



# Bigstep Metal Cloud

Truly Flexible Bare Metal Infrastructure Services



# Metal, Your New Competitive Advantage

## Cloud, Meet Metal

**The Bigstep Metal Cloud is a bare metal IaaS service that provides powerful non-virtualized, single-tenant servers that are indistinguishable from virtual machines regarding flexibility and ease of access but provide the full benefit of isolated environments.**

Our cloud is designed for big computing workloads, micro-services, database acceleration, high volume batch processing, high volume stream data analysis, large-scale and real-time data processing, advanced analytics, and more.

Elaborate architectures become manageable with our unique control panel and managed services expertise.

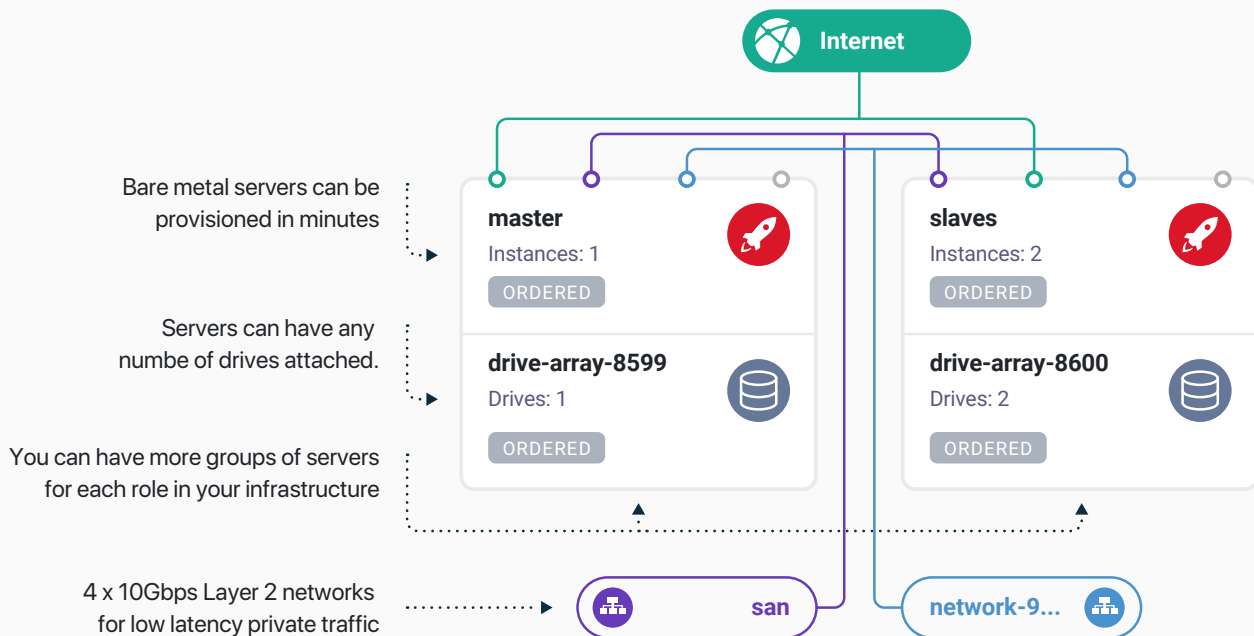


# Powerful and flexible bare metal infrastructure

## Power, Meet Control

We put great emphasis on ease of use and intuitiveness when dealing with complex architectures.

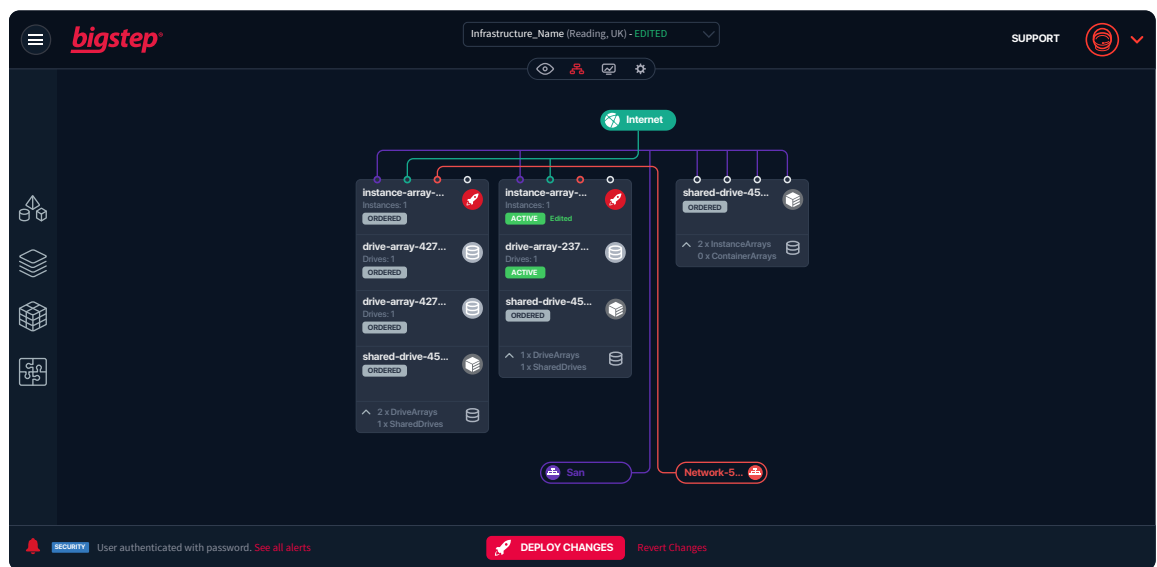
Low-level automation allows servers, storage, and network to be controlled as a single unified system. This allows unique capabilities such as server stop and resume, upgrade and downgrade, L2 network support and many more.




# Software defined and easy to use

**Our software-defined datacenter in the cloud allows unprecedented levels of flexibility and control.**

Design an infrastructure with our diagramming tool or automate provisioning using our SDKs to enable smart, application-aware autoscaling.



Examples / `instance_array_create`

 <https://github.com/bigstepinc>

```
const MetalCloud = require("metal-cloud-sdk");
const JSONRPC = require("jsonrpc-bidirectional");

(async () => {

    const strEndpointURL = "https://fullmetal.bigstep.com/api/";
    const strAPIKey = "00:p134s3c0pyth34p1k3yfr0mth3bs14dm1n1nt3rf4c3"; //
    the API key can be found in the interface myBigstep > Metal Cloud > API

    const api = await new MetalCloud.Clients.API(strEndpointURL);
    api.addPlugin(new JSONRPC.Plugins.Client.SignatureAdd(strAPIKey));

    // Create an InstanceArray object
    let objInstanceArray = new MetalCloud.Objects.InstanceArray();

    objInstanceArray = await api.instance_array_create(
        "my-infrastructure",
        objInstanceArray
    );

})();
```

# Key Metal Cloud Features



## Infrastructure Level Management

Manage whole infrastructures across multiple datacenters, not individual servers.



## Flexible Bare Metal Servers

Among bare-metal clouds, Bigstep is the most flexible: pay per use, instant upgrades & downgrades, stop & resume.



## Flexible L2 VPC

Bigstep metal cloud is the only one that offers flexible, low latency L2 network. Use broadcast traffic without hindering the ability to build complex network topologies.



## Flexible Block Storage

SSD based, block devices can be removed, re-sized, re-attached to instances at any time from the control panel.



## Integrated Firewall management

Firewall on all machines in a cluster is managed from the Bigstep control panel. This saves time and accelerates deployments.



## Integrated Container technologies

Our Container Platform makes it easy to build a resilient and scalable web or microservices infrastructure.



## Integrated database technologies

Clusters of Elasticsearch, Couchbase, Cassandra, MySQL, and others are automated, scalable and offered as a service.



## Integrated big data technologies

Clusters of Cloudera, MapR, Hortonworks, Splunk are offered to make your life easier while building complex machine learning projects.

# Infrastructure Services

Bigstep's Metal Cloud provides everything you need to build resilient and high-performance systems.



# Performance and Resilience with Containers on Bare Metal

## Container Platform

**The container platform is built to power scalable web backends and high-performance processing infrastructures. It provides out of the box load balancing, persistent volumes automatic workload supervision.**

Our unique bare metal based implementation, with no overlay network, provides the lowest latency in its class enabling faster micro-services, data processing, and real-time infrastructures.

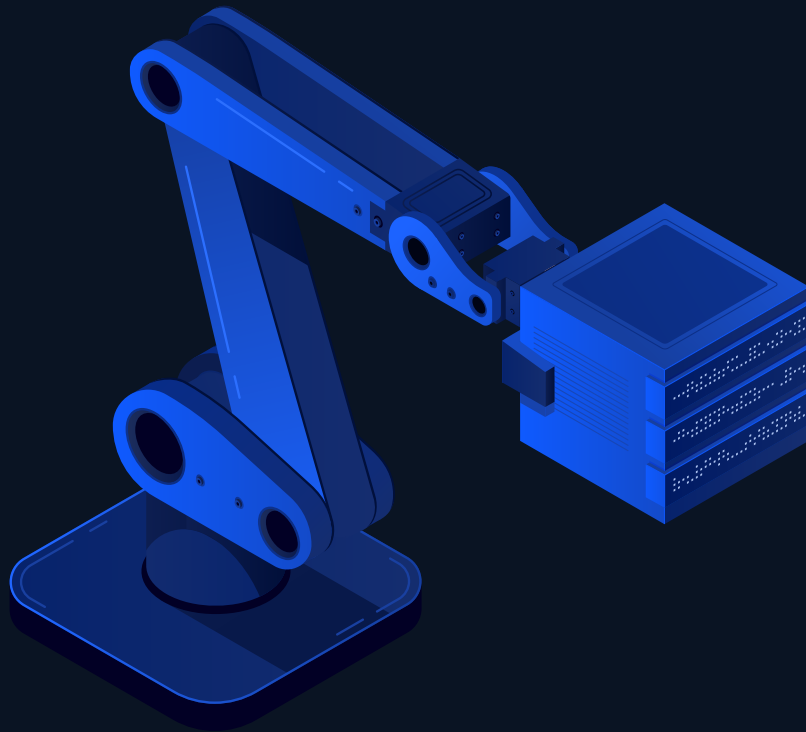


# Bigstep Extend: Automate Your On-Premises Datacenter

Some things need to stay put. Bigstep Extend, our bare-metal hyper-converged infrastructure automation software combines your on-premises servers, storage, and networking in a single, unified system.

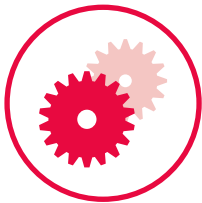
Hybrid setups are simpler with Bigstep:

- ✓ Fast deployment: The entire process is automated, including server registration, switch and cable configuration.
- ✓ Low overhead: Unique, lightweight web socket microservices based control mechanism. Automatically connects your hyper-converged deployment to the cloud. No VPN connection is required, and no firewall port needs to be opened.
- ✓ Complete data center automation: Automate servers, switches, storage and the bare metal cloud itself.





# Integrated Technologies: One-Click Applications



**Why reinvent the wheel each time? Use our integrated technologies to save time with the automated install, configuration, optimization, and scaling of multi-node clusters of open-source and proprietary technologies.**

We support both bare metal and Docker-based automated setups for Elasticsearch, Cassandra, Couchbase, MySQL, Postgresql, Kubernetes, Mesos, Cloudera, Hortonworks, MapR, and others.

## Hadoop

cloudera

Hortonworks

MAPR

## Analytics

Datameer

## Search

elastic

## RDBMS

EXASOL

## NoSQL

Couchbase

DATASTAX

## Log Analysis

splunk

## Visualisation

Datameer

## Containers

docker

MESOS

## Containers

Apache  
Zookeeper

Kafka

Spark

Spark SQL

OOMDATA

PostgreSQL

# GDPR and Certifications



**GDPR-compliance is mandatory in the European Union for all companies and especially important for those companies that operate with sensitive information.**

Bigstep is heavily involved in GDPR both in terms of consultancy and provides GDPR-ready solutions. Our certifications are: ISO 27001:2013, ISO 20000-1:2011, ISO-9001:2015, ISO/IEC 27017:2015, and ISO/IEC 27018:2014. We are also G-Cloud certified which allows us to provide services to UK governmental institutions.



HM Government  
**G-Cloud 10**  
Supplier

**G-Cloud 10**  
Supplier



**ISO/IEC 27001**  
Information Security Management  
System (ISMS)



**ISO/IEC 20000**  
Information technology -  
Service management



**ISO/IEC 27017**  
Security techniques  
for cloud services



**ISO/IEC 27018**  
Security techniques in public clouds  
acting as PII processors



**ISO/IEC 9001**  
Quality management

# Trusted by Leading Enterprises

We've had the pleasure of working with innovators across every industry.

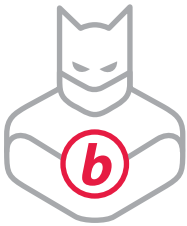


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# Talk to an Expert



**It's time to match our knowledge with your potential.  
Need some guidance? Bigstep experts can help.**

They're the ultimate authority on product and they're always available to assist you.



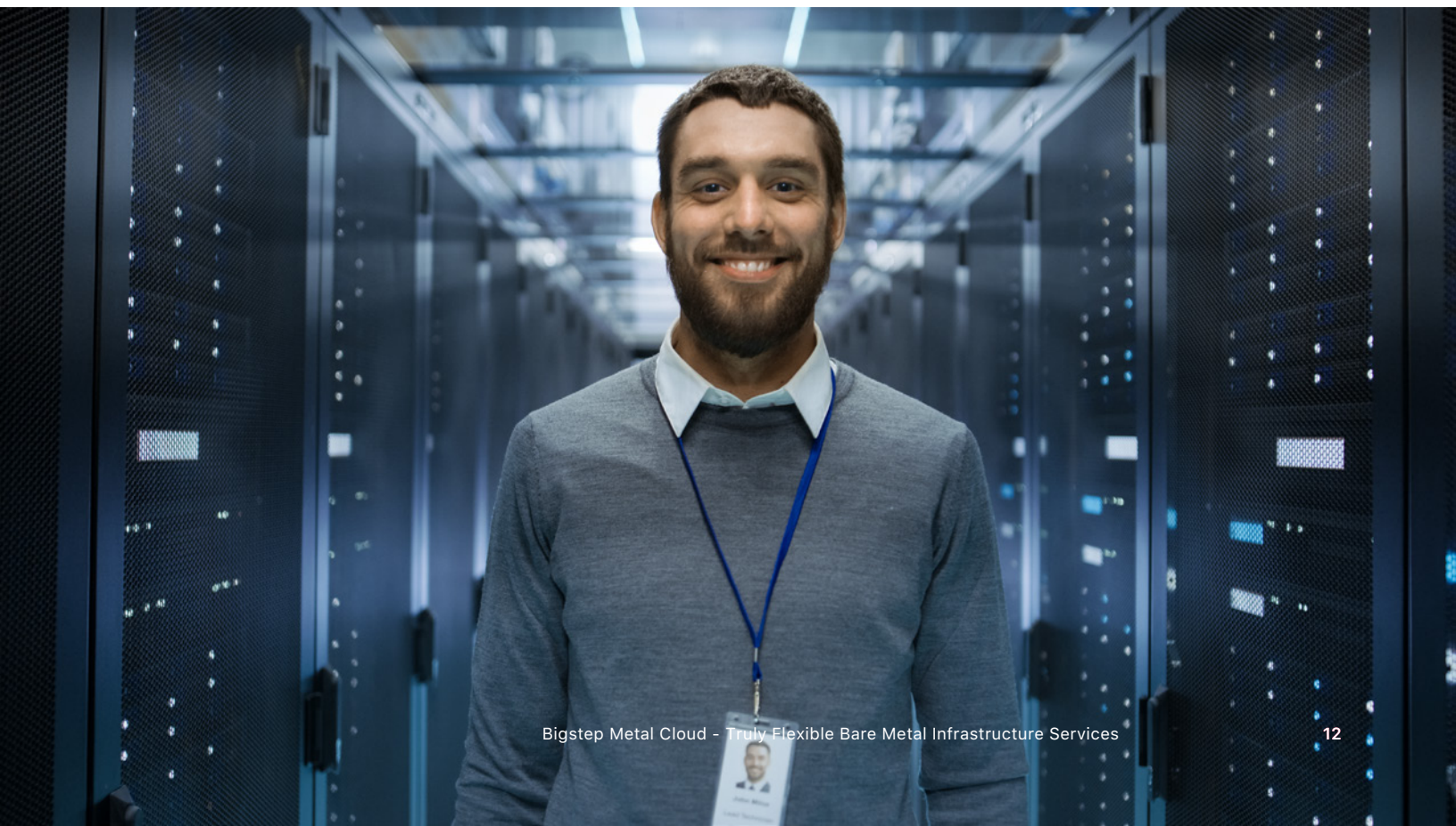
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Bigstep helped our small team make a giant leap forward, seeing the big picture to make bigger business decisions.

**Harvey Sandhu**

Head of Data & DPO, Golfbreaks