Rate card: from 1 September 2018

NTT Virtual Private Cloud

07 July 2020 | Document Version 0.02

1. Introduction

NTT Virtual Private Cloud pricing offers unrivalled value and flexibility with no vendor lock-in. Whether you are a developer, small business or a multinational corporation, you'll enjoy the enterprise-class virtual private cloud features that you can consume globally.

With flexible pricing options, we provide cloud computing services and solutions to fit any budget and address the most demanding IT needs and application workload requirements globally.

Unlike other cloud offerings, NTT allows you to customize the vCPU, RAM and storage for each server on the fly. You can adjust the vCPU and RAM and add additional storage to any server you have deployed within our cloud, at any time.

In addition, NTT only bills you for vCPU and RAM usage when your server is actually running. For servers that are in a non-running state (stopped), you only pay for the other resources you are still using, such as storage. If you delete a server, you stop paying for it.

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2.   Pricing elements and explanations

The following is a detailed explanation of each of the pricing elements and how consumption is measured:

- **CPU hours:** NTT bills for each hour that a vCPU associated with a server is running. For example, a 2 vCPU server running for 2 hours will generate 4 vCPU hours of usage. At the end of the day, NTT totals the vCPU hours generated by all your cloud servers in a given data center and rounds up to the next integer on a daily basis.

  - Two vCPU classes are offered in MCP 2.0 locations, namely Standard and High performance. vCPU utilization is reported and charged separately in MCP 2.0 by the number of vCPU per cloud server

- **RAM hours:** NTT bills for each hour that a GB of RAM associated with a server is running. At the end of the day, NTT totals the RAM hours generated by all your cloud servers in a given data center and rounds up to the next integer on a daily basis.

  In MCP 1.0 this is totalled into a single column. Thus, a cloud server with 148 GB of RAM running for 10 hours would be billed for 1480 RAM hours.

  In addition, RAM hours in MCP 2.0 locations are allocated into different tiers based on the total amount of RAM allocated to the cloud server. On a given server, the first 24 GB of RAM of usage is allocated to the 0-24 GB RAM hours tier, the next 24 GB to the 25-48 GB RAM hours tier, the next 64 GB to the 49-128 GB RAM hours tier.

  Thus, a cloud server with 148 GB RAM running for 10 hours would generate and be billed for the following usage:

Tier	Amount of RAM in tier	Running hours	Total (RAM hours)
0-24 GB RAM hours	24	10	240
25-48 GB RAM hours	24	10	240
49-128 GB RAM hours	80	10	800
129-256 GB RAM hours	20	10	200
257+ GB RAM hours	0	10	0

- **Storage hours:** NTT bills for each hour that a GB of storage is associated with a server or client image (regardless of whether or not it's actually running).

  For example, a 10 GB storage server deployed for four hours will generate 40 storage hours regardless of whether it's running. At the end of the day, NTT

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totals the storage hours generated by all of your cloud servers and client images in a given data center and rounds up to the next integer on a daily basis.

- **IOPS hours:** NTT accrues usage and bills for IOPS hours for provisioned IOPS disk speeds. IOPS hours are calculated as the total amount of IOPS x the hours deployed.

- **Cloud server snapshots hours:** NTT bills for each hour that a server is enabled for cloud server snapshots, based on the total allocated storage capacity of the server.

  For example, a 10 GB storage server enabled for cloud server snapshots for four hours will generate 40 cloud server snapshots hours regardless of whether it's running. At the end of the day, NTT totals the cloud server snapshots hours generated by all your cloud servers in a given data center and rounds up to the next integer on a daily basis. The snapshots usage hours accrual methodology for the Essential Snapshots Plan and Advanced Snapshots plan is the same, but the billing rates differ.

- **Cloud networks (MCP 1.0):** NTT allows each client to deploy one or more cloud networks (VLANs), protected by their own unique firewall, load balancer, and at least two public IP addresses. One network (VLAN) is included per month, so long as there is vCPU or RAM usage incurred during the month. Additional deployed VLANs will incur hourly rates.

- **Cloud network domains and VLANs (MCP 2.0):** NTT allows each client to deploy one or more cloud network domain. Once a network domain is established the client can add up to 30 VLANs per network domain. All Network features and functionality, including firewall and load balancing capabilities can be provisioned on the network domain. One VLAN is included with each network domain purchased. Additional deployed VLANs will incur hourly rates.

- **Additional public IP addresses:** NTT allows clients to add additional IP addresses to their cloud networks in blocks of at least two public IP addresses. Clients are charged for each additional public IP address added to a cloud network, regardless of whether that public IP address is in use. However, there is no charge for the public IP addresses that come pre-assigned with each cloud network.

- **Primary administrator:** NTT Cloud provides the primary administrative account at no charge, and allows each client to create additional user accounts called sub-administrators.

- **Outbound and inbound data transfer:** NTT charges only for outbound traffic leaving each deployed network environment. NTT does not charge for inbound traffic entering each deployed network environment. Traffic from one deployed cloud network to another deployed cloud network will still be counted as outbound data transfer. NTT bills based on the aggregate GB monthly traffic total, rounded up to the integer daily.

- **Cloud backup:** NTT calculates charges based on cloud backup usage for each cloud server. Fees per cloud server = plan fees + usage fees.

Plan fees = rate per day, per cloud server based on the cloud backup plan in use multiplied by the number of days (or part) in the month the plan was used on that cloud server.

Usage fees = rate per GB days, based on the cloud backup plan in use multiplied by the backend storage consumed multiplied by the number of days (or part) in the month the plan was used on that cloud server. 'Backend storage' means amount of storage (in GB) stored in the cloud backup system for a particular cloud server.

The storage requirement for a cloud server is a function of the size of the cloud server, the retention period selected and the amount of daily change on that cloud server. The storage consumed is calculated after compression and de-duplication.

- **OS units:** OS units are only incurred when a cloud server is running. They are separate and distinct from Software units. Each operating system is a member of an OS Units Group.

  If an OS Units Group is defined to generate OS units, every cloud server that has an operating system that is a member of the OS Units Group will incur OS units, usage based on the rates and methodology defined for that OS Units Group. The group will be defined by one of three methodologies.

  ○ **No charge:** No OS units are billed for the OS.

  ○ **Per vCPU:** Fixed number of OS units per vCPU per hour.

    Example: An OS billed at 10 OS units per vCPU per hour with 2 vCPUs running for 10 hours would be billed 200 OS units.

  ○ **Ranged vCPU:** Quantity of OS units per hour based on a range or tier of vCPU.

  Example:

Total Number of vCPU	OS units per Hour Rate
1 to 4 vCPU	10
5 to 12 vCPU	15
13+ vCPU	20

  Based on the above, a 10 vCPU server running for 10 hours would generate 150 OS units.

  Please refer to the online documentation for details on how specific Operating system usage is recorded to a specific OS Units usage Element: https://docs.mcp-services.net/display/CCD/Introduction+to+OS+Units

- **Software units:** Software units are only incurred when a cloud server is deployed from a cloud image that includes cloud software. Not all cloud images include cloud software. Cloud software typically refers to commercial software

loaded onto an image that incurs additional charges when deployed as a server. Cloud software packages, as presented in the admin UI, incur additional charges based on one of two models.

- **Per server cloud software:** incurs a specific rate of software units per hour when a cloud server is running and a specific rate per hour when a server is stopped. This hourly rate is the same regardless of the number of vCPUs configured on the server. Example: 'Software A' is priced per server at a rate of 50 units per hour when the server is running and 25 units per hour when the server is stopped. If a 2 vCPU Server is deployed in a running state for 2 hours and a stopped state for 1 hour, it will incur 125 software units (50 units x 2 hours running + 25 units x 1 hours stopped.)

- **Per vCPU cloud software:** incurs a specific rate of software units per hour per vCPU when a server is running and a specific rate per hour per vCPU when a server is stopped. In this case the overall rate varies based on the number of vCPU associated with the server on which the cloud software is deployed. Example: 'Software B' is priced per server at a rate of 50 units per hour per vCPU when the server is running and 25 units per hour per vCPU when the server is stopped. If a 2 vCPU Server is deployed in a running state for 2 hours and a stopped state for 1 hour, it will incur 250 software units (2 vCPU x 50 units x 2 hours running + 2 vCPU x 25 units x 1 hours stopped).

If multiple cloud software packages are associated with a given cloud server or cloud image, the software units for each cloud software package are incurred. Once a server has been deployed from an OS image with cloud software, all subsequent client images created from the server will carry the same priced software packages and servers deployed from those client images will incur the same charges.

All cloud images and servers with cloud software are labelled as such in the admin UI and API along with a table describing the software units incurred by that specific OS image/server. The admin UI and API also offer an up-to-date catalogue of all available cloud software packages with a description of their pricing models and current pricing.

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3. Data center information

3.1. Multi-location data centers:

Multi-location data centers refer to the availability of different data center locations in the same geographic region (i.e. US-East and US-West in North America). In this case, the same admin UI and API end-point controls assets in each data center location within the same geographic region. NTT will aggregate the usage charges for each data center into a single total for billing purposes, so all usage is billed under the pricing plan for that region.

3.2. Multi-geographic data centers:

Multi-geographic data centers refer to the availability of data centers in different geographic regions (i.e. NTT Cloud Service for data centers in the US and Europe). In this case, clients connect to a single Admin UI, but distinct API end-points to control assets in each different geographic region. Clients must sign up for a separate pricing plan for each geographic region. All usage within that region is billed under that region's pricing plan.

Figure 1: Multi-geographic data centers

4. Pricing model per region

4.1. North America: USA (Santa Clara, Ashburn)

Price is based on UOM and billing frequency

Contracted/ Account Setup Location	Component	UOM	Rating Frequency	USA-Contract In USD
USA (East, West)	Standard vCPU (MCP 1.0)	CPU	HR	0.034000
	Standard 1-12 vCPU (MCP 2.0)	CPU	HR	0.015430
	Standard 13+ vCPU (MCP 2.0)	CPU	HR	0.013115
	High performance 1-12 vCPU (MCP 2.0)	CPU	HR	0.045515
	High performance 13+ vCPU (MCP 2.0)	CPU	HR	0.038688
	RAM (MCP 1.0)	GB	HR	0.021250
	RAM (0-24GB) (MCP 2.0)	GB	HR	0.012929
	RAM (25-48GB) (MCP 2.0)	GB	HR	0.012929
	RAM (49-128GB) (MCP 2.0)	GB	HR	0.009603
	RAM (129-256GB) (MCP 2.0)	GB	HR	0.009603
	RAM (257+GB) (MCP 2.0)	GB	HR	0.009603
	Provisioned IOPS (GB)	GB	HR	0.000172
	Provisioned IOPS (IOPS)	IOPS	HR	0.000090
	Tiered storage-High performance (MCP 1.0)	GB	HR	0.000600
	Tiered storage-Standard (MCP 1.0)	GB	HR	0.000300
	Tiered storage-Economy (MCP 1.0)	GB	HR	0.000100
	Tiered storage-High Performance (MCP 2.0)	GB	HR	0.000442
	Tiered storage-Standard (MCP 2.0)	GB	HR	0.000195
	Tiered storage-Economy (MCP 2.0)	GB	HR	0.000090
	Advanced cloud server snapshots	GB	HR	0.000304

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Essentials cloud server snapshots	GB	HR	0.000076
Cloud network (MCP 1.0)	Network	HR	0.200000
Network domain essentials (MCP 2.0)	Domain	HR	0.034247
Network domain advanced (MCP 2.0)	Domain	HR	0.068493
Network domain enterprise (MCP 2.0)	Domain	HR	0.136987
VLANs (MCP 2.0)	Network	HR	0.034247
OS units (MCP 2.0) - (All Groups)	Unit	HR	0.001000
Software units	Unit	HR	0.001000
Sub-administrator	Admin	HR	0.007000
Additional public IP addresses	IP	HR	0.002700
Inbound bandwidth	GB	HR	0.000000
Outgoing bandwidth 0 - 10 TB	GB	HR	0.150000
Outgoing bandwidth >10 - 50 TB	GB	HR	0.110000
Outgoing bandwidth > 50 - 100 TB	GB	HR	0.090000
Outgoing bandwidth > 100 - 350 TB	GB	HR	0.080000
Outgoing bandwidth > 350 - 524 TB	GB	HR	0.070000
Outgoing bandwidth > 524 TB	GB	HR	0.060000
Essentials monitoring	VM	HR	0.000000
Advanced monitoring	VM	HR	0.009600
Essentials backup days	Units	Daily	0.328767
Essentials backup (GB)	GB	Daily	0.003290
Advanced backup Days	Units	Daily	0.657534
Advanced backup (GB)	GB	Daily	0.003290
Enterprise backup Days	Units	Daily	0.000000
Enterprise backup (GB)	GB	Daily	0.016440
DRS storage hours (GB)	GB	HR	0.000783
DRS source server hours	VM	HR	0.076022
Advanced replicated snapshots (GB)	GB	HR	0.000304
Security group hours	VM	HR	0.024175
One month snapshot hours	GB	HR	0.000147
One month replicated snapshot hours	GB	HR	0.000147
Three month snapshot hours	GB	HR	0.000220
Three month replicated snapshot hours	GB	HR	0.000220
Twelve month snapshot hours	GB	HR	0.000439
Twelve month replicated snapshot hours	GB	HR	0.000439

*Listed pricing is based on client contract in same country as MCP location. Pricing varies if accessing MCP contract outside country. This pricing is for budgetary purposes only.

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4.2. North America: Canada (Toronto)

Price is based on UOM and billing frequency

Contracted/Account Setup Location	Component	UOM	Rating Frequency	Canada-Contract In CAD
Canada (Toronto)	Standard vCPU (MCP 1.0)	CPU	HR	0.036290
	Standard 1-12 vCPU (MCP 2.0)	CPU	HR	0.019884
	Standard 13+ vCPU (MCP 2.0)	CPU	HR	0.016900
	High performance 1-12 vCPU (MCP 2.0)	CPU	HR	0.058651
	High performance 13+ vCPU (MCP 2.0)	CPU	HR	0.049854
	RAM (MCP 1.0)	GB	HR	0.022680
	RAM (0-24GB) (MCP 2.0)	GB	HR	0.016661
	RAM (25-48GB) (MCP 2.0)	GB	HR	0.016661
	RAM (49-128GB) (MCP 2.0)	GB	HR	0.012375
	RAM (129-256GB) (MCP 2.0)	GB	HR	0.012375
	RAM (257+GB) (MCP 2.0)	GB	HR	0.012375
	Tiered storage-High performance (MCP 1.0)	GB	HR	0.000640
	Tiered storage-Standard (MCP 1.0)	GB	HR	0.000320
	Tiered storage-Economy (MCP 1.0)	GB	HR	0.000110
	Tiered storage-High performance (MCP 2.0)	GB	HR	0.000570
	Tiered storage-Standard (MCP 2.0)	GB	HR	0.000252
	Tiered storage-Economy (MCP 2.0)	GB	HR	0.000105
	Cloud network (MCP 1.0)	Network	HR	0.213460
	Network domain essentials (MCP 2.0)	Domain	HR	0.047945

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Network domain advanced (MCP 2.0)	Domain	HR	0.095890
Network domain enterprise (MCP 2.0)	Domain	HR	0.191781
VLANs (MCP 2.0)	Network	HR	0.047945
OS units (MCP 2.0) - (All Groups)	Unit	HR	0.001289
Software units	Unit	HR	0.001070
Sub-administrator	Admin	HR	0.007470
Additional public IP addresses	IP	HR	0.002880
Inbound bandwidth	GB	HR	0.000000
Outgoing bandwidth 0 - 10 TB	GB	HR	0.214790
Outgoing bandwidth >10 - 50 TB	GB	HR	0.195010
Outgoing bandwidth > 50 - 100 TB	GB	HR	0.172800
Outgoing bandwidth > 100 - 350 TB	GB	HR	0.172800
Outgoing bandwidth > 350 - 524 TB	GB	HR	0.172800
Outgoing bandwidth > 524 TB	GB	HR	0.172800
Essentials monitoring	VM	HR	0.000000
Advanced monitoring	VM	HR	0.012888
Essentials backup days	Units	Daily	0.350890
Essentials backup (GB)	GB	Daily	0.003510
Advanced backup days	Units	Daily	0.701790
Advanced backup (GB)	GB	Daily	0.003510
Enterprise backup days	Units	Daily	0.000000
Enterprise backup (GB)	GB	Daily	0.017550
Security group hours	VM	HR	0.033381

*Listed pricing is based on client contract in same country as MCP location. Pricing varies if accessing MCP contract outside country. This pricing is for budgetary purposes only.

4.3. Australia: Sydney, Melbourne

Price is based on UOM and billing frequency

Contracted/ Account Setup	Component	UOM	Rating Frequen	Australia-Contract In AUD
Australia (Sydney, Melbourne)	Standard vCPU (MCP 1.0)	CPU	HR	0.037400
	Standard 1-12 vCPU (MCP 2.0)	CPU	HR	0.018939
	Standard 13+ vCPU (MCP 2.0)	CPU	HR	0.016098
	High performance 1-12 vCPU (MCP 2.0)	CPU	HR	0.055866
	High performance 13+ vCPU (MCP 2.0)	CPU	HR	0.047486
	RAM (MCP 1.0)	GB	HR	0.023375
	RAM (0-24GB) (MCP 2.0)	GB	HR	0.015870
	RAM (25-48GB) (MCP 2.0)	GB	HR	0.015870
	RAM (49-128GB) (MCP 2.0)	GB	HR	0.011787
	RAM (129-256GB) (MCP 2.0)	GB	HR	0.011787
	RAM (257+GB) (MCP 2.0)	GB	HR	0.011787
	Provisioned IOPS (GB)	GB	HR	0.000224
	Provisioned IOPS (IOPS)	IOPS	HR	0.000118
	Tiered storage-High performance (MCP 1.0)	GB	HR	0.000600
	Tiered storage-Standard (MCP 1.0)	GB	HR	0.000300
	Tiered storage-Economy (MCP 1.0)	GB	HR	0.000100
	Tiered storage-High performance (MCP 2.0)	GB	HR	0.000578
	Tiered storage-Standard (MCP 2.0)	GB	HR	0.000240
	Tiered storage-Economy (MCP 2.0)	GB	HR	0.000095
	Advanced cloud server snapshots	GB	HR	0.000416
	Essentials cloud server snapshots	GB	HR	0.000104

Cloud network (MCP 1.0)	Network	HR	0.200000
Network domain essentials (MCP 2.0)	Domain	HR	0.044521
Network domain advanced (MCP 2.0)	Domain	HR	0.089041
Network domain enterprise (MCP 2.0)	Domain	HR	0.178083
VLANs (MCP 2.0)	Network	HR	0.044521
OS units (MCP 2.0) - (All Groups)	Unit	HR	0.001228
Software units	Unit	HR	0.001000
Sub-administrator	Admin	HR	0.007000
Additional public IP addresses	IP	HR	0.004000
Inbound bandwidth	GB	HR	0.000000
Outgoing bandwidth 0 - 10 TB	GB	HR	0.200000
Outgoing bandwidth >10 - 50 TB	GB	HR	0.180000
Outgoing bandwidth > 50 - 100 TB	GB	HR	0.160000
Outgoing bandwidth > 100 - 350 TB	GB	HR	0.160000
Outgoing bandwidth > 350 - 524 TB	GB	HR	0.160000
Outgoing bandwidth > 524 TB	GB	HR	0.160000
Essentials monitoring	VM	HR	0.000000
Advanced monitoring	VM	HR	0.013693
Essentials backup days	Units	Daily	0.361644
Essentials backup (GB)	GB	Daily	0.003620
Essentials backup (GB)	Units	Daily	0.723288
Advanced backup (GB)	GB	Daily	0.003620
Enterprise backup days	Units	Daily	0.000000
Enterprise backup (GB)	GB	Daily	0.018080
DRS source server hours	VM	HR	0.101168
DRS storage hours (GB)	GB	HR	0.001112
Advanced replicated snapshots (GB)	GB	HR	0.000416
Security group hours	VM	HR	0.035110
One month snapshot hours	GB	HR	0.000231
One month replicated snapshot hours	GB	HR	0.000231
Three month snapshot hours	GB	HR	0.000344
Three month replicated snapshot hours	GB	HR	0.000344
Twelve month snapshot hours	GB	HR	0.000684
Twelve month replicated snapshot hours	GB	HR	0.000684

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*Listed pricing is based on client contract in same country as MCP location. Pricing varies if accessing MCP contract outside country. This pricing is for budgetary purposes only.

4.4.   New Zealand: Hamilton

Price is based on UOM and billing frequency

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Contracted/Account Setup Location	Component	UOM	Rating Frequency	New Zealand-Contract In NZD
New Zealand (Hamilton)	Standard vCPU (MCP 1.0)	CPU	HR	0.042002
	Standard 1-12 vCPU (MCP 2.0)	CPU	HR	0.021761
	Standard 13+ vCPU (MCP 2.0)	CPU	HR	0.018497
	High performance 1-12 vCPU (MCP 2.0)	CPU	HR	0.064190
	High performance 13+ vCPU (MCP 2.0)	CPU	HR	0.054562
	RAM (MCP 1.0)	GB	HR	0.026251
	RAM (0-24GB) (MCP 2.0)	GB	HR	0.018234
	RAM (25-48GB) (MCP 2.0)	GB	HR	0.018234
	RAM (49-128GB) (MCP 2.0)	GB	HR	0.013544
	RAM (129-256GB) (MCP 2.0)	GB	HR	0.013544
	RAM (257+GB) (MCP 2.0)	GB	HR	0.013544
	Tiered storage-High performance (MCP 1.0)	GB	HR	0.000674
	Tiered storage-Standard (MCP 1.0)	GB	HR	0.000337
	Tiered storage-Economy (MCP 1.0)	GB	HR	0.000112
	Tiered storage-High performance (MCP 2.0)	GB	HR	0.000624
	Tiered storage-Standard (MCP 2.0)	GB	HR	0.000276
	Tiered storage-Economy (MCP 2.0)	GB	HR	0.000107
	Advanced cloud server snapshots	GB	HR	0.000480
	Essentials cloud server snapshots	GB	HR	0.000120
	Cloud network (MCP 1.0)	Network	HR	0.224611
	Network domain essentials (MCP 2.0)	Domain	HR	0.052349
	Network domain advanced (MCP 2.0)	Domain	HR	0.104697
	Network domain enterprise (MCP 2.0)	Domain	HR	0.209395
	VLANs (MCP 2.0)	Network	HR	0.052349
	OS units (MCP 2.0) - (All Groups)	Unit	HR	0.001411
	Software units	Unit	HR	0.001123
	Sub-administrator	Admin	HR	0.007861
	Additional public IP addresses	IP	HR	0.004492

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Contracted/Account Setup Location	Component	UOM	Rating Frequency	New Zealand-Contract In NZD
	Inbound bandwidth	GB	HR	0.000000
	Outgoing bandwidth 0 - 10 TB	GB	HR	0.224611
	Outgoing bandwidth >10 - 50 TB	GB	HR	0.202150
	Outgoing bandwidth > 50 - 100 TB	GB	HR	0.179688
	Outgoing bandwidth > 100 - 350 TB	GB	HR	0.179688
	Outgoing bandwidth > 350 - 524 TB	GB	HR	0.179688
	Outgoing bandwidth > 524 TB	GB	HR	0.179688
	Essentials monitoring	VM	HR	0.000000
	Advanced monitoring	VM	HR	0.015069
	Essentials backup days	Units	Daily	0.406145
	Essentials backup (GB)	GB	Daily	0.004065
	Advanced backup days	Units	Daily	0.812290
	Advanced backup (GB)	GB	Daily	0.004065
	Enterprise backup days	Units	Daily	0.000000
	Enterprise backup (GB)	GB	Daily	0.020305
	DRS source server hours	VM	HR	0.001159
	DRS storage hours (GB)	GB	HR	0.112653
	Advanced replicated snapshots (GB)	GB	HR	0.000480
	Security group hours	VM	HR	0.037094
	One month snapshot hours	GB	HR	0.000268
	One month replicated snapshot hours	GB	HR	0.000268
	Three month snapshot hours	GB	HR	0.000399
	Three month replicated snapshot hours	GB	HR	0.000399
	Twelve month snapshot hours	GB	HR	0.000795
	Twelve month replicated snapshot hours	GB	HR	0.000795

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4.5.   Europe: Amsterdam, Frankfurt

Price is based on UOM and billing frequency

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Contracted/Account Setup Location	Component	UOM	Rating Frequency	Europe-Contract In EUR
Europe (Amsterdam, Frankfurt)	Standard vCPU (MCP 1.0)	CPU	HR	0.028050
	Standard 1-12 vCPU (MCP 2.0)	CPU	HR	0.014350
	Standard 13+ vCPU (MCP 2.0)	CPU	HR	0.012197
	High performance 1-12 vCPU (MCP 2.0)	CPU	HR	0.042329
	High performance 13+ vCPU (MCP 2.0)	CPU	HR	0.035980
	RAM (MCP 1.0)	GB	HR	0.017531
	RAM (0-24GB) (MCP 2.0)	GB	HR	0.012024
	RAM (25-48GB) (MCP 2.0)	GB	HR	0.012024
	RAM (49-128GB) (MCP 2.0)	GB	HR	0.008931
	RAM (129-256GB) (MCP 2.0)	GB	HR	0.008931
	RAM (257+GB) (MCP 2.0)	GB	HR	0.008931
	Provisioned IOPS (GB)	GB	HR	0.000144
	Provisioned IOPS (IOPS)	IOPS	HR	0.000076
	Tiered storage-High performance (MCP 1.0)	GB	HR	0.000480
	Tiered storage-Standard (MCP 1.0)	GB	HR	0.000240
	Tiered storage-Economy (MCP 1.0)	GB	HR	0.000080
	Tiered storage-High performance (MCP 2.0)	GB	HR	0.000372
	Tiered storage-Standard (MCP 2.0)	GB	HR	0.000182
	Tiered storage-Economy (MCP 2.0)	GB	HR	0.000076
	Advanced cloud server snapshots	GB	HR	0.000280
	Essentials cloud server snapshots	GB	HR	0.000070
	Cloud network (MCP 1.0)	Network	HR	0.150000
	Network domain essentials (MCP 2.0)	Domain	HR	0.031849
	Network domain advanced (MCP 2.0)	Domain	HR	0.063699
	Network domain enterprise (MCP 2.0)	Domain	HR	0.127398
	VLANs (MCP 2.0)	Network	HR	0.031849
	OS units (MCP 2.0) - (All Groups)	Unit	HR	0.000930
	Software units	Unit	HR	0.000750
	Sub-administrator	Admin	HR	0.005250

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Contracted/Account Setup Location	Component	UOM	Rating Frequency	Europe-Contract In EUR
	Additional public IP addresses	IP	HR	0.002025
	Inbound bandwidth	GB	HR	0.000000
	Outgoing bandwidth 0 - 10 TB	GB	HR	0.112500
	Outgoing bandwidth >10 - 50 TB	GB	HR	0.082500
	Outgoing bandwidth > 50 - 100 TB	GB	HR	0.067500
	Outgoing bandwidth > 100 - 350 TB	GB	HR	0.060000
	Outgoing bandwidth > 350 - 524 TB	GB	HR	0.052500
	Outgoing bandwidth > 524 TB	GB	HR	0.045000
	Essentials monitoring	VM	HR	0.000000
	Advanced monitoring	VM	HR	0.008529
	Essentials backup days	Units	Daily	0.263014
	Essentials backup (GB)	GB	Daily	0.002630
	Advanced backup days	Units	Daily	0.526027
	Advanced backup (GB)	GB	Daily	0.002630
	Enterprise backup days	Units	Daily	0.000000
	Enterprise backup (GB)	GB	Daily	0.013150
	DR source server hours	VM	HR	0.069540
	DRS storage hours (GB)	GB	HR	0.000656
	Advanced replicated snapshots (GB)	GB	HR	0.000280
	Security group hours	VM	HR	0.019570
	One month snapshot hours	GB	HR	0.000143
	One month replicated snapshot hours	GB	HR	0.000143
	Three month snapshot hours	GB	HR	0.000212
	Three month replicated snapshot hours	GB	HR	0.000212
	Twelve month snapshot hours	GB	HR	0.000420
	Twelve month replicated snapshot hours	GB	HR	0.000420

*Listed pricing is based on client contract in same country as MCP location. Pricing varies if accessing MCP contract outside country. This pricing is for budgetary purposes only.

4.6.   Europe: UK (London)

Price is based on UOM and billing frequency

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Contracted/Account Setup Location	Component	UOM	Rating Frequency	UK-Contract In GBP
Europe (London)	Standard vCPU (MCP 1.0)	CPU	HR	0.021038
	Standard 1-12 vCPU (MCP 2.0)	CPU	HR	0.010747
	Standard 13+ vCPU (MCP 2.0)	CPU	HR	0.009135
	High performance 1-12 vCPU (MCP 2.0)	CPU	HR	0.031702
	High performance 13+ vCPU (MCP 2.0)	CPU	HR	0.026947
	RAM (MCP 1.0)	GB	HR	0.013150
	RAM (0-24GB) (MCP 2.0)	GB	HR	0.009006
	RAM (25-48GB) (MCP 2.0)	GB	HR	0.009006
	RAM (49-128GB) (MCP 2.0)	GB	HR	0.006689
	RAM (129-256GB) (MCP 2.0)	GB	HR	0.006689
	RAM (257+GB) (MCP 2.0)	GB	HR	0.006689
	Provisioned IOPS (GB)	GB	HR	0.000128
	Provisioned IOPS (IOPS)	IOPS	HR	0.000067
	Tiered storage-High performance (MCP 1.0)	GB	HR	0.000360
	Tiered storage-Standard (MCP 1.0)	GB	HR	0.000180
	Tiered storage-Economy (MCP 1.0)	GB	HR	0.000060
	Tiered storage-High performance (MCP 2.0)	GB	HR	0.000329
	Tiered storage-Standard (MCP 2.0)	GB	HR	0.000136
	Tiered storage-Economy (MCP 2.0)	GB	HR	0.000057
	Network domain essentials (MCP 2.0)	Domain	HR	0.023288
	Network domain advanced (MCP 2.0)	Domain	HR	0.046575
	Network domain enterprise (MCP 2.0)	Domain	HR	0.093151
	Cloud network (MCP 1.0)	Network	HR	0.120000
	VLANs (MCP 2.0)	Network	HR	0.023288
	OS units (MCP 2.0) - (All Groups)	Unit	HR	0.000697
	Software units	Unit	HR	0.000600
	Inbound bandwidth	GB	HR	0.000000
	Sub-administrator	Admin	HR	0.004200

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Contracted/Account Setup Location	Component	UOM	Rating Frequency	UK-Contract In GBP
	Additional public IP addresses	IP	HR	0.001620
	Outgoing bandwidth 0 - 10 TB	GB	HR	0.090000
	Outgoing bandwidth >10 - 50 TB	GB	HR	0.075000
	Outgoing bandwidth > 50 - 100 TB	GB	HR	0.070000
	Outgoing bandwidth > 100 - 350 TB	GB	HR	0.065000
	Outgoing bandwidth > 350 - 524 TB	GB	HR	0.065000
	Outgoing bandwidth > 524 TB	GB	HR	0.065000
	Essentials monitoring	VM	HR	0.000000
	Advanced monitoring	VM	HR	0.006333
	Essentials backup days	Units	Daily	0.197260
	Essentials backup (GB)	GB	Daily	0.001974
	Advanced backup Days	Units	Daily	0.394521
	Advanced backup (GB)	GB	Daily	0.001974
	Enterprise backup Days	Units	Daily	0.000000
	Enterprise backup (GB)	GB	Daily	0.009864
	DR source server hours	VM	HR	0.000583
	DRS storage hours (GB)	GB	HR	0.056713
	Security group hours	VM	HR	0.018419
	One month snapshot hours	GB	HR	0.000143
	One month replicated snapshot hours	GB	HR	0.000143
	Three month snapshot hours	GB	HR	0.000214
	Three month replicated snapshot hours	GB	HR	0.000214
	Twelve month snapshot hours	GB	HR	0.000424
	Twelve month replicated snapshot hours	GB	HR	0.000424

*Listed pricing is based on client contract in same country as MCP location. Pricing varies if accessing MCP contract outside country. This pricing is for budgetary purposes only.

4.7.   MEA: South Africa (Johannesburg)

Price is based on UOM and billing frequency

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Contracted/Account Setup Location	Component	UOM	Rating Frequency	South Africa-Contract In ZAR
South Africa (Johannesburg)	Standard vCPU (MCP 1.0)	CPU	HR	0.328462
	Standard 1-12 vCPU (MCP 2.0)	CPU	HR	0.177445
	Standard 13+ vCPU (MCP 2.0)	CPU	HR	0.150823
	High performance 1-12 vCPU (MCP 2.0)	CPU	HR	0.523423
	High performance 13+ vCPU (MCP 2.0)	CPU	HR	0.444912
	RAM (MCP 1.0)	GB	HR	0.205289
	RAM (0-24GB) (MCP 2.0)	GB	HR	0.148684
	RAM (25-48GB) (MCP 2.0)	GB	HR	0.148684
	RAM (49-128GB) (MCP 2.0)	GB	HR	0.110435
	RAM (129-256GB) (MCP 2.0)	GB	HR	0.110435
	RAM (257+GB) (MCP 2.0)	GB	HR	0.110435
	Provisioned IOPS (GB)	GB	HR	0.002064
	Provisioned IOPS (IOPS)	IOPS	HR	0.001080
	Tiered storage-High performance (MCP 1.0)	GB	HR	0.006000
	Tiered storage-Standard (MCP 1.0)	GB	HR	0.003000
	Tiered storage-Economy (MCP 1.0)	GB	HR	0.001000
	Tiered storage-High performance (MCP 2.0)	GB	HR	0.005304
	Tiered storage-Standard (MCP 2.0)	GB	HR	0.002243
	Tiered storage-Economy (MCP 2.0)	GB	HR	0.000950
	Advanced cloud server snapshots	GB	HR	0.004520
	Essentials cloud server snapshots	GB	HR	0.001130
	Cloud network (MCP 1.0)	Network	HR	1.756480
	Network domain essentials (MCP 2.0)	Domain	HR	0.547945
	Network domain advanced (MCP 2.0)	Domain	HR	1.095890
	Network domain enterprise (MCP 2.0)	Domain	HR	2.191781
	VLANs (MCP 2.0)	Network	HR	0.547945
	OS units (MCP 2.0) - (All Groups)	Unit	HR	0.011500
	Software units	Unit	HR	0.008000

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Contracted/Account Setup Location	Component	UOM	Rating Frequency	South Africa-Contract In ZAR
	Sub-administrator	Admin	HR	0.056000
	Additional public IP addresses	IP	HR	0.032000
	Inbound bandwidth	GB	HR	0.000000
	Outgoing bandwidth 0 - 10 TB	GB	HR	4.750000
	Outgoing bandwidth >10 - 50 TB	GB	HR	4.500000
	Outgoing bandwidth > 50 - 100 TB	GB	HR	4.250000
	Outgoing bandwidth > 100 - 350 TB	GB	HR	4.000000
	Outgoing bandwidth > 350 - 524 TB	GB	HR	4.000000
	Outgoing bandwidth > 524 TB	GB	HR	4.000000
	Essentials monitoring	VM	HR	0.000000
	Advanced monitoring	VM	HR	0.133910
	Essentials backup days	Units	Daily	3.287671
	Essentials backup (GB)	GB	Daily	0.032880
	Advanced backup days	Units	Daily	6.575342
	Advanced backup (GB)	GB	Daily	0.032880
	Enterprise backup days	Units	Daily	0.000000
	Enterprise backup (GB)	GB	Daily	0.164380
	Security group hours	VM	HR	0.395697
	One month snapshot hours	GB	HR	0.002348
	One month replicated snapshot hours	GB	HR	0.002348
	Three month snapshot hours	GB	HR	0.003522
	Three month replicated snapshot hours	GB	HR	0.003522
	Twelve month snapshot hours	GB	HR	0.007020
	Twelve month replicated snapshot hours	GB	HR	0.007020

*Listed pricing is based on client contract in same country as MCP location. Pricing varies if accessing MCP contract outside country. This pricing is for budgetary purposes only.

4.8.   APAC: Hong Kong

Price is based on UOM and billing frequency

Rate card: from 1 September 2018

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Contracted/Account Setup Location	Standard vCPU	UOM	Rating Frequency	Hong Kong- Contract In HKD
APAC (Hong Kong)	Standard vCPU (MCP 1.0)	CPU	HR	0.290373
	Standard 1-12 vCPU (MCP 2.0)	CPU	HR	0.120671
	Standard 13+ vCPU (MCP 2.0)	CPU	HR	0.102566
	High performance 1-12 vCPU (MCP 2.0)	CPU	HR	0.355951
	High performance 13+ vCPU (MCP 2.0)	CPU	HR	0.302560
	RAM (MCP 1.0)	GB	HR	0.181483
	RAM (0-24GB) (MCP 2.0)	GB	HR	0.101112
	RAM (25-48GB) (MCP 2.0)	GB	HR	0.101112
	RAM (49-128GB) (MCP 2.0)	GB	HR	0.075101
	RAM (129-256GB) (MCP 2.0)	GB	HR	0.075101
	RAM (257+GB) (MCP 2.0)	GB	HR	0.075101
	Tiered storage-High performance (MCP 1.0)	GB	HR	0.005000
	Tiered storage-Standard (MCP 1.0)	GB	HR	0.002500
	Tiered storage-Economy (MCP 1.0)	GB	HR	0.000900
	Tiered storage-High performance (MCP 2.0)	GB	HR	0.003458
	Tiered storage-Standard (MCP 2.0)	GB	HR	0.001525
	Tiered storage-Economy (MCP 2.0)	GB	HR	0.000704
	Cloud network (MCP 1.0)	Network	HR	1.552795
	Network domain essentials (MCP 2.0)	Domain	HR	0.267123
	Network domain advanced (MCP 2.0)	Domain	HR	0.534247
	Network domain enterprise (MCP 2.0)	Domain	HR	1.068494
	VLANs (MCP 2.0)	Network	HR	0.267123
	OS units (MCP 2.0) - (All Groups)	Unit	HR	0.007821
	Software units	Unit	HR	0.007764
	Sub-administrator	Admin	HR	0.054348
	Additional public IP addresses	IP	HR	0.031056
	Inbound bandwidth	GB	HR	0.000000

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Contracted/Account Setup Location	Standard vCPU	UOM	Rating Frequency	Hong Kong- Contract In HKD
	Outgoing bandwidth 0 - 10 TB	GB	HR	1.552795
	Outgoing bandwidth >10 - 50 TB	GB	HR	1.397516
	Outgoing bandwidth > 50 - 100 TB	GB	HR	1.242236
	Outgoing bandwidth > 100 - 350 TB	GB	HR	1.242236
	Outgoing bandwidth > 350 - 524 TB	GB	HR	1.242236
	Outgoing bandwidth > 524 TB	GB	HR	1.242236
	Essentials monitoring	VM	HR	0.000000
	Advanced monitoring	VM	HR	0.074401
	Essentials backup days	Units	Daily	2.630137
	Essentials backup (GB)	GB	Daily	0.026300
	Advanced backup days	Units	Daily	5.260274
	Advanced backup (GB)	GB	Daily	0.026300
	Enterprise backup days	Units	Daily	0.000000
	Enterprise backup (GB)	GB	Daily	0.131510
	DR source server hours	VM	HR	0.609725
	DRS storage hours (GB)	GB	HR	0.007006
	Security group hours	VM	HR	0.188788
	One month snapshot hours	GB	HR	0.001348
	One month replicated snapshot hours	GB	HR	0.001348
	Three month snapshot hours	GB	HR	0.002022
	Three month replicated snapshot hours	GB	HR	0.002022
	Twelve month snapshot hours	GB	HR	0.004028
	Twelve month replicated snapshot hours	GB	HR	0.004028

*Listed pricing is based on client contract in same country as MCP location. Pricing varies if accessing MCP contract outside country. This pricing is for budgetary purposes only.

4.9.   APAC: Japan (Tokyo)

Price is based on UOM and billing frequency

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Rate card: from 1 September 2018

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Contracted/Account Setup Location	Component	UOM	Rating Frequency	Japan-Contract In YEN
APAC (Tokyo)	Standard vCPU (MCP 1.0)	CPU	HR	3.179000
	Standard 1-12 vCPU (MCP 2.0)	CPU	HR	1.693219
	Standard 13+ vCPU (MCP 2.0)	CPU	HR	1.439182
	High performance 1-12 vCPU (MCP 2.0)	CPU	HR	4.994612
	High performance 13+ vCPU (MCP 2.0)	CPU	HR	4.245448
	RAM (MCP 1.0)	GB	HR	1.986875
	RAM (0-24GB) (MCP 2.0)	GB	HR	1.418771
	RAM (25-48GB) (MCP 2.0)	GB	HR	1.418771
	RAM (49-128GB) (MCP 2.0)	GB	HR	1.053791
	RAM (129-256GB) (MCP 2.0)	GB	HR	1.053791
	RAM (257+GB) (MCP 2.0)	GB	HR	1.053791
	Tiered storage-High performance (MCP 1.0)	GB	HR	0.064000
	Tiered storage-Standard (MCP 1.0)	GB	HR	0.032000
	Tiered storage-Economy (MCP 1.0)	GB	HR	0.011000
	Tiered storage-High performance (MCP 2.0)	GB	HR	0.048506
	Tiered storage-Standard (MCP 2.0)	GB	HR	0.021399
	Tiered storage-Economy (MCP 2.0)	GB	HR	0.009877
	Cloud network (MCP 1.0)	Network	HR	17.00000
	Network domain essentials (MCP 2.0)	Domain	HR	4.203425
	Network domain advanced (MCP 2.0)	Domain	HR	8.406849
	Network domain enterprise (MCP 2.0)	Domain	HR	16.813699
	VLANs (MCP 2.0)	Network	HR	4.203425
	OS units (MCP 2.0) - (All Groups)	Unit	HR	0.109736
	Software units	Unit	HR	0.085000
	Sub-administrator	Admin	HR	0.595000
	Additional public IP addresses	IP	HR	0.340000
	Inbound bandwidth	GB	HR	0.000000

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Contracted/Account Setup Location	Component	UOM	Rating Frequency	Japan-Contract In YEN
	Outgoing bandwidth 0 - 10 TB	GB	HR	17.000000
	Outgoing bandwidth >10 - 50 TB	GB	HR	15.300000
	Outgoing bandwidth > 50 – 100 TB	GB	HR	13.600000
	Outgoing bandwidth > 100 - 350 TB	GB	HR	13.600000
	Outgoing bandwidth > 350 - 524 TB	GB	HR	13.600000
	Outgoing bandwidth > 524 TB	GB	HR	13.600000
	Essentials monitoring	VM	HR	0.000000
	Advanced monitoring	VM	HR	1.151079
	Essentials backup days	Unit	Daily	32.876712
	Essentials backup (GB)	GB	Daily	0.328770
	Advanced backup Days	Unit	Daily	65.753425
	Advanced backup (GB)	GB	Daily	0.328770
	Enterprise backup days	Unit	Daily	0.000000
	Enterprise backup (GB)	GB	Daily	1.643840

*Listed pricing is based on client contract in same country as MCP location. Pricing varies if accessing MCP contract outside country. This pricing is for budgetary purposes only.

4.10.   APAC: Singapore

Price is based on UOM and billing frequency

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Contracted/Account Setup Location	Component	UOM	Rating Frequency	Singapore-Contract In SGD
APAC (Singapore)	Standard 1-12 vCPU (MCP 2.0)	CPU	HR	0.024636
	Standard 13+ vCPU (MCP 2.0)	CPU	HR	0.020940
	High performance 1-12 vCPU (MCP 2.0)	CPU	HR	0.072670
	High performance 13+ vCPU (MCP 2.0)	CPU	HR	0.061770
	RAM (0-24GB) (MCP 2.0)	GB	HR	0.020643
	RAM (25-48GB) (MCP 2.0)	GB	HR	0.020643
	RAM (49-128GB) (MCP 2.0)	GB	HR	0.015333
	RAM (129-256GB) (MCP 2.0)	GB	HR	0.015333
	RAM (257+GB) (MCP 2.0)	GB	HR	0.015333
	Provisioned IOPS (GB)	GB	HR	0.000231
	Provisioned IOPS (IOPS)	IOPS	HR	0.000121
	Tiered storage-High performance (MCP 2.0)	GB	HR	0.000594
	Tiered storage-Standard (MCP 2.0)	GB	HR	0.000312
	Tiered storage-Economy (MCP 2.0)	GB	HR	0.000144
	Advanced cloud server snapshots	GB	HR	0.000440
	Essentials cloud server snapshots	GB	HR	0.000110
	Network domain essentials (MCP 2.0)	Domain	HR	0.052455
	Network domain advanced (MCP 2.0)	Domain	HR	0.104910
	Network domain enterprise (MCP 2.0)	Domain	HR	0.209821
	VLANs (MCP 2.0)	Network	HR	0.052455
	OS units (MCP 2.0) - (All Groups)	Unit	HR	0.001597
	Software units	Unit	HR	0.001532
	Sub-administrator	Admin	HR	0.010722
	Additional public IP addresses	IP	HR	0.004136
	Inbound bandwidth	GB	HR	0.000000
	Outgoing bandwidth 0 - 10 TB	GB	HR	0.278489
	Outgoing bandwidth >10 - 50 TB	GB	HR	0.250641

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Contracted/Account Setup Location	Component	UOM	Rating Frequency	Singapore-Contract In SGD
	Outgoing bandwidth > 50 – 100 TB	GB	HR	0.222792
	Outgoing bandwidth > 100 - 350 TB	GB	HR	0.222792
	Outgoing bandwidth > 350 - 524 TB	GB	HR	0.222792
	Outgoing bandwidth > 524 TB	GB	HR	0.222792
	Essentials monitoring	VM	HR	0.000000
	Advanced monitoring	VM	HR	0.013687
	Essentials backup days	Unit	Daily	0.503570
	Essentials backup (GB)	GB	Daily	0.005039
	Advanced backup Days	Unit	Daily	1.007140
	Advanced backup (GB)	GB	Daily	0.005039
	Enterprise backup Days	Unit	Daily	0.000000
	Enterprise backup (GB)	GB	Daily	0.025181
	DR source server hours	VM	HR	0.001105
	DRS storage hours (GB)	GB	HR	0.114655
	Security group hours	VM	HR	0.034237

*Listed pricing is based on client contract in same country as MCP location. Pricing varies if accessing MCP contract outside country. This pricing is for budgetary purposes only.

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