

Remark 1	3
Remark 2	6

Remark 1

https://Hostinger.com

1. Hostinger VPS Plans and Pricing:

2 Hostinger provides several VPS hosting plans with varying resources and pricing:

- **KVM 1 Plan:**?
 - **Resources:**
 ?
 - 21 vCPU core???
 - 24 GB RAM??
 - 250 GB NVMe disk space???
 - Bandwidth: 24 TB
 - o **Pricing:** 2\$4.99/month (with a 24-month commitment)
 - o Renewal Pricing: 2\$7.99/month???
 - Details: 2Suitable for small to medium-sized applications.
 2cite2turn0search0?
- **KVM 2 Plan:**?
 - **Resources:**?
 - 22 vCPU cores???
 - 28 GB RAM???
 - 2100 GB NVMe disk space???
 - o **Bandwidth:** 28 TB??
 - o **Pricing:** 2\$5.99/month (with a 24-month commitment)
 - o Renewal Pricing: 2\$11.49/month??
 - Details: 2Ideal for medium-sized applications with moderate traffic.2
 2cite2turn0search822
- **KVM 4 Plan:**?
 - **Resources:**?

- 24 vCPU cores???
- 216 GB RAM??
- 200 GB NVMe disk space???
- Bandwidth: 216 TB
- o **Pricing:** 2\$10.49/month (with a 24-month commitment) 22
- o Renewal Pricing: 2\$24.99/month??
- Details: ②Suitable for resource-intensive applications and databases.②
 ②cite②turn0search8②?②

2. Application and Database Handling:

②Each VPS plan can host multiple applications and databases. ② ②For instance, the KVM 4 plan with 4 vCPU cores and 16 GB RAM is well-suited for running multiple Spring Boot applications, each with its own database schema. ② ②The NVMe disk space ensures fast data access, which is beneficial for database performance. ② ②

3. Containerization Support:

②Hostinger offers VPS hosting with Docker support, allowing you to deploy applications in containers. ②②This approach provides isolation, scalability, and ease of management. ②Hostinger provides a VPS template with Docker pre-installed, simplifying the deployment of containerized applications. ②②cite②turnOsearch1②?

4. Cost Estimation:

②For your setup, considering three applications (e.g., Barbershop Hussein, Barbershop Hassan, and Supermarket Fadel) with their respective databases, the **KVM 4 Plan** would be appropriate.②②This plan offers sufficient resources to handle multiple applications and databases efficiently.③②

5. Steps to Set Up:

- **Purchase the KVM 4 Plan:**?
 - o 2Visit Hostinger's website and select the KVM 4 VPS plan. 22
- **Set Up Docker:**?
 - ②Use Hostinger's VPS template with Docker pre-installed.②
 ②cite②turn0search1②②

- **Deploy Applications in Containers:**?
 - o ²Create Docker containers for each Spring Boot application. ²
 - o

 Configure each container to connect to its respective database schema.
- **Configure Nginx as Reverse Proxy:**?
 - ②Set up Nginx to route requests to the appropriate containers based on domain names.

6. Additional Considerations:

- **Scalability:**?
- **Support:**?
 - ②Hostinger offers 24/7 customer support to assist with any technical issues.

By leveraging Hostinger's VPS hosting with Docker support, you can efficiently manage and scale your applications and databases in a containerized environment.

Remark 2

If you are planning to run **150 applications** on a single VPS, there are several considerations to ensure that your setup can handle the load effectively. Here are the key factors and recommendations for running 150 applications:

1. Resource Requirements for 150 Applications

CPU and RAM:

- Multiple Applications will require substantial CPU and RAM resources, especially if they are running Spring Boot applications.
- Estimations: Each Spring Boot application might require around 0.5 to 1 GB of RAM and some CPU resources. This means that for 150 applications, you may need at least 75-150 GB of RAM and multiple CPU cores (8-16 vCPUs).

Disk Space:

- For each application, if there is substantial data stored (e.g., logs, files, etc.),
 you may need 100-200 GB of disk space or more.
- If you are running multiple databases for each application, this will significantly increase your disk space needs.

Recommendation for VPS Plan:

A typical VPS plan like the **KVM 4** (4 vCPU, 16 GB RAM, 200 GB NVMe) will not be sufficient for 150 applications. You will likely need to go for a **high-end VPS** or consider **multiple VPS instances**. Here's what you should consider:

- Multiple VPS Instances: Use multiple VPS plans such as KVM 4 (16 GB RAM) or KVM 6 (with 32 GB RAM) and distribute the applications across these instances.
- Dedicated Server or Cloud VPS: Look into a dedicated server or cloud VPS with
 64 GB RAM, 16+ vCPUs, and 500+ GB of SSD storage for larger-scale applications.
 - Hostinger, for example, offers cloud VPS with more resources. You can also consider AWS, Azure, or Google Cloud for scalable solutions.

2. Database Considerations

• For **150 applications**, it's highly likely that each application will have its own database schema.

- If you're using **MySQL**, the number of databases and the load on them can quickly increase. Ensure that the MySQL server is optimized for handling multiple databases.
- Consider using database clustering or replication for better scalability.

3. Docker and Containers for 150 Apps

- **Docker Containers**: Running each application inside a separate Docker container will allow for isolation, efficient resource management, and easy scaling.
 - Memory Limiting: Docker containers allow you to set resource limits, so you can prevent any one container from consuming all system resources.
- Orchestration: For managing multiple containers efficiently, you can use
 Kubernetes or Docker Swarm for container orchestration. Kubernetes can
 automatically scale the number of containers based on the load, making it an ideal
 choice for large deployments.

4. Reverse Proxy and Load Balancing

- You will need to set up a **reverse proxy** (e.g., **Nginx** or **Traefik**) to route traffic to the correct application based on domain or URL path.
- You may also need a load balancer if your applications receive a lot of traffic to distribute the load across multiple containers or VPS instances.

5. Hostinger VPS Limitations

- While Hostinger's KVM VPS plans can work well for small to medium applications, they are not designed for large-scale deployments with 150 applications unless you opt for multiple VPS instances or a dedicated server.
- For massive scalability with 150 apps, consider using cloud services like AWS
 EC2, Azure, or Google Cloud which provide easy scaling and management tools.

6. Cost Considerations

- The **cost** will increase substantially with the scale of your deployment.
 - VPS or Cloud: A single VPS plan with sufficient resources for 150 apps could cost \$200+ per month, depending on your provider and resources.
 - Multiple VPS Instances: For 150 applications, you may need 4-6 VPS instances, which would cost \$1,000+ per month.

Dedicated Server: A dedicated server with 64+ GB RAM and 16+ CPU cores could cost around \$300-600+ per month depending on the provider.

Conclusion

- For 150 applications, you will need significantly more resources than a typical VPS plan. A cloud solution or dedicated server will likely be more cost-effective and scalable for such a large number of applications.
- Multiple VPS instances could be a good option, where each VPS hosts a subset of the applications. Ensure that you use **Docker containers** for isolation and easy management of resources.
- If you want a more **cost-effective** and **scalable solution**, consider looking into **cloud providers** such as AWS, Google Cloud, or Azure, as they allow you to scale your resources dynamically.

Let me know if you'd like more details on any of the options!