

Network

Questions	AWS	Azure		Google Cloud Platform	IBM Cloud	OTC	OVH
Is network monitoring available?	yes	yes		yes	yes	yes	no
Is a Content Delivery Network (CDN) available?	yes	yes		yes	yes	yes	yes
Sample Measurements 1) Same AZ 2) Different AZ 3) Different Region	<p>Iperf Result:</p> <p>1) TCP: Bandwidth Sender: 956 Mbit/sec Receiver: 956 Mbit/sec UDP: Bandwidth: 613 Mbit/sec</p> <p>2) TCP: Bandwidth Sender: 922 Mbit/sec Receiver: 921 Mbit/sec UDP: Bandwidth: 2.06 Gbit/sec</p> <p>3) TCP: Bandwidth Sender: 186 Mbit/sec Receiver: 184 Mbit/sec UDP: Bandwidth: 381 Mbit/sec</p>	<p>Iperf Result:</p> <p>1) TCP: Bandwidth Sender: 1.35 Gbit/sec Receiver: 1.37 Gbit/sec UDP: Bandwidth: 935 Mbit/sec</p> <p>2) TCP: Bandwidth Sender: 910 Mbit/sec Receiver: 908 Mbit/sec UDP: Bandwidth: 945 Mbit/sec</p> <p>3) TCP: Bandwidth Sender: 892 Mbit/sec Receiver: 892 Mbit/sec UDP: Bandwidth: 933 Mbit/sec</p>		<p>Iperf Result:</p> <p>1) TCP: Bandwidth Sender: 1.81 Gbit/sec Receiver: 1.80 Gbit/sec UDP: Bandwidth: 3.79 Gbit/sec</p> <p>2) TCP: Bandwidth Sender: 3.36 Gbit/sec Receiver: 3.36 Gbit/sec UDP: Bandwidth: 3.79 Gbit/sec</p> <p>3) TCP: Bandwidth Sender: 649 Mbit/sec Receiver: 649 Mbit/sec UDP: Bandwidth: 3.80 Gbit/sec</p>	<p>Iperf Result:</p> <p>1) TCP: Bandwidth Sender: 102 Mbit/sec Receiver: 100 Mbit/sec UDP: Bandwidth: 98.9 Mbit/sec</p> <p>2) TCP: Bandwidth Sender: 102 Mbit/sec Receiver: 100 Mbit/sec UDP: Bandwidth: 98.9 Mbit/sec</p> <p>3) TCP: Bandwidth Sender: 102 Mbit/sec Receiver: 99.8 Mbit/sec UDP: Bandwidth: 99 Mbit/sec</p>	<p>Iperf Result:</p> <p>1) TCP: Bandwidth Sender: 105 Mbit/sec Receiver: 103 Mbit/sec UDP: Bandwidth: 3.31 Gbit/sec</p> <p>2) TCP: Bandwidth Sender: 4.80 Gbit/sec Receiver: 4.80 Gbit/sec UDP: Bandwidth: 3.08 Gbit/sec</p> <p>3) N/A</p>	<p>Iperf Result:</p> <p>1) TCP: Bandwidth Sender: 245 Mbit/sec Receiver: 244 Mbit/sec UDP: Bandwidth: 5.37 Mbit/sec</p> <p>2) N/A</p> <p>3) TCP: Bandwidth Sender: 244 Mbit/sec Receiver: 243 Mbit/sec UDP: Bandwidth: 5.01 Gbit/sec</p>
Public IPs – Public IPs for VMs? – Available kinds of public IPs for VMs – Public IPs for Load Balancers? – Available kinds of public IPs for Load Balancers	yes floating / static yes static	yes floating / static yes static		yes floating / static yes static	yes floating/static yes static	yes static yes static	yes static yes static
Is a dedicated network connection from datacenter to public cloud possible?	yes (AWS Direct Connect)	yes (Azure Express Route)		yes (Google Cloud Interconnect)	yes	yes (Direct Connect - MPLS)	yes
Network Security features (Network Traffic analysis, Network Security Groups)	– AWS Web Application Firewall – Network security groups – Network Traffic analysis	– Azure Firewall – Azure Front Door – Azure Network Watcher – Azure Security Center – Azure DDoS protection – Network access control – Network layer control – Network security rules (NSGs)		– Firewall – Network security groups – Network Traffic analysis	– Network Security Groups – Firewalls (Multi VLAN, Single VLAN and Web App) – DDOS mitigation	– Network Security Groups – Firewalls (Multi VLAN, Single VLAN and Web App)	– Network Firewall – Failover IP – vRack (private network) – OVHCloud Connect – Bandwidth – Load Balancers – Anti-DDoS protection
VPN as a Service	yes	yes		yes	yes	yes	yes
Traffic costs per GB	€ 0.13 / \$ 0.15	€ 0.009 / \$ 0.01		€ 0.073 / \$ 0.082	€ 0.078 / \$ 0.087	€ 0.06 / \$ 0.067	