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GCP Assessment Report

629 VMs Analyzed

Evaluations and Opportunities for your Data Center



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Assessment Report for 629 VMs in your environment

vCenter: demo.google.com | Datacenter: Datacenter-2

GCP Rightsizing: 99th %-ile vCPU and Peak vRAM Usage

Scope of Assessment

CloudPhysics extracts configuration and resource utilization information from virtual environments—at the market's most granular collection interval—for a wide array of data points, including Virtual Machines, Physical Servers, Storage Arrays, and Network Infrastructure to provide matching options to clouds for cost comparison.

This report analyzed all **629 VMs** discovered in your environment by CloudPhysics with the following set of filters:

Infrastructure Scope
vCenter: **demo.google.com**
Datacenter: **Datacenter-2**
Compute Cluster: All
Storage Cluster: All
Keyword: None
Any of Tags: None

VM Filters
VM State: All
Guest OS Family: All
Guest OS Name: All

This report provides a cost comparison analysis based on the following set of settings:

On-Prem Settings

Physical Host System Cost: **\$12,000** Annual License Cost/ VM: **\$250**
Hardware/ Software Depreciation Term: 4 years Annual License Cost/ Host: **\$12,000**
Shared Storage Cost/ GB: **\$3.00** Environmental Costs Excluded: No
Average Host RAM Cost/ GB: **\$32.00** Average Watts/ Host: 430
vSphere Support: Production Cost/ kWh Electricity: **\$0.105**
Hypervisor/ELA Discount: **30%** Cooling to Power Ratio: 1.8

GCP Settings

GCP Location: **Frankfurt (europe-west3)** Match to GPUs providing: Best Performance
Storage Type: Zonal Sole Tenant Nodes Included: Yes
Storage Media: Optimal Allow Oversubscription: Yes
Instance CPU: Intel Based BYO Microsoft Licenses: **No**
Match to standard instances only: No Term Length: **3 Years**
Exclude E2 instances: Yes Instance Class: Regular
Consider GPUs when: GPUs Already in Place BYO Linux Licenses: No

Non-defaults are marked in blue



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Assessment Report for 629 VMs in your environment

vCenter: demo.google.com | Datacenter: Datacenter-2

GCP Rightsizing: 99th %-ile vCPU and Peak vRAM Usage

Executive Summary

This assessment was created by **Google Accelerate Training** exclusively for **Google Demo Customer** on **September 20, 2020**. It analyzed **629** VMs, currently running in VMware vSphere on-premises, and compared those costs to Google Cloud Platform's Google Compute Engine.

High-Level Results:

- Migrating **626** eligible VMs to GCP will cost your organization an additional **\$671,710 (80%)** per year, for a possible three year additional cost of up to **\$2,015,130**.
- All **626** VMs should be migrated to GCP instances not on Sole Tenant Nodes that will consume guest Microsoft or Linux licenses from Google Cloud.
- The estimated OS cost for GCP is **\$793,155**/year.
 - Leveraging BYO Microsoft Licenses could save you **\$207,832**/year across **196** GCP instances running on Sole Tenant Nodes.
 - Leveraging BYO Linux Licenses could save you **\$10,781**/year across **18** GCP instances.
- The estimated storage cost for GCP is **\$176,053**/year.
- 433** of **626** VMs eligible for migration, did not have performance data for rightsizing the workloads, and were therefore analyzed as configured.
- Of the **629** VMs in scope for this assessment, **3** were running Operating Systems incompatible with GCP.
- You have VMs with Operating System risk in your environment. **199** VMs are running Operating Systems that are no longer supported by platform vendors, and **10** VMs are running Operating Systems that are due to come off support in the next six months.

This report output, brought to you by Google and powered by CloudPhysics, compares the costs of running workloads in the current virtual data center to the simulated costs of running those workloads in Google Cloud Platform, identifying possible cost savings opportunities and providing a clear financial analysis of the opportunity to your organization.

GCP Settings

GCP Location: **Frankfurt (europe-west3)**

Match to GPUs providing: Best Performance

Storage Type: Zonal

Sole Tenant Nodes Included: Yes

Storage Media: Optimal

Allow Oversubscription: Yes

Instance CPU: Intel Based

BYO Microsoft Licenses: **No**

Match to standard instances only: No

Term Length: **3 Years**

Exclude E2 instances: Yes

Instance Class: Regular

Consider GPUs when: GPUs Already in Place

BYO Linux Licenses: No

GOOGLE CLOUD COMPUTE ENGINE—NEW INSTANCES



Updated VM offerings on Google Compute Engine now include all new general-purpose VMs, compute-optimized VMs, and memory-optimized VMs.

GENERAL PURPOSE

N2

20%

PRICE-PERFORMANCE IMPROVEMENT

Best price-performance ratio for a variety of workloads

Higher per-thread performance with up to **40% higher CPU frequency** vs. N1¹

Up to **80 vCPUs** and up to 640 GB

COMPUTE OPTIMIZED

C2

40%

IMPROVEMENT IN PERFORMANCE PER CORE

VIRTUAL MACHINES

provide the highest performance per core available on Google Cloud

Up to **60 vCPUs** 3.8 GHz in Turbo mode

MEMORY OPTIMIZED

M2

6 TB & 12 TB

VIRTUAL MACHINES ADDED

Accommodate the most demanding SAP applications

416 vCPUs, 12 TB
208 vCPUs, 6 TB

Check availability of [new Google Cloud instances](#) near you.

FOR MORE INFORMATION VISIT CLOUD.GOOGLE.COM/INTEL

1. <https://cloud.google.com/compute/docs/machine-types>

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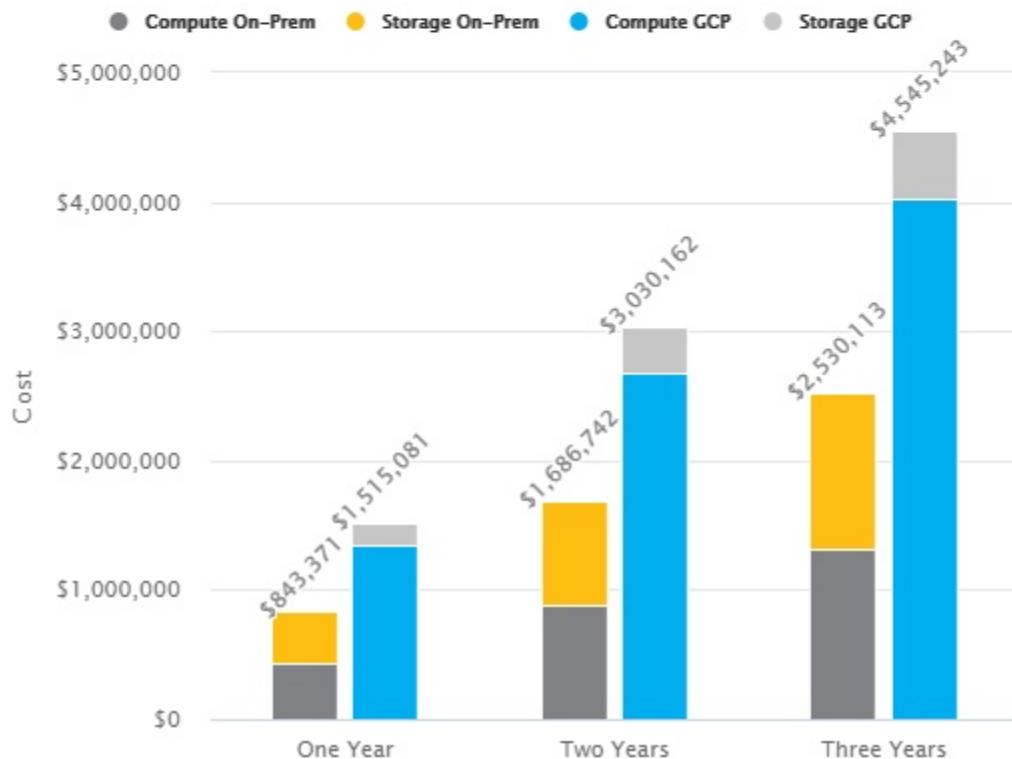
Assessment Report for 629 VMs in your environment

vCenter: demo.google.com | Datacenter: Datacenter-2

GCP Rightsizing: 99th %-ile vCPU and Peak vRAM Usage

Cost Comparison Summary

Total On-Premises vs. GCP over 3 years



3-Year Cost Comparison

On-Premises costs:

\$2,530,113

GCP Costs w/Rightsizing:

\$4,545,243

3-Year Savings:

(\$2,015,130) (-80%)

Compute

\$439,110/year

\$1,338,522/year

(\$899,412)/year

Storage

\$404,261/year

\$176,559/year

\$227,702/year

GCP Settings

GCP Location: **Frankfurt (europe-west3)**

Match to GPUs providing: Best Performance

Storage Type: Zonal

Sole Tenant Nodes Included: Yes

Storage Media: Optimal

Allow Oversubscription: Yes

Instance CPU: Intel Based

BYO Microsoft Licenses: **No**

Match to standard instances only: No

Term Length: **3 Years**

Exclude E2 instances: Yes

Instance Class: Regular

Consider GPUs when: GPUs Already in Place

BYO Linux Licenses: No



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**Assessment Report for 629 VMs in your environment**

vCenter: demo.google.com | Datacenter: Datacenter-2

GCP Rightsizing: 99th %-ile vCPU and Peak vRAM Usage

Cost Comparison Summary (cont'd)**Total Cost:**

	Resource cost as Configured		Rightsize using 99th %-ile vCPU and Peak vRAM Usage	
	On-Prem IT Public Cloud	\$843,371 \$0	On-Prem IT Public Cloud	\$836,762 \$0
On-Prem IT 629 VMs	Total	\$843,371 /year	Total	\$836,762 /year
GCP 629 VMs 628 Supported	On-Prem IT Public Cloud	\$2,364 \$1,701,499	On-Prem IT Public Cloud	\$2,364 \$1,512,717
	Total	\$1,703,863 /year	Total	\$1,515,081 /year

Average Cost per VM:

	Resource cost as Configured		Rightsize using 99th %-ile vCPU and Peak vRAM Usage	
	On-Prem IT Public Cloud	\$1,341 \$0	On-Prem IT Public Cloud	\$1,330 \$0
On-Prem IT 629 VMs	Overall	\$1,341 /year	Overall	\$1,330 /year
GCP 629 VMs 628 Supported	On-Prem IT Public Cloud	\$788 \$2,718	On-Prem IT Public Cloud	\$788 \$2,416
	Overall	\$2,709 /year	Overall	\$2,409 /year

GCP SettingsGCP Location: **Frankfurt (europe-west3)**

Match to GPUs providing: Best Performance

Storage Type: Zonal

Sole Tenant Nodes Included: Yes

Storage Media: Optimal

Allow Oversubscription: Yes

Instance CPU: Intel Based

BYO Microsoft Licenses: **No**

Match to standard instances only: No

Term Length: **3 Years**

Exclude E2 instances: Yes

Instance Class: Regular

Consider GPUs when: GPUs Already in Place

BYO Linux Licenses: No



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Assessment Report for 629 VMs in your environment

vCenter: demo.google.com | Datacenter: Datacenter-2

GCP Rightsizing: 99th %-ile vCPU and Peak vRAM Usage

On-Prem to GCP Migration Summary

GCP Instances Simulation Cost Analysis

Cost Breakdown by GCP instances



629 VMs



Google Cloud

626 VMs Eligible

626 GCP Instances not on
Sole Tenant Nodes

\$1,512,717 /year

GCP Settings

GCP Location: **Frankfurt (europe-west3)**

Match to GPUs providing: Best Performance

Storage Type: Zonal

Sole Tenant Nodes Included: Yes

Storage Media: Optimal

Allow Oversubscription: Yes

Instance CPU: Intel Based

BYO Microsoft Licenses: **No**

Match to standard instances only: No

Term Length: **3 Years**

Exclude E2 instances: Yes

Instance Class: Regular

Consider GPUs when: GPUs Already in Place

BYO Linux Licenses: No



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**Assessment Report for 629 VMs in your environment**

vCenter: demo.google.com | Datacenter: Datacenter-2

GCP Rightsizing: 99th %-ile vCPU and Peak vRAM Usage

GCP Instances Simulation Cost Analysis (cont'd)**Cost Breakdown by Compute, Storage, and OSs**626 GCP Instances not on
Sole Tenant Nodes**Compute****\$543,509**/year

+

**Storage****\$176,053**/year

+

**OSs****\$793,155**/year**Total****\$1,512,717**/year

GCP Settings	
GCP Location: Frankfurt (europe-west3)	Match to GPUs providing: Best Performance
Storage Type: Zonal	Sole Tenant Nodes Included: Yes
Storage Media: Optimal	Allow Oversubscription: Yes
Instance CPU: Intel Based	BYO Microsoft Licenses: No
Match to standard instances only: No	Term Length: 3 Years
Exclude E2 instances: Yes	Instance Class: Regular
Consider GPUs when: GPUs Already in Place	BYO Linux Licenses: No



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vCenter: demo.google.com | Datacenter: Datacenter-2

GCP Rightsizing: 99th %-ile vCPU and Peak vRAM Usage

GCP Instances Simulation Cost Analysis (cont'd)

Cost Breakdown by Operating Systems



626 Total GCP Instances



2,127.5 GCP Instance vCPUs



GCP Instance OS Cost

Operating System	Total Instances	Avg vCPUs	Annual Cost
Microsoft Windows	216	651.5	\$262,554/year
Linux	29	60.6	\$10,781/year
Other	381	1,415.4	\$519,820/year

Google supports the option to BYO Linux Licenses which will reduce your OS cost for all Linux based instances. Google Sole Tenant Nodes support the option to BYO Windows Licenses which will eliminate your OS cost for all GCP instances hosted on Sole Tenant Nodes.

Leveraging BYO Microsoft Licenses could save you **\$207,832/year** across **196** GCP instances running on Sole Tenant Nodes.

Leveraging BYO Linux Licenses could save you **\$10,781/year** across **18** GCP instances.

GCP Settings

GCP Location: **Frankfurt (europe-west3)**

Match to GPUs providing: Best Performance

Storage Type: Zonal

Sole Tenant Nodes Included: Yes

Storage Media: Optimal

Allow Oversubscription: Yes

Instance CPU: Intel Based

BYO Microsoft Licenses: **No**

Match to standard instances only: No

Term Length: **3 Years**

Exclude E2 instances: Yes

Instance Class: Regular

Consider GPUs when: GPUs Already in Place

BYO Linux Licenses: No

**Assessment Report for 629 VMs in your environment**

vCenter: demo.google.com | Datacenter: Datacenter-2

GCP Rightsizing: 99th %-ile vCPU and Peak vRAM Usage

GCP Instance Class Summary

Simulated GCP Instance Classes

GCP Instance Class	Count
Custom	454
c2-standard	42
n2-standard	40
n2-highmem	37
n2-highcpu	35
n1-highcpu	7
f1-micro	5
n1-standard	3
n1-highmem	2
g1-small	1
Unmatched	3

Custom GCP instances allow for specific instance sizes not offered by standard GCP instances. For some organizations, keeping standard instances may be required for migration tools while others will choose custom GCP instances to reduce costs.

Unmatched instances may be instances with unsupported operating systems or instance classes that do not have a match in GCP. These unmatched instances may include GPU base instances or unique operating systems not available in GCP.

GCP Settings

GCP Location: **Frankfurt (europe-west3)**

Match to GPUs providing: Best Performance

Storage Type: Zonal

Sole Tenant Nodes Included: Yes

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Match to standard instances only: No

Term Length: **3 Years**

Exclude E2 instances: Yes

Instance Class: Regular

Consider GPUs when: GPUs Already in Place

BYO Linux Licenses: No



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**Assessment Report for 629 VMs in your environment**

vCenter: demo.google.com | Datacenter: Datacenter-2

GCP Rightsizing: 99th %-ile vCPU and Peak vRAM Usage

Host Inventory Summary and vSphere 7.0 Upgrade Considerations

**Oh no!**

There was a problem retrieving data for this section.

Please try again later.

GCP SettingsGCP Location: **Frankfurt (europe-west3)**

Match to GPUs providing: Best Performance

Storage Type: Zonal

Sole Tenant Nodes Included: Yes

Storage Media: Optimal

Allow Oversubscription: Yes

Instance CPU: Intel Based

BYO Microsoft Licenses: **No**

Match to standard instances only: No

Term Length: **3 Years**

Exclude E2 instances: Yes

Instance Class: Regular

Consider GPUs when: GPUs Already in Place

BYO Linux Licenses: No



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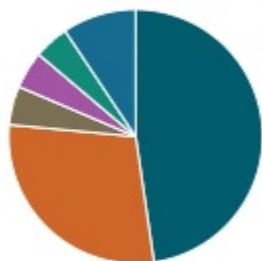
Assessment Report for 629 VMs in your environment

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GCP Rightsizing: 99th %-ile vCPU and Peak vRAM Usage

Operating System Summary

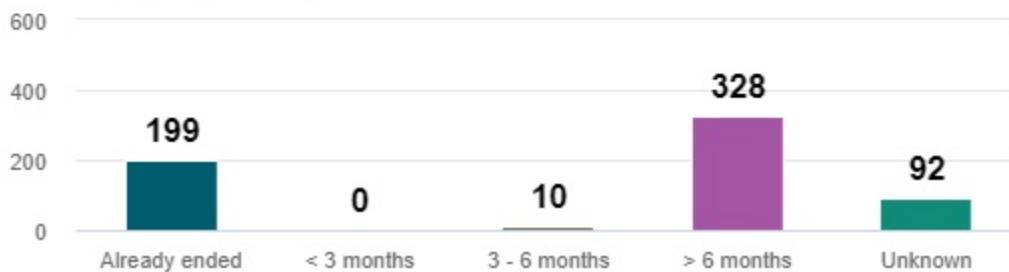
Guest OS Breakdown (629* VMs)



Windows Server 2012	290	(48%)
Windows Server 2008	175	(29%)
Other	30	(5%)
Windows Server 2016	29	(5%)
Red Hat Enterprise Linux 6	27	(4%)
Additional OSs	57	(9%)

*21 VMs excluded due to incomplete data.

End of Support (629 VMs)



GCP Settings

GCP Location: **Frankfurt (europe-west3)**

Match to GPUs providing: Best Performance

Storage Type: Zonal

Sole Tenant Nodes Included: Yes

Storage Media: Optimal

Allow Oversubscription: Yes

Instance CPU: Intel Based

BYO Microsoft Licenses: **No**

Match to standard instances only: No

Term Length: **3 Years**

Exclude E2 instances: Yes

Instance Class: Regular

Consider GPUs when: GPUs Already in Place

BYO Linux Licenses: **No**



Assessment Report for 629 VMs in your environment

vCenter: demo.google.com | Datacenter: Datacenter-2

GCP Rightsizing: 99th %-ile vCPU and Peak vRAM Usage

Detailed Google Cloud Platform Analysis

Supported Instance Matches and Associated Cost

The following table lists every VM in the target set, mapped to its best-fit instance on the Google Cloud Platform, both as currently configured and when rightsized.

VM Name	Guest OS	On-Prem Cost	GCP As Configured		GCP Rightsized to 99th %-tile vCPU and Peak vRAM Usage		Storage
			Instance	Cost/yr	Instance	Cost/yr	
VM-101431	Other Linux (32-bit)	\$605	n1-custom: 1 vCPU 1.00 GB vRAM	\$183	n1-custom: 1 vCPU 1.00 GB vRAM	\$183	1.00 GB HDD
VM-1036344	Microsoft Windows Server 2008 R2 (64-bit)	\$890	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,484	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,484	100.00 GB HDD
VM-1043050	Other Linux (32-bit)	\$605	n1-custom: 1 vCPU 1.00 GB vRAM	\$183	n1-custom: 1 vCPU 1.00 GB vRAM	\$183	1.00 GB HDD
VM-1043082	Microsoft Windows Server 2008 R2 (64-bit)	\$2,012	n2-custom: 8 vCPUs 26.00 GB vRAM	\$6,461	n2-custom: 6 vCPUs 26.00 GB vRAM	\$5,334	570.00 GB SSD
VM-1053694	Microsoft Windows Server 2012 (64-bit)	\$1,743	n2-custom: 2 vCPUs 18.00 GB vRAM	\$1,903	n2-custom: 2 vCPUs 18.00 GB vRAM	\$1,903	501.00 GB HDD
VM-1053699	Microsoft Windows Server 2012 (64-bit)	\$874	n2-custom: 2 vCPUs 12.00 GB vRAM	\$1,443	n2-custom: 2 vCPUs 12.00 GB vRAM	\$1,443	100.00 GB HDD
VM-1053701	Microsoft Windows Server 2012 (64-bit)	\$4,011	n2-custom: 2 vCPUs 4.00 GB vRAM	\$2,135	n2-custom: 2 vCPUs 4.00 GB vRAM	\$2,135	1.56 TB HDD
VM-1053702	Microsoft Windows Server 2012 (64-bit)	\$980	n2-custom: 2 vCPUs 12.00 GB vRAM	\$1,471	n2-custom: 2 vCPUs 12.00 GB vRAM	\$1,471	150.00 GB HDD
VM-1074962	Microsoft Windows Server 2012 (64-bit)	\$816	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,463	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,463	65.00 GB HDD
VM-1084859	Microsoft Windows Server 2008 R2 (64-bit)	\$1,443	c2-standard-8	\$5,819	n2-custom: 2 vCPUs 32.00 GB vRAM	\$3,330	290.00 GB SSD
VM-1084859_replica	Microsoft Windows Server 2008 R2 (64-bit)	\$1,443	c2-standard-8	\$5,276	c2-standard-8	\$5,276	290.00 GB HDD
VM-109678	Microsoft Windows Server 2008 R2 (64-bit)	\$859	n2-standard-2	\$1,357	n2-standard-2	\$1,357	100.00 GB HDD
VM-1106428	Red Hat Enterprise Linux 6 (64-bit)	\$1,265	n1-custom: 1 vCPU 8.00 GB vRAM	\$1,107	n1-custom: 1 vCPU 8.00 GB vRAM	\$1,107	300.00 GB HDD
VM-112147	Microsoft Windows Server 2012 (64-bit)	\$5,572	n2-custom: 12 vCPUs 30.00 GB vRAM	\$8,685	n2-custom: 12 vCPUs 30.00 GB vRAM	\$8,685	2.17 TB HDD
VM-1131228	Red Hat Enterprise Linux 6 (64-bit)	\$652	n1-custom: 1 vCPU 2.00 GB vRAM	\$741	n1-custom: 1 vCPU 2.00 GB vRAM	\$741	20.00 GB HDD
VM-113466	Microsoft Windows Server 2008 R2 (64-bit)	\$1,193	n2-custom: 8 vCPUs 16.00 GB vRAM	\$4,966	n2-custom: 8 vCPUs 16.00 GB vRAM	\$4,966	200.00 GB HDD
VM-113488	Microsoft Windows Server 2008 R2 (64-bit)	\$3,445	n2-highcpu-2	\$1,939	n2-highcpu-2	\$1,939	1.30 TB HDD
VM-113491	Microsoft Windows Server 2008 R2 (64-bit)	\$5,244	n2-custom: 8 vCPUs 32.25 GB vRAM	\$6,405	n2-custom: 8 vCPUs 32.25 GB vRAM	\$6,405	2.04 TB HDD
VM-113492	Microsoft Windows Server 2008 R2 (64-bit)	\$724	n1-custom: 1 vCPU 4.00 GB vRAM	\$678	n1-custom: 1 vCPU 4.00 GB vRAM	\$678	50.00 GB HDD
VM-113493	Microsoft Windows Server 2008 R2 (64-bit)	\$1,365	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,613	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,613	325.00 GB HDD
VM-113501	Microsoft Windows Server 2008 R2 (64-bit)	\$1,017	n2-standard-2	\$1,400	n2-standard-2	\$1,400	175.00 GB HDD
VM-113503	Microsoft Windows Server 2008 R2 (64-bit)	\$1,190	n2-custom: 2 vCPUs 6.00 GB vRAM	\$1,406	n2-custom: 2 vCPUs 6.00 GB vRAM	\$1,406	260.00 GB HDD
VM-113678	Microsoft Windows Server 2008 R2 (64-bit)	\$1,583	n2-custom: 2 vCPUs 32.00 GB vRAM	\$2,850	n2-custom: 2 vCPUs 32.00 GB vRAM	\$2,850	400.00 GB HDD



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Supported Instance Matches and Associated Cost (cont'd)

VM Name	Guest OS	On-Prem Cost	GCP As Configured		GCP Rightsized to 99th %tile vCPU and Peak vRAM Usage		Storage
			Instance	Cost/yr	Instance	Cost/yr	
VM-113685	Microsoft Windows Server 2008 R2 (64-bit)	\$1,988	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,783	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,783	620.00 GB HDD
VM-113687	Microsoft Windows Server 2008 R2 (64-bit)	\$1,008	n2-highcpu-2	\$1,274	n2-highcpu-2	\$1,274	180.00 GB HDD
VM-1145593	Microsoft Windows Server 2008 R2 (64-bit)	\$991	n2-custom: 6 vCPUs 10.00 GB vRAM	\$3,670	n2-custom: 6 vCPUs 10.00 GB vRAM	\$3,670	130.00 GB HDD
VM-1152114	Microsoft Windows Server 2008 R2 (64-bit)	\$920	c2-standard-4	\$2,800	n2-highmem-2	\$1,716	100.00 GB SSD
VM-1200373	Microsoft Windows Server 2012 (64-bit)	\$698	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,230	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,230	30.00 GB HDD
VM-1205705	Microsoft Windows Server 2012 (64-bit)	\$760	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,248	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,248	60.00 GB HDD
VM-1205705_replica	Microsoft Windows Server 2012 (64-bit)	\$760	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,248	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,248	60.00 GB HDD
VM-1220472	Microsoft Windows Server 2008 R2 (64-bit)	\$739	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,242	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,242	50.00 GB HDD
VM-122289	Microsoft Windows Server 2008 R2 (64-bit)	\$2,737	n2-highcpu-2	\$3,618	n2-highcpu-2	\$3,618	0.98 TB SSD
VM-122300	Microsoft Windows Server 2008 R2 (64-bit)	\$1,444	n2-custom: 2 vCPUs 12.00 GB vRAM	\$1,598	n2-custom: 2 vCPUs 12.00 GB vRAM	\$1,598	370.00 GB HDD
VM-122301	CentOS 4/5/6/7 (64-bit)	\$9,355	n2-highcpu-4	\$3,099	n1-custom: 1 vCPU 4.00 GB vRAM	\$2,617	4.02 TB HDD
VM-122302	Microsoft Windows Server 2008 R2 (64-bit)	\$878	c2-standard-4	\$2,751	n1-custom: 1 vCPU 16.00 GB vRAM	\$1,581	80.00 GB SSD
VM-1223024	FreeBSD (64-bit)	\$668	n2-highcpu-2	\$376	n1-custom: 1 vCPU 2.00 GB vRAM	\$215	20.00 GB HDD
VM-1223029	FreeBSD (64-bit)	\$668	n2-highcpu-2	\$413	n1-highcpu-2	\$409	20.00 GB SSD
VM-122309	Microsoft Windows Server 2008 R2 (64-bit)	\$930	n2-custom: 6 vCPUs 16.00 GB vRAM	\$3,776	n2-custom: 6 vCPUs 16.00 GB vRAM	\$3,776	90.00 GB HDD
VM-122311	Microsoft Windows Server 2008 R2 (64-bit)	\$652	n1-custom: 1 vCPU 2.00 GB vRAM	\$618	n1-custom: 1 vCPU 2.00 GB vRAM	\$618	20.00 GB HDD
VM-122312	Microsoft Windows Server 2008 R2 (64-bit)	\$1,765	c2-standard-4	\$2,843	c2-standard-4	\$2,843	500.00 GB HDD
VM-122319	Microsoft Windows Server 2008 R2 (64-bit)	\$838	n1-highcpu-8	\$4,797	n1-custom: 1 vCPU 3.00 GB vRAM	\$763	55.00 GB SSD
VM-122326	Microsoft Windows Server 2008 R2 (64-bit)	\$1,644	n2-custom: 4 vCPUs 12.00 GB vRAM	\$2,771	n2-custom: 4 vCPUs 12.00 GB vRAM	\$2,771	450.00 GB HDD
VM-122331	Microsoft Windows Server 2008 (32-bit)	\$696	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,230	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,230	30.00 GB HDD
VM-122336	Microsoft Windows Server 2008 R2 (64-bit)	\$896	n2-highcpu-4	\$2,403	n2-highcpu-4	\$2,403	110.00 GB HDD
VM-122353	Other Linux (64-bit)	\$760	n2-custom: 2 vCPUs 4.00 GB vRAM	\$554	n1-custom: 1 vCPU 2.50 GB vRAM	\$361	60.00 GB SSD
VM-122356	Microsoft Windows Server 2008 (32-bit)	\$659	g1-small	\$461	g1-small	\$461	25.00 GB SSD
VM-122359	Microsoft Windows Server 2008 R2 (64-bit)	\$880	n2-standard-2	\$1,362	n2-standard-2	\$1,362	110.00 GB HDD
VM-122371	Microsoft Windows Server 2008 R2 (64-bit)	\$972	n2-custom: 6 vCPUs 16.00 GB vRAM	\$3,787	n2-custom: 6 vCPUs 16.00 GB vRAM	\$3,787	110.00 GB HDD
VM-122380	Microsoft Windows Server 2008 R2 (64-bit)	\$1,571	n2-custom: 2 vCPUs 12.00 GB vRAM	\$1,633	n2-custom: 2 vCPUs 12.00 GB vRAM	\$1,633	430.00 GB HDD



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Supported Instance Matches and Associated Cost (cont'd)

VM Name	Guest OS	On-Prem Cost	GCP As Configured		GCP Rightsized to 99th %tile vCPU and Peak vRAM Usage		Storage
			Instance	Cost/yr	Instance	Cost/yr	
VM-122381	Microsoft Windows Server 2003 Standard (32-bit)	\$702	n1-highcpu-4	\$2,380	n1-custom: 1 vCPU 3.00 GB vRAM	\$677	20.00 GB SSD
VM-122387	Microsoft Windows Server 2008 (32-bit)	\$850	n1-custom: 1 vCPU 4.00 GB vRAM	\$918	n1-standard-1	\$913	110.00 GB SSD
VM-122395	Microsoft Windows Server 2012 (64-bit)	\$677	n1-custom: 1 vCPU 3.00 GB vRAM	\$701	n1-custom: 1 vCPU 3.00 GB vRAM	\$701	30.00 GB SSD
VM-122396	Microsoft Windows Server 2012 (64-bit)	\$1,632	n2-custom: 2 vCPUs 3.00 GB vRAM	\$2,354	n1-custom: 1 vCPU 3.00 GB vRAM	\$1,791	475.00 GB SSD
VM-122398	Microsoft Windows Server 2008 R2 (64-bit)	\$868	n2-highcpu-8	\$4,714	n2-highcpu-8	\$4,714	60.00 GB HDD
VM-122617	Microsoft Windows Server 2008 R2 (64-bit)	\$857	n2-highcpu-8	\$4,814	n1-custom: 1 vCPU 8.00 GB vRAM	\$946	55.00 GB SSD
VM-122619	Microsoft Windows Server 2008 R2 (64-bit)	\$718	n1-custom: 1 vCPU 2.00 GB vRAM	\$728	n1-custom: 1 vCPU 2.00 GB vRAM	\$728	50.00 GB SSD
VM-122626	Microsoft Windows Server 2008 R2 (64-bit)	\$1,591	c2-standard-8	\$5,316	c2-standard-8	\$5,316	360.00 GB HDD
VM-122632	Microsoft Windows Server 2008 R2 (64-bit)	\$1,064	n2-custom: 2 vCPUs 12.00 GB vRAM	\$1,494	n2-custom: 2 vCPUs 12.00 GB vRAM	\$1,494	190.00 GB HDD
VM-122634	Microsoft Windows Server 2008 R2 (64-bit)	\$718	n1-custom: 1 vCPU 2.00 GB vRAM	\$728	n1-custom: 1 vCPU 2.00 GB vRAM	\$728	50.00 GB SSD
VM-122651	Microsoft Windows Server 2008 (32-bit)	\$950	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,580	n1-custom: 1 vCPU 4.00 GB vRAM	\$1,016	150.00 GB SSD
VM-122652	CentOS 4/5/6 (32-bit)	\$614	f1-micro	\$71	f1-micro	\$71	5.00 GB SSD
VM-122655	Microsoft Windows Server 2003 (64-bit)	\$627	n1-custom: 1 vCPU 1.00 GB vRAM	\$591	n1-custom: 1 vCPU 1.00 GB vRAM	\$591	10.00 GB HDD
VM-122659	Microsoft Windows Server 2008 R2 (64-bit)	\$1,508	n2-custom: 2 vCPUs 12.00 GB vRAM	\$1,815	n2-custom: 2 vCPUs 12.00 GB vRAM	\$1,815	400.00 GB HDD
VM-122661	Microsoft Windows Server 2008 R2 (64-bit)	\$1,607	n2-highmem-2	\$1,724	n2-highmem-2	\$1,724	440.00 GB HDD
VM-122663	Microsoft Windows Server 2012 (64-bit)	\$1,520	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,455	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,455	420.00 GB HDD
VM-122687	Microsoft Windows Server 2008 (64-bit)	\$663	n1-custom: 1 vCPU 2.00 GB vRAM	\$620	n1-custom: 1 vCPU 2.00 GB vRAM	\$620	25.00 GB HDD
VM-122689	Microsoft Windows Server 2008 R2 (64-bit)	\$684	n1-custom: 1 vCPU 2.00 GB vRAM	\$626	n1-custom: 1 vCPU 2.00 GB vRAM	\$626	35.00 GB HDD
VM-122694	Microsoft Windows Server 2008 R2 (64-bit)	\$1,161	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,357	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,357	250.00 GB HDD
VM-122709	Microsoft Windows Server 2008 R2 (64-bit)	\$781	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,384	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,384	70.00 GB SSD
VM-122712	Microsoft Windows Server 2016 (64-bit)	\$739	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,335	n1-custom: 1 vCPU 4.00 GB vRAM	\$771	50.00 GB SSD
VM-122716	Microsoft Windows Server 2008 R2 (64-bit)	\$1,147	n2-custom: 6 vCPUs 12.00 GB vRAM	\$4,128	n2-custom: 2 vCPUs 12.00 GB vRAM	\$1,875	200.00 GB SSD
VM-122718	Microsoft Windows Server 2008 (32-bit)	\$1,148	n2-custom: 4 vCPUs 20.00 GB vRAM	\$3,174	n1-custom: 1 vCPU 20.00 GB vRAM	\$2,163	200.00 GB SSD
VM-122719	Microsoft Windows Server 2008 R2 (64-bit)	\$1,312	n2-custom: 2 vCPUs 22.00 GB vRAM	\$2,612	n2-custom: 2 vCPUs 22.00 GB vRAM	\$2,612	290.00 GB SSD
VM-122719_replca	Microsoft Windows Server 2008 R2 (64-bit)	\$1,312	n2-custom: 2 vCPUs 22.00 GB vRAM	\$2,069	n2-custom: 2 vCPUs 22.00 GB vRAM	\$2,069	290.00 GB HDD
VM-122730	Microsoft Windows Server 2003 (32-bit)	\$1,138	n1-custom: 1 vCPU 2.00 GB vRAM	\$750	n1-custom: 1 vCPU 2.00 GB vRAM	\$750	250.00 GB HDD



Supported Instance Matches and Associated Cost (cont'd)

VM Name	Guest OS	On-Prem Cost	GCP As Configured		GCP Rightsized to 99th %tile vCPU and Peak vRAM Usage		Storage
			Instance	Cost/yr	Instance	Cost/yr	
VM-122742	Microsoft Windows Server 2008 R2 (64-bit)	\$1,370	n1-custom: 1 vCPU 2.00 GB vRAM	\$813	n1-custom: 1 vCPU 2.00 GB vRAM	\$813	360.00 GB HDD
VM-122750	Red Hat Enterprise Linux 5 (64-bit)	\$608	n1-custom: 1 vCPU 1.00 GB vRAM	\$708	n1-custom: 1 vCPU 1.00 GB vRAM	\$708	100.00 MB HDD
VM-122754	Microsoft Windows Server 2008 (32-bit)	\$652	n1-custom: 1 vCPU 2.00 GB vRAM	\$818	n1-custom: 1 vCPU 2.00 GB vRAM	\$818	20.00 GB HDD
VM-122760	Microsoft Windows Server 2003 Standard (32-bit)	\$627	n1-custom: 1 vCPU 1.00 GB vRAM	\$591	n1-custom: 1 vCPU 1.00 GB vRAM	\$591	10.00 GB HDD
VM-1229113	Microsoft Windows Server 2008 R2 (64-bit)	\$1,103	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,542	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,542	201.00 GB HDD
VM-122980	Microsoft Windows Server 2012 (64-bit)	\$677	n1-custom: 1 vCPU 3.00 GB vRAM	\$845	n1-custom: 1 vCPU 3.00 GB vRAM	\$845	30.00 GB HDD
VM-123026	Red Hat Enterprise Linux 5 (32-bit)	\$664	n1-highcpu-2	\$935	n1-custom: 1 vCPU 1.00 GB vRAM	\$757	20.00 GB SSD
VM-123047	Microsoft Windows Server 2008 (64-bit)	\$1,942	n2-custom: 2 vCPUs 32.00 GB vRAM	\$2,948	n2-custom: 2 vCPUs 32.00 GB vRAM	\$2,948	570.00 GB HDD
VM-123048	Microsoft Windows Server 2008 (64-bit)	\$1,360	n2-highmem-4	\$3,103	n2-highmem-4	\$3,103	280.00 GB HDD
VM-123049	Microsoft Windows Server 2008 R2 (64-bit)	\$1,408	n2-standard-2	\$1,506	n2-standard-2	\$1,506	360.00 GB HDD
VM-123050	Microsoft Windows Server 2008 R2 (64-bit)	\$1,033	n1-custom: 1 vCPU 8.00 GB vRAM	\$920	n1-custom: 1 vCPU 8.00 GB vRAM	\$920	190.00 GB HDD
VM-123052	Microsoft Windows Server 2008 R2 (64-bit)	\$1,408	n2-standard-2	\$1,506	n2-standard-2	\$1,506	360.00 GB HDD
VM-123054	Microsoft Windows Server 2008 R2 (64-bit)	\$4,976	n2-standard-2	\$2,480	n2-standard-2	\$2,480	2.00 TB HDD
VM-123072	Microsoft Windows Server 2008 R2 (64-bit)	\$1,554	c2-standard-4	\$2,785	c2-standard-4	\$2,785	400.00 GB HDD
VM-123078	Microsoft Windows Server 2008 R2 (64-bit)	\$1,088	n2-custom: 8 vCPUs 16.00 GB vRAM	\$5,218	n2-highmem-2	\$1,838	150.00 GB SSD
VM-123079	Microsoft Windows Server 2008 R2 (64-bit)	\$1,448	c2-standard-4	\$3,412	n2-highmem-2	\$2,328	350.00 GB SSD
VM-123081	Microsoft Windows Server 2008 R2 (64-bit)	\$1,131	c2-standard-4	\$3,045	n2-highmem-2	\$1,961	200.00 GB SSD
VM-1233262	Microsoft Windows Server 2012 (64-bit)	\$696	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,230	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,230	30.00 GB HDD
VM-1233270	Microsoft Windows Server 2012 (64-bit)	\$696	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,230	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,230	30.00 GB HDD
VM-1238299	Red Hat Enterprise Linux 6 (64-bit)	\$801	n1-custom: 1 vCPU 8.00 GB vRAM	\$980	n1-custom: 1 vCPU 8.00 GB vRAM	\$980	80.00 GB HDD
VM-1240930	FreeBSD (64-bit)	\$668	n2-highcpu-2	\$376	n2-highcpu-2	\$376	20.00 GB HDD
VM-125422	Microsoft Windows Server 2008 R2 (64-bit)	\$861	n2-standard-2	\$1,546	n2-standard-2	\$1,546	101.00 GB SSD
VM-125425	Microsoft Windows Server 2008 R2 (64-bit)	\$1,312	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,599	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,599	300.00 GB HDD
VM-1255749	Microsoft Windows Server 2008 (32-bit)	\$1,583	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,472	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,472	450.00 GB HDD
VM-1261690	Red Hat Enterprise Linux 6 (64-bit)	\$1,055	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,048	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,048	200.00 GB HDD
VM-127072	Microsoft Windows Server 2012 (64-bit)	\$911	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,489	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,489	110.00 GB HDD



Supported Instance Matches and Associated Cost (cont'd)

VM Name	Guest OS	On-Prem Cost	GCP As Configured		GCP Rightsized to 99th %tile vCPU and Peak vRAM Usage		Storage
			Instance	Cost/yr	Instance	Cost/yr	
VM-1279503	Microsoft Windows Server 2012 (64-bit)	\$5,852	n2-custom: 2 vCPUs 6.00 GB vRAM	\$2,678	n2-custom: 2 vCPUs 6.00 GB vRAM	\$2,678	2.41 TB HDD
VM-128769	Microsoft Windows Server 2012 (64-bit)	\$720	n1-custom: 1 vCPU 3.00 GB vRAM	\$750	n1-custom: 1 vCPU 3.00 GB vRAM	\$750	50.00 GB SSD
VM-1294222	Other Linux (32-bit)	\$605	n1-custom: 1 vCPU 1.00 GB vRAM	\$183	n1-custom: 1 vCPU 1.00 GB vRAM	\$183	1.00 GB HDD
VM-1294232	Other Linux (32-bit)	\$605	n1-custom: 1 vCPU 1.00 GB vRAM	\$183	n1-custom: 1 vCPU 1.00 GB vRAM	\$183	1.00 GB HDD
VM-1294234	Other Linux (32-bit)	\$605	n1-custom: 1 vCPU 1.00 GB vRAM	\$183	n1-custom: 1 vCPU 1.00 GB vRAM	\$183	1.00 GB HDD
VM-1294236	Other Linux (32-bit)	\$605	n1-custom: 1 vCPU 1.00 GB vRAM	\$183	n1-custom: 1 vCPU 1.00 GB vRAM	\$183	1.00 GB HDD
VM-1295378	Microsoft Windows Server 2012 (64-bit)	\$1,339	n2-custom: 2 vCPUs 12.00 GB vRAM	\$1,569	n2-custom: 2 vCPUs 12.00 GB vRAM	\$1,569	320.00 GB HDD
VM-1295378_repl ica	Microsoft Windows Server 2012 (64-bit)	\$1,339	n2-custom: 2 vCPUs 12.00 GB vRAM	\$1,569	n2-custom: 2 vCPUs 12.00 GB vRAM	\$1,569	320.00 GB HDD
VM-1308494	Microsoft Windows Server 2012 (64-bit)	\$1,457	n2-custom: 10 vCPUs 50.00 GB vRAM	\$7,321	n2-custom: 10 vCPUs 50.00 GB vRAM	\$7,321	250.00 GB SSD
VM-1308495	Microsoft Windows Server 2012 (64-bit)	\$821	n1-highcpu-8	\$4,688	n1-highcpu-8	\$4,688	45.00 GB HDD
VM-1308590	Microsoft Windows Server 2012 (64-bit)	\$836	n2-highcpu-8	\$4,705	n2-highcpu-8	\$4,705	45.00 GB HDD
VM-1308622	Microsoft Windows Server 2012 (64-bit)	\$836	n2-highcpu-8	\$4,705	n2-highcpu-8	\$4,705	45.00 GB HDD
VM-1322837	Microsoft Windows Server 2012 (64-bit)	\$950	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,299	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,299	150.00 GB HDD
VM-1324114	Microsoft Windows Server 2016 (64-bit)	\$1,418	n2-custom: 4 vCPUs 8.00 GB vRAM	\$3,283	n2-standard-2	\$2,156	350.00 GB SSD
VM-134599	Red Hat Enterprise Linux 6 (64-bit)	\$694	n1-custom: 1 vCPU 2.00 GB vRAM	\$752	n1-custom: 1 vCPU 2.00 GB vRAM	\$752	40.00 GB HDD
VM-1367529	Microsoft Windows Server 2012 (64-bit)	\$836	n2-highcpu-8	\$4,705	n2-highcpu-8	\$4,705	45.00 GB HDD
VM-1367533	Microsoft Windows Server 2012 (64-bit)	\$821	n1-highcpu-8	\$4,688	n1-highcpu-8	\$4,688	45.00 GB HDD
VM-1367551	Microsoft Windows Server 2012 (64-bit)	\$836	n2-highcpu-8	\$4,705	n2-highcpu-8	\$4,705	45.00 GB HDD
VM-1367553	Microsoft Windows Server 2012 (64-bit)	\$836	n2-highcpu-8	\$4,705	n2-highcpu-8	\$4,705	45.00 GB HDD
VM-1376240	Microsoft Windows Server 2012 (64-bit)	\$869	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,478	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,478	90.00 GB HDD
VM-1385264	Microsoft Windows Server 2012 (64-bit)	\$2,916	n2-highmem-2	\$2,082	n2-highmem-2	\$2,082	1.04 TB HDD
VM-1385265	Microsoft Windows Server 2012 (64-bit)	\$1,603	c2-standard-16	\$10,362	c2-standard-16	\$10,362	250.00 GB HDD
VM-1399120	Microsoft Windows Server 2012 (64-bit)	\$836	n2-highcpu-8	\$4,705	n1-custom: 1 vCPU 7.25 GB vRAM	\$783	45.00 GB HDD
VM-1399121	Microsoft Windows Server 2012 (64-bit)	\$836	n2-highcpu-8	\$4,789	n1-custom: 1 vCPU 8.00 GB vRAM	\$921	45.00 GB SSD
VM-1399122	Microsoft Windows Server 2012 (64-bit)	\$836	n2-highcpu-8	\$4,789	n1-custom: 1 vCPU 6.75 GB vRAM	\$831	45.00 GB SSD
VM-140368	Microsoft Windows Server 2008 R2 (64-bit)	\$959	n2-custom: 8 vCPUs 10.00 GB vRAM	\$4,780	n2-custom: 8 vCPUs 10.00 GB vRAM	\$4,780	100.00 GB HDD



Supported Instance Matches and Associated Cost (cont'd)

VM Name	Guest OS	On-Prem Cost	GCP As Configured		GCP Rightsized to 99th %tile vCPU and Peak vRAM Usage		Storage
			Instance	Cost/yr	Instance	Cost/yr	
VM-140371	Microsoft Windows Server 2008 R2 (64-bit)	\$998	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,512	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,512	150.00 GB HDD
VM-1406570	Microsoft Windows Server 2012 (64-bit)	\$838	n2-highcpu-8	\$4,705	n2-highcpu-8	\$4,705	45.00 GB HDD
VM-1406658	Microsoft Windows Server 2012 (64-bit)	\$838	n2-highcpu-8	\$4,705	n2-highcpu-8	\$4,705	45.00 GB HDD
VM-1428099	Microsoft Windows Server 2012 (64-bit)	\$1,088	n2-custom: 10 vCPUs 36.00 GB vRAM	\$6,466	n2-custom: 10 vCPUs 36.00 GB vRAM	\$6,466	100.00 GB HDD
VM-1429567	Microsoft Windows Server 2012 (64-bit)	\$1,531	n2-custom: 10 vCPUs 64.00 GB vRAM	\$7,646	n2-custom: 10 vCPUs 64.00 GB vRAM	\$7,646	260.00 GB SSD
VM-1432840	Debian GNU/Linux 6 (64-bit)	\$607	n1-custom: 1 vCPU 1.00 GB vRAM	\$183	n1-custom: 1 vCPU 1.00 GB vRAM	\$183	2.00 GB HDD
VM-1451056	Red Hat Enterprise Linux 6 (64-bit)	\$608	n1-custom: 1 vCPU 1.00 GB vRAM	\$708	n1-custom: 1 vCPU 1.00 GB vRAM	\$708	100.00 MB HDD
VM-1454037	Red Hat Enterprise Linux 6 (64-bit)	\$627	n1-custom: 1 vCPU 2.00 GB vRAM	\$734	n1-custom: 1 vCPU 2.00 GB vRAM	\$734	8.00 GB HDD
VM-1454057	Red Hat Enterprise Linux 6 (64-bit)	\$775	n2-standard-2	\$1,054	n1-custom: 1 vCPU 8.00 GB vRAM	\$969	60.00 GB HDD
VM-1454238	Red Hat Enterprise Linux 6 (64-bit)	\$652	n1-custom: 1 vCPU 2.00 GB vRAM	\$741	n1-custom: 1 vCPU 2.00 GB vRAM	\$741	20.00 GB HDD
VM-1454305	Red Hat Enterprise Linux 6 (64-bit)	\$775	n2-standard-2	\$1,166	n1-custom: 1 vCPU 7.75 GB vRAM	\$1,063	60.00 GB SSD
VM-1454306	Red Hat Enterprise Linux 6 (64-bit)	\$775	n2-standard-2	\$1,054	n1-custom: 1 vCPU 7.75 GB vRAM	\$951	60.00 GB HDD
VM-1454307	Red Hat Enterprise Linux 6 (64-bit)	\$775	n2-standard-2	\$1,054	n1-custom: 1 vCPU 2.00 GB vRAM	\$764	60.00 GB HDD
VM-1454310	Red Hat Enterprise Linux 6 (64-bit)	\$775	n2-standard-2	\$1,054	n1-custom: 1 vCPU 2.00 GB vRAM	\$764	60.00 GB HDD
VM-1455663	Microsoft Windows Server 2012 (64-bit)	\$1,283	n2-custom: 8 vCPUs 40.00 GB vRAM	\$5,482	n2-custom: 8 vCPUs 40.00 GB vRAM	\$5,482	200.00 GB HDD
VM-1455665	Microsoft Windows Server 2012 (64-bit)	\$2,582	n2-custom: 10 vCPUs 96.00 GB vRAM	\$8,907	n2-custom: 10 vCPUs 96.00 GB vRAM	\$8,907	701.00 GB HDD
VM-1464285	Microsoft Windows Server 2012 (64-bit)	\$732	n2-highcpu-2	\$1,199	n2-highcpu-2	\$1,199	50.00 GB HDD
VM-1471027	Microsoft Windows Server 2016 (64-bit)	\$844	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,271	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,271	100.00 GB HDD
VM-1481532	Microsoft Windows Server 2012 (64-bit)	\$2,820	c2-standard-4	\$3,131	c2-standard-4	\$3,131	0.98 TB HDD
VM-1485235	Microsoft Windows Server 2012 (64-bit)	\$1,283	n2-custom: 8 vCPUs 40.00 GB vRAM	\$5,482	n2-custom: 8 vCPUs 40.00 GB vRAM	\$5,482	200.00 GB HDD
VM-1486025	Microsoft Windows Server 2016 (64-bit)	\$982	n2-custom: 8 vCPUs 16.00 GB vRAM	\$5,096	c2-standard-4	\$2,800	100.00 GB SSD
VM-1493143	Microsoft Windows Server 2012 (64-bit)	\$1,764	c2-standard-4	\$2,843	c2-standard-4	\$2,843	499.87 GB HDD
VM-1495798	Microsoft Windows Server 2016 (64-bit)	\$920	c2-standard-4	\$2,800	n2-highmem-2	\$1,716	100.00 GB SSD
VM-1495799	Microsoft Windows Server 2012 (64-bit)	\$1,526	n2-custom: 4 vCPUs 8.00 GB vRAM	\$3,408	n2-custom: 4 vCPUs 8.00 GB vRAM	\$3,408	401.00 GB SSD
VM-1515093	Microsoft Windows Server 2012 (64-bit)	\$1,268	n1-custom: 1 vCPU 8.00 GB vRAM	\$984	n1-custom: 1 vCPU 8.00 GB vRAM	\$984	301.00 GB HDD
VM-1518278	Microsoft Windows Server 2012 (64-bit)	\$838	n2-highcpu-8	\$4,789	n1-custom: 1 vCPU 6.50 GB vRAM	\$813	45.00 GB SSD



Supported Instance Matches and Associated Cost (cont'd)

VM Name	Guest OS	On-Prem Cost	GCP As Configured		GCP Rightsized to 99th %tile vCPU and Peak vRAM Usage		Storage
			Instance	Cost/yr	Instance	Cost/yr	
VM-15196	Other Linux (32-bit)	\$605	n1-custom: 1 vCPU 1.00 GB vRAM	\$183	n1-custom: 1 vCPU 1.00 GB vRAM	\$183	1.00 GB HDD
VM-1526576	Microsoft Windows Server 2012 (64-bit)	\$739	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,242	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,242	50.00 GB HDD
VM-1540021	Microsoft Windows Server 2012 (64-bit)	\$6,127	n2-custom: 8 vCPUs 76.00 GB vRAM	\$8,145	n2-custom: 8 vCPUs 76.00 GB vRAM	\$8,145	2.37 TB HDD
VM-1540023	Microsoft Windows Server 2016 (64-bit)	\$3,728	c2-standard-4	\$3,379	c2-standard-4	\$3,379	1.40 TB HDD
VM-1540025	Microsoft Windows Server 2012 (64-bit)	\$11,436	n2-custom: 4 vCPUs 64.00 GB vRAM	\$8,116	n2-custom: 4 vCPUs 64.00 GB vRAM	\$8,116	4.88 TB HDD
VM-1543064	Debian GNU/Linux 6 (64-bit)	\$607	n1-custom: 1 vCPU 1.00 GB vRAM	\$183	n1-custom: 1 vCPU 1.00 GB vRAM	\$183	2.00 GB HDD
VM-1545961	Microsoft Windows Server 2012 (64-bit)	\$737	n1-custom: 1 vCPU 2.00 GB vRAM	\$641	n1-custom: 1 vCPU 2.00 GB vRAM	\$641	60.00 GB HDD
VM-1545961_repl	Microsoft Windows Server 2012 (64-bit)	\$737	n1-custom: 1 vCPU 2.00 GB vRAM	\$641	n1-custom: 1 vCPU 2.00 GB vRAM	\$641	60.00 GB HDD
VM-1551662	Microsoft Windows Server 2012 (64-bit)	\$859	n2-standard-2	\$1,357	n2-standard-2	\$1,357	100.00 GB HDD
VM-1590939	Microsoft Windows Server 2012 (64-bit)	\$760	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,248	n1-custom: 1 vCPU 4.00 GB vRAM	\$684	60.00 GB HDD
VM-1590940	Microsoft Windows Server 2012 (64-bit)	\$760	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,248	n1-custom: 1 vCPU 4.00 GB vRAM	\$684	60.00 GB HDD
VM-1594097	Ubuntu Linux (64-bit)	\$964	n2-highcpu-2	\$756	n1-custom: 1 vCPU 2.00 GB vRAM	\$595	160.00 GB SSD
VM-160780	Microsoft Windows Server 2008 R2 (64-bit)	\$952	n2-highcpu-8	\$4,737	n2-highcpu-8	\$4,737	100.00 GB HDD
VM-160783	Microsoft Windows Server 2008 R2 (64-bit)	\$998	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,793	n1-custom: 1 vCPU 8.00 GB vRAM	\$1,178	150.00 GB SSD
VM-1630754	Microsoft Windows Server 2012 (64-bit)	\$775	n2-standard-2	\$1,334	n2-standard-2	\$1,334	60.00 GB HDD
VM-163498	Microsoft Windows Server 2008 (32-bit)	\$2,747	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,790	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,790	0.98 TB HDD
VM-163500	Microsoft Windows Server 2012 (64-bit)	\$1,100	n2-highmem-2	\$1,586	n2-highmem-2	\$1,586	200.00 GB HDD
VM-1641542	Microsoft Windows Server 2012 (64-bit)	\$820	n2-custom: 4 vCPUs 6.00 GB vRAM	\$2,423	n2-custom: 4 vCPUs 6.00 GB vRAM	\$2,423	70.00 GB HDD
VM-1647888	Microsoft Windows Server 2012 (64-bit)	\$1,023	c2-standard-8	\$5,161	c2-standard-8	\$5,161	91.00 GB HDD
VM-1659314	FreeBSD (64-bit)	\$668	n2-highcpu-2	\$376	n2-highcpu-2	\$376	20.00 GB HDD
VM-167581	Microsoft Windows Server 2008 R2 (64-bit)	\$1,228	n2-custom: 2 vCPUs 22.00 GB vRAM	\$2,046	n2-custom: 2 vCPUs 22.00 GB vRAM	\$2,046	250.00 GB HDD
VM-167582	Microsoft Windows Server 2008 R2 (64-bit)	\$3,531	n2-custom: 10 vCPUs 40.00 GB vRAM	\$7,214	n2-custom: 10 vCPUs 40.00 GB vRAM	\$7,214	1.22 TB HDD
VM-169416	Microsoft Windows Server 2008 R2 (64-bit)	\$909	n2-custom: 4 vCPUs 6.00 GB vRAM	\$2,677	n2-custom: 2 vCPUs 6.00 GB vRAM	\$1,550	120.00 GB SSD
VM-1699163	Microsoft Windows Server 2012 (64-bit)	\$696	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,230	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,230	30.00 GB HDD
VM-1699960	Microsoft Windows Server 2012 (64-bit)	\$5,462	c2-standard-4	\$3,852	c2-standard-4	\$3,852	2.20 TB HDD
VM-1714904	Microsoft Windows Server 2012 (64-bit)	\$801	n1-custom: 1 vCPU 8.00 GB vRAM	\$857	n1-custom: 1 vCPU 8.00 GB vRAM	\$857	80.00 GB HDD



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Supported Instance Matches and Associated Cost (cont'd)

VM Name	Guest OS	On-Prem Cost	GCP As Configured		GCP Rightsized to 99th %tile vCPU and Peak vRAM Usage		Storage
			Instance	Cost/yr	Instance	Cost/yr	
VM-1721307	Microsoft Windows Server 2012 (64-bit)	\$808	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,461	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,461	60.00 GB HDD
VM-1721309	Microsoft Windows Server 2012 (64-bit)	\$698	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,230	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,230	30.00 GB HDD
VM-1721311	Microsoft Windows Server 2012 (64-bit)	\$1,070	n2-standard-2	\$1,414	n2-standard-2	\$1,414	200.00 GB HDD
VM-1721311_replica	Microsoft Windows Server 2012 (64-bit)	\$1,070	n2-standard-2	\$1,414	n2-standard-2	\$1,414	200.00 GB HDD
VM-1721460	Ubuntu Linux (64-bit)	\$1,251	n1-custom: 1 vCPU 4.00 GB vRAM	\$419	n1-custom: 1 vCPU 4.00 GB vRAM	\$419	300.00 GB HDD
VM-1726022	Microsoft Windows Server 2012 (64-bit)	\$804	n2-highcpu-8	\$4,896	n2-highcpu-8	\$4,896	30.00 GB HDD
VM-1746557	Microsoft Windows Server 2012 (64-bit)	\$785	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,455	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,455	50.00 GB HDD
VM-1746558	Microsoft Windows Server 2012 (64-bit)	\$890	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,484	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,484	100.00 GB HDD
VM-175067	Microsoft Windows Server 2008 R2 (64-bit)	\$1,576	n2-custom: 4 vCPUs 22.00 GB vRAM	\$2,957	n2-custom: 4 vCPUs 22.00 GB vRAM	\$2,957	400.00 GB HDD
VM-1764253	Microsoft Windows Server 2012 (64-bit)	\$922	c2-standard-4	\$2,613	c2-standard-4	\$2,613	101.00 GB HDD
VM-1764255	Microsoft Windows Server 2012 (64-bit)	\$890	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,484	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,484	100.00 GB HDD
VM-177781	Microsoft Windows Server 2012 (64-bit)	\$4,706	n2-custom: 6 vCPUs 32.00 GB vRAM	\$8,597	n2-custom: 6 vCPUs 32.00 GB vRAM	\$8,597	1.81 TB SSD
VM-1780934	Red Hat Enterprise Linux 6 (64-bit)	\$1,685	n2-custom: 12 vCPUs 24.00 GB vRAM	\$3,799	n2-custom: 12 vCPUs 24.00 GB vRAM	\$3,799	380.00 GB HDD
VM-1780998	Microsoft Windows Server 2016 (64-bit)	\$892	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,484	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,484	101.00 GB HDD
VM-1780999	Microsoft Windows Server 2012 (64-bit)	\$890	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,484	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,484	100.00 GB HDD
VM-1787982	Microsoft Windows Server 2012 (64-bit)	\$847	n2-highcpu-8	\$4,708	n2-highcpu-8	\$4,708	50.00 GB HDD
VM-1791440	Microsoft Windows Server 2012 (64-bit)	\$847	n2-highcpu-8	\$4,708	n2-highcpu-8	\$4,708	50.00 GB HDD
VM-1800797	Microsoft Windows Server 2012 (64-bit)	\$892	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,484	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,484	101.00 GB HDD
VM-1800798	Microsoft Windows Server 2012 (64-bit)	\$890	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,484	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,484	100.00 GB HDD
VM-1817265	FreeBSD (64-bit)	\$688	n2-highcpu-2	\$376	n2-highcpu-2	\$376	20.00 GB HDD
VM-1818686	Microsoft Windows Server 2012 (64-bit)	\$847	n2-highcpu-8	\$4,801	n1-custom: 1 vCPU 6.00 GB vRAM	\$814	50.00 GB SSD
VM-1818689	Microsoft Windows Server 2012 (64-bit)	\$847	n2-highcpu-8	\$4,801	n1-custom: 1 vCPU 6.50 GB vRAM	\$825	50.00 GB SSD
VM-1820913	Microsoft Windows Server 2008 R2 (64-bit)	\$1,735	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,714	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,714	500.00 GB HDD
VM-1820994	Microsoft Windows Server 2008 R2 (64-bit)	\$1,131	c2-standard-4	\$2,670	c2-standard-4	\$2,670	200.00 GB HDD
VM-1821086	Microsoft Windows Server 2008 R2 (64-bit)	\$1,207	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,570	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,570	250.00 GB HDD
VM-1827613	Other Linux (64-bit)	\$2,841	n2-custom: 4 vCPUs 8.00 GB vRAM	\$1,404	n2-custom: 4 vCPUs 8.00 GB vRAM	\$1,404	1.00 TB HDD



Supported Instance Matches and Associated Cost (cont'd)

VM Name	Guest OS	On-Prem Cost	GCP As Configured		GCP Rightsized to 99th %tile vCPU and Peak vRAM Usage		Storage
			Instance	Cost/yr	Instance	Cost/yr	
VM-182879	Microsoft Windows Server 2008 R2 (64-bit)	\$890	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,484	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,484	100.00 GB HDD
VM-1831094	FreeBSD (64-bit)	\$668	n2-highcpu-2	\$376	n2-highcpu-2	\$376	20.00 GB HDD
VM-183410	Microsoft Windows Server 2012 (64-bit)	\$1,319	n2-custom: 4 vCPUs 10.00 GB vRAM	\$2,842	n2-custom: 4 vCPUs 10.00 GB vRAM	\$2,842	300.00 GB HDD
VM-1851743	Other Linux (64-bit)	\$2,841	n2-custom: 4 vCPUs 8.00 GB vRAM	\$1,404	n2-custom: 4 vCPUs 8.00 GB vRAM	\$1,404	1.00 TB HDD
VM-188812	Microsoft Windows Server 2008 R2 (64-bit)	\$969	n2-custom: 4 vCPUs 10.00 GB vRAM	\$2,550	n2-custom: 4 vCPUs 10.00 GB vRAM	\$2,550	141.00 GB HDD
VM-1880064	Microsoft Windows Server 2008 R2 (64-bit)	\$868	n2-highcpu-8	\$4,826	n1-custom: 1 vCPU 8.00 GB vRAM	\$958	60.00 GB SSD
VM-1881713	Microsoft Windows Server 2003 Standard (32-bit)	\$791	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,397	n1-custom: 1 vCPU 4.00 GB vRAM	\$833	75.01 GB SSD
VM-188809	Microsoft Windows Server 2008 R2 (64-bit)	\$890	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,871	n2-standard-2	\$1,544	100.00 GB SSD
VM-188810	Microsoft Windows Server 2008 R2 (64-bit)	\$1,103	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,542	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,542	201.00 GB HDD
VM-1906061	Microsoft Windows Server 2012 (64-bit)	\$1,465	n2-custom: 4 vCPUs 20.00 GB vRAM	\$2,886	n2-custom: 4 vCPUs 20.00 GB vRAM	\$2,886	351.00 GB HDD
VM-1906064	Microsoft Windows Server 2012 (64-bit)	\$914	n2-custom: 4 vCPUs 20.00 GB vRAM	\$2,736	n2-custom: 4 vCPUs 20.00 GB vRAM	\$2,736	90.00 GB HDD
VM-1912494	Microsoft Windows Server 2012 (64-bit)	\$5,234	n2-custom: 6 vCPUs 32.00 GB vRAM	\$9,209	n2-custom: 6 vCPUs 32.00 GB vRAM	\$9,209	2.05 TB SSD
VM-1912506	Microsoft Windows Server 2008 R2 (64-bit)	\$1,070	n2-standard-2	\$1,414	n2-standard-2	\$1,414	200.00 GB HDD
VM-1912506_replica	Microsoft Windows Server 2008 R2 (64-bit)	\$1,725	n2-standard-2	\$1,593	n2-standard-2	\$1,593	510.00 GB HDD
VM-1912517	Microsoft Windows Server 2008 R2 (64-bit)	\$684	n1-custom: 1 vCPU 2.00 GB vRAM	\$626	n1-custom: 1 vCPU 2.00 GB vRAM	\$626	35.00 GB HDD
VM-1912518	Microsoft Windows Server 2008 R2 (64-bit)	\$684	n1-custom: 1 vCPU 2.00 GB vRAM	\$626	n1-custom: 1 vCPU 2.00 GB vRAM	\$626	35.00 GB HDD
VM-1912536	Microsoft Windows Server 2008 R2 (64-bit)	\$1,386	n2-custom: 6 vCPUs 8.00 GB vRAM	\$4,335	n2-standard-2	\$2,082	320.00 GB SSD
VM-1938831	Microsoft Windows Server 2012 (64-bit)	\$947	n2-custom: 4 vCPUs 12.00 GB vRAM	\$2,806	n1-custom: 1 vCPU 12.00 GB vRAM	\$1,392	120.00 GB SSD
VM-1958955	Microsoft Windows Server 2012 (64-bit)	\$998	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,513	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,513	151.00 GB HDD
VM-1961895	Red Hat Enterprise Linux 6 (64-bit)	\$1,685	n2-custom: 12 vCPUs 24.00 GB vRAM	\$3,799	n2-custom: 12 vCPUs 24.00 GB vRAM	\$3,799	380.00 GB HDD
VM-1962736	Microsoft Windows Server 2008 R2 (64-bit)	\$1,410	n2-custom: 8 vCPUs 40.00 GB vRAM	\$5,517	n2-custom: 8 vCPUs 40.00 GB vRAM	\$5,517	260.00 GB HDD
VM-1962747	Microsoft Windows Server 2008 R2 (64-bit)	\$1,137	n2-custom: 4 vCPUs 40.00 GB vRAM	\$3,608	n2-custom: 4 vCPUs 40.00 GB vRAM	\$3,608	160.00 GB HDD
VM-1962761	Microsoft Windows Server 2008 R2 (64-bit)	\$1,137	n2-custom: 4 vCPUs 40.00 GB vRAM	\$3,608	n2-custom: 4 vCPUs 40.00 GB vRAM	\$3,608	160.00 GB HDD
VM-1962777	Microsoft Windows Server 2008 R2 (64-bit)	\$1,046	n2-custom: 4 vCPUs 20.00 GB vRAM	\$2,776	n2-custom: 4 vCPUs 20.00 GB vRAM	\$2,776	160.00 GB HDD
VM-196663	CentOS 4/5/6/7 (64-bit)	\$3,730	n2-highcpu-2	\$1,211	n1-custom: 1 vCPU 2.00 GB vRAM	\$1,050	1.44 TB HDD
VM-1972858	Microsoft Windows Server 2012 (64-bit)	\$793	c2-standard-4	\$2,653	n1-custom: 1 vCPU 16.00 GB vRAM	\$1,483	40.00 GB SSD



Supported Instance Matches and Associated Cost (cont'd)

VM Name	Guest OS	On-Prem Cost	GCP As Configured		GCP Rightsized to 99th %tile vCPU and Peak vRAM Usage		Storage
			Instance	Cost/yr	Instance	Cost/yr	
VM-1991508	Microsoft Windows Server 2012 (64-bit)	\$1,005	c2-standard-4	\$2,898	n1-custom: 1 vCPU 16.00 GB vRAM	\$1,728	140.00 GB SSD
VM-1991514	Microsoft Windows Server 2012 (64-bit)	\$1,005	c2-standard-4	\$2,898	n2-highmem-2	\$1,814	140.00 GB SSD
VM-1991518	Microsoft Windows Server 2012 (64-bit)	\$1,005	c2-standard-4	\$2,898	n2-highmem-2	\$1,814	140.00 GB SSD
VM-1991523	Microsoft Windows Server 2012 (64-bit)	\$1,165	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,989	n2-standard-2	\$1,862	230.00 GB SSD
VM-1991539	Microsoft Windows Server 2012 (64-bit)	\$1,089	c2-standard-4	\$2,996	c2-standard-4	\$2,996	180.00 GB SSD
VM-1991540	Microsoft Windows Server 2012 (64-bit)	\$1,005	c2-standard-4	\$2,898	n1-custom: 1 vCPU 16.00 GB vRAM	\$1,728	140.00 GB SSD
VM-1991545	Microsoft Windows Server 2012 (64-bit)	\$1,005	c2-standard-4	\$2,898	n1-custom: 1 vCPU 16.00 GB vRAM	\$1,728	140.00 GB SSD
VM-1991547	Microsoft Windows Server 2012 (64-bit)	\$1,005	c2-standard-4	\$2,898	n1-custom: 1 vCPU 16.00 GB vRAM	\$1,728	140.00 GB SSD
VM-1991550	Microsoft Windows Server 2012 (64-bit)	\$1,005	c2-standard-4	\$2,898	n1-custom: 1 vCPU 16.00 GB vRAM	\$1,728	140.00 GB SSD
VM-1991627	Microsoft Windows Server 2012 (64-bit)	\$1,195	c2-standard-4	\$3,118	n2-highmem-2	\$2,034	230.00 GB SSD
VM-2010936	Microsoft Windows Server 2012 (64-bit)	\$677	n1-custom: 1 vCPU 3.00 GB vRAM	\$645	n1-custom: 1 vCPU 3.00 GB vRAM	\$645	30.00 GB HDD
VM-2010963	Microsoft Windows Server 2012 (64-bit)	\$1,479	n2-custom: 6 vCPUs 16.00 GB vRAM	\$3,926	n2-custom: 6 vCPUs 16.00 GB vRAM	\$3,926	350.00 GB HDD
VM-2011107	Microsoft Windows Server 2012 (64-bit)	\$1,054	n2-custom: 8 vCPUs 24.00 GB vRAM	\$5,092	n2-custom: 8 vCPUs 24.00 GB vRAM	\$5,092	120.00 GB HDD
VM-204675	Microsoft Windows Server 2012 (64-bit)	\$852	n2-custom: 2 vCPUs 6.00 GB vRAM	\$1,314	n2-custom: 2 vCPUs 6.00 GB vRAM	\$1,314	100.00 GB HDD
VM-2058801	Microsoft Windows Server 2016 (64-bit)	\$892	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,484	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,484	101.00 GB HDD
VM-2058802	Microsoft Windows Server 2012 (64-bit)	\$890	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,484	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,484	100.00 GB HDD
VM-212149	Ubuntu Linux (64-bit)	\$833	n2-highcpu-4	\$924	n1-custom: 1 vCPU 3.25 GB vRAM	\$426	80.00 GB SSD
VM-216386	Microsoft Windows Server 2008 R2 (64-bit)	\$1,689	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,501	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,501	500.00 GB HDD
VM-2163900	Microsoft Windows Server 2012 (64-bit)	\$802	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,259	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,259	80.00 GB HDD
VM-2163905	Microsoft Windows Server 2012 (64-bit)	\$802	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,259	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,259	80.00 GB HDD
VM-2163908	Microsoft Windows Server 2012 (64-bit)	\$848	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,472	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,472	80.00 GB HDD
VM-2164214	Microsoft Windows Server 2012 (64-bit)	\$802	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,259	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,259	80.00 GB HDD
VM-2164266	Microsoft Windows Server 2012 (64-bit)	\$920	c2-standard-4	\$2,613	c2-standard-4	\$2,613	100.00 GB HDD
VM-2164267	Microsoft Windows Server 2012 (64-bit)	\$890	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,484	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,484	99.87 GB HDD
VM-2164268	Microsoft Windows Server 2012 (64-bit)	\$848	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,472	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,472	80.00 GB HDD
VM-2164273	Microsoft Windows Server 2012 (64-bit)	\$1,055	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,328	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,328	200.00 GB HDD



Supported Instance Matches and Associated Cost (cont'd)

VM Name	Guest OS	On-Prem Cost	GCP As Configured		GCP Rightsized to 99th %tile vCPU and Peak vRAM Usage		Storage
			Instance	Cost/yr	Instance	Cost/yr	
VM-2164330	Microsoft Windows Server 2012 (64-bit)	\$2,580	n2-custom: 4 vCPUs 64.00 GB vRAM	\$5,700	n2-custom: 4 vCPUs 64.00 GB vRAM	\$5,700	801.00 GB HDD
VM-2164389	Microsoft Windows Server 2012 (64-bit)	\$779	n1-custom: 1 vCPU 2.00 GB vRAM	\$652	n1-custom: 1 vCPU 2.00 GB vRAM	\$652	80.00 GB HDD
VM-2183584	Microsoft Windows Server 2016 (64-bit)	\$2,143	n2-custom: 8 vCPUs 16.00 GB vRAM	\$6,442	n2-custom: 6 vCPUs 16.00 GB vRAM	\$5,315	650.00 GB SSD
VM-2183587	Microsoft Windows Server 2016 (64-bit)	\$859	n2-standard-2	\$1,544	n2-standard-2	\$1,544	100.00 GB SSD
VM-2186157	Microsoft Windows Server 2012 (64-bit)	\$806	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,461	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,461	60.00 GB HDD
VM-2186160	Microsoft Windows Server 2016 (64-bit)	\$806	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,461	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,461	60.00 GB HDD
VM-2186165	Microsoft Windows Server 2012 (64-bit)	\$848	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,472	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,472	80.00 GB HDD
VM-2186371	Red Hat Enterprise Linux 7 (64-bit)	\$950	n2-custom: 4 vCPUs 24.00 GB vRAM	\$1,742	n1-custom: 1 vCPU 2.00 GB vRAM	\$787	100.00 GB HDD
VM-2186372	Red Hat Enterprise Linux 7 (64-bit)	\$950	n2-custom: 4 vCPUs 24.00 GB vRAM	\$1,742	n1-standard-1	\$825	100.00 GB HDD
VM-2186373	Red Hat Enterprise Linux 7 (64-bit)	\$950	n2-custom: 4 vCPUs 24.00 GB vRAM	\$1,742	n1-highmem-4	\$1,785	100.00 GB HDD
VM-2186374	Red Hat Enterprise Linux 7 (64-bit)	\$950	n2-custom: 4 vCPUs 24.00 GB vRAM	\$1,742	n1-highmem-4	\$1,785	100.00 GB HDD
VM-2186534	Microsoft Windows Server 2012 (64-bit)	\$823	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,265	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,265	90.00 GB HDD
VM-2212446	Microsoft Windows Server 2012 (64-bit)	\$2,143	n2-custom: 8 vCPUs 16.00 GB vRAM	\$6,442	n2-custom: 8 vCPUs 16.00 GB vRAM	\$6,442	650.00 GB SSD
VM-2235405	Microsoft Windows Server 2012 (64-bit)	\$785	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,455	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,455	50.00 GB HDD
VM-229409	Other Linux (32-bit)	\$605	n1-custom: 1 vCPU 1.00 GB vRAM	\$183	n1-custom: 1 vCPU 1.00 GB vRAM	\$183	1.00 GB HDD
VM-2339042	Microsoft Windows Server 2012 (64-bit)	\$760	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,248	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,248	60.00 GB HDD
VM-2383897	Microsoft Windows Server 2012 (64-bit)	\$892	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,484	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,484	101.00 GB HDD
VM-2383901	Microsoft Windows Server 2012 (64-bit)	\$890	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,484	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,484	100.00 GB HDD
VM-2416912	Microsoft Windows Server 2012 (64-bit)	\$890	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,484	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,484	100.00 GB HDD
VM-2429147	Microsoft Windows Server 2012 (64-bit)	\$883	n2-custom: 4 vCPUs 6.00 GB vRAM	\$2,628	n1-custom: 1 vCPU 6.00 GB vRAM	\$937	100.00 GB SSD
VM-2431936	Red Hat Enterprise Linux 5 (32-bit)	\$728	n1-custom: 1 vCPU 2.00 GB vRAM	\$761	n1-custom: 1 vCPU 2.00 GB vRAM	\$761	56.00 GB HDD
VM-2444049	Red Hat Enterprise Linux 7 (64-bit)	\$817	n1-custom: 1 vCPU 1.00 GB vRAM	\$766	n1-custom: 1 vCPU 1.00 GB vRAM	\$766	100.00 GB HDD
VM-2444132	Microsoft Windows Server 2012 (64-bit)	\$739	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,242	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,242	50.00 GB HDD
VM-2444133	Microsoft Windows Server 2012 (64-bit)	\$890	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,484	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,484	100.00 GB HDD
VM-2444291	Red Hat Enterprise Linux 7 (64-bit)	\$920	c2-standard-4	\$1,527	n2-custom: 2 vCPUs 9.75 GB vRAM	\$1,114	100.00 GB HDD
VM-2444293	Red Hat Enterprise Linux 7 (64-bit)	\$920	c2-standard-4	\$1,527	c2-standard-4	\$1,527	100.00 GB HDD



Supported Instance Matches and Associated Cost (cont'd)

VM Name	Guest OS	On-Prem Cost	GCP As Configured		GCP Rightsized to 99th %tile vCPU and Peak vRAM Usage		Storage
			Instance	Cost/yr	Instance	Cost/yr	
VM-2451511	Microsoft Windows Server 2016 (64-bit)	\$1,193	n2-custom: 8 vCPUs 16.00 GB vRAM	\$5,341	n2-highmem-2	\$1,961	200.00 GB SSD
VM-2461776	Red Hat Enterprise Linux 7 (64-bit)	\$1,704	n2-standard-2	\$1,307	n1-custom: 1 vCPU 8.00 GB vRAM	\$1,222	500.00 GB HDD
VM-2462345	Red Hat Enterprise Linux 7 (64-bit)	\$1,704	n2-standard-2	\$1,307	n2-standard-2	\$1,307	500.00 GB HDD
VM-2466931	Microsoft Windows Server 2016 (64-bit)	\$892	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,673	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,673	101.00 GB SSD
VM-2466932	Microsoft Windows Server 2016 (64-bit)	\$890	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,671	n2-standard-2	\$1,544	100.00 GB SSD
VM-2469555	Microsoft Windows Server 2012 (64-bit)	\$878	c2-standard-4	\$2,801	c2-standard-4	\$2,801	80.00 GB HDD
VM-2471959	Microsoft Windows Server 2012 (64-bit)	\$863	n2-custom: 4 vCPUs 12.00 GB vRAM	\$2,558	n2-custom: 4 vCPUs 12.00 GB vRAM	\$2,558	80.00 GB HDD
VM-2471963	Microsoft Windows Server 2012 (64-bit)	\$1,351	n2-custom: 12 vCPUs 64.00 GB vRAM	\$8,229	n2-custom: 12 vCPUs 64.00 GB vRAM	\$8,229	160.00 GB HDD
VM-2481206	Microsoft Windows Server 2012 (64-bit)	\$863	n2-custom: 4 vCPUs 12.00 GB vRAM	\$2,558	n2-custom: 4 vCPUs 12.00 GB vRAM	\$2,558	80.00 GB HDD
VM-2502780	Microsoft Windows Server 2012 (64-bit)	\$696	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,230	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,230	30.00 GB HDD
VM-2521655	Microsoft Windows Server 2016 (64-bit)	\$832	n1-highcpu-8	\$4,784	n1-custom: 1 vCPU 4.00 GB vRAM	\$771	50.00 GB SSD
VM-2534187	Microsoft Windows Server 2016 (64-bit)	\$832	n1-highcpu-8	\$4,784	n1-custom: 1 vCPU 4.00 GB vRAM	\$771	50.00 GB SSD
VM-2539196	Microsoft Windows Server 2012 (64-bit)	\$8,018	n2-highmem-8	\$7,265	n2-highmem-8	\$7,265	2.34 TB HDD
VM-2548537	Microsoft Windows Server 2012 (64-bit)	\$1,478	n2-custom: 12 vCPUs 64.00 GB vRAM	\$8,264	n2-custom: 12 vCPUs 64.00 GB vRAM	\$8,264	220.00 GB HDD
VM-2600282	Microsoft Windows Server 2012 (64-bit)	\$1,300	c2-standard-4	\$2,716	c2-standard-4	\$2,716	280.00 GB HDD
VM-2600452	Microsoft Windows Server 2012 (64-bit)	\$1,290	n2-custom: 24 vCPUs 32.00 GB vRAM	\$14,267	n2-custom: 24 vCPUs 32.00 GB vRAM	\$14,267	100.00 GB HDD
VM-2605107	Microsoft Windows Server 2012 (64-bit)	\$802	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,259	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,259	80.00 GB HDD
VM-2615239	Microsoft Windows Server 2012 (64-bit)	\$1,554	c2-standard-4	\$2,785	c2-standard-4	\$2,785	400.00 GB HDD
VM-2615364	Microsoft Windows Server 2012 (64-bit)	\$793	c2-standard-4	\$2,578	c2-standard-4	\$2,578	40.00 GB HDD
VM-2631243	Microsoft Windows Server 2012 (64-bit)	\$1,351	n2-custom: 12 vCPUs 64.00 GB vRAM	\$8,229	n2-custom: 12 vCPUs 64.00 GB vRAM	\$8,229	160.00 GB HDD
VM-2631600	Microsoft Windows Server 2012 (64-bit)	\$1,131	c2-standard-4	\$2,670	c2-standard-4	\$2,670	200.00 GB HDD
VM-2634976	Microsoft Windows Server 2012 (64-bit)	\$2,582	n2-custom: 10 vCPUs 96.00 GB vRAM	\$8,907	n2-custom: 10 vCPUs 96.00 GB vRAM	\$8,907	701.00 GB HDD
VM-2635118	Microsoft Windows Server 2012 (64-bit)	\$696	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,286	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,286	30.00 GB SSD
VM-2644041	Microsoft Windows Server 2016 (64-bit)	\$1,266	n2-custom: 8 vCPUs 24.00 GB vRAM	\$5,562	n2-custom: 4 vCPUs 24.00 GB vRAM	\$3,309	220.00 GB SSD
VM-2644048	Microsoft Windows Server 2012 (64-bit)	\$1,266	n2-custom: 8 vCPUs 24.00 GB vRAM	\$5,562	n2-custom: 2 vCPUs 24.00 GB vRAM	\$2,584	220.00 GB SSD
VM-2659403	Microsoft Windows Server 2012 (64-bit)	\$944	n2-standard-2	\$1,380	n2-standard-2	\$1,380	140.00 GB HDD



Supported Instance Matches and Associated Cost (cont'd)

VM Name	Guest OS	On-Prem Cost	GCP As Configured		GCP Rightsized to 99th %tile vCPU and Peak vRAM Usage		Storage
			Instance	Cost/yr	Instance	Cost/yr	
VM-2659409	Microsoft Windows Server 2012 (64-bit)	\$944	n2-standard-2	\$1,642	n2-standard-2	\$1,642	140.00 GB SSD
VM-2659414	Microsoft Windows Server 2012 (64-bit)	\$1,532	c2-standard-4	\$3,510	n1-custom: 1 vCPU 13.00 GB vRAM	\$2,125	390.00 GB SSD
VM-2659415	Microsoft Windows Server 2012 (64-bit)	\$1,532	c2-standard-4	\$3,510	n2-highmem-2	\$2,426	390.00 GB SSD
VM-2672126	Microsoft Windows Server 2012 (64-bit)	\$2,293	c2-standard-4	\$2,987	c2-standard-4	\$2,987	750.00 GB HDD
VM-2672134	Microsoft Windows Server 2012 (64-bit)	\$2,972	c2-standard-4	\$3,172	c2-standard-4	\$3,172	1.05 TB HDD
VM-2677718	Microsoft Windows Server 2012 (64-bit)	\$834	n2-custom: 8 vCPUs 16.00 GB vRAM	\$4,868	n2-custom: 8 vCPUs 16.00 GB vRAM	\$4,868	30.00 GB HDD
VM-2677744	Microsoft Windows Server 2012 (64-bit)	\$834	n2-custom: 8 vCPUs 16.00 GB vRAM	\$4,868	n2-custom: 8 vCPUs 16.00 GB vRAM	\$4,868	30.00 GB HDD
VM-2704876	Microsoft Windows Server 2012 (64-bit)	\$696	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,230	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,230	30.00 GB HDD
VM-2716965	Microsoft Windows Server 2012 (64-bit)	\$717	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,236	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,236	40.00 GB HDD
VM-2716982	Microsoft Windows Server 2012 (64-bit)	\$717	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,236	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,236	40.00 GB HDD
VM-2717121	Microsoft Windows Server 2012 (64-bit)	\$717	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,236	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,236	40.00 GB HDD
VM-2717129	Microsoft Windows Server 2012 (64-bit)	\$1,738	c2-standard-16	\$10,399	c2-standard-16	\$10,399	314.00 GB HDD
VM-2717130	Microsoft Windows Server 2012 (64-bit)	\$968	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,505	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,505	137.00 GB HDD
VM-2727366	Red Hat Enterprise Linux 7 (64-bit)	\$817	n2-standard-2	\$1,065	n1-custom: 1 vCPU 8.00 GB vRAM	\$980	80.00 GB HDD
VM-2727376	Red Hat Enterprise Linux 7 (64-bit)	\$817	n2-standard-2	\$1,065	n1-custom: 1 vCPU 8.00 GB vRAM	\$980	80.00 GB HDD
VM-274300	SUSE Linux Enterprise 11 (64-bit)	\$611	f1-micro	\$241	f1-micro	\$241	3.00 GB SSD
VM-274809	Microsoft Windows Server 2008 R2 (64-bit)	\$951	n2-custom: 6 vCPUs 16.00 GB vRAM	\$3,782	n2-custom: 6 vCPUs 16.00 GB vRAM	\$3,782	100.00 GB HDD
VM-274816	Microsoft Windows Server 2008 R2 (64-bit)	\$951	n2-custom: 6 vCPUs 16.00 GB vRAM	\$3,782	n2-custom: 6 vCPUs 16.00 GB vRAM	\$3,782	100.00 GB HDD
VM-2752133	Ubuntu Linux (64-bit)	\$674	n2-custom: 2 vCPUs 4.00 GB vRAM	\$418	n2-custom: 2 vCPUs 4.00 GB vRAM	\$418	19.53 GB HDD
VM-2752210	Ubuntu Linux (64-bit)	\$674	n2-custom: 2 vCPUs 4.00 GB vRAM	\$418	n1-custom: 1 vCPU 3.25 GB vRAM	\$241	19.53 GB HDD
VM-2753857	Microsoft Windows Server 2012 (64-bit)	\$848	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,472	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,472	80.00 GB HDD
VM-2753857_repl ica	Microsoft Windows Server 2012 (64-bit)	\$848	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,472	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,472	80.00 GB HDD
VM-2753859	Microsoft Windows Server 2012 (64-bit)	\$848	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,472	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,472	80.00 GB HDD
VM-2753859_repl ica	Microsoft Windows Server 2012 (64-bit)	\$848	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,472	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,472	80.00 GB HDD
VM-2779962	Microsoft Windows Server 2008 R2 (64-bit)	\$1,201	n1-custom: 1 vCPU 2.00 GB vRAM	\$767	n1-custom: 1 vCPU 2.00 GB vRAM	\$767	280.00 GB HDD
VM-27839	Other Linux (32-bit)	\$605	n1-custom: 1 vCPU 1.00 GB vRAM	\$183	n1-custom: 1 vCPU 1.00 GB vRAM	\$183	1.00 GB HDD



Supported Instance Matches and Associated Cost (cont'd)

VM Name	Guest OS	On-Prem Cost	GCP As Configured		GCP Rightsized to 99th %-tile vCPU and Peak vRAM Usage		Storage
			Instance	Cost/yr	Instance	Cost/yr	
VM-27841	Other Linux (32-bit)	\$605	f1-micro	\$60	f1-micro	\$60	1.00 GB HDD
VM-2784331	Linux 3.10.0-957.el7.x86_64 CentOS Linux release ...	\$821	n1-custom: 1 vCPU 2.00 GB vRAM	\$261	n1-custom: 1 vCPU 2.00 GB vRAM	\$261	100.00 GB HDD
VM-2789983	Microsoft Windows Server 2012 (64-bit)	\$1,344	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,807	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,807	315.00 GB HDD
VM-2791617	Microsoft Windows Server 2012 (64-bit)	\$891	n2-standard-2	\$1,365	n2-standard-2	\$1,365	115.00 GB HDD
VM-2791618	Microsoft Windows Server 2012 (64-bit)	\$1,374	c2-standard-4	\$2,736	c2-standard-4	\$2,736	315.00 GB HDD
VM-2791620	Microsoft Windows Server 2012 (64-bit)	\$1,374	c2-standard-4	\$2,736	c2-standard-4	\$2,736	315.00 GB HDD
VM-2834268	Microsoft Windows Server 2012 (64-bit)	\$890	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,484	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,484	100.00 GB HDD
VM-2843498	Microsoft Windows Server 2012 (64-bit)	\$1,101	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,541	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,541	200.00 GB HDD
VM-2850134	Red Hat Enterprise Linux 6 (64-bit)	\$10,786	n2-custom: 12 vCPUs 80.00 GB vRAM	\$7,434	n2-custom: 12 vCPUs 80.00 GB vRAM	\$7,434	4.49 TB HDD
VM-2857443	Microsoft Windows Server 2012 (64-bit)	\$2,820	c2-standard-4	\$3,131	c2-standard-4	\$3,131	999.87 GB HDD
VM-2859232	Red Hat Enterprise Linux 6 (64-bit)	\$1,888	n2-custom: 2 vCPUs 12.00 GB vRAM	\$2,525	n2-custom: 2 vCPUs 12.00 GB vRAM	\$2,525	580.00 GB SSD
VM-2859238	Microsoft Windows Server 2008 R2 (64-bit)	\$2,560	n2-custom: 2 vCPUs 28.00 GB vRAM	\$2,833	n2-custom: 2 vCPUs 28.00 GB vRAM	\$2,833	870.00 GB HDD
VM-2859238_replica	Microsoft Windows Server 2008 R2 (64-bit)	\$2,560	n2-custom: 2 vCPUs 28.00 GB vRAM	\$2,833	n2-custom: 2 vCPUs 28.00 GB vRAM	\$2,833	870.00 GB HDD
VM-2859246	Microsoft Windows Server 2008 R2 (64-bit)	\$3,463	n2-custom: 2 vCPUs 24.00 GB vRAM	\$2,797	n2-custom: 2 vCPUs 24.00 GB vRAM	\$2,797	1.27 TB HDD
VM-2859253	Microsoft Windows Server 2008 R2 (64-bit)	\$1,704	n2-standard-2	\$1,587	n2-standard-2	\$1,587	500.00 GB HDD
VM-2859256	Microsoft Windows Server 2012 (64-bit)	\$737	n1-custom: 1 vCPU 2.00 GB vRAM	\$641	n1-custom: 1 vCPU 2.00 GB vRAM	\$641	60.00 GB HDD
VM-2859260	Microsoft Windows Server 2016 (64-bit)	\$739	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,335	n1-custom: 1 vCPU 4.00 GB vRAM	\$771	50.00 GB SSD
VM-2859262	Microsoft Windows Server 2012 (64-bit)	\$821	n1-highcpu-8	\$4,888	n1-highcpu-8	\$4,888	45.00 GB HDD
VM-2872248	Other 3.x or later Linux (64-bit)	\$1,260	n2-custom: 6 vCPUs 14.00 GB vRAM	\$1,875	n2-custom: 2 vCPUs 14.00 GB vRAM	\$1,234	250.00 GB SSD
VM-2874035	Microsoft Windows Server 2012 (64-bit)	\$1,765	c2-standard-4	\$2,843	c2-standard-4	\$2,843	500.00 GB HDD
VM-2876287	Microsoft Windows Server 2016 (64-bit)	\$785	n2-standard-2	\$1,458	n1-custom: 1 vCPU 7.00 GB vRAM	\$898	65.00 GB SSD
VM-2876288	Microsoft Windows Server 2016 (64-bit)	\$785	n2-standard-2	\$1,458	n1-custom: 1 vCPU 5.25 GB vRAM	\$835	65.00 GB SSD
VM-2876289	Microsoft Windows Server 2016 (64-bit)	\$8,478	n2-custom: 8 vCPUs 16.00 GB vRAM	\$13,786	n2-highmem-2	\$10,406	3.56 TB SSD
VM-2876291	Microsoft Windows Server 2016 (64-bit)	\$1,226	n2-custom: 12 vCPUs 56.00 GB vRAM	\$8,247	n2-custom: 10 vCPUs 56.00 GB vRAM	\$7,120	115.00 GB SSD
VM-2876293	Microsoft Windows Server 2012 (64-bit)	\$1,226	n2-custom: 12 vCPUs 56.00 GB vRAM	\$8,031	n2-custom: 12 vCPUs 56.00 GB vRAM	\$8,031	115.00 GB HDD
VM-2880486	Microsoft Windows Server 2012 (64-bit)	\$1,194	n2-custom: 10 vCPUs 36.00 GB vRAM	\$6,775	n2-custom: 8 vCPUs 36.00 GB vRAM	\$5,648	150.00 GB SSD



Supported Instance Matches and Associated Cost (cont'd)

VM Name	Guest OS	On-Prem Cost	GCP As Configured		GCP Rightsized to 99th %tile vCPU and Peak vRAM Usage		Storage
			Instance	Cost/yr	Instance	Cost/yr	
VM-2882132	Microsoft Windows Server 2012 (64-bit)	\$1,036	n2-custom: 6 vCPUs 16.00 GB vRAM	\$3,805	n2-custom: 6 vCPUs 16.00 GB vRAM	\$3,805	140.00 GB HDD
VM-288630	Microsoft Windows Server 2008 R2 (64-bit)	\$859	n2-standard-2	\$1,357	n2-standard-2	\$1,357	100.00 GB HDD
VM-288636	Microsoft Windows Server 2008 R2 (64-bit)	\$998	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,513	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,513	151.00 GB HDD
VM-2899373	Red Hat Enterprise Linux 6 (64-bit)	\$1,486	n2-custom: 2 vCPUs 8.00 GB vRAM	\$1,206	n2-custom: 2 vCPUs 8.00 GB vRAM	\$1,206	400.00 GB HDD
VM-2908607	Linux 4.19.52 Other Linux 4.x or later kernel	\$777	n2-standard-2	\$642	n2-custom: 2 vCPUs 4.75 GB vRAM	\$572	61.00 GB SSD
VM-2908762	Other 2.6.x Linux (32-bit)	\$751	n1-highcpu-2	\$395	n1-highcpu-2	\$395	61.00 GB HDD
VM-291688	Microsoft Windows Server 2012 (64-bit)	\$844	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,271	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,271	100.00 GB HDD
VM-292310	Microsoft Windows Server 2012 (64-bit)	\$2,080	n2-custom: 2 vCPUs 24.00 GB vRAM	\$2,419	n2-custom: 2 vCPUs 24.00 GB vRAM	\$2,419	650.00 GB HDD
VM-2950524	Microsoft Windows Server 2016 (64-bit)	\$815	c2-standard-4	\$2,677	n2-highmem-2	\$1,593	50.00 GB SSD
VM-2955565	Microsoft Windows Server 2012 (64-bit)	\$739	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,242	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,242	50.00 GB HDD
VM-2957012	Microsoft Windows Server 2012 (64-bit)	\$3,401	c2-standard-4	\$3,289	c2-standard-4	\$3,289	1.25 TB HDD
VM-2957014	Microsoft Windows Server 2012 (64-bit)	\$5,620	c2-standard-4	\$3,895	c2-standard-4	\$3,895	2.27 TB HDD
VM-2962951	Microsoft Windows Server 2012 (64-bit)	\$1,312	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,599	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,599	300.00 GB HDD
VM-29638	Microsoft Windows Server 2008 (32-bit)	\$739	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,335	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,335	50.00 GB SSD
VM-29655	Other Linux (32-bit)	\$605	n1-custom: 1 vCPU 1.00 GB vRAM	\$183	n1-custom: 1 vCPU 1.00 GB vRAM	\$183	1.00 GB HDD
VM-29663	Other Linux (32-bit)	\$605	n1-custom: 1 vCPU 1.00 GB vRAM	\$183	n1-custom: 1 vCPU 1.00 GB vRAM	\$183	1.00 GB HDD
VM-29677	Microsoft Windows Server 2003 (32-bit)	\$823	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,433	n1-custom: 1 vCPU 4.00 GB vRAM	\$869	90.00 GB SSD
VM-2998491	Microsoft Windows Server 2012 (64-bit)	\$696	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,230	n1-custom: 1 vCPU 2.25 GB vRAM	\$629	30.00 GB HDD
VM-2998594	Microsoft Windows Server 2008 R2 (64-bit)	\$2,641	n2-highcpu-8	\$5,197	n2-highcpu-8	\$5,197	900.00 GB HDD
VM-3004731	Microsoft Windows Server 2008 R2 (64-bit)	\$1,319	n2-highcpu-16	\$9,849	n2-highmem-2	\$1,963	201.00 GB SSD
VM-3008472	Microsoft Windows Server 2012 (64-bit)	\$1,306	n2-custom: 12 vCPUs 24.00 GB vRAM	\$7,791	n2-custom: 6 vCPUs 24.00 GB vRAM	\$4,410	210.00 GB SSD
VM-3008490	Microsoft Windows Server 2016 (64-bit)	\$832	n1-highcpu-8	\$4,784	n1-custom: 1 vCPU 4.00 GB vRAM	\$771	50.00 GB SSD
VM-3028160	Microsoft Windows Server 2012 (64-bit)	\$1,321	c2-standard-4	\$2,722	c2-standard-4	\$2,722	290.00 GB HDD
VM-3053071	Microsoft Windows Server 2012 (64-bit)	\$1,215	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,572	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,572	254.00 GB HDD
VM-3054687	Microsoft Windows Server 2016 (64-bit)	\$859	n2-standard-2	\$1,544	n1-custom: 1 vCPU 8.00 GB vRAM	\$1,056	100.00 GB SSD
VM-306002	Microsoft Windows Server 2012 (64-bit)	\$1,193	n2-custom: 8 vCPUs 16.00 GB vRAM	\$4,966	n2-custom: 8 vCPUs 16.00 GB vRAM	\$4,966	200.00 GB HDD



Supported Instance Matches and Associated Cost (cont'd)

VM Name	Guest OS	On-Prem Cost	GCP As Configured		GCP Rightsized to 99th %tile vCPU and Peak vRAM Usage		Storage
			Instance	Cost/yr	Instance	Cost/yr	
VM-3077900	Microsoft Windows Server 2012 (64-bit)	\$711	n2-standard-2	\$1,316	n2-standard-2	\$1,316	30.00 GB HDD
VM-3097587	FreeBSD (64-bit)	\$1,279	n2-standard-2	\$665	n2-standard-2	\$665	299.00 GB HDD
VM-3104113	Microsoft Windows Server 2012 (64-bit)	\$1,370	n1-custom: 1 vCPU 2.00 GB vRAM	\$813	n1-custom: 1 vCPU 2.00 GB vRAM	\$813	360.00 GB HDD
VM-3111843	Microsoft Windows Server 2012 (64-bit)	\$1,729	n2-standard-2	\$1,594	n2-standard-2	\$1,594	512.00 GB HDD
VM-3111845	Linux 4.9.194 NAME=Buildroot VERSION=2019.02.6 ID...	\$673	n2-standard-2	\$500	n1-custom: 1 vCPU 8.00 GB vRAM	\$415	12.00 GB HDD
VM-3113286	Microsoft Windows Server 2012 (64-bit)	\$910	n2-highcpu-8	\$4,725	n2-highcpu-8	\$4,725	80.00 GB HDD
VM-3126974	Microsoft Windows Server 2012 (64-bit)	\$760	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,248	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,248	60.00 GB HDD
VM-3154800	Microsoft Windows Server 2012 (64-bit)	\$1,226	n2-custom: 12 vCPUs 56.00 GB vRAM	\$8,031	n2-custom: 12 vCPUs 56.00 GB vRAM	\$8,031	115.00 GB HDD
VM-3154846	Microsoft Windows Server 2012 (64-bit)	\$1,226	n2-custom: 12 vCPUs 56.00 GB vRAM	\$8,031	n2-custom: 12 vCPUs 56.00 GB vRAM	\$8,031	115.00 GB HDD
VM-3155028	Microsoft Windows Server 2008 R2 (64-bit)	\$3,531	n2-custom: 10 vCPUs 40.00 GB vRAM	\$7,214	n2-custom: 10 vCPUs 40.00 GB vRAM	\$7,214	1.22 TB HDD
VM-3165806	Microsoft Windows Server 2012 (64-bit)	\$1,133	n2-custom: 6 vCPUs 56.00 GB vRAM	\$5,053	n2-custom: 6 vCPUs 56.00 GB vRAM	\$5,053	115.00 GB HDD
VM-3165880	Microsoft Windows Server 2016 (64-bit)	\$1,226	n2-custom: 12 vCPUs 56.00 GB vRAM	\$8,247	n2-custom: 12 vCPUs 56.00 GB vRAM	\$8,247	115.00 GB SSD
VM-3165924	Microsoft Windows Server 2012 (64-bit)	\$1,226	n2-custom: 12 vCPUs 56.00 GB vRAM	\$8,031	n2-custom: 12 vCPUs 56.00 GB vRAM	\$8,031	115.00 GB HDD
VM-3165996	Microsoft Windows Server 2016 (64-bit)	\$1,226	n2-custom: 12 vCPUs 56.00 GB vRAM	\$8,247	n2-custom: 12 vCPUs 56.00 GB vRAM	\$8,247	115.00 GB SSD
VM-3166011	Microsoft Windows Server 2016 (64-bit)	\$1,226	n2-custom: 12 vCPUs 56.00 GB vRAM	\$8,247	n2-custom: 12 vCPUs 56.00 GB vRAM	\$8,247	115.00 GB SSD
VM-3166012	Microsoft Windows Server 2012 (64-bit)	\$1,226	n2-custom: 12 vCPUs 56.00 GB vRAM	\$8,031	n2-custom: 12 vCPUs 56.00 GB vRAM	\$8,031	115.00 GB HDD
VM-3166030	Microsoft Windows Server 2016 (64-bit)	\$1,226	n2-custom: 12 vCPUs 56.00 GB vRAM	\$8,247	n2-custom: 8 vCPUs 56.00 GB vRAM	\$5,993	115.00 GB SSD
VM-3166088	Microsoft Windows Server 2012 (64-bit)	\$1,226	n2-custom: 12 vCPUs 56.00 GB vRAM	\$8,031	n2-custom: 12 vCPUs 56.00 GB vRAM	\$8,031	115.00 GB HDD
VM-3166089	Microsoft Windows Server 2016 (64-bit)	\$1,226	n2-custom: 12 vCPUs 56.00 GB vRAM	\$8,247	n2-custom: 12 vCPUs 56.00 GB vRAM	\$8,247	115.00 GB SSD
VM-3166090	Microsoft Windows Server 2016 (64-bit)	\$1,226	n2-custom: 12 vCPUs 56.00 GB vRAM	\$8,247	n2-custom: 8 vCPUs 56.00 GB vRAM	\$5,993	115.00 GB SSD
VM-3166252	Microsoft Windows Server 2016 (64-bit)	\$1,226	n2-custom: 12 vCPUs 56.00 GB vRAM	\$8,247	n2-custom: 8 vCPUs 56.00 GB vRAM	\$5,993	115.00 GB SSD
VM-3166571	Other Linux (32-bit)	\$605	n1-custom: 1 vCPU 1.00 GB vRAM	\$183	n1-custom: 1 vCPU 1.00 GB vRAM	\$183	1.00 GB HDD
VM-3167564	Other Linux (32-bit)	\$605	n1-custom: 1 vCPU 1.00 GB vRAM	\$183	n1-custom: 1 vCPU 1.00 GB vRAM	\$183	1.00 GB HDD
VM-316838	Debian GNU/Linux 6 (64-bit)	\$610	n1-custom: 1 vCPU 1.00 GB vRAM	\$183	n1-custom: 1 vCPU 1.00 GB vRAM	\$183	2.00 GB HDD
VM-316849	Debian GNU/Linux 6 (64-bit)	\$652	n1-custom: 1 vCPU 1.00 GB vRAM	\$195	n1-custom: 1 vCPU 1.00 GB vRAM	\$195	22.00 GB HDD
VM-316859	Debian GNU/Linux 6 (64-bit)	\$610	n1-custom: 1 vCPU 1.00 GB vRAM	\$183	n1-custom: 1 vCPU 1.00 GB vRAM	\$183	2.00 GB HDD



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Supported Instance Matches and Associated Cost (cont'd)

VM Name	Guest OS	On-Prem Cost	GCP As Configured		GCP Rightsized to 99th %tile vCPU and Peak vRAM Usage		Storage
			Instance	Cost/yr	Instance	Cost/yr	
VM-316861	Debian GNU/Linux 6 (64-bit)	\$610	n1-custom: 1 vCPU 1.00 GB vRAM	\$183	n1-custom: 1 vCPU 1.00 GB vRAM	\$183	2.00 GB HDD
VM-316862	Debian GNU/Linux 6 (64-bit)	\$610	n1-custom: 1 vCPU 1.00 GB vRAM	\$183	n1-custom: 1 vCPU 1.00 GB vRAM	\$183	2.00 GB HDD
VM-316898	Debian GNU/Linux 6 (64-bit)	\$610	n1-custom: 1 vCPU 1.00 GB vRAM	\$183	n1-custom: 1 vCPU 1.00 GB vRAM	\$183	2.00 GB HDD
VM-316900	Debian GNU/Linux 6 (64-bit)	\$610	n1-custom: 1 vCPU 1.00 GB vRAM	\$183	n1-custom: 1 vCPU 1.00 GB vRAM	\$183	2.00 GB HDD
VM-3169289	Microsoft Windows Server 2012 (64-bit)	\$785	n2-standard-2	\$1,336	n2-standard-2	\$1,336	65.00 GB HDD
VM-3178933	Microsoft Windows Server 2012 (64-bit)	\$8,355	n2-standard-2	\$3,401	n2-standard-2	\$3,401	3.56 TB HDD
VM-31791	Microsoft Windows Server 2008 R2 (64-bit)	\$1,689	n2-custom: 8 vCPUs 16.00 GB vRAM	\$5,916	c2-standard-4	\$3,620	435.00 GB SSD
VM-3188801	Microsoft Windows Server 2016 (64-bit)	\$763	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,524	n1-custom: 1 vCPU 8.00 GB vRAM	\$909	40.00 GB SSD
VM-3188949	Other Linux (32-bit)	\$605	n1-custom: 1 vCPU 1.00 GB vRAM	\$183	n1-custom: 1 vCPU 1.00 GB vRAM	\$183	1.00 GB HDD
VM-3213330	Ubuntu Linux (64-bit)	\$721	n2-custom: 4 vCPUs 8.00 GB vRAM	\$826	n2-custom: 4 vCPUs 8.00 GB vRAM	\$826	20.00 GB HDD
VM-3214649	Red Hat Enterprise Linux 6 (64-bit)	\$785	n2-custom: 4 vCPUs 8.00 GB vRAM	\$1,369	n2-custom: 4 vCPUs 8.00 GB vRAM	\$1,369	50.00 GB HDD
VM-3226386	Microsoft Windows Server 2016 (64-bit)	\$3,698	n2-custom: 4 vCPUs 8.00 GB vRAM	\$3,250	n2-custom: 4 vCPUs 8.00 GB vRAM	\$3,250	1.40 TB HDD
VM-3231883	Microsoft Windows Server 2012 (64-bit)	\$785	n2-standard-2	\$1,336	n2-standard-2	\$1,336	65.00 GB HDD
VM-3231989	Red Hat Enterprise Linux 6 (64-bit)	\$610	n1-custom: 1 vCPU 2.00 GB vRAM	\$729	n1-custom: 1 vCPU 2.00 GB vRAM	\$729	100.00 MB HDD
VM-3232100	Microsoft Windows Server 2012 (64-bit)	\$1,226	n2-custom: 12 vCPUs 56.00 GB vRAM	\$8,031	n2-custom: 12 vCPUs 56.00 GB vRAM	\$8,031	115.00 GB HDD
VM-3232119	Microsoft Windows Server 2012 (64-bit)	\$1,226	n2-custom: 12 vCPUs 56.00 GB vRAM	\$8,031	n2-custom: 12 vCPUs 56.00 GB vRAM	\$8,031	115.00 GB HDD
VM-3233309	Microsoft Windows Server 2016 (64-bit)	\$1,226	n2-custom: 12 vCPUs 56.00 GB vRAM	\$8,247	n2-custom: 8 vCPUs 56.00 GB vRAM	\$5,993	115.00 GB SSD
VM-3266163	Ubuntu Linux (64-bit)	\$1,227	n2-custom: 4 vCPUs 8.00 GB vRAM	\$964	n2-custom: 4 vCPUs 8.00 GB vRAM	\$964	260.19 GB HDD
VM-3270565	Linux 3.10.0-957.el7.x86_64 CentOS Linux release ...	\$739	n2-custom: 2 vCPUs 4.00 GB vRAM	\$529	n1-custom: 1 vCPU 4.00 GB vRAM	\$368	50.00 GB SSD
VM-3277408	Microsoft Windows Server 2012 (64-bit)	\$6,188	n2-custom: 8 vCPUs 72.00 GB vRAM	\$7,877	n2-custom: 8 vCPUs 72.00 GB vRAM	\$7,877	2.41 TB HDD
VM-3279807	Red Hat Enterprise Linux 6 (64-bit)	\$10,786	n2-custom: 12 vCPUs 80.00 GB vRAM	\$7,434	n2-custom: 12 vCPUs 80.00 GB vRAM	\$7,434	4.49 TB HDD
VM-3281612	Microsoft Windows Server 2012 (64-bit)	\$1,017	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,518	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,518	160.00 GB HDD
VM-3285700	Microsoft Windows Server 2003 (64-bit)	\$4,953	c2-standard-8	\$6,233	c2-standard-8	\$6,233	1.91 TB HDD
VM-3287570	Microsoft Windows Server 2003 Standard (32-bit)	\$646	n1-custom: 1 vCPU 1.00 GB vRAM	\$597	n1-custom: 1 vCPU 1.00 GB vRAM	\$597	20.00 GB HDD
VM-3290192	Microsoft Windows Server 2008 R2 (64-bit)	\$1,453	n1-highcpu-16	\$9,483	n1-highcpu-16	\$9,483	278.47 GB HDD
VM-3292745	Microsoft Windows Server 2012 (64-bit)	\$769	n2-highcpu-4	\$2,462	n1-custom: 1 vCPU 4.00 GB vRAM	\$771	49.87 GB SSD



Supported Instance Matches and Associated Cost (cont'd)

VM Name	Guest OS	On-Prem Cost	GCP As Configured		GCP Rightsized to 99th %tile vCPU and Peak vRAM Usage		Storage
			Instance	Cost/yr	Instance	Cost/yr	
VM-3292780	Microsoft Windows Server 2008 R2 (64-bit)	\$718	n1-custom: 1 vCPU 2.00 GB vRAM	\$728	n1-custom: 1 vCPU 2.00 GB vRAM	\$728	50.00 GB SSD
VM-3294939	Microsoft Windows Server 2012 (64-bit)	\$2,641	n2-highcpu-8	\$5,197	n2-highcpu-8	\$5,197	900.00 GB HDD
VM-3296304	Microsoft Windows Server 2008 R2 (64-bit)	\$995	n2-highmem-2	\$1,838	n2-highmem-2	\$1,838	150.00 GB SSD
VM-3296306	Microsoft Windows Server 2008 R2 (64-bit)	\$995	n2-highmem-2	\$1,838	n2-highmem-2	\$1,838	150.00 GB SSD
VM-3296345	Microsoft Windows Server 2008 R2 (64-bit)	\$995	n2-highmem-2	\$1,838	n2-highmem-2	\$1,838	150.00 GB SSD
VM-3296500	Microsoft Windows Server 2008 R2 (64-bit)	\$995	n2-highmem-2	\$1,838	n2-highmem-2	\$1,838	150.00 GB SSD
VM-3296507	Microsoft Windows Server 2008 R2 (64-bit)	\$995	n2-highmem-2	\$1,838	n2-custom: 2 vCPUs 15.75 GB vRAM	\$1,832	150.00 GB SSD
VM-3296509	Microsoft Windows Server 2008 R2 (64-bit)	\$995	n2-highmem-2	\$1,838	n2-highmem-2	\$1,838	150.00 GB SSD
VM-3296854	Linux 4.7.4Zerto+ Debian GNU/Linux 8.5 (jessie)	\$1,405	n1-custom: 1 vCPU 3.00 GB vRAM	\$1,142	n1-custom: 1 vCPU 3.00 GB vRAM	\$1,142	374.52 GB SSD
VM-3296907	Microsoft Windows Server 2008 R2 (64-bit)	\$754	n2-standard-2	\$1,421	n1-custom: 1 vCPU 8.00 GB vRAM	\$933	50.00 GB SSD
VM-3296911	Microsoft Windows Server 2008 R2 (64-bit)	\$2,036	n2-highmem-4	\$4,411	n2-custom: 2 vCPUs 32.00 GB vRAM	\$4,089	600.00 GB SSD
VM-3297124	Microsoft Windows Server 2012 (64-bit)	\$1,016	n2-highmem-2	\$1,862	n1-custom: 1 vCPU 14.25 GB vRAM	\$1,651	159.87 GB SSD
VM-3297133	Microsoft Windows Server 2008 R2 (64-bit)	\$1,311	n2-highmem-2	\$2,205	n2-highmem-2	\$2,205	300.00 GB SSD
VM-3297554	Linux 4.7.4Zerto+ Debian GNU/Linux 8.5 (jessie)	\$640	n1-custom: 1 vCPU 3.00 GB vRAM	\$256	n1-custom: 1 vCPU 3.00 GB vRAM	\$256	12.50 GB SSD
VM-3297571	Microsoft Windows Server 2008 R2 (64-bit)	\$1,286	n2-highmem-2	\$2,176	n2-highmem-2	\$2,176	288.00 GB SSD
VM-3297762	Microsoft Windows Server 2012 (64-bit)	\$717	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,311	n1-custom: 1 vCPU 3.25 GB vRAM	\$731	40.00 GB SSD
VM-3297777	Microsoft Windows Server 2012 (64-bit)	\$717	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,311	n1-custom: 1 vCPU 3.50 GB vRAM	\$737	40.00 GB SSD
VM-3298183	Microsoft Windows Server 2008 R2 (64-bit)	\$952	n2-highcpu-8	\$4,924	n2-standard-2	\$1,544	100.00 GB SSD
VM-3298301	Microsoft Windows Server 2012 (64-bit)	\$812	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,421	n1-custom: 1 vCPU 4.00 GB vRAM	\$857	85.00 GB SSD
VM-3298337	Microsoft Windows Server 2012 (64-bit)	\$849	n2-standard-2	\$1,532	n1-custom: 1 vCPU 5.25 GB vRAM	\$909	95.00 GB SSD
VM-3298352	Microsoft Windows Server 2012 (64-bit)	\$847	n2-highcpu-8	\$4,801	n2-custom: 2 vCPUs 6.00 GB vRAM	\$1,378	50.00 GB SSD
VM-3298359	Microsoft Windows Server 2008 R2 (64-bit)	\$917	n1-highcpu-8	\$4,884	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,435	90.50 GB SSD
VM-3298381	Microsoft Windows Server 2008 R2 (64-bit)	\$912	n2-highcpu-8	\$4,877	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,624	81.00 GB SSD
VM-3298667	Microsoft Windows Server 2008 R2 (64-bit)	\$1,827	n2-highmem-4	\$4,168	n2-highmem-4	\$4,168	501.00 GB SSD
VM-3298827	Other Linux (32-bit)	\$673	n1-custom: 1 vCPU 2.00 GB vRAM	\$220	n1-custom: 1 vCPU 2.00 GB vRAM	\$220	30.00 GB HDD
VM-3298913	Microsoft Windows Server 2008 R2 (64-bit)	\$791	n2-highcpu-4	\$2,487	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,360	60.00 GB SSD



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Supported Instance Matches and Associated Cost (cont'd)

VM Name	Guest OS	On-Prem Cost	GCP As Configured		GCP Rightsized to 99th %tile vCPU and Peak vRAM Usage		Storage
			Instance	Cost/yr	Instance	Cost/yr	
VM-3298938	Microsoft Windows Server 2008 R2 (64-bit)	\$891	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,672	n2-standard-2	\$1,545	100.50 GB SSD
VM-3298975	Other Linux (32-bit)	\$673	n1-custom: 1 vCPU 2.00 GB vRAM	\$220	n1-custom: 1 vCPU 2.00 GB vRAM	\$220	30.00 GB HDD
VM-3298980	Other Linux (32-bit)	\$673	n1-custom: 1 vCPU 2.00 GB vRAM	\$276	n1-custom: 1 vCPU 1.00 GB vRAM	\$255	30.00 GB SSD
VM-3300384	Linux 4.7.4Zerto+ Debian GNU/Linux 8.5 (jessie)	\$640	n1-custom: 1 vCPU 3.00 GB vRAM	\$256	n1-custom: 1 vCPU 2.75 GB vRAM	\$251	12.50 GB SSD
VM-3300385	Linux 4.7.4Zerto+ Debian GNU/Linux 8.5 (jessie)	\$640	n1-custom: 1 vCPU 3.00 GB vRAM	\$256	n1-custom: 1 vCPU 2.50 GB vRAM	\$245	12.50 GB SSD
VM-3300386	Linux 4.7.4Zerto+ Debian GNU/Linux 8.5 (jessie)	\$640	n1-custom: 1 vCPU 3.00 GB vRAM	\$256	n1-custom: 1 vCPU 2.50 GB vRAM	\$245	12.50 GB SSD
VM-3300543	Linux 4.7.4Zerto+ Debian GNU/Linux 8.5 (jessie)	\$640	n1-custom: 1 vCPU 3.00 GB vRAM	\$256	n1-custom: 1 vCPU 2.50 GB vRAM	\$245	12.50 GB SSD
VM-3300550	Linux 4.7.4Zerto+ Debian GNU/Linux 8.5 (jessie)	\$640	n1-custom: 1 vCPU 3.00 GB vRAM	\$256	n1-custom: 1 vCPU 2.50 GB vRAM	\$245	12.50 GB SSD
VM-3300551	Linux 4.7.4Zerto+ Debian GNU/Linux 8.5 (jessie)	\$2,752	n1-custom: 1 vCPU 3.00 GB vRAM	\$2,704	n1-custom: 1 vCPU 2.75 GB vRAM	\$2,699	0.99 TB SSD
VM-3300577	Microsoft Windows Server 2008 R2 (64-bit)	\$1,327	n2-custom: 4 vCPUs 12.00 GB vRAM	\$3,246	n2-custom: 2 vCPUs 10.50 GB vRAM	\$2,087	300.00 GB SSD
VM-3300581	Linux 4.7.4Zerto+ Debian GNU/Linux 8.5 (jessie)	\$640	n1-custom: 1 vCPU 3.00 GB vRAM	\$256	n1-custom: 1 vCPU 2.50 GB vRAM	\$245	12.50 GB SSD
VM-3300830	Red Hat Enterprise Linux 5 (32-bit)	\$664	n1-highcpu-2	\$935	f1-micro	\$634	20.00 GB SSD
VM-3300832	Microsoft Windows Server 2016 (64-bit)	\$739	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,335	n1-custom: 1 vCPU 4.00 GB vRAM	\$771	50.00 GB SSD
VM-3300877	Microsoft Windows Server 2008 R2 (64-bit)	\$1,603	n2-highcpu-8	\$4,914	n2-highcpu-8	\$4,914	408.38 GB HDD
VM-34462	Microsoft Windows Server 2008 R2 (64-bit)	\$932	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,495	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,495	120.00 GB HDD
VM-383335	Microsoft Windows Server 2008 R2 (64-bit)	\$1,017	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,518	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,518	160.00 GB HDD
VM-383336	Microsoft Windows Server 2008 R2 (64-bit)	\$950	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,299	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,299	150.00 GB HDD
VM-394946	SUSE Linux Enterprise 11 (64-bit)	\$648	n1-standard-1	\$1,242	n1-standard-1	\$1,242	15.00 GB SSD
VM-40218	Red Hat Enterprise Linux 6 (64-bit)	\$1,122	n2-custom: 4 vCPUs 8.00 GB vRAM	\$1,461	n2-custom: 4 vCPUs 8.00 GB vRAM	\$1,461	210.00 GB HDD
VM-404209	Red Hat Enterprise Linux 6 (64-bit)	\$739	n2-custom: 2 vCPUs 4.00 GB vRAM	\$962	n2-custom: 2 vCPUs 4.00 GB vRAM	\$962	50.00 GB HDD
VM-410221	CentOS 4/5/6/7 (64-bit)	\$673	n1-custom: 1 vCPU 2.00 GB vRAM	\$276	n1-custom: 1 vCPU 2.00 GB vRAM	\$276	30.00 GB SSD
VM-411074	Microsoft Windows Server 2012 (64-bit)	\$2,955	n2-custom: 2 vCPUs 32.00 GB vRAM	\$3,225	n2-custom: 2 vCPUs 32.00 GB vRAM	\$3,225	1.03 TB HDD
VM-414301	Microsoft Windows Server 2012 (64-bit)	\$889	n2-highmem-2	\$1,529	n2-highmem-2	\$1,529	100.00 GB HDD
VM-414310	Microsoft Windows Server 2012 (64-bit)	\$739	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,242	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,242	50.00 GB HDD
VM-414310_repli_ca	Microsoft Windows Server 2012 (64-bit)	\$739	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,242	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,242	50.00 GB HDD
VM-414312	Microsoft Windows Server 2012 (64-bit)	\$739	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,242	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,242	50.00 GB HDD



Supported Instance Matches and Associated Cost (cont'd)

VM Name	Guest OS	On-Prem Cost	GCP As Configured		GCP Rightsized to 99th %tile vCPU and Peak vRAM Usage		Storage
			Instance	Cost/yr	Instance	Cost/yr	
VM-414313	Microsoft Windows Server 2012 (64-bit)	\$694	n1-custom: 1 vCPU 2.00 GB vRAM	\$629	n1-custom: 1 vCPU 2.00 GB vRAM	\$629	40.00 GB HDD
VM-414370	Microsoft Windows Server 2012 (64-bit)	\$1,070	n2-standard-2	\$1,789	n1-custom: 1 vCPU 8.00 GB vRAM	\$1,301	200.00 GB SSD
VM-414376	Microsoft Windows Server 2012 (64-bit)	\$1,070	n2-standard-2	\$1,789	n1-custom: 1 vCPU 8.00 GB vRAM	\$1,301	200.00 GB SSD
VM-424801	Microsoft Windows Server 2012 (64-bit)	\$2,793	n2-custom: 4 vCPUs 64.00 GB vRAM	\$5,759	n2-custom: 4 vCPUs 64.00 GB vRAM	\$5,759	902.00 GB HDD
VM-427165	Microsoft Windows Server 2012 (64-bit)	\$802	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,259	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,259	80.00 GB HDD
VM-427167	Microsoft Windows Server 2012 (64-bit)	\$802	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,259	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,259	80.00 GB HDD
VM-427168	Microsoft Windows Server 2012 (64-bit)	\$802	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,259	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,259	80.00 GB HDD
VM-427172	Microsoft Windows Server 2012 (64-bit)	\$802	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,259	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,259	80.00 GB HDD
VM-427174	Microsoft Windows Server 2012 (64-bit)	\$920	c2-standard-4	\$2,613	c2-standard-4	\$2,613	100.00 GB HDD
VM-427185	Microsoft Windows Server 2012 (64-bit)	\$920	c2-standard-4	\$2,613	c2-standard-4	\$2,613	100.00 GB HDD
VM-427186	Microsoft Windows Server 2012 (64-bit)	\$848	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,472	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,472	80.00 GB HDD
VM-427187	Microsoft Windows Server 2012 (64-bit)	\$781	n1-custom: 1 vCPU 2.00 GB vRAM	\$653	n1-custom: 1 vCPU 2.00 GB vRAM	\$653	81.00 GB HDD
VM-428148	Microsoft Windows Server 2012 (64-bit)	\$965	n2-standard-2	\$1,866	n1-custom: 1 vCPU 8.00 GB vRAM	\$1,178	150.00 GB SSD
VM-428150	Microsoft Windows Server 2012 (64-bit)	\$965	n2-standard-2	\$1,866	n1-custom: 1 vCPU 8.00 GB vRAM	\$1,178	150.00 GB SSD
VM-433972	Microsoft Windows Server 2012 (64-bit)	\$920	c2-standard-4	\$2,613	c2-standard-4	\$2,613	100.00 GB HDD
VM-433973	Microsoft Windows Server 2012 (64-bit)	\$890	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,484	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,484	100.00 GB HDD
VM-442584	Microsoft Windows Server 2008 R2 (64-bit)	\$1,028	n2-standard-2	\$1,740	n1-custom: 1 vCPU 8.00 GB vRAM	\$1,252	180.00 GB SSD
VM-442587	Microsoft Windows Server 2008 R2 (64-bit)	\$965	n2-standard-2	\$1,866	n1-custom: 1 vCPU 8.00 GB vRAM	\$1,178	150.00 GB SSD
VM-444	Microsoft Windows Server 2003 Standard (32-bit)	\$1,294	n1-custom: 1 vCPU 4.00 GB vRAM	\$833	n1-custom: 1 vCPU 4.00 GB vRAM	\$833	320.00 GB HDD
VM-444328	Other 2.6.x Linux (64-bit)	\$1,421	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,320	n1-custom: 1 vCPU 4.00 GB vRAM	\$1,159	373.00 GB SSD
VM-446044	Microsoft Windows Server 2012 (64-bit)	\$737	n1-custom: 1 vCPU 2.00 GB vRAM	\$641	n1-custom: 1 vCPU 2.00 GB vRAM	\$641	60.00 GB HDD
VM-446044_repli_ca	Microsoft Windows Server 2012 (64-bit)	\$737	n1-custom: 1 vCPU 2.00 GB vRAM	\$641	n1-custom: 1 vCPU 2.00 GB vRAM	\$641	60.00 GB HDD
VM-448619	Microsoft Windows Server 2008 R2 (64-bit)	\$950	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,299	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,299	150.00 GB HDD
VM-454902	Microsoft Windows Server 2012 (64-bit)	\$890	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,484	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,484	100.00 GB HDD
VM-454909	Microsoft Windows Server 2012 (64-bit)	\$802	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,259	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,259	80.00 GB HDD
VM-454918	Microsoft Windows Server 2012 (64-bit)	\$848	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,472	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,472	80.00 GB HDD



Supported Instance Matches and Associated Cost (cont'd)

VM Name	Guest OS	On-Prem Cost	GCP As Configured		GCP Rightsized to 99th %tile vCPU and Peak vRAM Usage		Storage
			Instance	Cost/yr	Instance	Cost/yr	
VM-454929	Microsoft Windows Server 2012 (64-bit)	\$844	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,271	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,271	100.00 GB HDD
VM-454931	Microsoft Windows Server 2012 (64-bit)	\$844	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,271	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,271	100.00 GB HDD
VM-458	Microsoft Windows Server 2003 Standard (32-bit)	\$1,704	n2-standard-2	\$1,587	n2-standard-2	\$1,587	500.00 GB HDD
VM-466101	FreeBSD (64-bit)	\$668	n2-highcpu-2	\$376	n2-highcpu-2	\$376	20.00 GB HDD
VM-46779	Red Hat Enterprise Linux 6 (64-bit)	\$1,600	n2-custom: 6 vCPUs 20.00 GB vRAM	\$2,761	n2-custom: 6 vCPUs 20.00 GB vRAM	\$2,761	400.00 GB HDD
VM-473751	Microsoft Windows Server 2012 (64-bit)	\$1,161	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,357	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,357	250.00 GB HDD
VM-473751_repli ca	Microsoft Windows Server 2012 (64-bit)	\$1,161	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,357	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,357	250.00 GB HDD
VM-475540	Microsoft Windows Server 2012 (64-bit)	\$760	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,248	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,248	60.00 GB HDD
VM-475540_repli ca	Microsoft Windows Server 2012 (64-bit)	\$760	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,248	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,248	60.00 GB HDD
VM-480495	Microsoft Windows Server 2008 R2 (64-bit)	\$868	n2-highcpu-8	\$4,826	n1-custom: 1 vCPU 8.00 GB vRAM	\$958	60.00 GB SSD
VM-491139	Microsoft Windows Server 2008 R2 (64-bit)	\$847	n2-highcpu-8	\$4,801	n1-custom: 1 vCPU 8.00 GB vRAM	\$933	50.00 GB SSD
VM-492086	Microsoft Windows Server 2012 (64-bit)	\$694	n1-custom: 1 vCPU 2.00 GB vRAM	\$629	n1-custom: 1 vCPU 2.00 GB vRAM	\$629	40.00 GB HDD
VM-515883	Microsoft Windows Server 2012 (64-bit)	\$889	n2-highmem-2	\$1,529	n2-highmem-2	\$1,529	100.00 GB HDD
VM-515883_repli ca	Microsoft Windows Server 2012 (64-bit)	\$889	n2-highmem-2	\$1,529	n2-highmem-2	\$1,529	100.00 GB HDD
VM-515885	Microsoft Windows Server 2012 (64-bit)	\$889	n2-highmem-2	\$1,529	n2-highmem-2	\$1,529	100.00 GB HDD
VM-515885_repli ca	Microsoft Windows Server 2012 (64-bit)	\$889	n2-highmem-2	\$1,529	n2-highmem-2	\$1,529	100.00 GB HDD
VM-515886	Microsoft Windows Server 2012 (64-bit)	\$889	n2-highmem-2	\$1,529	n2-highmem-2	\$1,529	100.00 GB HDD
VM-515886_repli ca	Microsoft Windows Server 2012 (64-bit)	\$889	n2-highmem-2	\$1,529	n2-highmem-2	\$1,529	100.00 GB HDD
VM-515887	Microsoft Windows Server 2012 (64-bit)	\$844	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,271	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,271	100.00 GB HDD
VM-515887_repli ca	Microsoft Windows Server 2012 (64-bit)	\$844	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,271	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,271	100.00 GB HDD
VM-515888	Microsoft Windows Server 2012 (64-bit)	\$760	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,248	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,248	60.00 GB HDD
VM-515888_repli ca	Microsoft Windows Server 2012 (64-bit)	\$760	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,248	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,248	60.00 GB HDD
VM-529692	Microsoft Windows Server 2012 (64-bit)	\$859	n2-standard-2	\$1,357	n2-standard-2	\$1,357	100.00 GB HDD
VM-567854	Microsoft Windows Server 2008 R2 (64-bit)	\$982	n2-custom: 8 vCPUs 16.00 GB vRAM	\$4,909	n2-custom: 8 vCPUs 16.00 GB vRAM	\$4,909	100.00 GB HDD
VM-567855	Microsoft Windows Server 2008 R2 (64-bit)	\$952	n2-highcpu-8	\$4,737	n2-highcpu-8	\$4,737	100.00 GB HDD
VM-567856	Microsoft Windows Server 2008 R2 (64-bit)	\$996	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,512	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,512	150.00 GB HDD



Supported Instance Matches and Associated Cost (cont'd)

VM Name	Guest OS	On-Prem Cost	GCP As Configured		GCP Rightsized to 99th %tile vCPU and Peak vRAM Usage		Storage
			Instance	Cost/yr	Instance	Cost/yr	
VM-567857	Microsoft Windows Server 2008 R2 (64-bit)	\$1,101	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,541	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,541	200.00 GB HDD
VM-587917	Microsoft Windows Server 2012 (64-bit)	\$2,203	c2-standard-8	\$5,483	c2-standard-8	\$5,483	650.00 GB HDD
VM-59849	Other Linux (32-bit)	\$605	n1-custom: 1 vCPU 1.00 GB vRAM	\$183	n1-custom: 1 vCPU 1.00 GB vRAM	\$183	1.00 GB HDD
VM-603018	Microsoft Windows Server 2012 (64-bit)	\$952	n2-highcpu-8	\$4,737	n2-highcpu-8	\$4,737	100.00 GB HDD
VM-603018_repli ca	Microsoft Windows Server 2012 (64-bit)	\$952	n2-highcpu-8	\$4,737	n2-highcpu-8	\$4,737	100.00 GB HDD
VM-603021	Microsoft Windows Server 2012 (64-bit)	\$952	n2-highcpu-8	\$4,737	n2-highcpu-8	\$4,737	100.00 GB HDD
VM-603021_repli ca	Microsoft Windows Server 2012 (64-bit)	\$952	n2-highcpu-8	\$4,737	n2-highcpu-8	\$4,737	100.00 GB HDD
VM-606042	Microsoft Windows Server 2008 R2 (64-bit)	\$922	c2-standard-4	\$2,613	c2-standard-4	\$2,613	101.00 GB HDD
VM-606043	Microsoft Windows Server 2008 R2 (64-bit)	\$890	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,484	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,484	100.00 GB HDD
VM-6066	Other Linux (32-bit)	\$605	n1-custom: 1 vCPU 1.00 GB vRAM	\$183	n1-custom: 1 vCPU 1.00 GB vRAM	\$183	1.00 GB HDD
VM-613266	Microsoft Windows Server 2012 (64-bit)	\$3,077	n2-custom: 4 vCPUs 30.00 GB vRAM	\$3,531	n2-custom: 4 vCPUs 30.00 GB vRAM	\$3,531	1.07 TB HDD
VM-616420	Microsoft Windows Server 2012 (64-bit)	\$696	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,286	n1-custom: 1 vCPU 4.00 GB vRAM	\$722	30.00 GB SSD
VM-62797	Microsoft Windows Server 2008 R2 (64-bit)	\$984	n2-custom: 8 vCPUs 16.00 GB vRAM	\$4,909	n2-custom: 8 vCPUs 16.00 GB vRAM	\$4,909	101.00 GB HDD
VM-62803	Microsoft Windows Server 2008 R2 (64-bit)	\$1,133	c2-standard-4	\$3,047	n2-highmem-2	\$1,963	201.00 GB SSD
VM-62887	Microsoft Windows Server 2008 R2 (64-bit)	\$937	n1-highcpu-8	\$4,720	n1-highcpu-8	\$4,720	100.00 GB HDD
VM-62889	Microsoft Windows Server 2008 R2 (64-bit)	\$1,101	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,541	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,541	200.00 GB HDD
VM-640366	Microsoft Windows Server 2012 (64-bit)	\$4,120	n2-highmem-2	\$5,461	n2-highmem-2	\$5,461	1.59 TB SSD
VM-64058	Microsoft Windows Server 2008 R2 (64-bit)	\$996	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,512	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,512	150.00 GB HDD
VM-64060	Microsoft Windows Server 2008 R2 (64-bit)	\$1,101	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,541	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,541	200.00 GB HDD
VM-641234	Microsoft Windows Server 2012 (64-bit)	\$7,756	n2-highmem-4	\$4,848	n2-highmem-4	\$4,848	3.23 TB HDD
VM-641243	Microsoft Windows Server 2012 (64-bit)	\$1,055	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,328	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,328	200.00 GB HDD
VM-641245	Microsoft Windows Server 2012 (64-bit)	\$890	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,484	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,484	99.87 GB HDD
VM-641247	Microsoft Windows Server 2012 (64-bit)	\$848	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,472	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,472	80.00 GB HDD
VM-641263	Microsoft Windows Server 2008 R2 (64-bit)	\$2,309	n2-custom: 2 vCPUs 28.00 GB vRAM	\$4,170	n2-custom: 2 vCPUs 28.00 GB vRAM	\$4,170	751.00 GB SSD
VM-651445	Microsoft Windows Server 2012 (64-bit)	\$779	n1-custom: 1 vCPU 2.00 GB vRAM	\$652	n1-custom: 1 vCPU 2.00 GB vRAM	\$652	80.00 GB HDD
VM-659384	Microsoft Windows Server 2008 R2 (64-bit)	\$3,059	n2-custom: 6 vCPUs 32.00 GB vRAM	\$4,684	n2-custom: 6 vCPUs 32.00 GB vRAM	\$4,684	1.04 TB HDD



Supported Instance Matches and Associated Cost (cont'd)

VM Name	Guest OS	On-Prem Cost	GCP As Configured		GCP Rightsized to 99th %tile vCPU and Peak vRAM Usage		Storage
			Instance	Cost/yr	Instance	Cost/yr	
VM-692065	Microsoft Windows Server 2012 (64-bit)	\$993	n2-custom: 6 vCPUs 16.00 GB vRAM	\$4,018	n2-custom: 6 vCPUs 16.00 GB vRAM	\$4,018	120.00 GB SSD
VM-702	Other Linux (32-bit)	\$737	n1-custom: 1 vCPU 2.00 GB vRAM	\$238	n1-custom: 1 vCPU 2.00 GB vRAM	\$238	60.00 GB HDD
VM-704404	Ubuntu Linux (64-bit)	\$1,227	n2-custom: 4 vCPUs 8.00 GB vRAM	\$964	n2-custom: 4 vCPUs 8.00 GB vRAM	\$964	260.19 GB HDD
VM-707	CentOS 4/5/6 (32-bit)	\$772	f1-micro	\$255	f1-micro	\$255	80.00 GB SSD
VM-71265	Microsoft Windows Server 2008 (32-bit)	\$2,911	n2-custom: 6 vCPUs 32.00 GB vRAM	\$6,516	n2-custom: 6 vCPUs 32.00 GB vRAM	\$6,516	0.98 TB SSD
VM-718579	Microsoft Windows Server 2008 R2 (64-bit)	\$1,361	c2-standard-8	\$5,254	c2-standard-8	\$5,254	251.00 GB HDD
VM-718580	Microsoft Windows Server 2008 R2 (64-bit)	\$1,315	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,599	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,599	301.00 GB HDD
VM-727872	Microsoft Windows Server 2012 (64-bit)	\$3,332	n2-custom: 4 vCPUs 96.00 GB vRAM	\$8,171	n2-custom: 4 vCPUs 96.00 GB vRAM	\$8,171	1.07 TB HDD
VM-728342	FreeBSD (64-bit)	\$668	n2-highcpu-2	\$376	n2-highcpu-2	\$376	20.00 GB HDD
VM-729998	Microsoft Windows Server 2008 R2 (64-bit)	\$1,184	n2-highcpu-8	\$5,193	n1-custom: 1 vCPU 8.00 GB vRAM	\$1,325	210.00 GB SSD
VM-738447	Microsoft Windows Server 2012 (64-bit)	\$741	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,338	n1-custom: 1 vCPU 4.00 GB vRAM	\$774	51.00 GB SSD
VM-742648	Microsoft Windows Server 2012 (64-bit)	\$844	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,271	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,271	100.00 GB HDD
VM-744955	Microsoft Windows Server 2012 (64-bit)	\$1,343	n2-custom: 8 vCPUs 16.00 GB vRAM	\$5,007	n2-custom: 8 vCPUs 16.00 GB vRAM	\$5,007	271.00 GB HDD
VM-758114	Microsoft Windows Server 2012 (64-bit)	\$696	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,230	n1-custom: 1 vCPU 4.00 GB vRAM	\$666	30.00 GB HDD
VM-775036	Microsoft Windows Server 2012 (64-bit)	\$806	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,461	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,461	60.00 GB HDD
VM-775041	Microsoft Windows Server 2008 R2 (64-bit)	\$952	n2-highcpu-8	\$4,737	n2-highcpu-8	\$4,737	100.00 GB HDD
VM-78395	Microsoft Windows Server 2008 R2 (64-bit)	\$1,148	c2-standard-8	\$5,195	c2-standard-8	\$5,195	150.00 GB HDD
VM-783970	Microsoft Windows Server 2012 (64-bit)	\$2,150	n2-custom: 4 vCPUs 6.00 GB vRAM	\$2,786	n2-custom: 4 vCPUs 6.00 GB vRAM	\$2,786	700.00 GB HDD
VM-78398	Microsoft Windows Server 2008 R2 (64-bit)	\$1,524	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,656	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,656	400.00 GB HDD
VM-784	Other Linux (64-bit)	\$782	n1-highcpu-8	\$1,511	n1-custom: 1 vCPU 2.00 GB vRAM	\$276	30.00 GB SSD
VM-788297	Microsoft Windows Server 2008 R2 (64-bit)	\$1,391	n2-custom: 8 vCPUs 40.00 GB vRAM	\$5,512	n2-custom: 8 vCPUs 40.00 GB vRAM	\$5,512	251.00 GB HDD
VM-789386	Red Hat Enterprise Linux 6 (64-bit)	\$768	n1-highcpu-8	\$2,626	n1-custom: 1 vCPU 4.00 GB vRAM	\$821	20.00 GB SSD
VM-826262	Microsoft Windows Server 2012 (64-bit)	\$1,597	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,677	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,677	435.00 GB HDD
VM-841035	Microsoft Windows Server 2012 (64-bit)	\$5,683	n2-highmem-2	\$2,836	n2-highmem-2	\$2,836	2.31 TB HDD
VM-841644	Microsoft Windows Server 2008 R2 (64-bit)	\$3,111	n2-custom: 8 vCPUs 94.00 GB vRAM	\$8,596	n2-custom: 8 vCPUs 94.00 GB vRAM	\$8,596	970.00 GB HDD
VM-842568	Microsoft Windows Server 2008 R2 (64-bit)	\$939	n2-custom: 4 vCPUs 10.00 GB vRAM	\$2,538	n2-custom: 4 vCPUs 10.00 GB vRAM	\$2,538	120.00 GB HDD



Supported Instance Matches and Associated Cost (cont'd)

VM Name	Guest OS	On-Prem Cost	GCP As Configured		GCP Rightsized to 99th %tile vCPU and Peak vRAM Usage		Storage
			Instance	Cost/yr	Instance	Cost/yr	
VM-847502	Microsoft Windows Server 2008 R2 (64-bit)	\$962	c2-standard-4	\$2,624	c2-standard-4	\$2,624	120.00 GB HDD
VM-848311	Microsoft Windows Server 2008 R2 (64-bit)	\$1,101	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,541	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,541	200.00 GB HDD
VM-848312	Microsoft Windows Server 2008 R2 (64-bit)	\$998	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,513	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,513	151.00 GB HDD
VM-857193	Microsoft Windows Server 2012 (64-bit)	\$9,285	n2-standard-2	\$3,655	n2-standard-2	\$3,655	3.99 TB HDD
VM-86491	Microsoft Windows Server 2003 Standard (32-bit)	\$710	n2-highcpu-2	\$1,268	n2-highcpu-2	\$1,268	40.00 GB SSD
VM-866461	CentOS 4/5/6/7 (64-bit)	\$716	n1-custom: 1 vCPU 2.00 GB vRAM	\$232	n1-custom: 1 vCPU 2.00 GB vRAM	\$232	50.00 GB HDD
VM-867476	Ubuntu Linux (64-bit)	\$658	n2-custom: 2 vCPUs 4.00 GB vRAM	\$414	n2-custom: 2 vCPUs 4.00 GB vRAM	\$414	12.00 GB HDD
VM-869273	Microsoft Windows Server 2012 (64-bit)	\$5,027	n2-custom: 16 vCPUs 96.00 GB vRAM	\$12,122	n2-custom: 16 vCPUs 96.00 GB vRAM	\$12,122	1.77 TB HDD
VM-869280	Microsoft Windows Server 2012 (64-bit)	\$3,802	c2-standard-4	\$3,399	c2-standard-4	\$3,399	1.43 TB HDD
VM-874035	FreeBSD (64-bit)	\$675	n2-custom: 2 vCPUs 4.00 GB vRAM	\$419	n2-custom: 2 vCPUs 4.00 GB vRAM	\$419	20.00 GB HDD
VM-875839	FreeBSD (64-bit)	\$675	n2-custom: 2 vCPUs 4.00 GB vRAM	\$419	n2-custom: 2 vCPUs 4.00 GB vRAM	\$419	20.00 GB HDD
VM-87717	Microsoft Windows Server 2008 R2 (64-bit)	\$1,674	n1-custom: 1 vCPU 4.00 GB vRAM	\$937	n1-custom: 1 vCPU 4.00 GB vRAM	\$937	500.00 GB HDD
VM-877249	Microsoft Windows Server 2008 R2 (64-bit)	\$952	n2-highcpu-8	\$4,737	n2-highcpu-8	\$4,737	100.00 GB HDD
VM-877250	Microsoft Windows Server 2008 R2 (64-bit)	\$1,103	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,542	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,542	201.00 GB HDD
VM-879746	Microsoft Windows Server 2008 R2 (64-bit)	\$739	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,242	n2-custom: 2 vCPUs 4.00 GB vRAM	\$1,242	50.00 GB HDD
VM-879748	Microsoft Windows Server 2008 R2 (64-bit)	\$859	n2-standard-2	\$1,357	n2-standard-2	\$1,357	100.00 GB HDD
VM-887281	Microsoft Windows Server 2012 (64-bit)	\$17,003	n2-custom: 2 vCPUs 4.00 GB vRAM	\$5,679	n2-custom: 2 vCPUs 4.00 GB vRAM	\$5,679	7.57 TB HDD
VM-888680	Microsoft Windows Server 2012 (64-bit)	\$1,138	n2-custom: 6 vCPUs 32.00 GB vRAM	\$4,160	n2-custom: 6 vCPUs 32.00 GB vRAM	\$4,160	160.00 GB HDD
VM-892325	Microsoft Windows Server 2012 (64-bit)	\$1,138	n2-custom: 6 vCPUs 32.00 GB vRAM	\$4,160	n2-custom: 6 vCPUs 32.00 GB vRAM	\$4,160	160.00 GB HDD
VM-892357	Microsoft Windows Server 2008 R2 (64-bit)	\$1,138	n2-custom: 6 vCPUs 32.00 GB vRAM	\$4,160	n2-custom: 6 vCPUs 32.00 GB vRAM	\$4,160	160.00 GB HDD
VM-892358	Microsoft Windows Server 2008 R2 (64-bit)	\$1,138	n2-custom: 6 vCPUs 32.00 GB vRAM	\$4,160	n2-custom: 6 vCPUs 32.00 GB vRAM	\$4,160	160.00 GB HDD
VM-907024	Microsoft Windows Server 2012 (64-bit)	\$2,067	n2-custom: 2 vCPUs 12.00 GB vRAM	\$1,768	n2-custom: 2 vCPUs 12.00 GB vRAM	\$1,768	665.00 GB HDD
VM-913604	Microsoft Windows Server 2008 R2 (64-bit)	\$890	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,484	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,484	100.00 GB HDD
VM-913609	Microsoft Windows Server 2008 R2 (64-bit)	\$890	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,484	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,484	100.00 GB HDD
VM-914830	Microsoft Windows Server 2008 R2 (64-bit)	\$859	n2-standard-2	\$1,357	n2-standard-2	\$1,357	100.00 GB HDD
VM-9209	Microsoft Windows Server 2008 R2 (64-bit)	\$965	n2-standard-2	\$1,385	n2-standard-2	\$1,385	150.00 GB HDD



Supported Instance Matches and Associated Cost (cont'd)

VM Name	Guest OS	On-Prem Cost	GCP As Configured		GCP Rightsized to 99th %tile vCPU and Peak vRAM Usage		Storage
			Instance	Cost/yr	Instance	Cost/yr	
VM-92543	Ubuntu Linux (64-bit)	\$1,048	n2-custom: 4 vCPUs 8.00 GB vRAM	\$915	n2-custom: 4 vCPUs 8.00 GB vRAM	\$915	175.00 GB HDD
VM-931949	Microsoft Windows Server 2012 (64-bit)	\$1,591	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,675	n2-custom: 4 vCPUs 8.00 GB vRAM	\$2,675	432.00 GB HDD
VM-980498	Microsoft Windows Server 2012 (64-bit)	\$901	n2-standard-2	\$1,368	n2-standard-2	\$1,368	120.00 GB HDD
VM-997254	Other 2.6.x Linux (64-bit)	\$701	n2-custom: 2 vCPUs 4.00 GB vRAM	\$425	n2-custom: 2 vCPUs 4.00 GB vRAM	\$425	32.00 GB HDD
VM-997256	Other 2.6.x Linux (64-bit)	\$701	n2-custom: 2 vCPUs 4.00 GB vRAM	\$425	n2-custom: 2 vCPUs 4.00 GB vRAM	\$425	32.00 GB HDD

GCP Settings

GCP Location: **Frankfurt (europe-west3)**

Match to GPUs providing: Best Performance

Storage Type: Zonal

Sole Tenant Nodes Included: Yes

Storage Media: Optimal

Allow Oversubscription: Yes

Instance CPU: Intel Based

BYO Microsoft Licenses: **No**

Match to standard instances only: No

Term Length: **3 Years**

Exclude E2 instances: Yes

Instance Class: Regular

Consider GPUs when: GPUs Already in Place

BYO Linux Licenses: No



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**Assessment Report for 629 VMs in your environment**

vCenter: demo.google.com | Datacenter: Datacenter-2

GCP Rightsizing: 99th %-ile vCPU and Peak vRAM Usage

Unsupported VMs because of unsupported Guest OS

VM Name	Guest OS	vCPU	vRAM	vDisk Capacity	On-Prem Cost
VM-1818776	Oracle Solaris 10 (64-bit)	2	2.00 GB	20.00 GB	\$668
VM-1831092	Oracle Solaris 10 (64-bit)	2	2.00 GB	20.00 GB	\$668
VM-2434076	Other (32-bit)	1	1.00 GB	200.00 GB	\$1,028

GCP SettingsGCP Location: **Frankfurt (europe-west3)**

Match to GPUs providing: Best Performance

Storage Type: Zonal

Sole Tenant Nodes Included: Yes

Storage Media: Optimal

Allow Oversubscription: Yes

Instance CPU: Intel Based

BYO Microsoft Licenses: **No**

Match to standard instances only: No

Term Length: **3 Years**

Exclude E2 instances: Yes

Instance Class: Regular

Consider GPUs when: GPUs Already in Place

BYO Linux Licenses: No



Appendix A: vCenter Summary for entire environment

vCenters 1*	Clusters 13	Datastores 0 Clustered 22 Standalone VMFS 18 NFS 4 Total Storage 526.40 TB Free Storage 369.84 TB
Datacenters 1	Storage Clusters 0	
	Networks 182	
Hosts 13 Clustered 0 Standalone On 10 Off 0 Maintenance 0 Unknown 3 Avg. Consolidation Ratio 18.2:1 VMs (on) : Hosts (on)	Memory Virtual 2.20 TB Physical 3.76 TB CPUs Virtual 752 Physical Cores 312	Virtual Machines 630 On 182 Off 447 Suspended 0 Templates 1

*One or more VMware vCenters are not running the most recent version and may require to be upgraded. Upgrading to the most recent VMware vCenter version will be required to support the most recent VMware ESXi release and supporting services.



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Assessment Report for 629 VMs in your environment

vCenter: demo.google.com | Datacenter: Datacenter-2

GCP Rightsizing: 99th %ile vCPU and Peak vRAM Usage

Appendix B: Detailed On-Premise Cost per VM

VM Name	Guest OS	VM Cost/yr	vCPU	vCPU 99th %ile Usage	vRAM	vRAM Peak Usage	vDisk Capacity (GB)
VM-101431	Other Linux (32-bit)	\$605	1	- not available -	128.00 MB	- not available -	1.00 GB
VM-1036344	Microsoft Windows Server 2008 R2 (64-bit)	\$890	4	- not available -	8.00 GB	- not available -	100.00 GB
VM-1043050	Other Linux (32-bit)	\$605	1	- not available -	128.00 MB	- not available -	1.00 GB
VM-1043082	Microsoft Windows Server 2008 R2 (64-bit)	\$2,012	8	69%	26.00 GB	100%	570.00 GB
VM-1053694	Microsoft Windows Server 2012 (64-bit)	\$1,743	2	- not available -	18.00 GB	- not available -	501.00 GB
VM-1053699	Microsoft Windows Server 2012 (64-bit)	\$874	2	- not available -	12.00 GB	- not available -	100.00 GB
VM-1053701	Microsoft Windows Server 2012 (64-bit)	\$4,011	2	- not available -	4.00 GB	- not available -	1.56 TB
VM-1053702	Microsoft Windows Server 2012 (64-bit)	\$980	2	- not available -	12.00 GB	- not available -	150.00 GB
VM-1074962	Microsoft Windows Server 2012 (64-bit)	\$816	4	- not available -	8.00 GB	- not available -	65.00 GB
VM-1084859	Microsoft Windows Server 2008 R2 (64-bit)	\$1,443	8	14%	32.00 GB	100%	290.00 GB
VM-1084859_repl	Microsoft Windows Server 2008 R2 (64-bit)	\$1,443	8	- not available -	32.00 GB	- not available -	290.00 GB
VM-109678	Microsoft Windows Server 2008 R2 (64-bit)	\$859	2	- not available -	8.00 GB	- not available -	100.00 GB
VM-1106428	Red Hat Enterprise Linux 6 (64-bit)	\$1,265	1	- not available -	8.00 GB	- not available -	300.00 GB
VM-112147	Microsoft Windows Server 2012 (64-bit)	\$5,572	12	- not available -	30.00 GB	- not available -	2.17 TB
VM-1131228	Red Hat Enterprise Linux 6 (64-bit)	\$652	1	- not available -	2.00 GB	- not available -	20.00 GB
VM-113466	Microsoft Windows Server 2008 R2 (64-bit)	\$1,193	8	- not available -	16.00 GB	- not available -	200.00 GB
VM-113488	Microsoft Windows Server 2008 R2 (64-bit)	\$3,445	2	- not available -	2.00 GB	- not available -	1.30 TB
VM-113491	Microsoft Windows Server 2008 R2 (64-bit)	\$5,244	8	- not available -	32.00 GB	- not available -	2.04 TB
VM-113492	Microsoft Windows Server 2008 R2 (64-bit)	\$724	1	- not available -	4.00 GB	- not available -	50.00 GB
VM-113493	Microsoft Windows Server 2008 R2 (64-bit)	\$1,365	4	- not available -	8.00 GB	- not available -	325.00 GB
VM-113501	Microsoft Windows Server 2008 R2 (64-bit)	\$1,017	2	- not available -	8.00 GB	- not available -	175.00 GB
VM-113503	Microsoft Windows Server 2008 R2 (64-bit)	\$1,190	2	- not available -	6.00 GB	- not available -	260.00 GB
VM-113678	Microsoft Windows Server 2008 R2 (64-bit)	\$1,583	2	- not available -	32.00 GB	- not available -	400.00 GB
VM-113685	Microsoft Windows Server 2008 R2 (64-bit)	\$1,988	4	- not available -	8.00 GB	- not available -	620.00 GB
VM-113687	Microsoft Windows Server 2008 R2 (64-bit)	\$1,006	2	- not available -	2.00 GB	- not available -	180.00 GB



Appendix B: Detailed On-Premise Cost per VM (cont'd)

VM Name	Guest OS	VM Cost/yr	vCPU	vCPU 99th %-ile Usage	vRAM	vRAM Peak Usage	vDisk Capacity (GB)
VM-1145593	Microsoft Windows Server 2008 R2 (64-bit)	\$991	6	- not available -	10.00 GB	- not available -	130.00 GB
VM-1152114	Microsoft Windows Server 2008 R2 (64-bit)	\$920	4	42%	16.00 GB	100%	100.00 GB
VM-1200373	Microsoft Windows Server 2012 (64-bit)	\$696	2	- not available -	4.00 GB	- not available -	30.00 GB
VM-1205705	Microsoft Windows Server 2012 (64-bit)	\$760	2	- not available -	4.00 GB	- not available -	60.00 GB
VM-1205705_repl_ica	Microsoft Windows Server 2012 (64-bit)	\$760	2	- not available -	4.00 GB	- not available -	60.00 GB
VM-1220472	Microsoft Windows Server 2008 R2 (64-bit)	\$739	2	- not available -	4.00 GB	- not available -	50.00 GB
VM-122289	Microsoft Windows Server 2008 R2 (64-bit)	\$2,737	2	55%	2.00 GB	100%	0.98 TB
VM-122300	Microsoft Windows Server 2008 R2 (64-bit)	\$1,444	2	- not available -	12.00 GB	- not available -	370.00 GB
VM-122301	CentOS 4/5/6/7 (64-bit)	\$9,355	4	4%	4.00 GB	100%	4.02 TB
VM-122302	Microsoft Windows Server 2008 R2 (64-bit)	\$878	4	6%	16.00 GB	100%	80.00 GB
VM-1223024	FreeBSD (64-bit)	\$668	2	20%	2.00 GB	90%	20.00 GB
VM-1223029	FreeBSD (64-bit)	\$668	2	61%	2.00 GB	73%	20.00 GB
VM-122309	Microsoft Windows Server 2008 R2 (64-bit)	\$930	6	- not available -	16.00 GB	- not available -	90.00 GB
VM-122311	Microsoft Windows Server 2008 R2 (64-bit)	\$652	1	- not available -	2.00 GB	- not available -	20.00 GB
VM-122312	Microsoft Windows Server 2008 R2 (64-bit)	\$1,765	4	- not available -	16.00 GB	- not available -	500.00 GB
VM-122319	Microsoft Windows Server 2008 R2 (64-bit)	\$838	8	11%	3.00 GB	100%	55.00 GB
VM-122326	Microsoft Windows Server 2008 R2 (64-bit)	\$1,644	4	- not available -	12.00 GB	- not available -	450.00 GB
VM-122331	Microsoft Windows Server 2008 (32-bit)	\$696	2	- not available -	4.00 GB	- not available -	30.00 GB
VM-122336	Microsoft Windows Server 2008 R2 (64-bit)	\$896	4	- not available -	4.00 GB	- not available -	110.00 GB
VM-122353	Other Linux (64-bit)	\$760	2	2%	4.00 GB	61%	60.00 GB
VM-122356	Microsoft Windows Server 2008 (32-bit)	\$659	1	67%	1.00 GB	100%	25.00 GB
VM-122359	Microsoft Windows Server 2008 R2 (64-bit)	\$880	2	- not available -	8.00 GB	- not available -	110.00 GB
VM-122371	Microsoft Windows Server 2008 R2 (64-bit)	\$972	6	- not available -	16.00 GB	- not available -	110.00 GB
VM-122380	Microsoft Windows Server 2008 R2 (64-bit)	\$1,571	2	- not available -	12.00 GB	- not available -	430.00 GB
VM-122381	Microsoft Windows Server 2003 Standard (32-bit)	\$702	4	6%	3.00 GB	97%	20.00 GB
VM-122387	Microsoft Windows Server 2008 (32-bit)	\$850	1	81%	4.00 GB	94%	110.00 GB
VM-122395	Microsoft Windows Server 2012 (64-bit)	\$677	1	22%	3.00 GB	100%	30.00 GB



Appendix B: Detailed On-Premise Cost per VM (cont'd)

VM Name	Guest OS	VM Cost/yr	vCPU	vCPU 99th %ile Usage	vRAM	vRAM Peak Usage	vDisk Capacity (GB)
VM-122396	Microsoft Windows Server 2012 (64-bit)	\$1,632	2	12%	3.00 GB	100%	475.00 GB
VM-122398	Microsoft Windows Server 2008 R2 (64-bit)	\$868	8	- not available -	8.00 GB	- not available -	60.00 GB
VM-122617	Microsoft Windows Server 2008 R2 (64-bit)	\$857	8	11%	8.00 GB	100%	55.00 GB
VM-122619	Microsoft Windows Server 2008 R2 (64-bit)	\$716	1	100%	2.00 GB	100%	50.00 GB
VM-122626	Microsoft Windows Server 2008 R2 (64-bit)	\$1,591	8	- not available -	32.00 GB	- not available -	360.00 GB
VM-122632	Microsoft Windows Server 2008 R2 (64-bit)	\$1,064	2	- not available -	12.00 GB	- not available -	190.00 GB
VM-122634	Microsoft Windows Server 2008 R2 (64-bit)	\$716	1	5%	2.00 GB	100%	50.00 GB
VM-122651	Microsoft Windows Server 2008 (32-bit)	\$950	2	25%	4.00 GB	100%	150.00 GB
VM-122652	CentOS 4/5/6 (32-bit)	\$614	1	11%	256.00 MB	100%	5.00 GB
VM-122655	Microsoft Windows Server 2003 (64-bit)	\$627	1	- not available -	1.00 GB	- not available -	10.00 GB
VM-122659	Microsoft Windows Server 2008 R2 (64-bit)	\$1,508	2	- not available -	12.00 GB	- not available -	400.00 GB
VM-122661	Microsoft Windows Server 2008 R2 (64-bit)	\$1,607	2	- not available -	16.00 GB	- not available -	440.00 GB
VM-122663	Microsoft Windows Server 2012 (64-bit)	\$1,520	2	- not available -	4.00 GB	- not available -	420.00 GB
VM-122687	Microsoft Windows Server 2008 (64-bit)	\$663	1	- not available -	2.00 GB	- not available -	25.00 GB
VM-122689	Microsoft Windows Server 2008 R2 (64-bit)	\$684	1	- not available -	2.00 GB	- not available -	35.00 GB
VM-122694	Microsoft Windows Server 2008 R2 (64-bit)	\$1,161	2	- not available -	4.00 GB	- not available -	250.00 GB
VM-122709	Microsoft Windows Server 2008 R2 (64-bit)	\$781	2	55%	4.00 GB	100%	70.00 GB
VM-122712	Microsoft Windows Server 2016 (64-bit)	\$739	2	17%	4.00 GB	100%	50.00 GB
VM-122716	Microsoft Windows Server 2008 R2 (64-bit)	\$1,147	6	19%	12.00 GB	100%	200.00 GB
VM-122718	Microsoft Windows Server 2008 (32-bit)	\$1,146	4	24%	20.00 GB	100%	200.00 GB
VM-122719	Microsoft Windows Server 2008 R2 (64-bit)	\$1,312	2	100%	22.00 GB	100%	290.00 GB
VM-122719_replca	Microsoft Windows Server 2008 R2 (64-bit)	\$1,312	2	- not available -	22.00 GB	- not available -	290.00 GB
VM-122730	Microsoft Windows Server 2003 (32-bit)	\$1,138	1	- not available -	2.00 GB	- not available -	250.00 GB
VM-122742	Microsoft Windows Server 2008 R2 (64-bit)	\$1,370	1	- not available -	2.00 GB	- not available -	360.00 GB
VM-122750	Red Hat Enterprise Linux 5 (64-bit)	\$606	1	- not available -	1.00 GB	- not available -	100.00 MB
VM-122754	Microsoft Windows Server 2008 (32-bit)	\$652	1	- not available -	2.00 GB	- not available -	20.00 GB
VM-122760	Microsoft Windows Server 2003 Standard (32-bit)	\$627	1	- not available -	1.00 GB	- not available -	10.00 GB



Appendix B: Detailed On-Premise Cost per VM (cont'd)

VM Name	Guest OS	VM Cost/yr	vCPU	vCPU 99th %ile Usage	vRAM	vRAM Peak Usage	vDisk Capacity (GB)
VM-1229113	Microsoft Windows Server 2008 R2 (64-bit)	\$1,103	4	- not available -	8.00 GB	- not available -	201.00 GB
VM-122980	Microsoft Windows Server 2012 (64-bit)	\$677	1	- not available -	3.00 GB	- not available -	30.00 GB
VM-123026	Red Hat Enterprise Linux 5 (32-bit)	\$684	2	33%	1.00 GB	99%	20.00 GB
VM-123047	Microsoft Windows Server 2008 (64-bit)	\$1,942	2	- not available -	32.00 GB	- not available -	570.00 GB
VM-123048	Microsoft Windows Server 2008 (64-bit)	\$1,360	4	- not available -	32.00 GB	- not available -	280.00 GB
VM-123049	Microsoft Windows Server 2008 R2 (64-bit)	\$1,408	2	- not available -	8.00 GB	- not available -	360.00 GB
VM-123050	Microsoft Windows Server 2008 R2 (64-bit)	\$1,033	1	- not available -	8.00 GB	- not available -	190.00 GB
VM-123052	Microsoft Windows Server 2008 R2 (64-bit)	\$1,408	2	- not available -	8.00 GB	- not available -	360.00 GB
VM-123054	Microsoft Windows Server 2008 R2 (64-bit)	\$4,976	2	- not available -	8.00 GB	- not available -	2.00 TB
VM-123072	Microsoft Windows Server 2008 R2 (64-bit)	\$1,554	4	- not available -	16.00 GB	- not available -	400.00 GB
VM-123078	Microsoft Windows Server 2008 R2 (64-bit)	\$1,088	8	23%	16.00 GB	100%	150.00 GB
VM-123079	Microsoft Windows Server 2008 R2 (64-bit)	\$1,448	4	32%	16.00 GB	100%	350.00 GB
VM-123081	Microsoft Windows Server 2008 R2 (64-bit)	\$1,131	4	32%	16.00 GB	100%	200.00 GB
VM-1233262	Microsoft Windows Server 2012 (64-bit)	\$696	2	- not available -	4.00 GB	- not available -	30.00 GB
VM-1233270	Microsoft Windows Server 2012 (64-bit)	\$696	2	- not available -	4.00 GB	- not available -	30.00 GB
VM-1238299	Red Hat Enterprise Linux 6 (64-bit)	\$801	1	- not available -	8.00 GB	- not available -	80.00 GB
VM-1240930	FreeBSD (64-bit)	\$668	2	- not available -	2.00 GB	- not available -	20.00 GB
VM-125422	Microsoft Windows Server 2008 R2 (64-bit)	\$861	2	60%	8.00 GB	100%	101.00 GB
VM-125425	Microsoft Windows Server 2008 R2 (64-bit)	\$1,312	4	- not available -	8.00 GB	- not available -	300.00 GB
VM-1255749	Microsoft Windows Server 2008 (32-bit)	\$1,583	2	- not available -	4.00 GB	- not available -	450.00 GB
VM-1261690	Red Hat Enterprise Linux 6 (64-bit)	\$1,055	2	- not available -	4.00 GB	- not available -	200.00 GB
VM-127072	Microsoft Windows Server 2012 (64-bit)	\$911	4	- not available -	8.00 GB	- not available -	110.00 GB
VM-1279503	Microsoft Windows Server 2012 (64-bit)	\$5,852	2	- not available -	6.00 GB	- not available -	2.41 TB
VM-128769	Microsoft Windows Server 2012 (64-bit)	\$720	1	25%	3.00 GB	100%	50.00 GB
VM-1294222	Other Linux (32-bit)	\$605	1	- not available -	128.00 MB	- not available -	1.00 GB
VM-1294232	Other Linux (32-bit)	\$605	1	- not available -	128.00 MB	- not available -	1.00 GB
VM-1294234	Other Linux (32-bit)	\$605	1	- not available -	128.00 MB	- not available -	1.00 GB



Appendix B: Detailed On-Premise Cost per VM (cont'd)

VM Name	Guest OS	VM Cost/yr	vCPU	vCPU 99th %ile Usage	vRAM	vRAM Peak Usage	vDisk Capacity (GB)
VM-1294238	Other Linux (32-bit)	\$605	1	- not available -	128.00 MB	- not available -	1.00 GB
VM-1295378	Microsoft Windows Server 2012 (64-bit)	\$1,339	2	- not available -	12.00 GB	- not available -	320.00 GB
VM-1295378_replica	Microsoft Windows Server 2012 (64-bit)	\$1,339	2	- not available -	12.00 GB	- not available -	320.00 GB
VM-1308494	Microsoft Windows Server 2012 (64-bit)	\$1,457	10	100%	50.00 GB	100%	250.00 GB
VM-1308495	Microsoft Windows Server 2012 (64-bit)	\$821	8	- not available -	4.00 GB	- not available -	45.00 GB
VM-1308590	Microsoft Windows Server 2012 (64-bit)	\$836	8	- not available -	8.00 GB	- not available -	45.00 GB
VM-1308622	Microsoft Windows Server 2012 (64-bit)	\$836	8	- not available -	8.00 GB	- not available -	45.00 GB
VM-1322837	Microsoft Windows Server 2012 (64-bit)	\$950	2	- not available -	4.00 GB	- not available -	150.00 GB
VM-1324114	Microsoft Windows Server 2016 (64-bit)	\$1,418	4	48%	8.00 GB	100%	350.00 GB
VM-134599	Red Hat Enterprise Linux 6 (64-bit)	\$894	1	- not available -	2.00 GB	- not available -	40.00 GB
VM-1367529	Microsoft Windows Server 2012 (64-bit)	\$836	8	- not available -	8.00 GB	- not available -	45.00 GB
VM-1367533	Microsoft Windows Server 2012 (64-bit)	\$821	8	- not available -	4.00 GB	- not available -	45.00 GB
VM-1367551	Microsoft Windows Server 2012 (64-bit)	\$836	8	- not available -	8.00 GB	- not available -	45.00 GB
VM-1367553	Microsoft Windows Server 2012 (64-bit)	\$836	8	- not available -	8.00 GB	- not available -	45.00 GB
VM-1376240	Microsoft Windows Server 2012 (64-bit)	\$869	4	- not available -	8.00 GB	- not available -	90.00 GB
VM-1385264	Microsoft Windows Server 2012 (64-bit)	\$2,916	2	- not available -	16.00 GB	- not available -	1.04 TB
VM-1385265	Microsoft Windows Server 2012 (64-bit)	\$1,603	16	- not available -	64.00 GB	- not available -	250.00 GB
VM-1399120	Microsoft Windows Server 2012 (64-bit)	\$836	8	7%	8.00 GB	88%	45.00 GB
VM-1399121	Microsoft Windows Server 2012 (64-bit)	\$836	8	7%	8.00 GB	100%	45.00 GB
VM-1399122	Microsoft Windows Server 2012 (64-bit)	\$836	8	9%	8.00 GB	82%	45.00 GB
VM-140368	Microsoft Windows Server 2008 R2 (64-bit)	\$959	8	- not available -	10.00 GB	- not available -	100.00 GB
VM-140371	Microsoft Windows Server 2008 R2 (64-bit)	\$996	4	- not available -	8.00 GB	- not available -	150.00 GB
VM-1406570	Microsoft Windows Server 2012 (64-bit)	\$836	8	- not available -	8.00 GB	- not available -	45.00 GB
VM-1406658	Microsoft Windows Server 2012 (64-bit)	\$836	8	- not available -	8.00 GB	- not available -	45.00 GB
VM-1428099	Microsoft Windows Server 2012 (64-bit)	\$1,088	10	- not available -	36.00 GB	- not available -	100.00 GB
VM-1429567	Microsoft Windows Server 2012 (64-bit)	\$1,531	10	100%	64.00 GB	100%	260.00 GB
VM-1432840	Debian GNU/Linux 6 (64-bit)	\$607	1	- not available -	256.00 MB	- not available -	2.00 GB



Appendix B: Detailed On-Premise Cost per VM (cont'd)

VM Name	Guest OS	VM Cost/yr	vCPU	vCPU 99th %ile Usage	vRAM	vRAM Peak Usage	vDisk Capacity (GB)
VM-1451058	Red Hat Enterprise Linux 6 (64-bit)	\$606	1	- not available -	1.00 GB	- not available -	100.00 MB
VM-1454037	Red Hat Enterprise Linux 6 (64-bit)	\$627	1	- not available -	2.00 GB	- not available -	8.00 GB
VM-1454057	Red Hat Enterprise Linux 6 (64-bit)	\$775	2	1%	8.00 GB	98%	60.00 GB
VM-1454238	Red Hat Enterprise Linux 6 (64-bit)	\$652	1	- not available -	2.00 GB	- not available -	20.00 GB
VM-1454305	Red Hat Enterprise Linux 6 (64-bit)	\$775	2	1%	8.00 GB	94%	60.00 GB
VM-1454306	Red Hat Enterprise Linux 6 (64-bit)	\$775	2	1%	8.00 GB	95%	60.00 GB
VM-1454307	Red Hat Enterprise Linux 6 (64-bit)	\$775	2	0%	8.00 GB	23%	60.00 GB
VM-1454310	Red Hat Enterprise Linux 6 (64-bit)	\$775	2	1%	8.00 GB	22%	60.00 GB
VM-1455663	Microsoft Windows Server 2012 (64-bit)	\$1,283	8	- not available -	40.00 GB	- not available -	200.00 GB
VM-1455665	Microsoft Windows Server 2012 (64-bit)	\$2,582	10	- not available -	96.00 GB	- not available -	701.00 GB
VM-1464285	Microsoft Windows Server 2012 (64-bit)	\$732	2	- not available -	2.00 GB	- not available -	50.00 GB
VM-1471027	Microsoft Windows Server 2016 (64-bit)	\$844	2	- not available -	4.00 GB	- not available -	100.00 GB
VM-1481532	Microsoft Windows Server 2012 (64-bit)	\$2,820	4	- not available -	16.00 GB	- not available -	0.98 TB
VM-1485235	Microsoft Windows Server 2012 (64-bit)	\$1,283	8	- not available -	40.00 GB	- not available -	200.00 GB
VM-1486025	Microsoft Windows Server 2016 (64-bit)	\$982	8	31%	16.00 GB	100%	100.00 GB
VM-1493143	Microsoft Windows Server 2012 (64-bit)	\$1,764	4	- not available -	16.00 GB	- not available -	499.87 GB
VM-1495798	Microsoft Windows Server 2016 (64-bit)	\$920	4	30%	16.00 GB	100%	100.00 GB
VM-1495799	Microsoft Windows Server 2012 (64-bit)	\$1,526	4	56%	8.00 GB	100%	401.00 GB
VM-1515093	Microsoft Windows Server 2012 (64-bit)	\$1,268	1	- not available -	8.00 GB	- not available -	301.00 GB
VM-1518278	Microsoft Windows Server 2012 (64-bit)	\$836	8	10%	8.00 GB	78%	45.00 GB
VM-15196	Other Linux (32-bit)	\$605	1	- not available -	128.00 MB	- not available -	1.00 GB
VM-1526578	Microsoft Windows Server 2012 (64-bit)	\$739	2	- not available -	4.00 GB	- not available -	50.00 GB
VM-1540021	Microsoft Windows Server 2012 (64-bit)	\$6,127	8	- not available -	76.00 GB	- not available -	2.37 TB
VM-1540023	Microsoft Windows Server 2016 (64-bit)	\$3,728	4	- not available -	16.00 GB	- not available -	1.40 TB
VM-1540025	Microsoft Windows Server 2012 (64-bit)	\$11,436	4	- not available -	64.00 GB	- not available -	4.88 TB
VM-1543064	Debian GNU/Linux 6 (64-bit)	\$607	1	- not available -	256.00 MB	- not available -	2.00 GB
VM-1545961	Microsoft Windows Server 2012 (64-bit)	\$737	1	- not available -	2.00 GB	- not available -	60.00 GB



Appendix B: Detailed On-Premise Cost per VM (cont'd)

VM Name	Guest OS	VM Cost/yr	vCPU	vCPU 99th %-ile Usage	vRAM	vRAM Peak Usage	vDisk Capacity (GB)
VM-1545961_repl_ica	Microsoft Windows Server 2012 (64-bit)	\$737	1	- not available -	2.00 GB	- not available -	60.00 GB
VM-1551662	Microsoft Windows Server 2012 (64-bit)	\$859	2	- not available -	8.00 GB	- not available -	100.00 GB
VM-1590939	Microsoft Windows Server 2012 (64-bit)	\$760	2	4%	4.00 GB	100%	60.00 GB
VM-1590940	Microsoft Windows Server 2012 (64-bit)	\$760	2	4%	4.00 GB	100%	60.00 GB
VM-1594097	Ubuntu Linux (64-bit)	\$964	2	25%	2.00 GB	100%	160.00 GB
VM-160780	Microsoft Windows Server 2008 R2 (64-bit)	\$952	8	- not available -	8.00 GB	- not available -	100.00 GB
VM-160783	Microsoft Windows Server 2008 R2 (64-bit)	\$996	4	22%	8.00 GB	100%	150.00 GB
VM-1630754	Microsoft Windows Server 2012 (64-bit)	\$775	2	- not available -	8.00 GB	- not available -	60.00 GB
VM-163498	Microsoft Windows Server 2008 (32-bit)	\$2,747	2	- not available -	4.00 GB	- not available -	0.98 TB
VM-163500	Microsoft Windows Server 2012 (64-bit)	\$1,100	2	- not available -	16.00 GB	- not available -	200.00 GB
VM-1641542	Microsoft Windows Server 2012 (64-bit)	\$820	4	- not available -	6.00 GB	- not available -	70.00 GB
VM-1647888	Microsoft Windows Server 2012 (64-bit)	\$1,023	8	- not available -	32.00 GB	- not available -	91.00 GB
VM-1659314	FreeBSD (64-bit)	\$668	2	- not available -	2.00 GB	- not available -	20.00 GB
VM-167581	Microsoft Windows Server 2008 R2 (64-bit)	\$1,228	2	- not available -	22.00 GB	- not available -	250.00 GB
VM-167582	Microsoft Windows Server 2008 R2 (64-bit)	\$3,531	10	- not available -	40.00 GB	- not available -	1.22 TB
VM-169416	Microsoft Windows Server 2008 R2 (64-bit)	\$909	3	41%	6.00 GB	100%	120.00 GB
VM-1699163	Microsoft Windows Server 2012 (64-bit)	\$896	2	- not available -	4.00 GB	- not available -	30.00 GB
VM-1699960	Microsoft Windows Server 2012 (64-bit)	\$5,462	4	- not available -	16.00 GB	- not available -	2.20 TB
VM-1714904	Microsoft Windows Server 2012 (64-bit)	\$801	1	- not available -	8.00 GB	- not available -	80.00 GB
VM-1721307	Microsoft Windows Server 2012 (64-bit)	\$806	4	- not available -	8.00 GB	- not available -	60.00 GB
VM-1721309	Microsoft Windows Server 2012 (64-bit)	\$896	2	- not available -	4.00 GB	- not available -	30.00 GB
VM-1721311	Microsoft Windows Server 2012 (64-bit)	\$1,070	2	- not available -	8.00 GB	- not available -	200.00 GB
VM-1721311_repl_ica	Microsoft Windows Server 2012 (64-bit)	\$1,070	2	- not available -	8.00 GB	- not available -	200.00 GB
VM-1721460	Ubuntu Linux (64-bit)	\$1,251	1	- not available -	4.00 GB	- not available -	300.00 GB
VM-1726022	Microsoft Windows Server 2012 (64-bit)	\$804	8	- not available -	8.00 GB	- not available -	30.00 GB
VM-1746557	Microsoft Windows Server 2012 (64-bit)	\$785	4	- not available -	8.00 GB	- not available -	50.00 GB
VM-1746558	Microsoft Windows Server 2012 (64-bit)	\$890	4	- not available -	8.00 GB	- not available -	100.00 GB



Appendix B: Detailed On-Premise Cost per VM (cont'd)

VM Name	Guest OS	VM Cost/yr	vCPU	vCPU 99th %-ile Usage	vRAM	vRAM Peak Usage	vDisk Capacity (GB)
VM-175067	Microsoft Windows Server 2008 R2 (64-bit)	\$1,576	4	- not available -	22.00 GB	- not available -	400.00 GB
VM-1764253	Microsoft Windows Server 2012 (64-bit)	\$922	4	- not available -	16.00 GB	- not available -	101.00 GB
VM-1764255	Microsoft Windows Server 2012 (64-bit)	\$890	4	- not available -	8.00 GB	- not available -	100.00 GB
VM-177781	Microsoft Windows Server 2012 (64-bit)	\$4,706	6	89%	32.00 GB	100%	1.81 TB
VM-1780934	Red Hat Enterprise Linux 6 (64-bit)	\$1,665	12	- not available -	24.00 GB	- not available -	380.00 GB
VM-1780998	Microsoft Windows Server 2016 (64-bit)	\$892	4	- not available -	8.00 GB	- not available -	101.00 GB
VM-1780999	Microsoft Windows Server 2012 (64-bit)	\$890	4	- not available -	8.00 GB	- not available -	100.00 GB
VM-1787982	Microsoft Windows Server 2012 (64-bit)	\$847	8	- not available -	8.00 GB	- not available -	50.00 GB
VM-1791440	Microsoft Windows Server 2012 (64-bit)	\$847	8	- not available -	8.00 GB	- not available -	50.00 GB
VM-1800797	Microsoft Windows Server 2012 (64-bit)	\$892	4	- not available -	8.00 GB	- not available -	101.00 GB
VM-1800798	Microsoft Windows Server 2012 (64-bit)	\$890	4	- not available -	8.00 GB	- not available -	100.00 GB
VM-1817265	FreeBSD (64-bit)	\$668	2	- not available -	2.00 GB	- not available -	20.00 GB
VM-1818686	Microsoft Windows Server 2012 (64-bit)	\$847	8	8%	8.00 GB	75%	50.00 GB
VM-1818689	Microsoft Windows Server 2012 (64-bit)	\$847	8	9%	8.00 GB	80%	50.00 GB
VM-1818776	Oracle Solaris 10 (64-bit)	\$668	2	- not available -	2.00 GB	- not available -	20.00 GB
VM-1820913	Microsoft Windows Server 2008 R2 (64-bit)	\$1,735	4	- not available -	8.00 GB	- not available -	500.00 GB
VM-1820994	Microsoft Windows Server 2008 R2 (64-bit)	\$1,131	4	- not available -	16.00 GB	- not available -	200.00 GB
VM-1821086	Microsoft Windows Server 2008 R2 (64-bit)	\$1,207	4	- not available -	8.00 GB	- not available -	250.00 GB
VM-1827613	Other Linux (64-bit)	\$2,841	4	- not available -	8.00 GB	- not available -	1.00 TB
VM-182879	Microsoft Windows Server 2008 R2 (64-bit)	\$890	4	- not available -	8.00 GB	- not available -	100.00 GB
VM-1831092	Oracle Solaris 10 (64-bit)	\$668	2	- not available -	2.00 GB	- not available -	20.00 GB
VM-1831094	FreeBSD (64-bit)	\$668	2	- not available -	2.00 GB	- not available -	20.00 GB
VM-183410	Microsoft Windows Server 2012 (64-bit)	\$1,319	4	- not available -	10.00 GB	- not available -	300.00 GB
VM-1851743	Other Linux (64-bit)	\$2,841	4	- not available -	8.00 GB	- not available -	1.00 TB
VM-186812	Microsoft Windows Server 2008 R2 (64-bit)	\$969	3	- not available -	10.00 GB	- not available -	141.00 GB
VM-1880064	Microsoft Windows Server 2008 R2 (64-bit)	\$868	8	10%	8.00 GB	100%	60.00 GB
VM-1881713	Microsoft Windows Server 2003 Standard (32-bit)	\$791	2	38%	4.00 GB	100%	75.01 GB



Appendix B: Detailed On-Premise Cost per VM (cont'd)

VM Name	Guest OS	VM Cost/yr	vCPU	vCPU 99th %-ile Usage	vRAM	vRAM Peak Usage	vDisk Capacity (GB)
VM-188809	Microsoft Windows Server 2008 R2 (64-bit)	\$890	4	27%	8.00 GB	100%	100.00 GB
VM-188810	Microsoft Windows Server 2008 R2 (64-bit)	\$1,103	4	- not available -	8.00 GB	- not available -	201.00 GB
VM-1906061	Microsoft Windows Server 2012 (64-bit)	\$1,465	4	- not available -	20.00 GB	- not available -	351.00 GB
VM-1906064	Microsoft Windows Server 2012 (64-bit)	\$914	4	- not available -	20.00 GB	- not available -	90.00 GB
VM-1912494	Microsoft Windows Server 2012 (64-bit)	\$5,234	6	70%	32.00 GB	100%	2.05 TB
VM-1912506	Microsoft Windows Server 2008 R2 (64-bit)	\$1,070	2	- not available -	8.00 GB	- not available -	200.00 GB
VM-1912506_repl	Microsoft Windows Server 2008 R2 (64-bit)	\$1,725	2	- not available -	8.00 GB	- not available -	510.00 GB
VM-1912517	Microsoft Windows Server 2008 R2 (64-bit)	\$684	1	- not available -	2.00 GB	- not available -	35.00 GB
VM-1912518	Microsoft Windows Server 2008 R2 (64-bit)	\$684	1	- not available -	2.00 GB	- not available -	35.00 GB
VM-1912536	Microsoft Windows Server 2008 R2 (64-bit)	\$1,386	6	21%	8.00 GB	100%	320.00 GB
VM-1938831	Microsoft Windows Server 2012 (64-bit)	\$947	4	17%	12.00 GB	100%	120.00 GB
VM-1958955	Microsoft Windows Server 2012 (64-bit)	\$998	4	- not available -	8.00 GB	- not available -	151.00 GB
VM-1961695	Red Hat Enterprise Linux 6 (64-bit)	\$1,665	12	- not available -	24.00 GB	- not available -	380.00 GB
VM-1962736	Microsoft Windows Server 2008 R2 (64-bit)	\$1,410	8	- not available -	40.00 GB	- not available -	260.00 GB
VM-1962747	Microsoft Windows Server 2008 R2 (64-bit)	\$1,137	4	- not available -	40.00 GB	- not available -	160.00 GB
VM-1962761	Microsoft Windows Server 2008 R2 (64-bit)	\$1,137	4	- not available -	40.00 GB	- not available -	160.00 GB
VM-1962777	Microsoft Windows Server 2008 R2 (64-bit)	\$1,046	3	- not available -	20.00 GB	- not available -	160.00 GB
VM-196663	CentOS 4/5/6/7 (64-bit)	\$3,730	2	2%	2.00 GB	100%	1.44 TB
VM-1972858	Microsoft Windows Server 2012 (64-bit)	\$793	4	4%	16.00 GB	100%	40.00 GB
VM-1991508	Microsoft Windows Server 2012 (64-bit)	\$1,005	4	22%	16.00 GB	100%	140.00 GB
VM-1991514	Microsoft Windows Server 2012 (64-bit)	\$1,005	4	44%	16.00 GB	100%	140.00 GB
VM-1991518	Microsoft Windows Server 2012 (64-bit)	\$1,005	4	28%	16.00 GB	100%	140.00 GB
VM-1991523	Microsoft Windows Server 2012 (64-bit)	\$1,165	4	28%	8.00 GB	100%	230.00 GB
VM-1991539	Microsoft Windows Server 2012 (64-bit)	\$1,089	4	50%	16.00 GB	100%	180.00 GB
VM-1991540	Microsoft Windows Server 2012 (64-bit)	\$1,005	4	18%	16.00 GB	100%	140.00 GB
VM-1991545	Microsoft Windows Server 2012 (64-bit)	\$1,005	4	22%	16.00 GB	100%	140.00 GB
VM-1991547	Microsoft Windows Server 2012 (64-bit)	\$1,005	4	22%	16.00 GB	100%	140.00 GB



Appendix B: Detailed On-Premise Cost per VM (cont'd)

VM Name	Guest OS	VM Cost/yr	vCPU	vCPU 99th %-ile Usage	vRAM	vRAM Peak Usage	vDisk Capacity (GB)
VM-1991550	Microsoft Windows Server 2012 (64-bit)	\$1,005	4	17%	16.00 GB	100%	140.00 GB
VM-1991627	Microsoft Windows Server 2012 (64-bit)	\$1,195	4	43%	16.00 GB	100%	230.00 GB
VM-2010936	Microsoft Windows Server 2012 (64-bit)	\$877	1	- not available -	3.00 GB	- not available -	30.00 GB
VM-2010963	Microsoft Windows Server 2012 (64-bit)	\$1,479	6	- not available -	16.00 GB	- not available -	350.00 GB
VM-2011107	Microsoft Windows Server 2012 (64-bit)	\$1,054	8	- not available -	24.00 GB	- not available -	120.00 GB
VM-204675	Microsoft Windows Server 2012 (64-bit)	\$852	2	- not available -	6.00 GB	- not available -	100.00 GB
VM-2058801	Microsoft Windows Server 2016 (64-bit)	\$892	4	- not available -	8.00 GB	- not available -	101.00 GB
VM-2058802	Microsoft Windows Server 2012 (64-bit)	\$890	4	- not available -	8.00 GB	- not available -	100.00 GB
VM-212149	Ubuntu Linux (64-bit)	\$833	4	4%	4.00 GB	80%	80.00 GB
VM-216386	Microsoft Windows Server 2008 R2 (64-bit)	\$1,689	2	- not available -	4.00 GB	- not available -	500.00 GB
VM-2163900	Microsoft Windows Server 2012 (64-bit)	\$802	2	- not available -	4.00 GB	- not available -	80.00 GB
VM-2163905	Microsoft Windows Server 2012 (64-bit)	\$802	2	- not available -	4.00 GB	- not available -	80.00 GB
VM-2163908	Microsoft Windows Server 2012 (64-bit)	\$848	4	- not available -	8.00 GB	- not available -	80.00 GB
VM-2164214	Microsoft Windows Server 2012 (64-bit)	\$802	2	- not available -	4.00 GB	- not available -	80.00 GB
VM-2164266	Microsoft Windows Server 2012 (64-bit)	\$920	4	- not available -	16.00 GB	- not available -	100.00 GB
VM-2164267	Microsoft Windows Server 2012 (64-bit)	\$890	4	- not available -	8.00 GB	- not available -	99.87 GB
VM-2164268	Microsoft Windows Server 2012 (64-bit)	\$848	4	- not available -	8.00 GB	- not available -	80.00 GB
VM-2164273	Microsoft Windows Server 2012 (64-bit)	\$1,055	2	- not available -	4.00 GB	- not available -	200.00 GB
VM-2164330	Microsoft Windows Server 2012 (64-bit)	\$2,580	4	- not available -	64.00 GB	- not available -	801.00 GB
VM-2164389	Microsoft Windows Server 2012 (64-bit)	\$779	1	- not available -	2.00 GB	- not available -	80.00 GB
VM-2183584	Microsoft Windows Server 2016 (64-bit)	\$2,143	8	69%	16.00 GB	100%	650.00 GB
VM-2183587	Microsoft Windows Server 2016 (64-bit)	\$859	2	75%	8.00 GB	100%	100.00 GB
VM-2186157	Microsoft Windows Server 2012 (64-bit)	\$806	4	- not available -	8.00 GB	- not available -	60.00 GB
VM-2186160	Microsoft Windows Server 2016 (64-bit)	\$806	4	- not available -	8.00 GB	- not available -	60.00 GB
VM-2186165	Microsoft Windows Server 2012 (64-bit)	\$848	4	- not available -	8.00 GB	- not available -	80.00 GB
VM-2186371	Red Hat Enterprise Linux 7 (64-bit)	\$950	4	0%	24.00 GB	8%	100.00 GB
VM-2186372	Red Hat Enterprise Linux 7 (64-bit)	\$950	4	0%	24.00 GB	15%	100.00 GB



Appendix B: Detailed On-Premise Cost per VM (cont'd)

VM Name	Guest OS	VM Cost/yr	vCPU	vCPU 99th %ile Usage	vRAM	vRAM Peak Usage	vDisk Capacity (GB)
VM-2186373	Red Hat Enterprise Linux 7 (64-bit)	\$950	4	33%	24.00 GB	98%	100.00 GB
VM-2186374	Red Hat Enterprise Linux 7 (64-bit)	\$950	4	4%	24.00 GB	97%	100.00 GB
VM-2186534	Microsoft Windows Server 2012 (64-bit)	\$823	2	- not available -	4.00 GB	- not available -	90.00 GB
VM-2212446	Microsoft Windows Server 2012 (64-bit)	\$2,143	8	79%	16.00 GB	100%	650.00 GB
VM-2235405	Microsoft Windows Server 2012 (64-bit)	\$785	4	- not available -	8.00 GB	- not available -	50.00 GB
VM-229409	Other Linux (32-bit)	\$605	1	- not available -	128.00 MB	- not available -	1.00 GB
VM-2339042	Microsoft Windows Server 2012 (64-bit)	\$760	2	- not available -	4.00 GB	- not available -	60.00 GB
VM-2383897	Microsoft Windows Server 2012 (64-bit)	\$892	4	- not available -	8.00 GB	- not available -	101.00 GB
VM-2383901	Microsoft Windows Server 2012 (64-bit)	\$890	4	- not available -	8.00 GB	- not available -	100.00 GB
VM-2416912	Microsoft Windows Server 2012 (64-bit)	\$890	4	- not available -	8.00 GB	- not available -	100.00 GB
VM-2429147	Microsoft Windows Server 2012 (64-bit)	\$883	4	3%	6.00 GB	100%	100.00 GB
VM-2431936	Red Hat Enterprise Linux 5 (32-bit)	\$728	1	- not available -	2.00 GB	- not available -	56.00 GB
VM-2434076	Other (32-bit)	\$1,028	1	- not available -	1.00 GB	- not available -	200.00 GB
VM-2444049	Red Hat Enterprise Linux 7 (64-bit)	\$817	1	- not available -	1.00 GB	- not available -	100.00 GB
VM-2444132	Microsoft Windows Server 2012 (64-bit)	\$739	2	- not available -	4.00 GB	- not available -	50.00 GB
VM-2444133	Microsoft Windows Server 2012 (64-bit)	\$890	4	- not available -	8.00 GB	- not available -	100.00 GB
VM-2444291	Red Hat Enterprise Linux 7 (64-bit)	\$920	4	1%	16.00 GB	60%	100.00 GB
VM-2444293	Red Hat Enterprise Linux 7 (64-bit)	\$920	4	- not available -	16.00 GB	- not available -	100.00 GB
VM-2451511	Microsoft Windows Server 2016 (64-bit)	\$1,193	8	22%	16.00 GB	100%	200.00 GB
VM-2461776	Red Hat Enterprise Linux 7 (64-bit)	\$1,704	2	1%	8.00 GB	97%	500.00 GB
VM-2462345	Red Hat Enterprise Linux 7 (64-bit)	\$1,704	2	- not available -	8.00 GB	- not available -	500.00 GB
VM-2466931	Microsoft Windows Server 2016 (64-bit)	\$892	4	89%	8.00 GB	100%	101.00 GB
VM-2466932	Microsoft Windows Server 2016 (64-bit)	\$890	4	30%	8.00 GB	100%	100.00 GB
VM-2469555	Microsoft Windows Server 2012 (64-bit)	\$878	4	- not available -	16.00 GB	- not available -	80.00 GB
VM-2471959	Microsoft Windows Server 2012 (64-bit)	\$863	4	- not available -	12.00 GB	- not available -	80.00 GB
VM-2471963	Microsoft Windows Server 2012 (64-bit)	\$1,351	12	- not available -	64.00 GB	- not available -	160.00 GB
VM-2481206	Microsoft Windows Server 2012 (64-bit)	\$863	4	- not available -	12.00 GB	- not available -	80.00 GB



Appendix B: Detailed On-Premise Cost per VM (cont'd)

VM Name	Guest OS	VM Cost/yr	vCPU	vCPU 99th %-ile Usage	vRAM	vRAM Peak Usage	vDisk Capacity (GB)
VM-2502780	Microsoft Windows Server 2012 (64-bit)	\$696	2	- not available -	4.00 GB	- not available -	30.00 GB
VM-2521655	Microsoft Windows Server 2016 (64-bit)	\$832	8	4%	4.00 GB	100%	50.00 GB
VM-2534187	Microsoft Windows Server 2016 (64-bit)	\$832	8	2%	4.00 GB	100%	50.00 GB
VM-2539196	Microsoft Windows Server 2012 (64-bit)	\$6,018	8	- not available -	64.00 GB	- not available -	2.34 TB
VM-2548537	Microsoft Windows Server 2012 (64-bit)	\$1,478	12	- not available -	64.00 GB	- not available -	220.00 GB
VM-2600282	Microsoft Windows Server 2012 (64-bit)	\$1,300	4	- not available -	16.00 GB	- not available -	280.00 GB
VM-2600452	Microsoft Windows Server 2012 (64-bit)	\$1,290	24	- not available -	32.00 GB	- not available -	100.00 GB
VM-2605107	Microsoft Windows Server 2012 (64-bit)	\$802	2	- not available -	4.00 GB	- not available -	80.00 GB
VM-2615239	Microsoft Windows Server 2012 (64-bit)	\$1,554	4	- not available -	16.00 GB	- not available -	400.00 GB
VM-2615364	Microsoft Windows Server 2012 (64-bit)	\$793	4	- not available -	16.00 GB	- not available -	40.00 GB
VM-2631243	Microsoft Windows Server 2012 (64-bit)	\$1,351	12	- not available -	64.00 GB	- not available -	160.00 GB
VM-2631600	Microsoft Windows Server 2012 (64-bit)	\$1,131	4	- not available -	16.00 GB	- not available -	200.00 GB
VM-2634976	Microsoft Windows Server 2012 (64-bit)	\$2,582	10	- not available -	96.00 GB	- not available -	701.00 GB
VM-2635118	Microsoft Windows Server 2012 (64-bit)	\$696	2	63%	4.00 GB	100%	30.00 GB
VM-2644041	Microsoft Windows Server 2016 (64-bit)	\$1,266	8	26%	24.00 GB	100%	220.00 GB
VM-2644048	Microsoft Windows Server 2012 (64-bit)	\$1,266	8	20%	24.00 GB	100%	220.00 GB
VM-2659403	Microsoft Windows Server 2012 (64-bit)	\$944	2	65%	8.00 GB	100%	140.00 GB
VM-2659409	Microsoft Windows Server 2012 (64-bit)	\$944	2	60%	8.00 GB	100%	140.00 GB
VM-2659414	Microsoft Windows Server 2012 (64-bit)	\$1,532	4	4%	16.00 GB	81%	390.00 GB
VM-2659415	Microsoft Windows Server 2012 (64-bit)	\$1,532	4	37%	16.00 GB	99%	390.00 GB
VM-2672126	Microsoft Windows Server 2012 (64-bit)	\$2,293	4	- not available -	16.00 GB	- not available -	750.00 GB
VM-2672134	Microsoft Windows Server 2012 (64-bit)	\$2,972	4	- not available -	16.00 GB	- not available -	1.05 TB
VM-2677718	Microsoft Windows Server 2012 (64-bit)	\$834	8	- not available -	16.00 GB	- not available -	30.00 GB
VM-2677744	Microsoft Windows Server 2012 (64-bit)	\$834	8	- not available -	16.00 GB	- not available -	30.00 GB
VM-2704876	Microsoft Windows Server 2012 (64-bit)	\$696	2	- not available -	4.00 GB	- not available -	30.00 GB
VM-2716965	Microsoft Windows Server 2012 (64-bit)	\$717	2	- not available -	4.00 GB	- not available -	40.00 GB
VM-2716982	Microsoft Windows Server 2012 (64-bit)	\$717	2	- not available -	4.00 GB	- not available -	40.00 GB



Appendix B: Detailed On-Premise Cost per VM (cont'd)

VM Name	Guest OS	VM Cost/yr	vCPU	vCPU 99th %ile Usage	vRAM	vRAM Peak Usage	vDisk Capacity (GB)
VM-2717121	Microsoft Windows Server 2012 (64-bit)	\$717	2	- not available -	4.00 GB	- not available -	40.00 GB
VM-2717129	Microsoft Windows Server 2012 (64-bit)	\$1,738	16	- not available -	64.00 GB	- not available -	314.00 GB
VM-2717130	Microsoft Windows Server 2012 (64-bit)	\$968	4	- not available -	8.00 GB	- not available -	137.00 GB
VM-2727366	Red Hat Enterprise Linux 7 (64-bit)	\$817	2	3%	8.00 GB	98%	80.00 GB
VM-2727376	Red Hat Enterprise Linux 7 (64-bit)	\$817	2	5%	8.00 GB	98%	80.00 GB
VM-274300	SUSE Linux Enterprise 11 (64-bit)	\$611	1	1%	600.00 MB	99%	3.00 GB
VM-274809	Microsoft Windows Server 2008 R2 (64-bit)	\$951	6	- not available -	16.00 GB	- not available -	100.00 GB
VM-274816	Microsoft Windows Server 2008 R2 (64-bit)	\$951	6	- not available -	16.00 GB	- not available -	100.00 GB
VM-2752133	Ubuntu Linux (64-bit)	\$674	2	- not available -	4.00 GB	- not available -	19.53 GB
VM-2752210	Ubuntu Linux (64-bit)	\$674	2	1%	4.00 GB	78%	19.53 GB
VM-2753857	Microsoft Windows Server 2012 (64-bit)	\$848	4	- not available -	8.00 GB	- not available -	80.00 GB
VM-2753857_repl_ica	Microsoft Windows Server 2012 (64-bit)	\$848	4	- not available -	8.00 GB	- not available -	80.00 GB
VM-2753859	Microsoft Windows Server 2012 (64-bit)	\$848	4	- not available -	8.00 GB	- not available -	80.00 GB
VM-2753859_repl_ica	Microsoft Windows Server 2012 (64-bit)	\$848	4	- not available -	8.00 GB	- not available -	80.00 GB
VM-2779962	Microsoft Windows Server 2008 R2 (64-bit)	\$1,201	1	- not available -	2.00 GB	- not available -	280.00 GB
VM-27839	Other Linux (32-bit)	\$605	1	- not available -	128.00 MB	- not available -	1.00 GB
VM-27841	Other Linux (32-bit)	\$605	1	1%	128.00 MB	100%	1.00 GB
VM-2784331	Linux 3.10.0-957.el7.x86_64 CentOS Linux release ...	\$821	1	2%	2.00 GB	92%	100.00 GB
VM-2789983	Microsoft Windows Server 2012 (64-bit)	\$1,344	4	- not available -	8.00 GB	- not available -	315.00 GB
VM-2791617	Microsoft Windows Server 2012 (64-bit)	\$891	2	- not available -	8.00 GB	- not available -	115.00 GB
VM-2791618	Microsoft Windows Server 2012 (64-bit)	\$1,374	4	- not available -	16.00 GB	- not available -	315.00 GB
VM-2791620	Microsoft Windows Server 2012 (64-bit)	\$1,374	4	- not available -	16.00 GB	- not available -	315.00 GB
VM-2834268	Microsoft Windows Server 2012 (64-bit)	\$890	4	- not available -	8.00 GB	- not available -	100.00 GB
VM-2843498	Microsoft Windows Server 2012 (64-bit)	\$1,101	4	- not available -	8.00 GB	- not available -	200.00 GB
VM-2850134	Red Hat Enterprise Linux 6 (64-bit)	\$10,786	12	- not available -	80.00 GB	- not available -	4.49 TB
VM-2857443	Microsoft Windows Server 2012 (64-bit)	\$2,820	4	- not available -	16.00 GB	- not available -	999.87 GB
VM-2859232	Red Hat Enterprise Linux 6 (64-bit)	\$1,888	2	5%	12.00 GB	100%	580.00 GB



Appendix B: Detailed On-Premise Cost per VM (cont'd)

VM Name	Guest OS	VM Cost/yr	vCPU	vCPU 99th %-ile Usage	vRAM	vRAM Peak Usage	vDisk Capacity (GB)
VM-2859238	Microsoft Windows Server 2008 R2 (64-bit)	\$2,560	2	- not available -	28.00 GB	- not available -	870.00 GB
VM-2859238_replica	Microsoft Windows Server 2008 R2 (64-bit)	\$2,560	2	- not available -	28.00 GB	- not available -	870.00 GB
VM-2859246	Microsoft Windows Server 2008 R2 (64-bit)	\$3,463	2	- not available -	24.00 GB	- not available -	1.27 TB
VM-2859253	Microsoft Windows Server 2008 R2 (64-bit)	\$1,704	2	- not available -	8.00 GB	- not available -	500.00 GB
VM-2859256	Microsoft Windows Server 2012 (64-bit)	\$737	1	- not available -	2.00 GB	- not available -	60.00 GB
VM-2859260	Microsoft Windows Server 2016 (64-bit)	\$739	2	18%	4.00 GB	100%	50.00 GB
VM-2859262	Microsoft Windows Server 2012 (64-bit)	\$821	8	- not available -	4.00 GB	- not available -	45.00 GB
VM-2872248	Other 3.x or later Linux (64-bit)	\$1,260	6	26%	14.00 GB	100%	250.00 GB
VM-2874035	Microsoft Windows Server 2012 (64-bit)	\$1,765	4	- not available -	16.00 GB	- not available -	500.00 GB
VM-2876287	Microsoft Windows Server 2016 (64-bit)	\$785	2	41%	8.00 GB	86%	65.00 GB
VM-2876288	Microsoft Windows Server 2016 (64-bit)	\$785	2	7%	8.00 GB	64%	65.00 GB
VM-2876289	Microsoft Windows Server 2016 (64-bit)	\$8,478	8	18%	16.00 GB	100%	3.56 TB
VM-2876291	Microsoft Windows Server 2016 (64-bit)	\$1,226	12	72%	56.00 GB	100%	115.00 GB
VM-2876293	Microsoft Windows Server 2012 (64-bit)	\$1,226	12	- not available -	56.00 GB	- not available -	115.00 GB
VM-2880486	Microsoft Windows Server 2012 (64-bit)	\$1,194	10	78%	36.00 GB	100%	150.00 GB
VM-2882132	Microsoft Windows Server 2012 (64-bit)	\$1,036	6	- not available -	16.00 GB	- not available -	140.00 GB
VM-288630	Microsoft Windows Server 2008 R2 (64-bit)	\$859	2	- not available -	8.00 GB	- not available -	100.00 GB
VM-288636	Microsoft Windows Server 2008 R2 (64-bit)	\$998	4	- not available -	8.00 GB	- not available -	151.00 GB
VM-2899373	Red Hat Enterprise Linux 6 (64-bit)	\$1,486	2	- not available -	6.00 GB	- not available -	400.00 GB
VM-2908607	Linux 4.19.52 Other Linux 4.x or later kernel	\$777	2	53%	8.00 GB	56%	61.00 GB
VM-2908762	Other 2.6.x Linux (32-bit)	\$751	2	- not available -	1.00 GB	- not available -	61.00 GB
VM-291688	Microsoft Windows Server 2012 (64-bit)	\$844	2	- not available -	4.00 GB	- not available -	100.00 GB
VM-292310	Microsoft Windows Server 2012 (64-bit)	\$2,080	2	- not available -	24.00 GB	- not available -	650.00 GB
VM-2950524	Microsoft Windows Server 2016 (64-bit)	\$815	4	39%	16.00 GB	100%	50.00 GB
VM-2955565	Microsoft Windows Server 2012 (64-bit)	\$739	2	- not available -	4.00 GB	- not available -	50.00 GB
VM-2957012	Microsoft Windows Server 2012 (64-bit)	\$3,401	4	- not available -	16.00 GB	- not available -	1.25 TB
VM-2957014	Microsoft Windows Server 2012 (64-bit)	\$5,620	4	- not available -	16.00 GB	- not available -	2.27 TB



Appendix B: Detailed On-Premise Cost per VM (cont'd)

VM Name	Guest OS	VM Cost/yr	vCPU	vCPU 99th %ile Usage	vRAM	vRAM Peak Usage	vDisk Capacity (GB)
VM-2962951	Microsoft Windows Server 2012 (64-bit)	\$1,312	4	- not available -	8.00 GB	- not available -	300.00 GB
VM-29638	Microsoft Windows Server 2008 (32-bit)	\$739	2	56%	4.00 GB	100%	50.00 GB
VM-29655	Other Linux (32-bit)	\$605	1	- not available -	128.00 MB	- not available -	1.00 GB
VM-29663	Other Linux (32-bit)	\$605	1	- not available -	128.00 MB	- not available -	1.00 GB
VM-29677	Microsoft Windows Server 2003 (32-bit)	\$823	2	7%	4.00 GB	94%	90.00 GB
VM-2998491	Microsoft Windows Server 2012 (64-bit)	\$696	2	1%	4.00 GB	54%	30.00 GB
VM-2998594	Microsoft Windows Server 2008 R2 (64-bit)	\$2,641	8	- not available -	8.00 GB	- not available -	900.00 GB
VM-3004731	Microsoft Windows Server 2008 R2 (64-bit)	\$1,319	16	9%	16.00 GB	100%	201.00 GB
VM-3008472	Microsoft Windows Server 2012 (64-bit)	\$1,306	12	35%	24.00 GB	100%	210.00 GB
VM-3008490	Microsoft Windows Server 2016 (64-bit)	\$832	8	1%	4.00 GB	100%	50.00 GB
VM-3028160	Microsoft Windows Server 2012 (64-bit)	\$1,321	4	- not available -	16.00 GB	- not available -	290.00 GB
VM-3053071	Microsoft Windows Server 2012 (64-bit)	\$1,215	4	- not available -	8.00 GB	- not available -	254.00 GB
VM-3054687	Microsoft Windows Server 2016 (64-bit)	\$859	2	25%	8.00 GB	100%	100.00 GB
VM-306002	Microsoft Windows Server 2012 (64-bit)	\$1,193	8	- not available -	16.00 GB	- not available -	200.00 GB
VM-3077900	Microsoft Windows Server 2012 (64-bit)	\$711	2	- not available -	8.00 GB	- not available -	30.00 GB
VM-3097587	FreeBSD (64-bit)	\$1,279	2	- not available -	8.00 GB	- not available -	299.00 GB
VM-3104113	Microsoft Windows Server 2012 (64-bit)	\$1,370	1	- not available -	2.00 GB	- not available -	360.00 GB
VM-3111843	Microsoft Windows Server 2012 (64-bit)	\$1,729	2	- not available -	8.00 GB	- not available -	512.00 GB
VM-3111845	Linux 4.9.194 NAME=Buildroot VERSION=2019.02.6 ID...	\$673	2	47%	8.00 GB	100%	12.00 GB
VM-3113286	Microsoft Windows Server 2012 (64-bit)	\$910	8	- not available -	8.00 GB	- not available -	80.00 GB
VM-3126974	Microsoft Windows Server 2012 (64-bit)	\$760	2	- not available -	4.00 GB	- not available -	60.00 GB
VM-3154800	Microsoft Windows Server 2012 (64-bit)	\$1,226	12	- not available -	56.00 GB	- not available -	115.00 GB
VM-3154846	Microsoft Windows Server 2012 (64-bit)	\$1,226	12	- not available -	56.00 GB	- not available -	115.00 GB
VM-3155028	Microsoft Windows Server 2008 R2 (64-bit)	\$3,531	10	- not available -	40.00 GB	- not available -	1.22 TB
VM-3165806	Microsoft Windows Server 2012 (64-bit)	\$1,133	6	- not available -	56.00 GB	- not available -	115.00 GB
VM-3165880	Microsoft Windows Server 2016 (64-bit)	\$1,226	12	100%	56.00 GB	100%	115.00 GB
VM-3165924	Microsoft Windows Server 2012 (64-bit)	\$1,226	12	- not available -	56.00 GB	- not available -	115.00 GB

Appendix B: Detailed On-Premise Cost per VM (cont'd)

VM Name	Guest OS	VM Cost/yr	vCPU	vCPU 99th %ile Usage	vRAM	vRAM Peak Usage	vDisk Capacity (GB)
VM-3165998	Microsoft Windows Server 2016 (64-bit)	\$1,226	12	100%	56.00 GB	100%	115.00 GB
VM-3166011	Microsoft Windows Server 2016 (64-bit)	\$1,226	12	100%	56.00 GB	100%	115.00 GB
VM-3166012	Microsoft Windows Server 2012 (64-bit)	\$1,226	12	- not available -	56.00 GB	- not available -	115.00 GB
VM-3166030	Microsoft Windows Server 2016 (64-bit)	\$1,226	12	59%	56.00 GB	100%	115.00 GB
VM-3166088	Microsoft Windows Server 2012 (64-bit)	\$1,226	12	- not available -	56.00 GB	- not available -	115.00 GB
VM-3166089	Microsoft Windows Server 2016 (64-bit)	\$1,226	12	100%	56.00 GB	100%	115.00 GB
VM-3166090	Microsoft Windows Server 2016 (64-bit)	\$1,226	12	66%	56.00 GB	100%	115.00 GB
VM-3166252	Microsoft Windows Server 2016 (64-bit)	\$1,226	12	64%	56.00 GB	100%	115.00 GB
VM-3166571	Other Linux (32-bit)	\$605	1	- not available -	128.00 MB	- not available -	1.00 GB
VM-3167564	Other Linux (32-bit)	\$605	1	- not available -	128.00 MB	- not available -	1.00 GB
VM-316838	Debian GNU/Linux 6 (64-bit)	\$610	1	- not available -	1.00 GB	- not available -	2.00 GB
VM-316849	Debian GNU/Linux 6 (64-bit)	\$652	1	- not available -	1.00 GB	- not available -	22.00 GB
VM-316859	Debian GNU/Linux 6 (64-bit)	\$610	1	- not available -	1.00 GB	- not available -	2.00 GB
VM-316861	Debian GNU/Linux 6 (64-bit)	\$610	1	- not available -	1.00 GB	- not available -	2.00 GB
VM-316862	Debian GNU/Linux 6 (64-bit)	\$610	1	- not available -	1.00 GB	- not available -	2.00 GB
VM-316898	Debian GNU/Linux 6 (64-bit)	\$610	1	- not available -	1.00 GB	- not available -	2.00 GB
VM-316900	Debian GNU/Linux 6 (64-bit)	\$610	1	- not available -	1.00 GB	- not available -	2.00 GB
VM-3169289	Microsoft Windows Server 2012 (64-bit)	\$785	2	- not available -	8.00 GB	- not available -	65.00 GB
VM-3178933	Microsoft Windows Server 2012 (64-bit)	\$8,355	2	- not available -	8.00 GB	- not available -	3.56 TB
VM-31791	Microsoft Windows Server 2008 R2 (64-bit)	\$1,689	8	31%	16.00 GB	100%	435.00 GB
VM-3188801	Microsoft Windows Server 2016 (64-bit)	\$763	4	8%	8.00 GB	100%	40.00 GB
VM-3188949	Other Linux (32-bit)	\$605	1	- not available -	128.00 MB	- not available -	1.00 GB
VM-3213330	Ubuntu Linux (64-bit)	\$721	4	- not available -	8.00 GB	- not available -	20.00 GB
VM-3214649	Red Hat Enterprise Linux 6 (64-bit)	\$785	4	- not available -	8.00 GB	- not available -	50.00 GB
VM-3226386	Microsoft Windows Server 2016 (64-bit)	\$3,698	4	- not available -	8.00 GB	- not available -	1.40 TB
VM-3231883	Microsoft Windows Server 2012 (64-bit)	\$785	2	- not available -	8.00 GB	- not available -	65.00 GB
VM-3231989	Red Hat Enterprise Linux 6 (64-bit)	\$610	1	- not available -	2.00 GB	- not available -	100.00 MB



Appendix B: Detailed On-Premise Cost per VM (cont'd)

VM Name	Guest OS	VM Cost/yr	vCPU	vCPU 99th %ile Usage	vRAM	vRAM Peak Usage	vDisk Capacity (GB)
VM-3232100	Microsoft Windows Server 2012 (64-bit)	\$1,226	12	- not available -	56.00 GB	- not available -	115.00 GB
VM-3232119	Microsoft Windows Server 2012 (64-bit)	\$1,226	12	- not available -	56.00 GB	- not available -	115.00 GB
VM-3233309	Microsoft Windows Server 2016 (64-bit)	\$1,226	12	53%	56.00 GB	100%	115.00 GB
VM-3266163	Ubuntu Linux (64-bit)	\$1,227	4	- not available -	7.81 GB	- not available -	260.19 GB
VM-3270565	Linux 3.10.0-957.el7.x86_64 CentOS Linux release ...	\$739	2	8%	4.00 GB	100%	50.00 GB
VM-3277408	Microsoft Windows Server 2012 (64-bit)	\$6,188	8	- not available -	72.00 GB	- not available -	2.41 TB
VM-3279807	Red Hat Enterprise Linux 6 (64-bit)	\$10,786	12	- not available -	80.00 GB	- not available -	4.49 TB
VM-3281612	Microsoft Windows Server 2012 (64-bit)	\$1,017	4	- not available -	8.00 GB	- not available -	160.00 GB
VM-3285700	Microsoft Windows Server 2003 (64-bit)	\$4,953	8	- not available -	31.99 GB	- not available -	1.91 TB
VM-3287570	Microsoft Windows Server 2003 Standard (32-bit)	\$646	1	- not available -	512.00 MB	- not available -	20.00 GB
VM-3290192	Microsoft Windows Server 2008 R2 (64-bit)	\$1,453	16	- not available -	7.98 GB	- not available -	278.47 GB
VM-3292745	Microsoft Windows Server 2012 (64-bit)	\$769	4	17%	4.00 GB	100%	49.87 GB
VM-3292780	Microsoft Windows Server 2008 R2 (64-bit)	\$716	1	94%	2.00 GB	100%	50.00 GB
VM-3294939	Microsoft Windows Server 2012 (64-bit)	\$2,641	8	- not available -	8.00 GB	- not available -	900.00 GB
VM-3296304	Microsoft Windows Server 2008 R2 (64-bit)	\$995	2	69%	16.00 GB	100%	150.00 GB
VM-3296306	Microsoft Windows Server 2008 R2 (64-bit)	\$995	2	75%	16.00 GB	100%	150.00 GB
VM-3296345	Microsoft Windows Server 2008 R2 (64-bit)	\$995	2	75%	16.00 GB	100%	150.00 GB
VM-3296500	Microsoft Windows Server 2008 R2 (64-bit)	\$995	2	75%	16.00 GB	100%	150.00 GB
VM-3296507	Microsoft Windows Server 2008 R2 (64-bit)	\$995	2	67%	16.00 GB	98%	150.00 GB
VM-3296509	Microsoft Windows Server 2008 R2 (64-bit)	\$995	2	61%	16.00 GB	100%	150.00 GB
VM-3296854	Linux 4.7.4Zerto+ Debian GNU/Linux 8.5 (jessie)	\$1,405	1	38%	3.00 GB	99%	374.52 GB
VM-3296907	Microsoft Windows Server 2008 R2 (64-bit)	\$754	2	49%	8.00 GB	98%	50.00 GB
VM-3296911	Microsoft Windows Server 2008 R2 (64-bit)	\$2,036	4	48%	32.00 GB	100%	600.00 GB
VM-3297124	Microsoft Windows Server 2012 (64-bit)	\$1,016	2	2%	16.00 GB	89%	159.87 GB
VM-3297133	Microsoft Windows Server 2008 R2 (64-bit)	\$1,311	2	100%	16.00 GB	100%	300.00 GB
VM-3297554	Linux 4.7.4Zerto+ Debian GNU/Linux 8.5 (jessie)	\$640	1	82%	3.00 GB	98%	12.50 GB
VM-3297571	Microsoft Windows Server 2008 R2 (64-bit)	\$1,286	2	70%	16.00 GB	100%	288.00 GB

Appendix B: Detailed On-Premise Cost per VM (cont'd)

VM Name	Guest OS	VM Cost/yr	vCPU	vCPU 99th %-ile Usage	vRAM	vRAM Peak Usage	vDisk Capacity (GB)
VM-3297762	Microsoft Windows Server 2012 (64-bit)	\$717	2	6%	4.00 GB	75%	40.00 GB
VM-3297777	Microsoft Windows Server 2012 (64-bit)	\$717	2	6%	4.00 GB	87%	40.00 GB
VM-3298183	Microsoft Windows Server 2008 R2 (64-bit)	\$952	8	17%	8.00 GB	100%	100.00 GB
VM-3298301	Microsoft Windows Server 2012 (64-bit)	\$812	2	13%	4.00 GB	100%	85.00 GB
VM-3298337	Microsoft Windows Server 2012 (64-bit)	\$849	2	16%	8.00 GB	65%	95.00 GB
VM-3298352	Microsoft Windows Server 2012 (64-bit)	\$847	8	24%	8.00 GB	72%	50.00 GB
VM-3298359	Microsoft Windows Server 2008 R2 (64-bit)	\$917	8	17%	4.00 GB	100%	90.50 GB
VM-3298381	Microsoft Windows Server 2008 R2 (64-bit)	\$912	8	31%	8.00 GB	100%	81.00 GB
VM-3298667	Microsoft Windows Server 2008 R2 (64-bit)	\$1,827	4	75%	32.00 GB	100%	501.00 GB
VM-3298827	Other Linux (32-bit)	\$673	1	- not available -	2.00 GB	- not available -	30.00 GB
VM-3298913	Microsoft Windows Server 2008 R2 (64-bit)	\$791	4	32%	4.00 GB	100%	60.00 GB
VM-3298938	Microsoft Windows Server 2008 R2 (64-bit)	\$891	4	31%	8.00 GB	100%	100.50 GB
VM-3298975	Other Linux (32-bit)	\$673	1	- not available -	2.00 GB	- not available -	30.00 GB
VM-3298980	Other Linux (32-bit)	\$673	1	1%	2.00 GB	36%	30.00 GB
VM-3300384	Linux 4.7.4Zerto+ Debian GNU/Linux 8.5 (jessie)	\$640	1	32%	3.00 GB	84%	12.50 GB
VM-3300385	Linux 4.7.4Zerto+ Debian GNU/Linux 8.5 (jessie)	\$640	1	2%	3.00 GB	83%	12.50 GB
VM-3300386	Linux 4.7.4Zerto+ Debian GNU/Linux 8.5 (jessie)	\$640	1	13%	3.00 GB	83%	12.50 GB
VM-3300543	Linux 4.7.4Zerto+ Debian GNU/Linux 8.5 (jessie)	\$640	1	7%	3.00 GB	82%	12.50 GB
VM-3300550	Linux 4.7.4Zerto+ Debian GNU/Linux 8.5 (jessie)	\$640	1	3%	3.00 GB	81%	12.50 GB
VM-3300551	Linux 4.7.4Zerto+ Debian GNU/Linux 8.5 (jessie)	\$2,752	1	97%	3.00 GB	86%	0.99 TB
VM-3300577	Microsoft Windows Server 2008 R2 (64-bit)	\$1,327	4	30%	12.00 GB	87%	300.00 GB
VM-3300581	Linux 4.7.4Zerto+ Debian GNU/Linux 8.5 (jessie)	\$640	1	4%	3.00 GB	80%	12.50 GB
VM-3300830	Red Hat Enterprise Linux 5 (32-bit)	\$664	2	14%	1.00 GB	41%	20.00 GB
VM-3300832	Microsoft Windows Server 2016 (64-bit)	\$739	2	22%	4.00 GB	100%	50.00 GB
VM-3300877	Microsoft Windows Server 2008 R2 (64-bit)	\$1,603	8	- not available -	8.00 GB	- not available -	408.38 GB
VM-34462	Microsoft Windows Server 2008 R2 (64-bit)	\$932	4	- not available -	8.00 GB	- not available -	120.00 GB
VM-383335	Microsoft Windows Server 2008 R2 (64-bit)	\$1,017	4	- not available -	8.00 GB	- not available -	160.00 GB



Appendix B: Detailed On-Premise Cost per VM (cont'd)

VM Name	Guest OS	VM Cost/yr	vCPU	vCPU 99th %-ile Usage	vRAM	vRAM Peak Usage	vDisk Capacity (GB)
VM-383336	Microsoft Windows Server 2008 R2 (64-bit)	\$950	2	- not available -	4.00 GB	- not available -	150.00 GB
VM-394946	SUSE Linux Enterprise 11 (64-bit)	\$648	1	1%	3.52 GB	100%	15.00 GB
VM-40218	Red Hat Enterprise Linux 6 (64-bit)	\$1,122	4	- not available -	8.00 GB	- not available -	210.00 GB
VM-404209	Red Hat Enterprise Linux 6 (64-bit)	\$739	2	- not available -	4.00 GB	- not available -	50.00 GB
VM-410221	CentOS 4/5/6/7 (64-bit)	\$673	1	1%	2.00 GB	93%	30.00 GB
VM-411074	Microsoft Windows Server 2012 (64-bit)	\$2,955	2	- not available -	32.00 GB	- not available -	1.03 TB
VM-414301	Microsoft Windows Server 2012 (64-bit)	\$889	2	- not available -	16.00 GB	- not available -	100.00 GB
VM-414310	Microsoft Windows Server 2012 (64-bit)	\$739	2	- not available -	4.00 GB	- not available -	50.00 GB
VM-414310_repli_ca	Microsoft Windows Server 2012 (64-bit)	\$739	2	- not available -	4.00 GB	- not available -	50.00 GB
VM-414312	Microsoft Windows Server 2012 (64-bit)	\$739	2	- not available -	4.00 GB	- not available -	50.00 GB
VM-414313	Microsoft Windows Server 2012 (64-bit)	\$894	1	- not available -	2.00 GB	- not available -	40.00 GB
VM-414370	Microsoft Windows Server 2012 (64-bit)	\$1,070	2	31%	8.00 GB	100%	200.00 GB
VM-414376	Microsoft Windows Server 2012 (64-bit)	\$1,070	2	22%	8.00 GB	100%	200.00 GB
VM-424801	Microsoft Windows Server 2012 (64-bit)	\$2,793	4	- not available -	64.00 GB	- not available -	902.00 GB
VM-427165	Microsoft Windows Server 2012 (64-bit)	\$802	2	- not available -	4.00 GB	- not available -	80.00 GB
VM-427167	Microsoft Windows Server 2012 (64-bit)	\$802	2	- not available -	4.00 GB	- not available -	80.00 GB
VM-427168	Microsoft Windows Server 2012 (64-bit)	\$802	2	- not available -	4.00 GB	- not available -	80.00 GB
VM-427172	Microsoft Windows Server 2012 (64-bit)	\$802	2	- not available -	4.00 GB	- not available -	80.00 GB
VM-427174	Microsoft Windows Server 2012 (64-bit)	\$920	4	- not available -	16.00 GB	- not available -	100.00 GB
VM-427185	Microsoft Windows Server 2012 (64-bit)	\$920	4	- not available -	16.00 GB	- not available -	100.00 GB
VM-427186	Microsoft Windows Server 2012 (64-bit)	\$848	4	- not available -	8.00 GB	- not available -	80.00 GB
VM-427187	Microsoft Windows Server 2012 (64-bit)	\$781	1	- not available -	2.00 GB	- not available -	81.00 GB
VM-428148	Microsoft Windows Server 2012 (64-bit)	\$965	2	13%	8.00 GB	100%	150.00 GB
VM-428150	Microsoft Windows Server 2012 (64-bit)	\$965	2	25%	8.00 GB	100%	150.00 GB
VM-433972	Microsoft Windows Server 2012 (64-bit)	\$920	4	- not available -	16.00 GB	- not available -	100.00 GB
VM-433973	Microsoft Windows Server 2012 (64-bit)	\$890	4	- not available -	8.00 GB	- not available -	100.00 GB
VM-442584	Microsoft Windows Server 2008 R2 (64-bit)	\$1,028	2	14%	8.00 GB	100%	180.00 GB



Appendix B: Detailed On-Premise Cost per VM (cont'd)

VM Name	Guest OS	VM Cost/yr	vCPU	vCPU 99th %ile Usage	vRAM	vRAM Peak Usage	vDisk Capacity (GB)
VM-442587	Microsoft Windows Server 2008 R2 (64-bit)	\$965	2	24%	8.00 GB	100%	150.00 GB
VM-444	Microsoft Windows Server 2003 Standard (32-bit)	\$1,294	1	- not available -	4.00 GB	- not available -	320.00 GB
VM-444328	Other 2.6.x Linux (64-bit)	\$1,421	2	32%	4.00 GB	97%	373.00 GB
VM-446044	Microsoft Windows Server 2012 (64-bit)	\$737	1	- not available -	2.00 GB	- not available -	60.00 GB
VM-446044_repli ca	Microsoft Windows Server 2012 (64-bit)	\$737	1	- not available -	2.00 GB	- not available -	60.00 GB
VM-448619	Microsoft Windows Server 2008 R2 (64-bit)	\$950	2	- not available -	4.00 GB	- not available -	150.00 GB
VM-454902	Microsoft Windows Server 2012 (64-bit)	\$890	4	- not available -	8.00 GB	- not available -	100.00 GB
VM-454909	Microsoft Windows Server 2012 (64-bit)	\$802	2	- not available -	4.00 GB	- not available -	80.00 GB
VM-454918	Microsoft Windows Server 2012 (64-bit)	\$848	4	- not available -	8.00 GB	- not available -	80.00 GB
VM-454929	Microsoft Windows Server 2012 (64-bit)	\$844	2	- not available -	4.00 GB	- not available -	100.00 GB
VM-454931	Microsoft Windows Server 2012 (64-bit)	\$844	2	- not available -	4.00 GB	- not available -	100.00 GB
VM-458	Microsoft Windows Server 2003 Standard (32-bit)	\$1,704	2	- not available -	8.00 GB	- not available -	500.00 GB
VM-466101	FreeBSD (64-bit)	\$668	2	- not available -	2.00 GB	- not available -	20.00 GB
VM-46779	Red Hat Enterprise Linux 6 (64-bit)	\$1,800	6	- not available -	20.00 GB	- not available -	400.00 GB
VM-473751	Microsoft Windows Server 2012 (64-bit)	\$1,161	2	- not available -	4.00 GB	- not available -	250.00 GB
VM-473751_repli ca	Microsoft Windows Server 2012 (64-bit)	\$1,161	2	- not available -	4.00 GB	- not available -	250.00 GB
VM-475540	Microsoft Windows Server 2012 (64-bit)	\$760	2	- not available -	4.00 GB	- not available -	60.00 GB
VM-475540_repli ca	Microsoft Windows Server 2012 (64-bit)	\$760	2	- not available -	4.00 GB	- not available -	60.00 GB
VM-480495	Microsoft Windows Server 2008 R2 (64-bit)	\$868	8	12%	8.00 GB	100%	60.00 GB
VM-491139	Microsoft Windows Server 2008 R2 (64-bit)	\$847	8	11%	8.00 GB	100%	50.00 GB
VM-492086	Microsoft Windows Server 2012 (64-bit)	\$894	1	- not available -	2.00 GB	- not available -	40.00 GB
VM-515883	Microsoft Windows Server 2012 (64-bit)	\$889	2	- not available -	16.00 GB	- not available -	100.00 GB
VM-515883_repli ca	Microsoft Windows Server 2012 (64-bit)	\$889	2	- not available -	16.00 GB	- not available -	100.00 GB
VM-515885	Microsoft Windows Server 2012 (64-bit)	\$889	2	- not available -	16.00 GB	- not available -	100.00 GB
VM-515885_repli ca	Microsoft Windows Server 2012 (64-bit)	\$889	2	- not available -	16.00 GB	- not available -	100.00 GB
VM-515886	Microsoft Windows Server 2012 (64-bit)	\$889	2	- not available -	16.00 GB	- not available -	100.00 GB
VM-515886_repli ca	Microsoft Windows Server 2012 (64-bit)	\$889	2	- not available -	16.00 GB	- not available -	100.00 GB



Appendix B: Detailed On-Premise Cost per VM (cont'd)

VM Name	Guest OS	VM Cost/yr	vCPU	vCPU 99th %ile Usage	vRAM	vRAM Peak Usage	vDisk Capacity (GB)
VM-515887	Microsoft Windows Server 2012 (64-bit)	\$844	2	- not available -	4.00 GB	- not available -	100.00 GB
VM-515887_repli ca	Microsoft Windows Server 2012 (64-bit)	\$844	2	- not available -	4.00 GB	- not available -	100.00 GB
VM-515888	Microsoft Windows Server 2012 (64-bit)	\$760	2	- not available -	4.00 GB	- not available -	60.00 GB
VM-515888_repli ca	Microsoft Windows Server 2012 (64-bit)	\$760	2	- not available -	4.00 GB	- not available -	60.00 GB
VM-529692	Microsoft Windows Server 2012 (64-bit)	\$859	2	- not available -	8.00 GB	- not available -	100.00 GB
VM-567854	Microsoft Windows Server 2008 R2 (64-bit)	\$982	8	- not available -	16.00 GB	- not available -	100.00 GB
VM-567855	Microsoft Windows Server 2008 R2 (64-bit)	\$952	8	- not available -	8.00 GB	- not available -	100.00 GB
VM-567856	Microsoft Windows Server 2008 R2 (64-bit)	\$996	4	- not available -	8.00 GB	- not available -	150.00 GB
VM-567857	Microsoft Windows Server 2008 R2 (64-bit)	\$1,101	4	- not available -	8.00 GB	- not available -	200.00 GB
VM-587917	Microsoft Windows Server 2012 (64-bit)	\$2,203	8	- not available -	32.00 GB	- not available -	650.00 GB
VM-59849	Other Linux (32-bit)	\$605	1	- not available -	128.00 MB	- not available -	1.00 GB
VM-603018	Microsoft Windows Server 2012 (64-bit)	\$952	8	- not available -	8.00 GB	- not available -	100.00 GB
VM-603018_repli ca	Microsoft Windows Server 2012 (64-bit)	\$952	8	- not available -	8.00 GB	- not available -	100.00 GB
VM-603021	Microsoft Windows Server 2012 (64-bit)	\$952	8	- not available -	8.00 GB	- not available -	100.00 GB
VM-603021_repli ca	Microsoft Windows Server 2012 (64-bit)	\$952	8	- not available -	8.00 GB	- not available -	100.00 GB
VM-606042	Microsoft Windows Server 2008 R2 (64-bit)	\$922	4	- not available -	16.00 GB	- not available -	101.00 GB
VM-606043	Microsoft Windows Server 2008 R2 (64-bit)	\$890	4	- not available -	8.00 GB	- not available -	100.00 GB
VM-6066	Other Linux (32-bit)	\$605	1	- not available -	128.00 MB	- not available -	1.00 GB
VM-613266	Microsoft Windows Server 2012 (64-bit)	\$3,077	4	- not available -	30.00 GB	- not available -	1.07 TB
VM-616420	Microsoft Windows Server 2012 (64-bit)	\$696	2	3%	4.00 GB	100%	30.00 GB
VM-62797	Microsoft Windows Server 2008 R2 (64-bit)	\$984	8	- not available -	16.00 GB	- not available -	101.00 GB
VM-62803	Microsoft Windows Server 2008 R2 (64-bit)	\$1,133	4	32%	16.00 GB	100%	201.00 GB
VM-62887	Microsoft Windows Server 2008 R2 (64-bit)	\$937	8	- not available -	4.00 GB	- not available -	100.00 GB
VM-62889	Microsoft Windows Server 2008 R2 (64-bit)	\$1,101	4	- not available -	8.00 GB	- not available -	200.00 GB
VM-640366	Microsoft Windows Server 2012 (64-bit)	\$4,120	2	99%	16.00 GB	100%	1.59 TB
VM-64058	Microsoft Windows Server 2008 R2 (64-bit)	\$996	4	- not available -	8.00 GB	- not available -	150.00 GB
VM-64060	Microsoft Windows Server 2008 R2 (64-bit)	\$1,101	4	- not available -	8.00 GB	- not available -	200.00 GB



Appendix B: Detailed On-Premise Cost per VM (cont'd)

VM Name	Guest OS	VM Cost/yr	vCPU	vCPU 99th %ile Usage	vRAM	vRAM Peak Usage	vDisk Capacity (GB)
VM-641234	Microsoft Windows Server 2012 (64-bit)	\$7,756	4	- not available -	32.00 GB	- not available -	3.23 TB
VM-641243	Microsoft Windows Server 2012 (64-bit)	\$1,055	2	- not available -	4.00 GB	- not available -	200.00 GB
VM-641245	Microsoft Windows Server 2012 (64-bit)	\$890	4	- not available -	8.00 GB	- not available -	99.87 GB
VM-641247	Microsoft Windows Server 2012 (64-bit)	\$848	4	- not available -	8.00 GB	- not available -	80.00 GB
VM-641263	Microsoft Windows Server 2008 R2 (64-bit)	\$2,309	2	88%	28.00 GB	100%	751.00 GB
VM-651445	Microsoft Windows Server 2012 (64-bit)	\$779	1	- not available -	2.00 GB	- not available -	80.00 GB
VM-659384	Microsoft Windows Server 2008 R2 (64-bit)	\$3,059	6	- not available -	32.00 GB	- not available -	1.04 TB
VM-692065	Microsoft Windows Server 2012 (64-bit)	\$993	6	78%	16.00 GB	100%	120.00 GB
VM-702	Other Linux (32-bit)	\$737	1	1%	2.00 GB	99%	60.00 GB
VM-704404	Ubuntu Linux (64-bit)	\$1,227	4	- not available -	7.81 GB	- not available -	260.19 GB
VM-707	CentOS 4/5/6 (32-bit)	\$772	1	1%	256.00 MB	99%	80.00 GB
VM-71265	Microsoft Windows Server 2008 (32-bit)	\$2,911	6	100%	32.00 GB	100%	0.98 TB
VM-718579	Microsoft Windows Server 2008 R2 (64-bit)	\$1,361	8	- not available -	32.00 GB	- not available -	251.00 GB
VM-718580	Microsoft Windows Server 2008 R2 (64-bit)	\$1,315	4	- not available -	8.00 GB	- not available -	301.00 GB
VM-727872	Microsoft Windows Server 2012 (64-bit)	\$3,332	4	- not available -	96.00 GB	- not available -	1.07 TB
VM-728342	FreeBSD (64-bit)	\$668	2	- not available -	2.00 GB	- not available -	20.00 GB
VM-729998	Microsoft Windows Server 2008 R2 (64-bit)	\$1,184	8	10%	8.00 GB	100%	210.00 GB
VM-738447	Microsoft Windows Server 2012 (64-bit)	\$741	2	1%	4.00 GB	100%	51.00 GB
VM-742648	Microsoft Windows Server 2012 (64-bit)	\$844	2	- not available -	4.00 GB	- not available -	100.00 GB
VM-744955	Microsoft Windows Server 2012 (64-bit)	\$1,343	8	- not available -	16.00 GB	- not available -	271.00 GB
VM-758114	Microsoft Windows Server 2012 (64-bit)	\$696	2	1%	4.00 GB	100%	30.00 GB
VM-775036	Microsoft Windows Server 2012 (64-bit)	\$806	4	- not available -	8.00 GB	- not available -	60.00 GB
VM-775041	Microsoft Windows Server 2008 R2 (64-bit)	\$952	8	- not available -	8.00 GB	- not available -	100.00 GB
VM-78395	Microsoft Windows Server 2008 R2 (64-bit)	\$1,148	8	- not available -	32.00 GB	- not available -	150.00 GB
VM-783970	Microsoft Windows Server 2012 (64-bit)	\$2,150	4	- not available -	6.00 GB	- not available -	700.00 GB
VM-78398	Microsoft Windows Server 2008 R2 (64-bit)	\$1,524	4	- not available -	8.00 GB	- not available -	400.00 GB
VM-784	Other Linux (64-bit)	\$782	8	8%	2.00 GB	100%	30.00 GB



Appendix B: Detailed On-Premise Cost per VM (cont'd)

VM Name	Guest OS	VM Cost/yr	vCPU	vCPU 99th %-ile Usage	vRAM	vRAM Peak Usage	vDisk Capacity (GB)
VM-788297	Microsoft Windows Server 2008 R2 (64-bit)	\$1,391	8	- not available -	40.00 GB	- not available -	251.00 GB
VM-789386	Red Hat Enterprise Linux 6 (64-bit)	\$768	8	2%	4.00 GB	97%	20.00 GB
VM-826262	Microsoft Windows Server 2012 (64-bit)	\$1,597	4	- not available -	8.00 GB	- not available -	435.00 GB
VM-841035	Microsoft Windows Server 2012 (64-bit)	\$5,683	2	- not available -	15.99 GB	- not available -	2.31 TB
VM-841644	Microsoft Windows Server 2008 R2 (64-bit)	\$3,111	8	- not available -	94.00 GB	- not available -	970.00 GB
VM-842568	Microsoft Windows Server 2008 R2 (64-bit)	\$939	4	- not available -	10.00 GB	- not available -	120.00 GB
VM-847502	Microsoft Windows Server 2008 R2 (64-bit)	\$962	4	- not available -	16.00 GB	- not available -	120.00 GB
VM-848311	Microsoft Windows Server 2008 R2 (64-bit)	\$1,101	4	- not available -	8.00 GB	- not available -	200.00 GB
VM-848312	Microsoft Windows Server 2008 R2 (64-bit)	\$998	4	- not available -	8.00 GB	- not available -	151.00 GB
VM-857193	Microsoft Windows Server 2012 (64-bit)	\$9,285	2	- not available -	8.00 GB	- not available -	3.99 TB
VM-86491	Microsoft Windows Server 2003 Standard (32-bit)	\$710	2	69%	2.00 GB	100%	40.00 GB
VM-866461	CentOS 4/5/6/7 (64-bit)	\$716	1	1%	2.00 GB	99%	50.00 GB
VM-867476	Ubuntu Linux (64-bit)	\$658	2	- not available -	4.00 GB	- not available -	12.00 GB
VM-869273	Microsoft Windows Server 2012 (64-bit)	\$5,027	16	- not available -	96.00 GB	- not available -	1.77 TB
VM-869280	Microsoft Windows Server 2012 (64-bit)	\$3,802	4	- not available -	16.00 GB	- not available -	1.43 TB
VM-874035	FreeBSD (64-bit)	\$875	2	- not available -	4.00 GB	- not available -	20.00 GB
VM-875839	FreeBSD (64-bit)	\$875	2	- not available -	4.00 GB	- not available -	20.00 GB
VM-877117	Microsoft Windows Server 2008 R2 (64-bit)	\$1,674	1	- not available -	4.00 GB	- not available -	500.00 GB
VM-877249	Microsoft Windows Server 2008 R2 (64-bit)	\$952	8	- not available -	8.00 GB	- not available -	100.00 GB
VM-877250	Microsoft Windows Server 2008 R2 (64-bit)	\$1,103	4	- not available -	8.00 GB	- not available -	201.00 GB
VM-879746	Microsoft Windows Server 2008 R2 (64-bit)	\$739	2	- not available -	4.00 GB	- not available -	50.00 GB
VM-879748	Microsoft Windows Server 2008 R2 (64-bit)	\$859	2	- not available -	8.00 GB	- not available -	100.00 GB
VM-887281	Microsoft Windows Server 2012 (64-bit)	\$17,003	2	- not available -	4.00 GB	- not available -	7.57 TB
VM-888680	Microsoft Windows Server 2012 (64-bit)	\$1,138	6	- not available -	32.00 GB	- not available -	160.00 GB
VM-892325	Microsoft Windows Server 2012 (64-bit)	\$1,138	6	- not available -	32.00 GB	- not available -	160.00 GB
VM-892357	Microsoft Windows Server 2008 R2 (64-bit)	\$1,138	6	- not available -	32.00 GB	- not available -	160.00 GB
VM-892358	Microsoft Windows Server 2008 R2 (64-bit)	\$1,138	6	- not available -	32.00 GB	- not available -	160.00 GB



Appendix B: Detailed On-Premise Cost per VM (cont'd)

VM Name	Guest OS	VM Cost/yr	vCPU	vCPU 99th %ile Usage	vRAM	vRAM Peak Usage	vDisk Capacity (GB)
VM-907024	Microsoft Windows Server 2012 (64-bit)	\$2,067	2	- not available -	12.00 GB	- not available -	665.00 GB
VM-913604	Microsoft Windows Server 2008 R2 (64-bit)	\$890	4	- not available -	8.00 GB	- not available -	100.00 GB
VM-913609	Microsoft Windows Server 2008 R2 (64-bit)	\$890	4	- not available -	8.00 GB	- not available -	100.00 GB
VM-914830	Microsoft Windows Server 2008 R2 (64-bit)	\$859	2	- not available -	8.00 GB	- not available -	100.00 GB
VM-9209	Microsoft Windows Server 2008 R2 (64-bit)	\$965	2	- not available -	8.00 GB	- not available -	150.00 GB
VM-92543	Ubuntu Linux (64-bit)	\$1,048	4	- not available -	8.00 GB	- not available -	175.00 GB
VM-931949	Microsoft Windows Server 2012 (64-bit)	\$1,591	4	- not available -	8.00 GB	- not available -	432.00 GB
VM-980498	Microsoft Windows Server 2012 (64-bit)	\$901	2	- not available -	8.00 GB	- not available -	120.00 GB
VM-997254	Other 2.6.x Linux (64-bit)	\$701	2	- not available -	4.00 GB	- not available -	32.00 GB
VM-997256	Other 2.6.x Linux (64-bit)	\$701	2	- not available -	4.00 GB	- not available -	32.00 GB

GCP Settings

GCP Location: **Frankfurt (europe-west3)**

Match to GPUs providing: Best Performance

Storage Type: Zonal

Sole Tenant Nodes Included: Yes

Storage Media: Optimal

Allow Oversubscription: Yes

Instance CPU: Intel Based

BYO Microsoft Licenses: **No**

Match to standard instances only: No

Term Length: **3 Years**

Exclude E2 instances: Yes

Instance Class: Regular

Consider GPUs when: GPUs Already in Place

BYO Linux Licenses: No



CLOUDPHYSICS

&



Google Cloud &

**Assessment Report for 629 VMs in your environment**

vCenter: demo.google.com | Datacenter: Datacenter-2

GCP Rightsizing: 99th %-ile vCPU and Peak vRAM Usage

Appendix C: vCenter Details for entire environment

vCenter Name	Version	Datacenters	Hosts	Powered On VMs	Virtual CPUs	Physical CPU Cores	Virtual Memory	Physical Memory
demo.google.com	5.5*	1	13	182	752	312	2.20 TB	3.76 TB

**This VMware vCenter is not running the most recent version and may require to be upgraded. Upgrading to the most recent VMware vCenter version will be required to support the most recent VMware ESXi release and supporting services.*