Bare Metal Cloud by phoenixNAP

API-driven dedicated servers powered by 4th Gen Intel® Xeon® Scalable processors

Cloud-Like Agility.
Next-Gen Hardware.
No Hypervisor Overhead.

Bare Metal Cloud is a dedicated server platform provisioned in a fully automated way on a pay-as-you-go model. You can deploy, configure, and scale your IT resources easily using API, CLI, and Infrastructure-as-Code tools. Simplify your IT infrastructure management tasks, optimize your IT budget, and gain on-demand access to next-gen hardware technologies.

Use Cases

> **AI and Deep Learning**

> **Data Analytics**

> **E-Commerce and AdTech**

> **High-Transaction Databases**

> **High-Performance Computing (HPC)**

> **Confidential Computing**

Deployment in Minutes

Deploy dedicated servers with a couple of clicks and easily scale your infrastructure across global locations.

DevOps Integration

Certified Terraform, Ansible, Pulumi, and Chef modules let you manage your infrastructure programmatically.

Flexible Billing

With hourly billing and monthly or yearly reservation options, you can optimize your IT budget and scale easily.

"With Bare Metal Cloud, we were able to provision high-performance physical services in minutes across multiple geographic locations via simple calls to the API. On top of this, everything is open-source and we don't have to worry about vendor lock-in."

Matt Russel,
Chief Cloud Officer, Namecheap

Unrivaled Performance for Data-Intensive Workloads

phoenixNAP Bare Metal Cloud powered by 4th Gen Intel® Xeon® Scalable CPUs helps you extract value from your ever-growing datasets faster. Leverage a high-performance IT infrastructure deployable at scale and gain turnkey access to Intel's next-gen workload acceleration and data security technologies. Streamline infrastructure management and process AI, HPC, analytics, and other data-hungry workloads with unprecedented efficiency.

4th Gen Intel Xeon Scalable Processors

- ✓ **More Cores + Increased Multi-Socket Bandwidth**
  Up to 1.53x gen-on-gen performance gain
- ✓ **Intel Advanced Matrix Extensions (AMX)**
  Accelerate DL inference and training workloads
- ✓ **Intel Data Streaming Accelerator (DSA)**
  Boosts the performance of storage, networking, and data-intensive workloads
- ✓ **Intel Dynamic Load Balancer (DLB)**
  Dynamically distributes network data across CPU cores
- ✓ **Intel QuickAssist Technology (QAT)**
  Accelerates encryption, decryption, and data compression
- ✓ **Intel In-Memory Analytics Accelerator (IAA)**
  Improves analytics performance and accelerates database query throughput
- ✓ **Intel Software Guard Extensions (SGX)**
  Isolates sensitive data in a secure enclave with hardware-based memory protection
- ✓ **Intel Optane™ Persistent Memory 300 Support**
  Brings data closer to the CPU for reduced I/O and accelerated large-memory computing

phoenixNAP's Bare Metal Cloud

- ✓ **Global and edge deployment in minutes**
- ✓ **Dedicated servers equipped with high-performance DDR5 RAM and NVMe storage**
- ✓ **Direct access to hardware without vendor lock-in or hypervisor overhead**
- ✓ **API-driven provisioning and management via IaC tools (Terraform, Ansible, Pulumi, Chef)**
- ✓ **Easy access to terabytes of low-cost network storage or S3-compatible object storage**
- ✓ **Automated deployment of geo-distributed, multi-node Kubernetes clusters in 5 minutes**
- ✓ **Flexible billing and bandwidth models (15 TB Bandwidth FREE (5 TB in Singapore)). Pay-as-you-go options with discounts for reservations.**
- ✓ **50 Gbps network speed. 20 Gbps free DDoS protection. Public and private network options.**

Transparent Code. Transparent Hardware. No Vendor Lock-in.

Bare Metal Cloud is built for organizations that rely on IT automation to enable frequent releases, agile development, and CI/CD pipelines. With direct access to dedicated hardware resources without any virtualization layer, you can embrace the flexibility of the cloud while preserving the raw processing power and unmatched reliability of dedicated physical machines. Test your pilot workloads, create production-ready Kubernetes clusters across locations, or supercharge your hybrid environments without performance penalties or dependency on proprietary technologies.

About phoenixNAP

phoenixNAP is a full-service IaaS and colocation provider delivering programmable, opex-friendly infrastructure solutions from strategic edge locations worldwide. Focused on innovation, cyber security, and compliance-readiness, phoenixNAP delivers scalable and resilient cloud, dedicated servers, colocation, HaaS, and data availability services. As an Intel Next Wave Cloud Service Provider, phoenixNAP actively collaborates with Intel to develop and deliver cutting-edge infrastructure solutions to fit the needs of modern businesses.