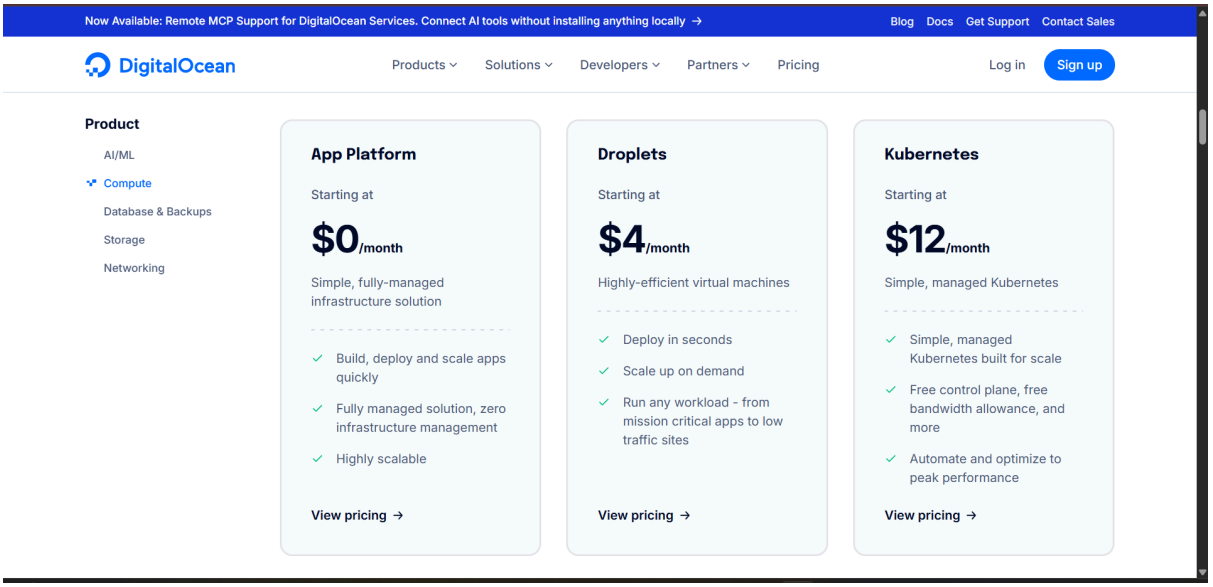
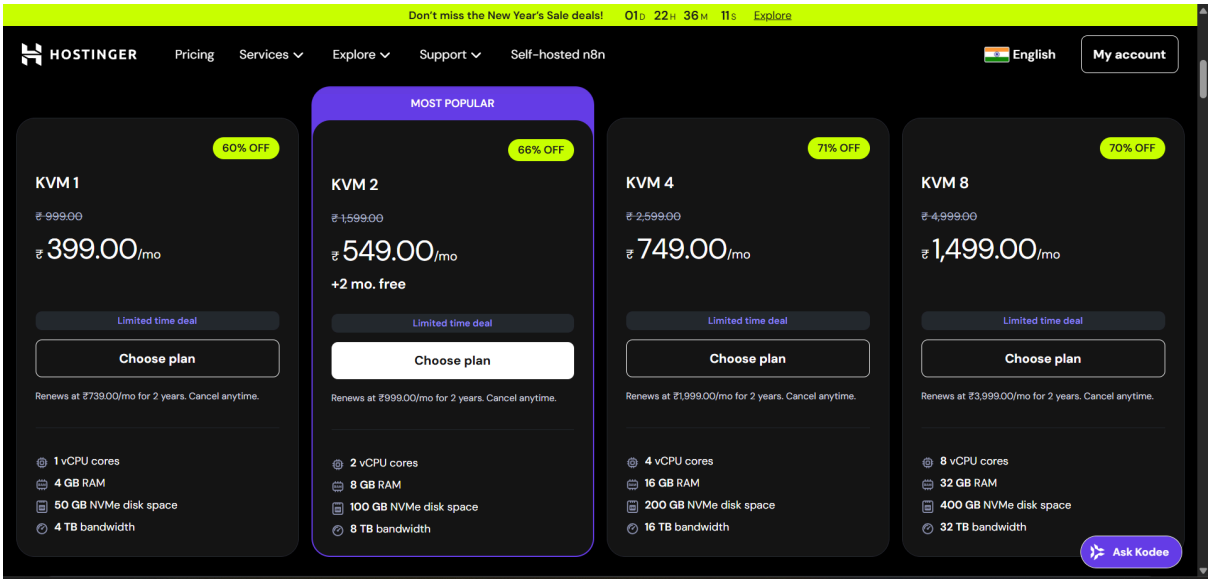
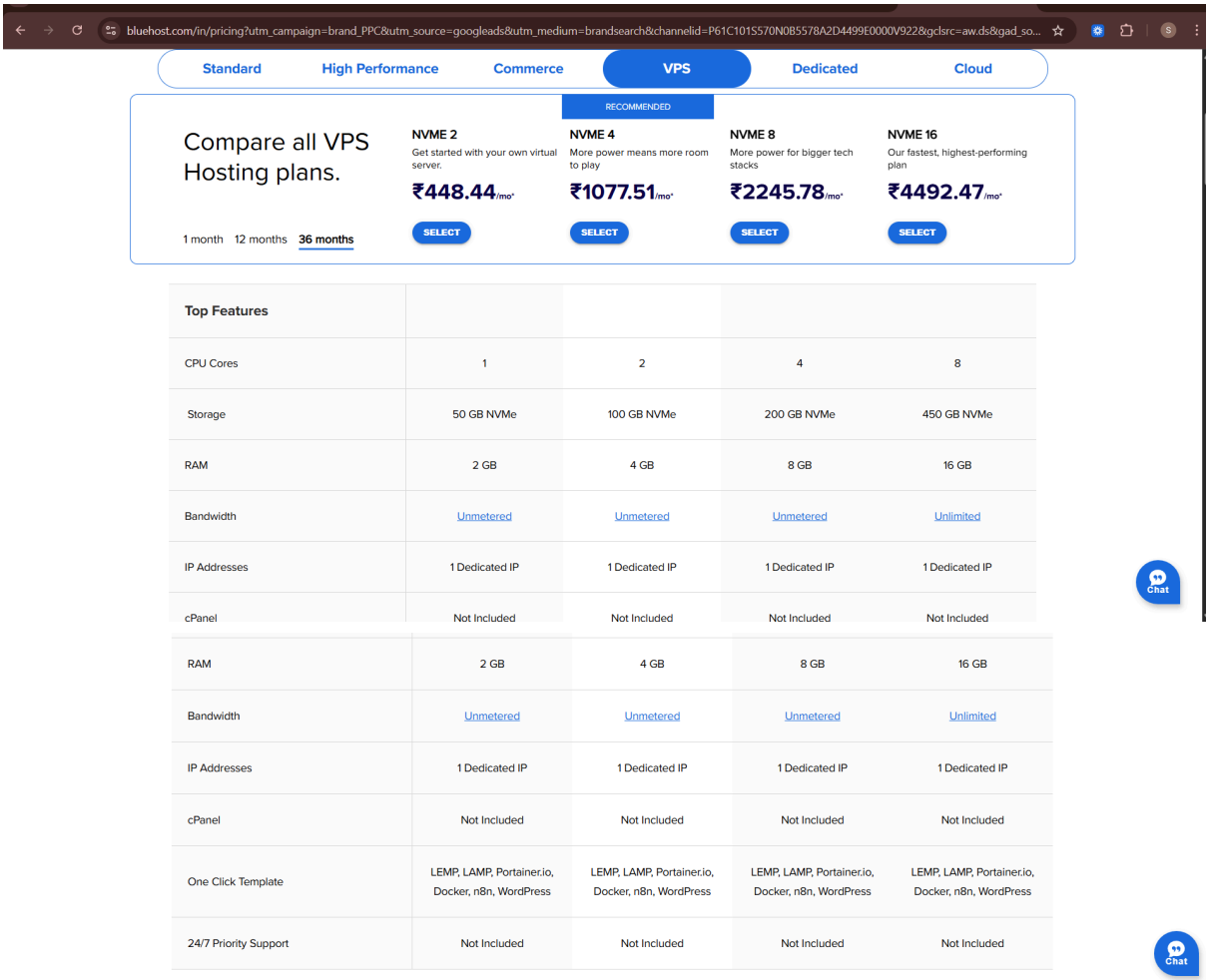
Hosting Plan Comparisons

VPS:- Virtual Private Server.Hosting providers like Hostinger, Digital Ocean.





Bluehost:-



RAM	2 GB	4 GB	8 GB	16 GB
Bandwidth	Unmetered	Unmetered	Unmetered	Unlimited
IP Addresses	1 Dedicated IP	1 Dedicated IP	1 Dedicated IP	1 Dedicated IP
cPanel	Not Included	Not Included	Not Included	Not Included
One Click Template	LEMP, LAMP, Portainer.io, Docker, n8n, WordPress	LEMP, LAMP, Portainer.io, Docker, n8n, WordPress	LEMP, LAMP, Portainer.io, Docker, n8n, WordPress	LEMP, LAMP, Portainer.io, Docker, n8n, WordPress
24/7 Priority Support	Not Included	Not Included	Not Included	Not Included

Chat

Features offered:-
vCPU = **how many tasks your server can do at the same time**.

In your Python website, CPU is used when:

- A user opens a page
- Flask/Django processes request
- Database queries run
- Form data is validated
- Reports are generated

Each request needs CPU time.

RAM (Memory)

What RAM does:

RAM stores **temporary working data** while your app is running.

Your server keeps in RAM:

- Python app code
- User sessions
- Database cache
- Uploaded files being processed

NVMe Disk (Storage)

What is stored on disk?

Disk stores **permanent data**:

- Your app code
- Database tables
- User uploads (images, resumes, documents)
- Logs
- Backups

If server shuts down, disk data stays.

What is bandwidth?

How much **data flows in and out of server per month**.

Includes:

- Loading pages
- API calls
- Image downloads
- File uploads

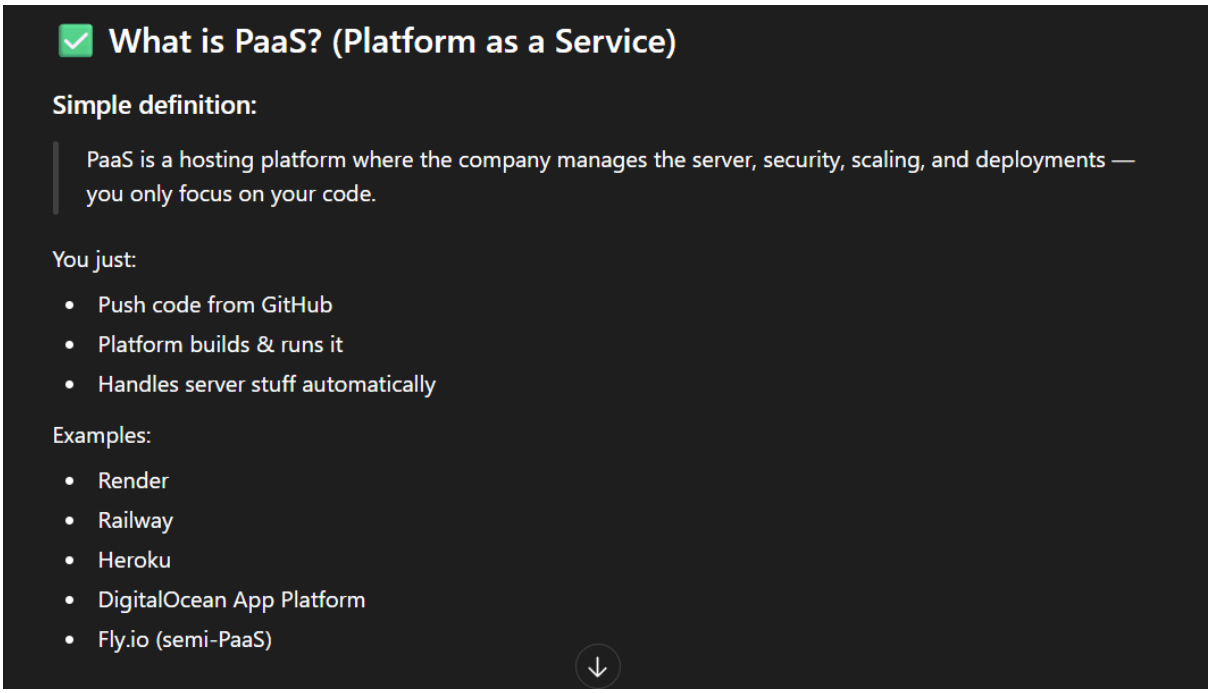
Comparison of all 3 plans:-

⚔️ DIRECT COMPARISON (BEST MID-RANGE PLANS)

🔥 Best Business-Level Plans Compared

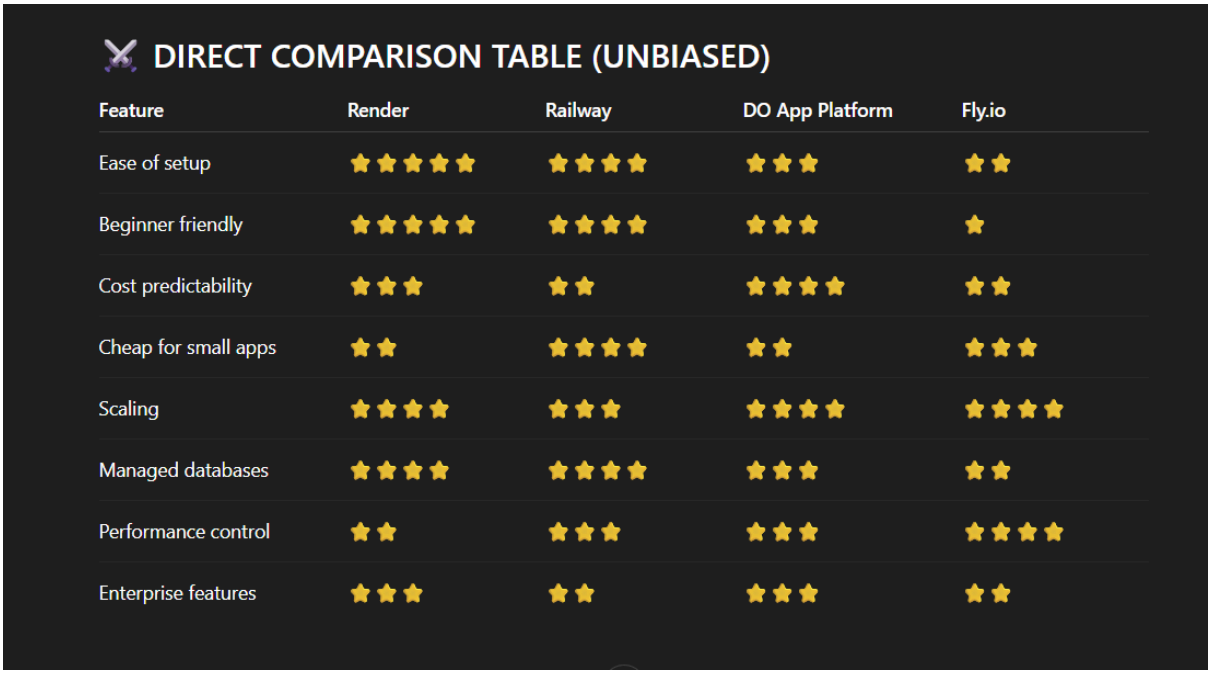
Provider	CPU	RAM	Disk	Price
Bluehost NVMe 4	2 cores	4 GB	100 GB	₹1077
Intech VPS i6	4 cores	6 GB	100 GB	₹1799
Hostinger KVM 2 ⭐	2 cores	8 GB	100 GB	₹549

PaaS:-



Feature	PaaS (Render/Railway)	VPS (Hostinger/Bluehost)
Server setup	❌ Not needed	✅ Must do
Deployment	Auto from GitHub	Manual
SSL	Automatic	Manual
Scaling	Automatic	Manual upgrade
Security patches	Auto	Your job
Backups	Managed DB backups	You must setup
Monitoring	Built-in	Need tools
DevOps skills	Not required	Required
Control	Limited	Full
Risk of downtime	Low	Higher (if misconfigured)

Cost early stage	Slightly higher	Slightly lower



Category	Render (Professional Plan)	Railway (Pro Plan)
Base plan price	$19 per user / month	$20 minimum usage / month
Billing model	Fixed plan + compute + DB	Usage-based, charged after credits
Typical monthly cost (1 app + DB)	$30–50	$20–40
Cost predictability	High (mostly fixed)	Medium (varies with usage)
Free tier suitability	Only for demos, not production	Small apps can run cheaply
Deployment	Auto-deploy from GitHub	GitHub or CLI deploy
Build & rollback	Built-in, easy rollback	Built-in, rollback supported
SSL & custom domain	Automatic	Automatic

Global CDN	Included	Included
Managed PostgreSQL	Yes, with backups	Yes, backups depend on setup
Redis / cache support	Yes	Yes
Horizontal auto-scaling	Yes (paid tiers)	Yes (usage-based)
Background workers	Supported	Supported
Logs & metrics	Strong dashboard	Good, slightly simpler
Team collaboration	Preview env, isolated env, roles	Unlimited seats, access control
Enterprise compliance	SOC2, ISO in higher plans	Available in Enterprise
Ease for beginners	Very easy	Easy–medium
DevOps needed	Very low	Low
Best suited for	Stable production business apps	Cost-sensitive, dev-focused teams

Overall Conclusion (Short)

- **Use Render** if you want **stable, predictable costs, easy management, and strong database backups** for business production. It is safer for launches and client-facing apps.

- **Use the Railway** if you want **lower starting cost and usage-based billing** and you are okay with monitoring costs as traffic grows. It is good for developer-driven, backend-heavy apps.

- **Do not move to VPS right now** unless you have time for server setup and maintenance. PaaS is faster and safer for your current stage.

For your current business apps:
Render Professional is the safest choice.
Railway Pro is the cheaper but slightly riskier (cost variability) choice.