



## WHY ORACLE CLOUD INFRASTRUCTURE?

Oracle Cloud Infrastructure (OCI) has a number of advantages over Amazon Web Services (AWS):

- **NETWORKING**

Oracle's charges for outbound network bandwidth are 74% less expensive than AWS

- **COMPUTE**

Oracle delivers more than 2x better price/performance over AWS for general purpose and memory-optimised instances

- **HPC WORKLOADS**

AWS provides similar performance to Oracle, but is 44% more expensive and provides no local SSDs, half the RAM, no RDMA networking, and no performance SLA

- **BLOCK STORAGE**

Oracle offers as much as 20x the IOPS performance of AWS for less than half the cost

## Oracle Cloud Infrastructure VS Amazon Web Services

### COMPARING THE TWO CLOUD PROVIDERS

*So you're choosing a Cloud Provider, but wondering which one?*

#### WHAT IS OCI AND AWS?

Oracle Cloud Infrastructure (OCI) and Amazon Web Services (AWS) are Cloud computing platforms that allow for IT resources to be delivered over the Internet with a Pay-As-You-Go pricing model. The various technology services, such as computing servers, file storage, networking and Databases, are consumed as required resulting in no need to buy, own, rent, or maintain on-premise data centres and servers.

AWS currently have a larger Cloud Provider market share, but now is the time you should give OCI some serious consideration! We take a look at why the OCI next-generation cloud infrastructure has the capability to deliver high performance computing power to run native Cloud applications as well as an enterprise company's IT workloads.

#### HOW CAN NAMOS HELP?

You need a Strategic Cloud Provider who can help ensure your mission-critical applications are always available, fast, secure and that your business is operating at optimal performance.

## NETWORKING

A core building block of Oracle Cloud Infrastructure, the networking infrastructure is fast, inexpensive, and predictable.

*Private connectivity: Simple fixed monthly price includes unlimited data transfer*

% Utilisation of 10Gbps connection	TB/Month transferred	OCI FastConnect price/month	AWS DirectConnect price/month (US East)	Oracle Cloud Infrastructure Savings
3% utilisation	97.2	\$918	\$3,564	<b>74.24%</b>
10% utilisation	324	\$918	\$8,100	<b>88.67%</b>
30% utilisation	972	\$918	\$21,060	<b>95.64%</b>
40% utilisation	1,296	\$918	\$27,540	<b>96.67%</b>
50% utilisation	1,620	\$918	\$34,020	<b>97.30%</b>

*Public connectivity: Over 80% less expensive in North America and Europe*

Bandwidth Transferred Out per month (TB)	Oracle Cloud Infrastructure price/month	AWS price/month (US East)	Oracle Cloud Infrastructure Savings
1	Free	\$92	<b>100%</b>
10	Free	\$922	<b>100%</b>
50	\$348	\$4,403	<b>92.09%</b>
100	\$783	\$7,987	<b>90.19%</b>
500	\$4,265	\$29,491	<b>85.54%</b>
1000	\$8,617	\$55,091	<b>84.36%</b>

## COMPUTE

Oracle Cloud Infrastructure's compute platform is optimised for performance, cost and flexibility.

*General purpose compute: More than 2X better price/performance for general purpose and memory-optimised instances*

	Oracle Cloud Infrastructure E3.2	AWS m5.xlarge	AWS r5.xlarge
Cores	2	2	2
List Price	\$0.0980	\$0.1920 (US East)	\$0.2520 (US East)
Memory	32GB	16GB	32GB
<b>Benchmarks</b>			
SPECrate 2017 Integer	15.90	11.91	13.60
SPECrate 2017 Floating Point	22.80	15.8850	16.60
Stream (MB/s)	41,941	12,475	30,827
Price/Performance (SPECint/\$)	162	62	54
<b>Summary</b>	<b>Highest performance with the lowest cost</b>	<b>96% more expensive for 25% less performance</b>	<b>157% more expensive for 14% less performance</b>

## GLOBAL PRICING

Comparing standard compute instance pricing in different geographies on AWS and on Oracle Cloud Infrastructure, and you'll find AWS has significantly higher prices outside of the US. Oracle Cloud Infrastructure offers consistent global pricing.

Source: <https://www.oracle.com/cloud/economics/>

## BLOCK STORAGE

The Oracle Cloud Infrastructure storage platform is an ideal complement to the compute and networking services at a compelling price. Oracle Cloud Infrastructure offers a single block storage volume type for simplicity, with an industry-first ability to tune transactional (I/O per second) and throughput performance in seconds, without down time.

*Simple block storage for any workload*

	Oracle Cloud Infrastructure Block Volumes (Balanced)	AWS EBS General Purpose SSD (gp2)	Oracle Cloud Infrastructure Block Volumes (High Perf)	AWS EBS Provisioned IOPS SSD (io1)
Maximum IOPS / GB	60	3	75	50
Maximum IOPS / Volume	25,000	16,000	35,000	64,000
Max Throughput / Volume	480 MB/s	250 MB/s	480 MB/s	1,000 MB/s
Maximum IOPS / Host	700,000	80,000	700,000	80,000
Max Throughput / Host	9,600 MB/s	2,375 MB/s	9,600 MB/s	2,375 MB/s

## HIGH PERFORMANCE COMPUTING

The Oracle Cloud Infrastructure HPC instances have been designed for the most computationally intensive workloads requiring the fastest single threaded performance and the lowest latency network.

	Oracle Cloud Infrastructure BM.HPC2.36	AWS c5n.metal
List Price	\$2.70	\$3.888 (US East)
Storage	Local NVME SSDs	No Local NVMe SSD
Memory	384GB	192GB
Networking	RDMA	No RDMA
Performance SLA	Yes	No
<b>Benchmarks</b>		
SPECrate 2017 Integer	238	237
SPECrate 2017 Floating Point	206	206
Stream (MB/s)	146,984	140,833
<b>Summary</b>	<b>Lower costs for better performance with RDMA and performance guarantee</b>	<b>44% more expensive, no local SSD storage, half the RAM, with no RDMA and no performance SLA</b>

For more information, please visit [www.namossolutions.com](http://www.namossolutions.com) or email [info@namossolutions.com](mailto:info@namossolutions.com).

Check out the workload estimator and see the massive savings on OCI vs AWS here:

<https://www.oracle.com/webfolder/workload-estimator/index.html>



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*"Big Enough to Deliver, Small Enough to Care"*

The Namos personal service that makes us stand out from the rest.