Cloud Services Pricing

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100 Percent IT G-Cloud 10 Public Cloud Pricing

Introduction

The 100 Percent IT Cloud Compute Service for Government can be provided by the customer's choice of one of two different platforms. These are either:

- VMware - the leading proprietary virtualisation solution
- OpenStack for compute with Ceph storage – a combination of the leading Open Source IaaS solution and the leading Open Source software defined storage solution

How it is billed

Customers can access the 100 Percent IT cloud on a pay for usage model on the rates set out in in the tables below. Discounts are available for monthly commitments. Usage over the committed monthly rate will be billed at the standard rates in arrears. Billing for OpenStack instances is based on hourly consumption for each hour or part hour that the instance or storage is deployed. This includes instances that are suspended. Customers are invoiced in arrears for usage during the previous month with 14-day payment terms.

Additional discounts are available by signing contacts of a fixed term of 12 months and meeting minimum spend commitments per month as detailed in Table 7 below.

For most accounts, there is no standing monthly charge. Where the customer requires a large estate of servers to be available on standby (for example for Disaster Recovery purposes), a fixed monthly charge of 20% of the full service fee is chargeable as a capacity reservation fee.

VMWare Services

VMware servers are completely customisable. There is a base server price then you choose the amount of CPU, RAM and Disk space that you require independently. Billing for VMware servers is based on fixed monthly pricing and is invoiced in arrears for usage during the previous month with 14-day payment terms.

TABLE 1: VMware Resource prices.

Resource	Price per month
Base server cost	£10.15
vCPU	£10.15
RAM (per GB)	£5.50
Disk (per GB)	£0.25

100 Percent IT G-Cloud 10 Public Cloud Pricing

OpenStack Public Cloud Services

OpenStack servers come in pre-defined packages. Persistent storage is available by creating persistent disks in our Ceph based Cloud Storage which can be mapped to any of your Cloud Servers. Refer to Table 3 for storage pricing.

This scalable and persistent block storage allows you to:

- Create triple redundant persistent block storage for instances
- Boot from this redundant block storage, allowing you to boot your instance from a remotely attached volume - the optimised block storage creates instance disks in seconds enabling rapid deployment
- Create multiple instance snapshots for data protection

TABLE 2: OpenStack Compute Server monthly / hourly prices (or part thereof).

Instance Type	vCPU	Memory (GB)	Price per month	Price per hour
V-Nano	1 (half speed)	0.5	£4.28	£0.0059
V-Micro	1	1	£8.56	£0.0117
V-Small	1	2	£13.00	£0.0178
V-Medium	2	2	£22.00	£0.0301
V-Standard	2	4	£29.00	£0.0397
V-Large	4	8	£58.00	£0.0795
V-X-Large	8	16	£116.00	£0.1589
V-Enterprise	16	32	£232.00	£0.3178

Cloud Storage

100 Percent IT Cloud storage can be accessed as either block storage attached to an instance deployed in the OpenStack cloud as a disk or as object storage space accessible both from instances and from external systems across the Internet.

Data in the 100 Percent IT standard performance cloud storage system is stored with triple redundancy in a Ceph based system. Archive storage utilises an N+2 erasure-coded storage array to ensure that no data is lost in the event of a hardware failure.

In our Optimised storage options, we also include tiered SSD-optimised data storage for performance intensive applications.

TABLE 3: Storage prices for Ceph.

	Per GB per month
Archive Block / Object Storage	£0.011
Standard Performance Block / Object Storage	£0.035
Optimised Performance Block / Object Storage	£0.12

Trusted Cloud

100 Percent IT's is also able to offer 'Trusted Cloud' for Government. This provides secure virtual servers and storage utilising 100 Percent IT's patent pending 'Trusted Cloud' technology to detect intrusions into the platform and take appropriate action.

'Trusted Cloud' servers are available in the same pre-defined packages as the OpenStack servers listed in Table 2. Please refer to our 'Trusted Cloud' listing on GCloud10 for further information and pricing.

100 Percent IT G-Cloud 10 Public Cloud Pricing

Licencing

Instance pricing excludes licencing for operating systems or other software. Customers are responsible for ensuring that all software running on the 100 Percent IT cloud is correctly licenced. Customers are also responsible for the installation and patching of all software including operating systems that are running on their instances.

The following licence prices can be applied to both the VMware and OpenStack cloud products.

Microsoft licences are available from 100 Percent IT on an hourly basis at the following rates. Sophos licences are available on a monthly basis for the following rates:

TABLE 4: Microsoft SPLA prices (per hour or part thereof):

Instance Type	MS Windows Server G-SPLA	MS Windows Server Academic	MS SQL Server Web G-SPLA	MS SQL Server Web Academic	MS SQL Server Standard G-SPLA	MS SQL Server Standard Academic
Small	£0.0347	£0.0056	£0.0399	£0.0081	£0.6383	£0.1285
Medium	£0.0694	£0.0111	£0.0399	£0.0081	£0.6383	£0.1285
Standard	£0.0694	£0.0111	£0.0399	£0.0081	£0.6383	£0.1285
Large	£0.1389	£0.0222	£0.0399	£0.0081	£0.6383	£0.1285
X-Large	£0.2778	£0.0444	£0.0798	£0.0161	£1.2766	£0.2570
Enterprise	£0.5556	£0.0889	£0.1596	£0.0322	£2.5531	£0.5140

TABLE 5: Sophos Antivirus prices (per month or part thereof):

Instance Type	Sophos Antivirus Server Endpoint Security
All	£15.00

Alternatively customers can deploy their own Microsoft licences through Microsoft's Licence Mobility programme. 100 Percent IT is an Authorised Mobility Partner.

Data Transfer

Where data needs to be transferred physically to be uploaded in to the 100 Percent IT cloud, we can accommodate a variety of different media. Technical support is charged on a time basis according to the SFIA rate card.

Inbound data transferred to instances from the public Internet is free of charge. Outbound data transferred from instances is charged as per Table 6b below. Volume of data is aggregated per account. The rates payable decreases with volume.

TABLE 6a: Data transfer in:

Data Transfer in from the Internet	£0.000 per GB

TABLE 6b: Data transfer out:

Data Transfer out to the Internet	Price per GB
First 10TB/Month	£0.060 per GB
Next 10TB - 50TB per month	£0.057 per GB
Next 50TB – 150TB per month	£0.049 per GB
Above 150TB per month	£0.035 per GB

100 Percent IT G-Cloud 10 Public Cloud Pricing

Public IP addresses

A single public IPv4 address is provided free of charge in the service for each project. An individual customer can have multiple projects which are discrete and each will be allocated a single public IP address.

If customers require additional public IP addresses these can be provided at a rate of £1.75 per public IP address per month.

Dedicated Co-location

Customers may need to physically locate devices within the 100 Percent IT datacentre environment to integrate with their cloud services. These might include tape libraries, network termination devices, dedicated servers etc. 100 Percent IT can provide rack space adjacent to the cloud services from where cross connections can be provided.

Co-location space is charged at £49 per rack unit per month including 45 watts of power. Additional, pre-committed power is charged at £0.23 per watt per month.

Discounts

For customers who have substantial stable ongoing usage needs for our Cloud services we provide the following discounts linked to contractual commitment for minimum period of 12 months. At the end of each 12 months this must be renewed for a successive 12-month period to retain the discount. Commitment upgrades within term of initial commitment would extend the commitment for 12 months from the upgrade. Usage over the committed level will be charged at the standard rates monthly in arrears.

A further discount of 10% is available for educational customers.

TABLE 7: Commitment Discount

Commitment	Discount
£0 (pay as you go usage)	0.0%
£10k per month for 12 months	6.0%
£25k per month for 12 months	11.0%
£50k per month for 12 months	19.0%
£100k per month for 12 months	24.0%
Education Discount	10.0%

Trial Service

For many customers, despite the low cost of Cloud services, it often can make sense to do an evaluation prior to committing to a purchase for a wider deployment. In order to facilitate this we offer a free trial scope of the following resources:

- Up to 10 server instances
- Maximum of 20 vCPU across all instances
- 1 TB of permanent storage (block and/or object)
- Up to 5TB of outbound data transfer
- Duration up to 1 month (730 hours)

This may be extended in scope or time by agreement to complete the evaluation.