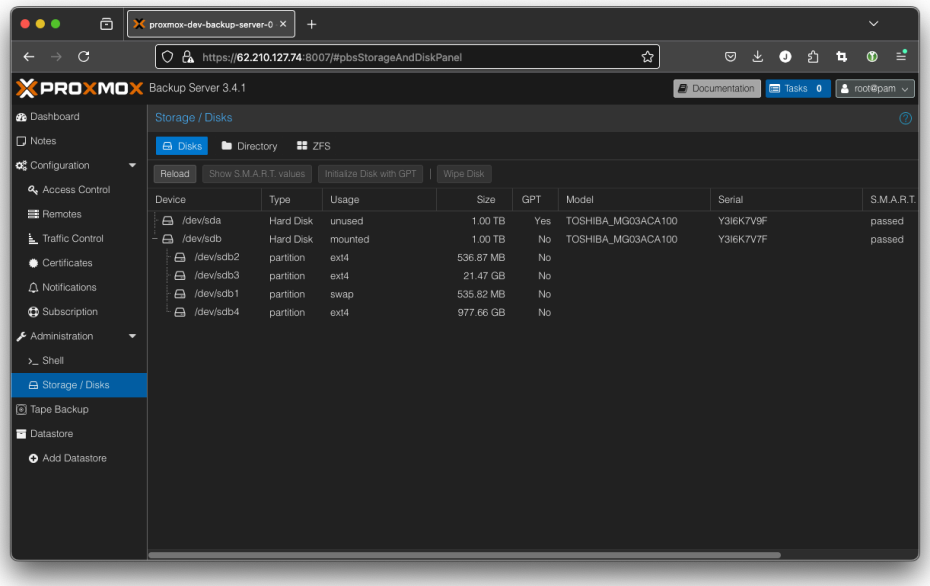
The Scaleway defaults above set us up with two 1TB drives configured in software RAID 1, and mounted as `/data` directory. We’ll use this path directly as the main datastore.



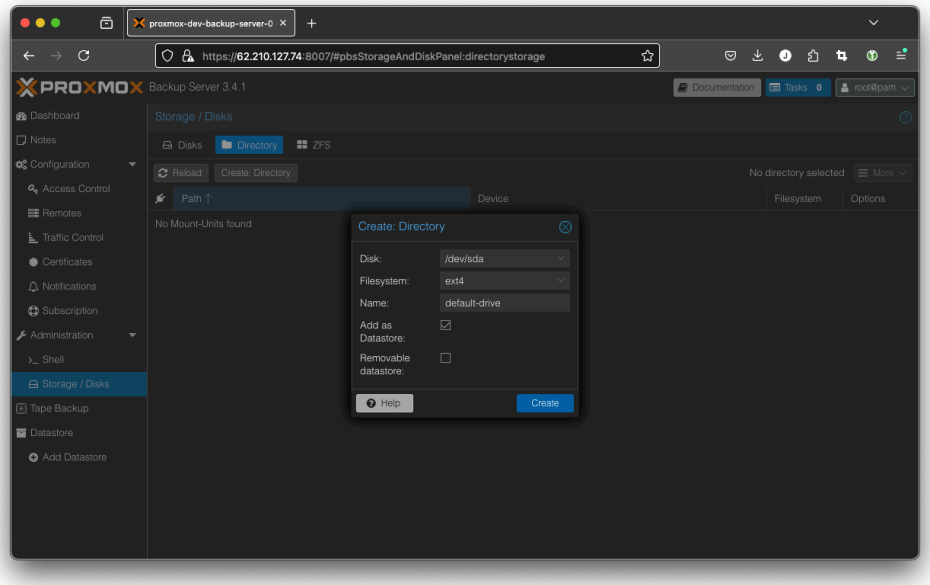
Option 2: No RAID, add formatted partition as PBS Datastores.

Alternatively, At Scaleway configuration step, we can disable RAID and just have a large data partition on the boot drive, and a whole empty drive.

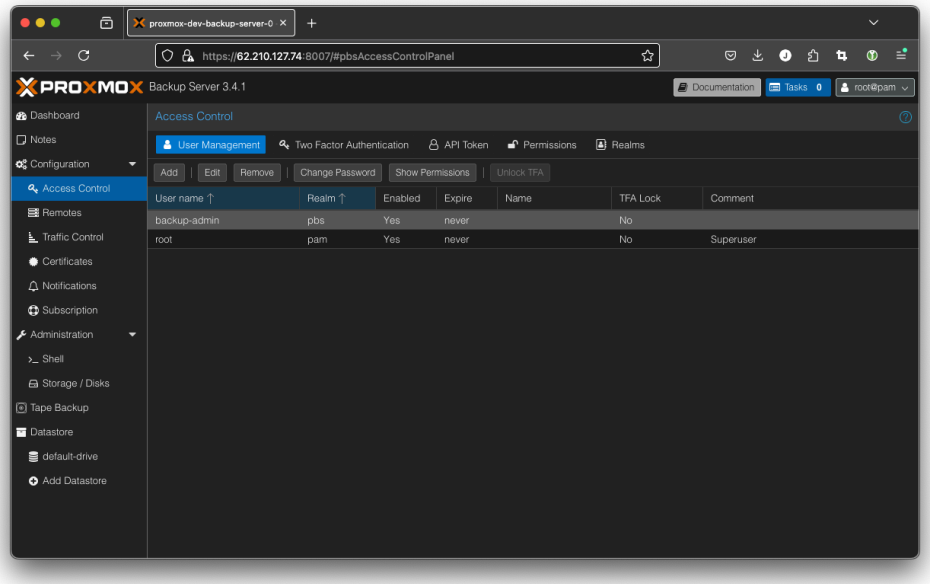
Wipe the partition on the first drive and the whole second drive and add it as Datastores.



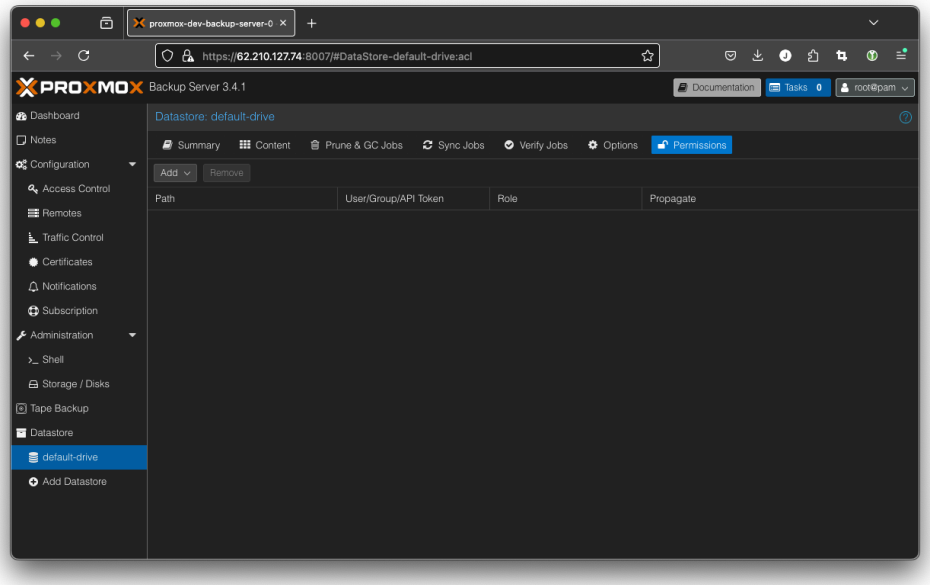
Select the unused drive and create a ‘Directory’ with ext4.

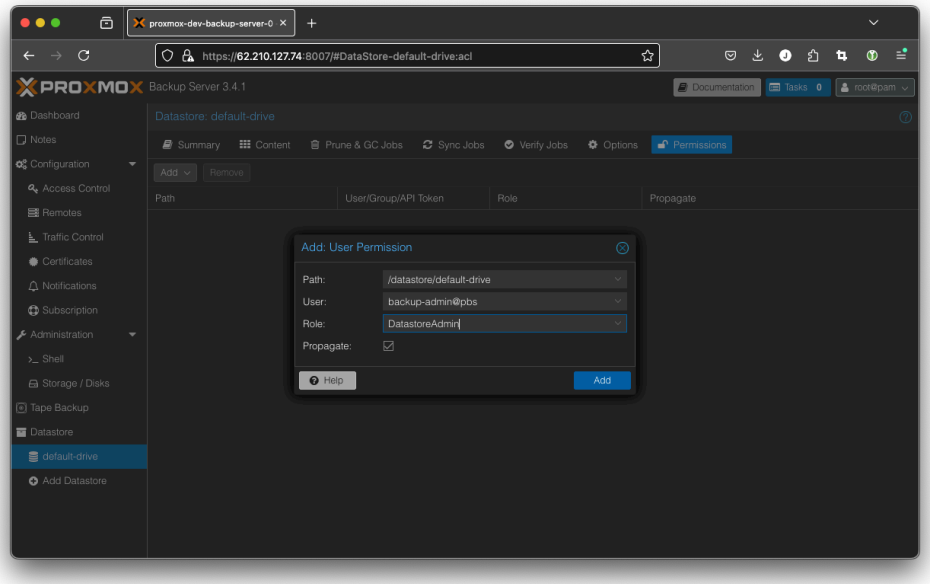


Since we should avoid using the ‘root’ account as much as possible, create a ‘backup-admin@pbs’ user:



In Datastore permissions, give the backup-admin@pbs the permissions for DatastoreAdmin





At last, Proxmox Backup Server is ready to be added to a Proxmox VE cluster as a ‘storage’, and therefore serve as a backup destination. Use the `backup-admin@pbs` credential created here when adding this PBS from Proxmox VE.