Total Cost of Ownership (TCO) Calculator

Estimate the cost savings you can realize by migrating your workloads to Azure
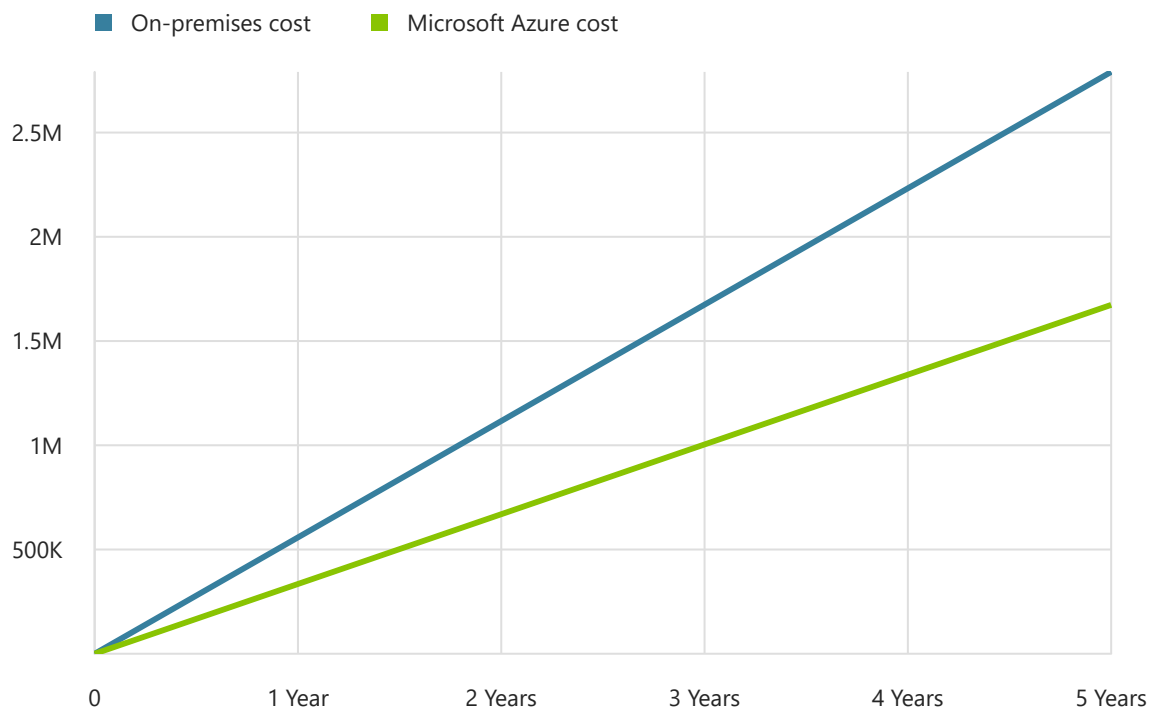
Over 5 year(s) with Microsoft Azure, your estimated cost savings could be as much as €1,117,500

Total on-premises vs. Azure cost over time

Savings from running workloads in Azure accrue over time. The following shows how those savings add up over years.

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Legend: On-premises cost, Microsoft Azure cost

Total on-premises over 5 year(s)

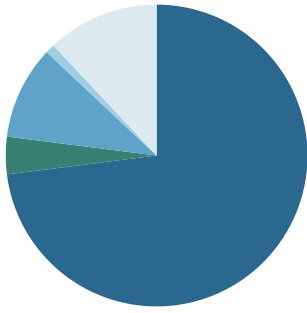TCO of on-premises environments tends to be driven by compute and data center costs.

Total Azure cost over 5 year(s)

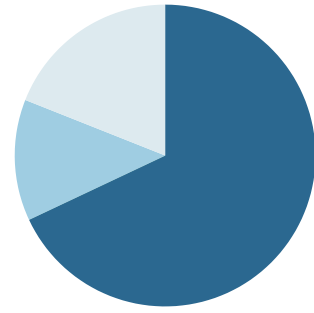In Azure, certain cost categories decrease or go away completely.

€2,790,834
Total cost

€1,673,334
Total cost

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73%
Compute

4%
Data center

10%
Networking

1%
Storage

12%
IT Labor

68%
Compute

0%
Data center

0%
Networking

13%
Storage

19%
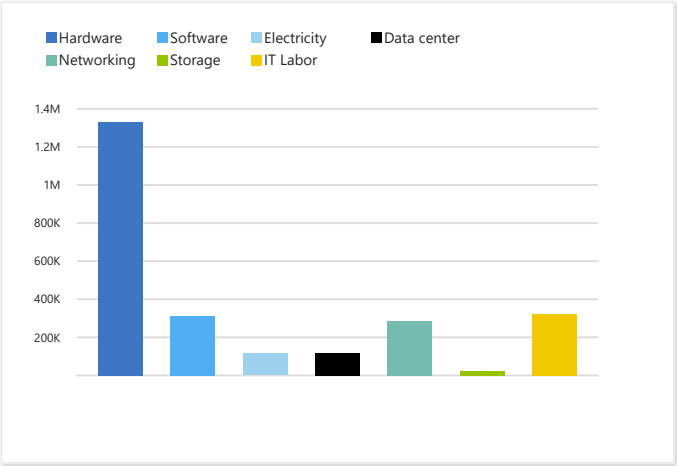IT Labor

Total on-premises cost breakdown

In Azure, several of the cost categories from the on-premises environment are consolidated and decrease with the efficiency that comes with the cloud.

Total Azure cost breakdown

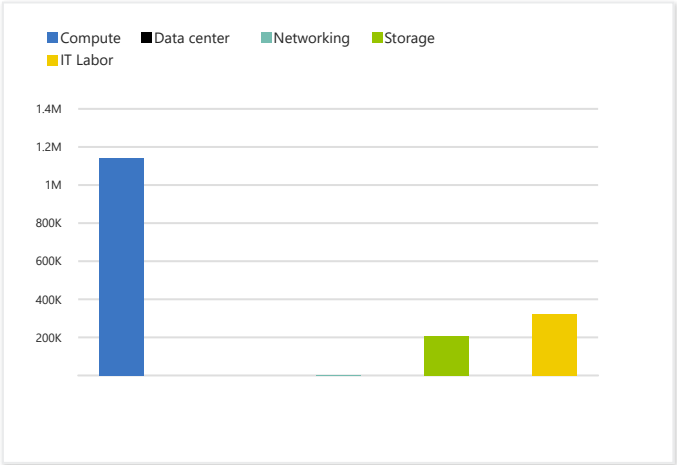In Azure, several of the cost categories from the on-premises environment are consolidated and decrease with the efficiency that comes with the cloud.

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€2,790,834
Cost over 5 year(s)

€1,673,334
Cost over 5 year(s)

On-premises cost breakdown summary

Azure cost breakdown summary

Category	Cost
Compute	€2,045,203.41

Category	Cost
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Hardware	€1,332,886.25	Compute	€1,140,843.23
Software	€311,432.70	Data Center	€0.00
Electricity	€115,505.11	Networking	€7.59
Virtualization	€285,379.33	Storage	€209,218.28
Data Center	€117,256.00	IT Labor	€323,264.6767
Networking	€283,758.86		
Storage	€21,351.00		
IT Labor	€323,264.68		

Total	**€2,790,833.89**

Total	**€1,673,334.05**

Estimated on-premises cost (5 year(s))

Estimated Azure cost (5 year(s))

Compute cost

Azure compute cost

Hardware cost

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Virtual machine density - Number of virtual cores that can be created per physical core	3
Cost per 4 proc 32 core, 2000 GB RAM virtualization server for Windows	€83,305.39
Number of servers needed for 50 virtual machine(s) - 8 core, 16 GB RAM	2
Cost per 4 proc 32 core, 2000 GB RAM virtualization server for Linux	€83,305.39
Number of servers needed for 50 virtual machine(s) - 8 core, 16 GB RAM	2
Cost per 4 proc 32 core, 2000 GB RAM virtualization server for Windows	€83,305.39
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Cost per 4 proc 32 core, 2000 GB RAM virtualization server for Windows	€83,305.39
Number of servers needed for 50 virtual machine(s) - 8 core, 16 GB RAM	2
Total cost for virtualization server(s)	€666,443.12
Cost of maintaining virtualization server(s) - 20% of cost of virtualization server(s)	€133,288.62
Total cost of maintaining server(s) over five year(s)	€666,443.12

Total hardware cost over five year(s)	**€1,332,886.25**

Software cost

Cost of Windows datacenter license per 4 proc, 32 core, 2000 GB RAM virtualization server	€41,524.36
Number of servers needed for 50 virtual machine(s) - 8 core, 16 GB RAM	2
Cost of Windows datacenter license per 4 proc, 32 core, 2000 GB RAM virtualization server	€41,524.36
Number of servers needed for 50 virtual machine(s) - 8 core, 16 GB RAM	2

Virtual Machines cost

Number of hours per month	730
F8sv2 Standard (8 core, 16 GB RAM) Windows (Azure Hybrid Benefit)	SKU# AAA-57371
Number of virtual machines	50
Total virtual machine cost per month	€4,753.513
F8sv2 Standard (8 core, 16 GB RAM) Linux	SKU# AAA-57366
Number of virtual machines	50
Total virtual machine cost per month	€4,753.513
F8sv2 Standard (8 core, 16 GB RAM) Windows (Azure Hybrid Benefit)	SKU# AAA-57371
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F8sv2 Standard (8 core, 16 GB RAM) Windows (Azure Hybrid Benefit)	SKU# AAA-57371
Number of virtual machines	50
Total virtual machine cost per month	€4,753.513

Total Azure Virtual Machines cost	**€1,140,843.23**

NOTE: For Azure compute costs, 3 year Reserved VM and two 1 year Reserved VM in use.

Cost of Windows datacenter license per 4 proc, 32 core, 2000 GB RAM virtualization server	€41,524.36
Number of servers needed for 50 virtual machine(s) - 8 core, 16 GB RAM	2
Total software license cost	€249,146.17
Total Software Assurance cost	€62,286.54
Total software cost over five year(s)	**€311,432.70**

Electricity cost

Price of electricity per kWh	€0.11
Power rating of 32 core, 2000 GB RAM server	3,006.9 Watts
Total electricity cost for 2 server(s) - 32 core, 2000 GB RAM server per month	€481.27
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Power rating of 32 core, 2000 GB RAM server	3,006.9 Watts
Total electricity cost for 2 server(s) - 32 core, 2000 GB RAM server per month	€481.27
Total electricity cost over five year(s)	**€115,505.11**

Virtualization cost

Virtualization software license cost	€17,108.74
Per virtual machine, per month, cost to load balance, backup and patch virtual machines	€22.36
Number of virtual machines	200
Virtual machine management cost per month	€4,471.18

Virtual machine management cost per year	€53,654.12
Total virtualization cost over five year(s)	**€285,379.33**

Total cost over five year(s)	**€2,045,203.41**

Total Azure compute cost over five year(s)	**€1,140,843.23**

Data center cost

Azure data center cost

Compute cost

Total Azure data center cost over five year(s)	**€0.00**

Number of rack units per rack	42
Rack units required per 32 core, 2000 GB RAM server	4
Number of 32 core, 2000 GB RAM server	2
Total number of rack units required	8
Rack units required per 32 core, 2000 GB RAM server	4
Number of 32 core, 2000 GB RAM server	2
Total number of rack units required	8
Rack units required per 32 core, 2000 GB RAM server	4
Number of 32 core, 2000 GB RAM server	2
Total number of rack units required	8
Rack units required per 32 core, 2000 GB RAM server	4
Number of 32 core, 2000 GB RAM server	2
Total number of rack units required	8
Total number of rack units required for all server(s)	32
Data center construction cost per rack unit amortized over 20 years	€254.90
Data center compute cost	€8,156.94

Total Data center compute cost over five year(s)	€40,784.70

Storage cost

Total number of rack units required for all storage	60
Number of rack units for DAS or SAN	60
Rack mounting/installation cost	€15,294.26

Total Data center storage cost over five year(s)	€76,471.29

Total Data center cost over five year(s)	€117,256.00

Total Azure data center cost over five year(s)	€0.00

Networking cost

Azure networking cost

Total hardware + software cost over five year(s)	€1,644,319.00
Network hardware and software cost assumed to be 15% of hardware and software cost over five year(s)	€246,647.84
Network maintenance cost assumed to be 15% of network hardware and software cost over five year(s)	€36,997.17
Service provider cost/GB per month	€0.13
Amount of bandwidth needed (GB) per month	15
Total service provider cost per month	€1.90

Total outgoing bandwidth needed per month	15 GB
Total outgoing bandwidth cost per month	€0.13

Total networking cost over five year(s)	€283,758.86

Total Azure networking cost over five year(s)	€7.59

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Storage cost

Hardware

Local Disk/SAN-HDD
Cost per GB	€0.20
Storage (RAID 10 configuration) volume in GB	61,440

Total storage procurement cost	**€12,435.00**

Backup

Total backup and archive volume in GB	122,880
	HP LTO-7 BB873A
Backup volume per tape in TB	6
Number of Tape drives required	20
Cost per Tape Drive	€134.93

Backup and Archive cost over five year(s)	**€2,698.56**

Storage Maintenance

Storage maintenance cost (10% of storage procurement cost) over five year(s)	€6,217.50

Total storage maintenance cost over five year(s)	**€6,217.50**

Total storage cost over five year(s)	**€21,351.00**

Azure storage cost

Page Blob storage

Usable storage volume in GB	30,720
Storage cost per GB/month	€0.038
Annual storage cost per usable volume	€13,989.34

Total Page Blob LRS storage maintenance cost over five year(s)	**€69,946.68**

Backup

Total backup and archive volume in GB	122,880
Storage cost per GB	€0.0189
	SKU# AAA-70203

Backup and Archive maintenance cost over five year(s)	**€139,271.60**

Total Azure storage cost over five year(s)	**€209,218.28**

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IT labor cost

Number of IT admin hour(s) needed per year	3,333.33
Hourly rate for IT administrator	€19.40

Total IT labor cost over five year(s)	€323,264.68

Azure IT labor cost

Number of IT admin hour(s) needed per year	3,333.33
Hourly rate for IT administrator	€19.40

Total Azure IT labor cost over five year(s)	€323,264.68

Total on-premises cost over five year(s) €2,790,833.89

Total Azure cost over five year(s) €1,673,334.05

A total **savings** of **€1,117,499.84** with **Microsoft Azure**