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	 11 sec 11 sec 11 sec	 108 sec 108 sec 108 sec		 10sec 10 sec 10 sec	 154 sec 154 sec 154 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	 4942.83 MiB/sec 4839.00 MiB/sec 4839.00 MiB/sec 3930.42 MiB/sec 4880.69 MiB/sec 4053.76 MiB/sec	 4726.82 MB/sec 3699.93 MB/sec 4909.40 MB/sec 3744.43 MB/sec 5084.76 MB/sec 4070.67 MB/sec		 4726.91 MiB/sec 3711.64 MiB/sec 4720.16 MiB/sec 3704.99 MiB/sec 4733.51 MiB/sec 3691.06 MiB/sec	 819.31 MiB/sec 783.61 MiB/sec 920.76 MiB/sec 898.35 MiB/sec 815.26 MiB/sec 789.30 MiB/sec	 4317.28 MB/sec 3563.36 MB/sec 3805.58 MB/sec 2734.17 MB/sec 3807.43 MB/sec 2661.60 MB/sec	 4089.93 MiB/sec 3183.25 MiB/sec 4651.03 MiB/sec 3821.34 MiB/sec 4111.92 MiB/sec 3282.45 MiB/sec
CPU speed - Small Single Core - Small Multi Core - Medium Single Core - Medium Multi Core - Large Single Core - Large Multi Core	 3042 4160 2761 6817 3204 13643	 3242 3749 3635 7917 3375 7175		 3228 3798 3185 7001 3208 12979	 3396 6664 3971 7684 3366 6490	 2988 5557 3305 11123 3340 20777	 2911 5291 3013 10278 3024 17434
VM accessible via Console	no	no		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