

Compute

Questions	AWS	Azure		Google Cloud Platform	IBM Cloud	OTC	OVH
Small VM: OS Ubuntu 16.04; 2vCPUs; 8GB RAM; min. 50GB HDD; Location: Germany, if unavailable: Western Europe, if unavailable: Europe	yes	yes		yes	yes	yes	yes (2vCPU; 7GB RAM)
Medium VM: OS Ubuntu 16.04; 4vCPUs; 16GB RAM; min. 50GB HDD; Location: Germany, if unavailable: Western Europe, if unavailable: Europe	yes	yes		yes	yes	yes	yes (4vCPU; 15GB RAM)
Large VM: OS Ubuntu 16.04; 8vCPUs; 32GB RAM; min. 50GB HDD; Location: Germany, if unavailable: Western Europe, if unavailable: Europe	yes	yes		yes	yes	yes	yes (8vCPU; 30GB RAM)
GPU support for the VM?	yes	yes		yes	yes	yes	yes
AutoScaling for VM?	yes	yes		yes	yes	yes	yes
Availability Zones (i.e Availability set) possible	yes	yes		yes	yes	yes	yes
Startup-time (till time of availability) - Small - Medium - Large	13 sec 13 sec 13 sec	108 sec 108 sec 108 sec		14 sec 14 sec 16 sec	116 sec 126 sec 130 sec	75 sec 75 sec 75 sec	108 sec 118 sec 129 sec
Count of steps until VM is created	7 steps	4 Steps		2 Steps	4 Steps	3 Steps	3 Steps
RAM throughput (sysbench, Block size 1k) small VM - Read - Write medium VM - Read - Write large VM - Read - Write	5194.32 MiB/sec 4178.64 MiB/sec 4681.66 MiB/sec 3649.61 MiB/sec 5219.20 MiB/sec 4046.52 MiB/sec	4252.97 MB/sec 2665.32 MB/sec 4683.13 MB/sec 2981.51 MB/sec 3952.22 MB/sec 2554.28 MB/sec		4987.72 MiB/sec 3955.00 MiB/sec 5018.00 MiB/sec 3970.55 MiB/sec 5024.64 MiB/sec 3971.05 MiB/sec	342.92 MiB/sec 323.89 MiB/sec 341.38 MiB/sec 326.38 MiB/sec 467.22 MiB/sec 325.76 MiB/sec	3798.47 MB/sec 2720.81 MB/sec 3845.11 MB/sec 2759.13 MB/sec 3781.45 MB/sec 2708.57 MB/sec	3689.42 MiB/sec 2571.78 MiB/sec 4388.93 MiB/sec 3209.86 MiB/sec 3416.70 MiB/sec 2443.21 MiB/sec
CPU speed - Small Single Core - Small Multi Core - Medium Single Core - Medium Multi Core - Large Single Core - Large Multi Core	3487 4124 2573 6697 3261 12702	3336 3928 3610 7633 3203 12889		3172 3730 3263 7230 3239 13291	1581 2988 1851 3090 2263 3644	3373 6276 3302 11198 3285 19660	2974 5288 3717 11393 2984 17959
VM accessible via Console	yes	yes		yes	yes	yes	yes
Total cost of VM per month (732hrs) - Small - Medium - Large	\$ 70.28 / t3.large \$ 140.55 / t3.xlarge \$ 281.09 / t3.2xlarge	\$ 83.95 / D2 v3 \$ 167.90 / D4 v3 \$ 335.80 / D8 v3		\$ 62.55 / n1-standard-2 \$ 125.09 / n1-standard-4 \$ 250.19 / n1-standard-8	\$ 70.00 / bc1-2x8 \$ 140.00 / bc1-4x16 \$ 281.00 / bc1-8x32	€ 72.45 / \$ 78.26 / s2.large.4 € 145.24 / \$ 156.88 / s2.xlarge.4 € 290.30 / \$ 313.57 / s2.2xlarge.4	\$ 26.40 / EG-7 (2c/7GB) \$ 50.40 / EG-15 (4c/15 GB) \$ 102.00 / EG-30 (8c/30GB)
Supported disk formats / images	- OVA - VMDK - RAW - VHD/VHDX	- VHD - VMDK - VHDX - QCOW2 - RAW		- VMDK - VDH - RAW	- VMDK - AKI - ARI - AMI - QCOW2 - RAW	- VMDK - QCOW2 - RAW - VHD - VHDX - ZVHD2	- QCOW2 - RAW - VMDK - ISO - AMI/AKI/ARI - VDI - VHD
Are there any limitations per VM?	Amount CPUs: 128 RAM size: 3904 GB	Amount CPUs: 128 RAM size: 3800 GB		Amount CPUs: 416 RAM size: 11776 GB	Amount CPUs: 192 RAM size: 8192 GB	Amount CPUs: 208 RAM size: 2932 GB	Amount CPUs: 32 RAM size: 240 GB
Can bare-metal servers be deployed via the cloud?	yes	no		yes	yes	yes	yes
Which hypervisor is used?	- KVM - Xen - Nitro	- Hyper-V		- KVM	- PowerVM - VMware ESX Server - Xen - KVM - z/VM	- KVM	- KVM