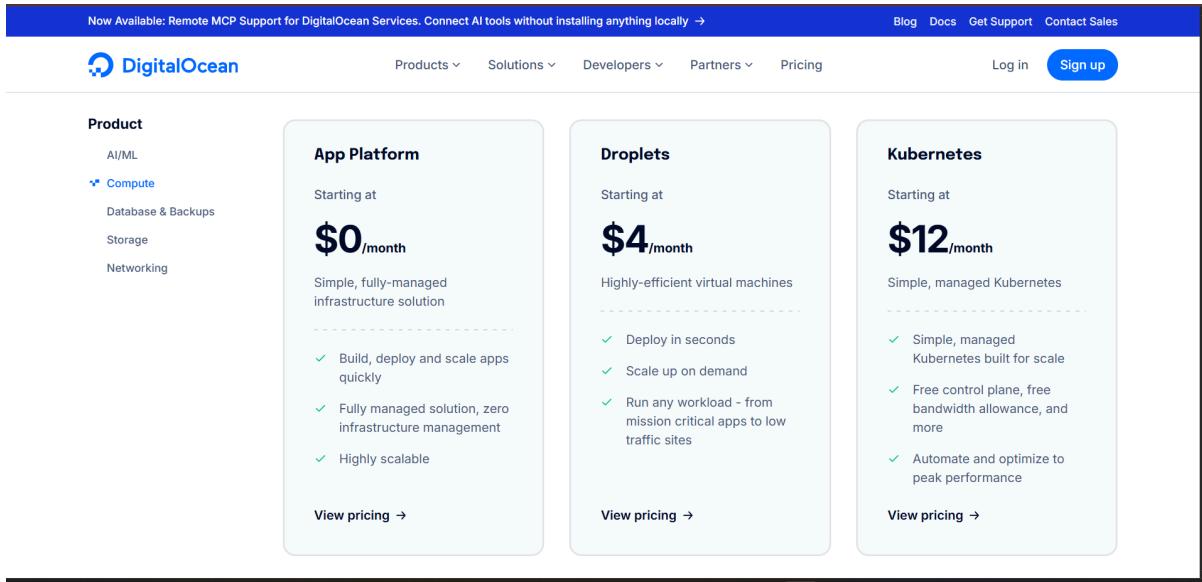


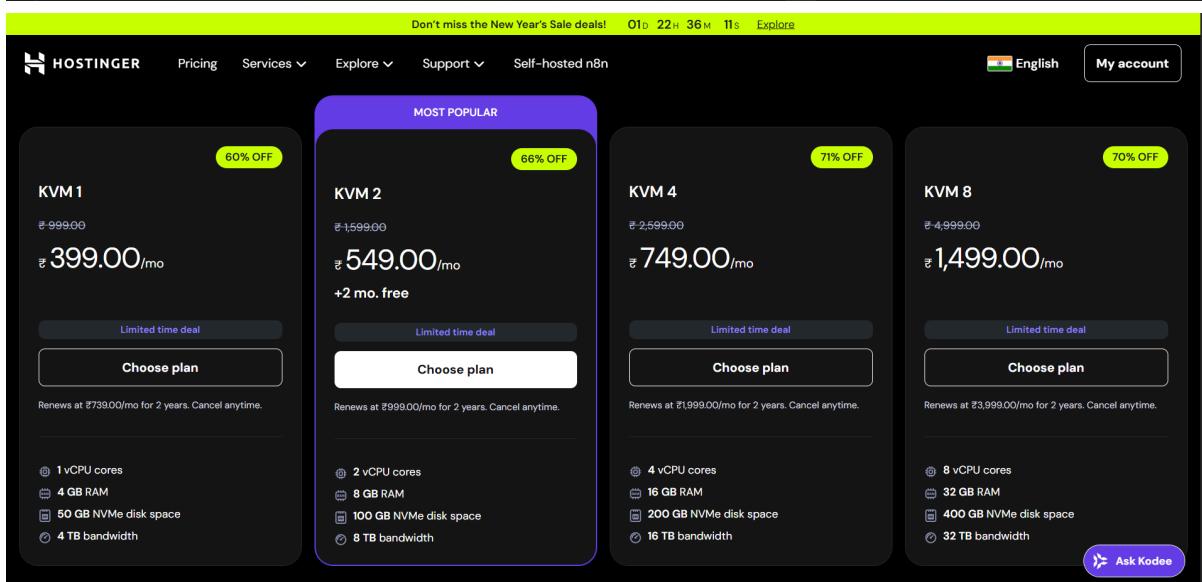
Hosting Plan Comparisons

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



The screenshot shows the DigitalOcean website's hosting plan comparison section. It features three main options: App Platform, Droplets, and Kubernetes. Each option has a starting price, a brief description, a list of benefits, and a 'View pricing' button.

| Product | App Platform | Droplets | Kubernetes |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| AI/ML | Starting at \$0/month Simple, fully-managed infrastructure solution | Starting at \$4/month Highly-efficient virtual machines | Starting at \$12/month Simple, managed Kubernetes |
| Compute | <ul style="list-style-type: none">Build, deploy and scale apps quicklyFully managed solution, zero infrastructure managementHighly scalable | <ul style="list-style-type: none">Deploy in secondsScale up on demandRun any workload - from mission critical apps to low traffic sites | <ul style="list-style-type: none">Simple, managed Kubernetes built for scaleFree control plane, free bandwidth allowance, and moreAutomate and optimize to peak performance |
| Database & Backups | | | |
| Storage | | | |
| Networking | | | |



The screenshot shows the Hostinger website's VPS hosting plan comparison section. It displays four plans: KVM 1, KVM 2, KVM 4, and KVM 8. Each plan includes a discount, monthly price, and a 'Choose plan' button. Below each plan, there is a summary of included resources.

| Plan | Discount | Price | Resources |
|-------|----------|----------------------------|------------------------------------------------------------------|
| KVM 1 | 60% OFF | ₹ 399.00/mo | 1 vCPU cores, 4 GB RAM, 50 GB NVMe disk space, 4 TB bandwidth |
| KVM 2 | 66% OFF | ₹ 549.00/mo +2 mo. free | 2 vCPU cores, 8 GB RAM, 100 GB NVMe disk space, 8 TB bandwidth |
| KVM 4 | 71% OFF | ₹ 749.00/mo | 4 vCPU cores, 16 GB RAM, 200 GB NVMe disk space, 16 TB bandwidth |
| KVM 8 | 70% OFF | ₹ 1,499.00/mo | 8 vCPU cores, 32 GB RAM, 400 GB NVMe disk space, 32 TB bandwidth |

Bluehost:-

Compare all VPS Hosting plans.

| Top Features | NVME 2 | NVME 4 | NVME 8 | NVME 16 |
|-----------------------|--------------------------------------------------|--------------------------------------------------|--------------------------------------------------|--------------------------------------------------|
| CPU Cores | 1 | 2 | 4 | 8 |
| Storage | 50 GB NVMe | 100 GB NVMe | 200 GB NVMe | 450 GB NVMe |
| 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 |
| 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 |
| 24/7 Priority Support | Not Included | Not Included | Not Included | Not Included |

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 | |
| Initech VPS i6 | 4 cores | 6 GB | 100 GB | ₹1799 | |
| Hostinger KVM 2 ★ | 2 cores | 8 GB | 100 GB | ₹549 | |

PaaS:-

What is PaaS? (Platform as a Service)

Simple definition:

PaaS is a hosting platform where the company manages the server, security, scaling, and deployments — you only focus on your code.

You just:

- Push code from GitHub
- Platform builds & runs it
- Handles server stuff automatically

Examples:

- Render
- Railway
- Heroku
- DigitalOcean App Platform
- Fly.io (semi-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

| DIRECT COMPARISON TABLE (UNBIASED) | | | | |
|------------------------------------|--------|---------|-----------------|--------|
| Feature | Render | Railway | DO App Platform | Fly.io |
| Ease of setup | ★★★★★ | ★★★★★ | ★★★ | ★★ |
| Beginner friendly | ★★★★★ | ★★★★★ | ★★★ | ★ |
| Cost predictability | ★★★ | ★★ | ★★★★★ | ★★ |
| Cheap for small apps | ★★ | ★★★★★ | ★★ | ★★★★ |
| Scaling | ★★★★★ | ★★★★ | ★★★★★ | ★★★★★ |
| Managed databases | ★★★★★ | ★★★★★ | ★★★ | ★★ |
| Performance control | ★★ | ★★★ | ★★★ | ★★★★★ |
| Enterprise features | ★★★ | ★★ | ★★★ | ★★ |

| 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.