

# BARE METAL



# SERVER INSTANCES

Boost your IT performance with AAA hardware



In this fast, ever-changing world, performance, and efficiency are what matters. To businesses, it means better and faster customer support, enhanced service provisioning, and utilization of new business opportunities.

As a single tenant on i3D.net's bare metal servers, you can avoid complex cloud virtualization overheads and maintain maximum computing power.

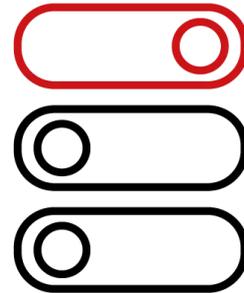
Nowadays, more and more businesses are looking into cloud or even multi-cloud solutions. Although the cloud offers many attractive features, it rarely outperforms bare metal servers.

To maintain the superiority of bare metal servers and provide the flexibility of the cloud to our customers, i3D.net has combined the two for a best of breed solution - Bare Metal Cloud. Bare Metal Cloud is based on the same bare metal server you are used to, except it's available provisioned within minutes and does not require a monthly commitment.

# BENEFITS

## Full control

You are the only bare metal server user, therefore it is up to you what parameters you set. You have full control. To make it hassle-free, i3D.net provides API endpoints enabling you to automate everything from server deployment to monitoring.



## Top class performance

i3D.net works with AAA Dell hardware, optimized for various workloads, which ensures top-notch performance. By allocating all the server's resources to your dynamic workload, you can process more data than with any other solution.

## No virtualization

Utilize the abundance of computing power. i3D.net removes the complex virtualization overhead of traditional cloud builds, which consumes a fair share of your computing power.



## Low costs per performance

Bare metal servers offer a great price to performance ratio. With long-term commitments, you can save up to 30% of the total cost and maintain top-notch performance throughout your bare metal server usage period.

# HARDWARE OVERVIEW

i3D.net provides you with single- and dual-processor machines optimized for general workloads, high-performance computing, and enterprise-class applications. Dell is an industry-leading supplier of high-quality server hardware and we are proud to call them our Technology Partner.

Parameters	Single Processor	Dual Processor
Clock speed, GHz	1.80 - 3.60	3.00 - 3.80
Physical CPU cores	Up to 8	Up to 48
Memory, GB RAM	16 - 64	64 - 256
Storage	HDD and SSD available	HDD and SSD available
Commitment term	Up to 60 months	Up to 60 months

# ADDITIONAL FEATURES

Feature	Description
Service Level Agreements	i3D.net provides you with 3 levels of service: Basic, Advanced, and Premium. Therefore, you can fully rely on our team of experienced technicians to take care of your hardware.
Support system	Our follow-the-sun support system provides an unmatched customer service experience. A highly skilled team of Experts is ready to get in touch with you anytime, anywhere.
Rapid Global Deployment	Our fully automated and configurable deployment system allows for efficient and optimal bare metal server build distribution throughout i3D.net's global network.

# INSTANCE TYPE **INNER WORKINGS**

An instance type represents a range of different hardware configurations, **denoting the minimal possible configuration within that instance type**. And i3D.net, as a company with a server park with thousands of servers deployed globally, has grouped different hardware configurations together to provide our customers with a standardized hardware-agnostic solution.

Grouping was done by looking at several factors (in order of importance):

Factor	Importance
CPU Family	It is important to make a clear distinction between different CPU families due to significantly different performance between CPU families.
Sockets - Single / Dual	It is also important to look at the number of CPU sockets per machine, as it directly impacts the potential processing power of the machine.
Memory - Quantity / Speed	Memory quantity and speed determine the number and velocity of the computer-performed tasks, meaning that it directly ties in with the machine's performance.
Storage - Medium / Quantity	There is a distinction between HDDs (Hard Drive Disk) and SSDs (Solid State Disk) due to differences in performance.

The four factors denoted above determine which instance type a specific hardware configuration should be assigned to. All those factors combined denote an instance type.

## **FREE UPGRADES**

If there are available servers within the same instance type, with slightly better performance than described in the minimal instance type configuration, the customer will receive the superior machine at no additional cost.

The free upgrades are only possible:

1. Within the same CPU family
2. Within the same socket group

If a single socket instance is selected, the free upgrade hardware will also be a single socket machine.

Number	CPU family
1	Sandy Bridge
2	Ivy Bridge
3	Haswell
4	Broadwell
5	Skylake
6	Kaby Lake
7	Coffee Lake
8	Cascade Lake / AMD

# PERFORMANCE INSTANCE TYPES

Keep in mind that the instance types represent physical hardware configurations without any virtualization layers in-between.

A breakdown of a **bm1.std.4** instance type.

<b>bm1</b>	BM is short for Bare Metal. The following number (1 in this case) is the instance type generation linked to a CPU family.
<b>std</b>	Any instance type with a ratio of less than 4 GB of RAM per physical core and/or less than 32 GB of RAM, is considered "std", short for "Standard". Any instance type with a ratio of more than 4 GB of RAM per physical core and more than 32 GB of RAM is considered "hmm" for high-memory configurations.
<b>4</b>	Represents 4 physical cores per instance type.

i3D.net's instance types represent a range of configurations - 7 generations of Intel CPU families, with up to 48 physical cores and clock speeds starting at 1.8 GHz and going up to 3.8 GHz. Pre-defined instance types act as a base configuration. If your selected instance type is not available, you will receive a Bare Metal server within the same CPU family and socket range with **superior performance** at the same cost.

**By default, our standardized global Bare Metal server configurations include a single IPv4 address and 2x1G uplinks, where one of them is active.**

Instance type	Socket s	Physical Cores	Clock Speed, GHz	Memory, GB	Storage
bm5.std.4	1	4	3.6	16	1TB HDD
bm5.hmm.12	2	12	3	256	2TB HDD
bm5.hmm.24	2	24	3	256	2TB HDD
bm6.std.4	1	4	3.8	16	2TB HDD
bm7.std.8	1	8	3.4	16	960 GB SSD
bm8.std.32	2	32	2.5	64	2x960 GB SSD
bm8.std.48	2	48	3	64	2x960 GB SSD

# LEGACY INSTANCE TYPES

Legacy instance types combine various hardware configurations from the older generations. These instance types maintain the performance i3D.net is known for, albeit with limited scalability and availability options.

Instance type	Sockets	Physical Cores	Clock Speed, GHz	Memory, GB	Storage
bm1.std.4	1	4	3.2	8-32	1TB HDD
bm1.std.8	2	8	1.80 - 2.90	32 - 128	1TB HDD
bm2.std.4	1	4	3.5	16 - 32	1TB HDD
bm2.std.8	2	8	2.50 - 3.30	32 - 64	1TB HDD
bm2.std.12	2	12	2.4	32 - 64	1TB HDD
bm3.std.4	1	4	3.10 - 3.50	8 - 32	500 GB HDD
bm3.hmm.10	2	10	3.10 - 3.20	64 - 256	1TB HDD
bm3.std.20	2	20	3.10	64	1TB HDD
bm3.hmm.20	2	20	3.10	256	2TB HDD
bm4.std.24	2	24	3.00	64	1TB HDD
bm4.hmm.24	2	24	3.00	256	1TB HDD

i3D.net enables game studios and enterprises to safeguard their business-critical applications online. We provide high-performance, low-latency networking solutions through a vast, privately-owned global infrastructure.

As game sector veterans, we convert our game hosting innovations into scalable tools for Enterprise and IT. With thousands of servers spread over 6 continents, we can provide you with an unmatched low-latency network and individualized expert support.

We'd love to get you in direct contact with our team to provide you with a fitting solution.

## Contact

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