Total Cost of Ownership (TCO) Calculator
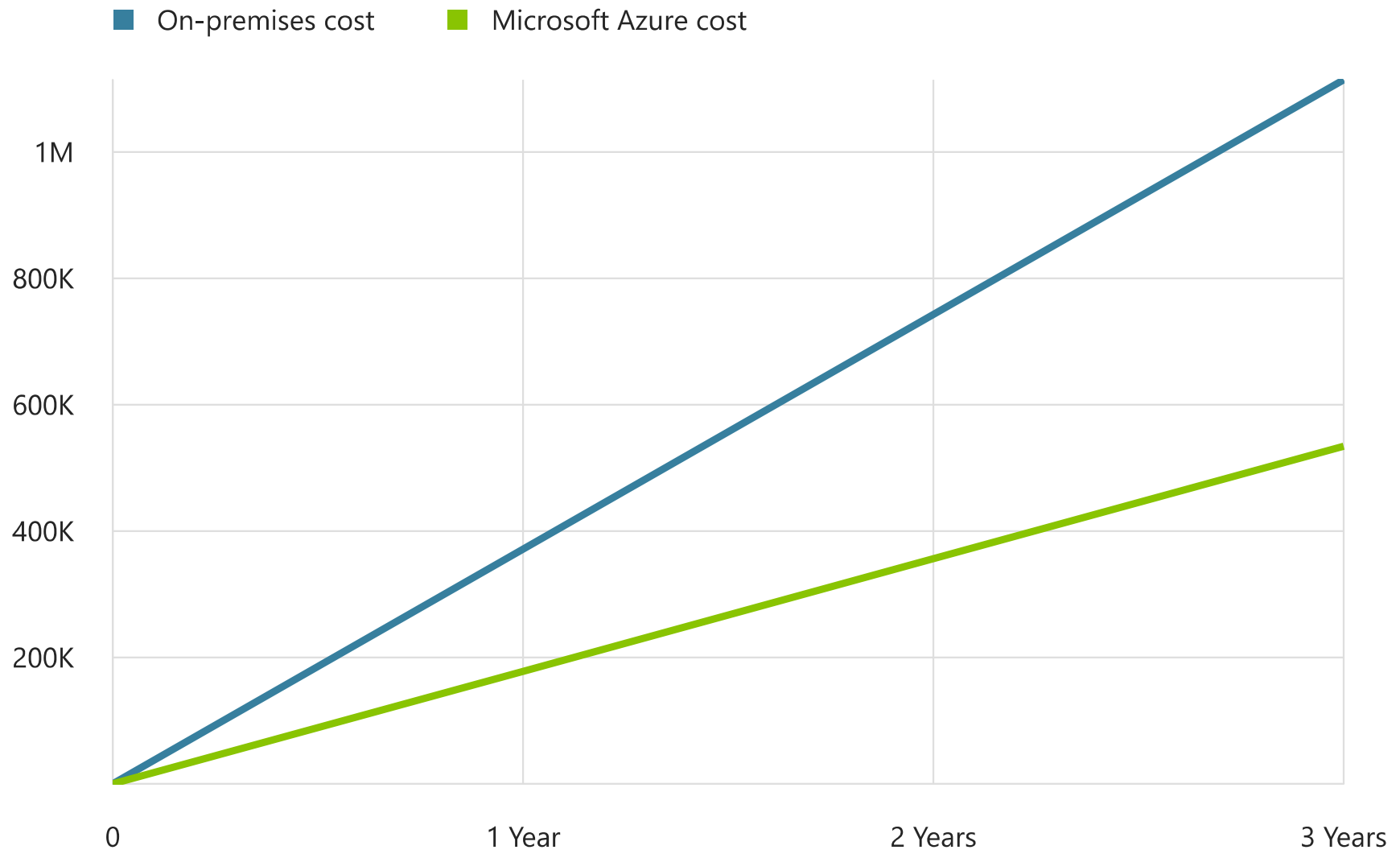
Estimate the cost savings you can realize by migrating your workloads to Azure

Over 3 year(s) with Microsoft Azure, your estimated cost savings could be as much as €580,063

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.

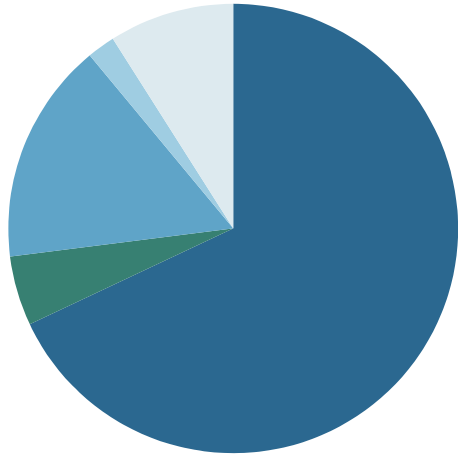## Total on-premises over 3 year(s)

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

Total Azure cost over 3 year(s)

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

€1,114,438
Total cost

€534,375
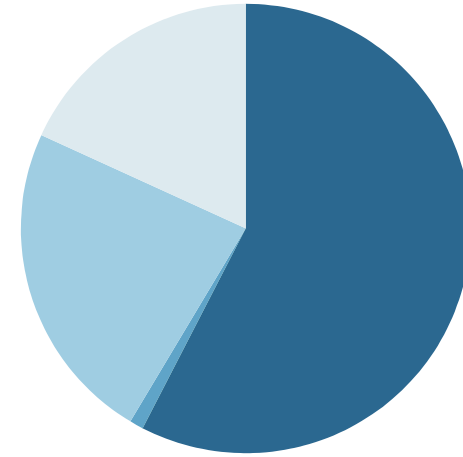Total cost

68% Compute **5%** Data center **16%** Networking **2%** Storage **9%** IT Labor

57% Compute **0%** Data center **1%** Networking **23%** Storage **18%** IT Labor
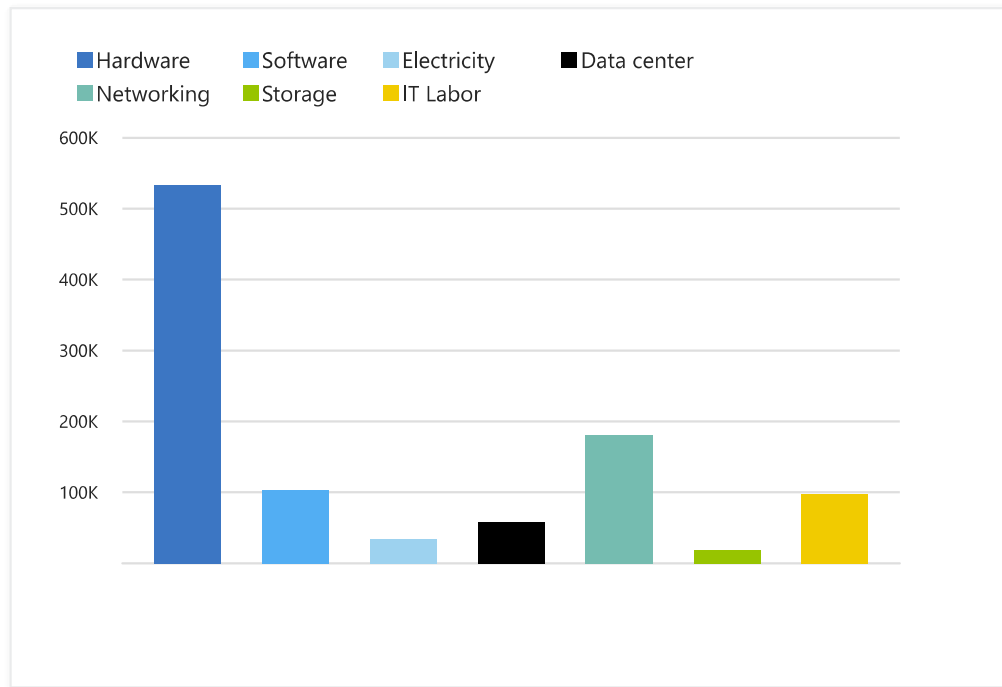
Total on-premises cost breakdown

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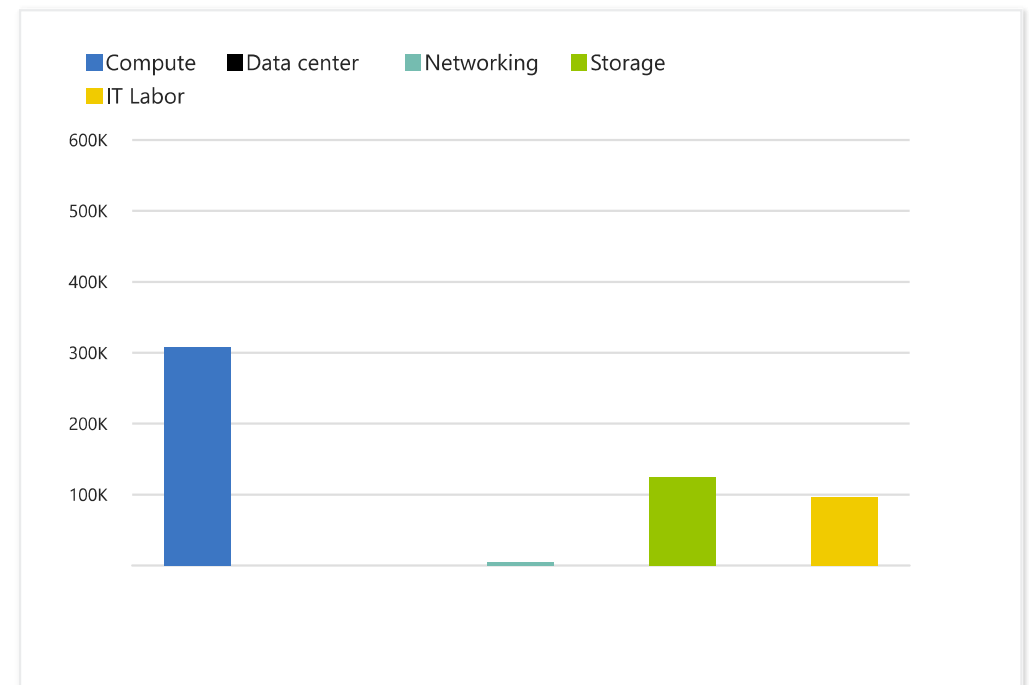
Total Azure cost breakdown

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

€1,114,438

Cost over 3 year(s)

€534,375
Cost over 3 year(s)

On-premises cost breakdown summary

Azure cost breakdown summary

Category	Cost

Compute	€760,652.48
Hardware	€533,154.50
Software	€103,810.90
Electricity	€34,651.53
Virtualization	€89,035.55
Data Center	€58,118.18
Networking	€179,823.21
Storage	€18,864.01
IT Labor	€96,979.69
Total	**€1,114,437.82**

Category	Cost
Compute	€307,200.70
Data Center	€0.00
Networking	€4,663.10
Storage	€125,530.96
IT Labor	€96,979.6940
Total	**€534,374.75**

Estimated on-premises cost (3 year(s))

Estimated Azure cost (3 year(s))

Compute cost

Azure compute cost

Hardware cost

Virtual machine density - Number of virtual cores that can be created per physical core	3

Virtual Machines cost

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

Number of hours per month	730
F8sv2 Standard (8 core, 16 GB RAM) Windows (Azure Hybrid Benefit)	SKU# AAD-10155
Number of virtual machines	50
Total virtual machine cost per month	€4,266.68

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
Total cost for virtualization server(s)	€333,221.56
Cost of maintaining virtualization server(s) - 20% of cost of virtualization server(s)	€66,644.31

F8sv2 Standard (8 core, 16 GB RAM) Linux	SKU# AAD-10188
Number of virtual machines	50
Total virtual machine cost per month	€4,266.68

Total Azure Virtual Machines cost	**€307,200.70**

Total cost of maintaining server(s) over three year(s)	€199,932.94

Total hardware cost over three year(s) €533,154.50

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
Total software license cost	€83,048.72
Total Software Assurance cost	€20,762.18

Total software cost over three year(s) €103,810.90

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
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 three year(s) €34,651.50

Virtualization cost

NOTE: For Azure compute costs, one 3 year Reserved VM in use.

Virtualization software license cost	€8,554.37
Per virtual machine, per month, cost to load balance, backup and patch virtual machines	€22.36
Number of virtual machines	100
Virtual machine management cost per month	€2,235.59
Virtual machine management cost per year	€26,827.06

Total virtualization cost over three year(s)	**€89,035.55**

Total cost over three year(s)	**€760,652.48**

Total Azure compute cost over three year(s)	**€307,200.70**

Data center cost

Azure data center cost

Compute cost

Number of rack units per rack	42	Total Azure data center cost over three year(s)	€0.00
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)	16
Data center construction cost per rack unit amortized over 20 years	€254.90
Data center compute cost	€4,078.47

Total Data center compute cost over three year(s)	**€12,235.41**

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 three year(s)	**€45,882.80**

Total Data center cost over three year(s)	**€58,118.18**

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

Networking cost

Total hardware + software cost over three year(s)	€636,965.40
Network hardware and software cost assumed to be 15% of hardware and software cost over three year(s)	€95,544.81
Network maintenance cost assumed to be 15% of network hardware and software cost over three year(s)	€14,331.72
Service provider cost/GB per month	€0.13
Amount of bandwidth needed (GB) per month	15,360
Total service provider cost per month	€1,942.96

Total networking cost over three year(s)	**€179,823.21**

Azure networking cost

Total outgoing bandwidth needed per month	15 TB
Total outgoing bandwidth cost per month	€129.53

Total Azure networking cost over three year(s)	**€4,663.10**

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 three year(s)   **€2,698.56**

Storage Maintenance

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 three year(s)   **€41,968.00**

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 three year(s)   **€83,562.96**

Storage maintenance cost (10% of storage procurement cost) over three year(s)	€3,730.49
Total storage maintenance cost over three year(s)	€3,730.49

Total storage cost over three year(s)	€18,864.01

Total Azure storage cost over three year(s)	€125,530.96

IT labor cost

Azure IT labor cost

Number of IT admin hour(s) needed per year	1,666.67
Hourly rate for IT administrator	€19.40

Number of IT admin hour(s) needed per year	1,666.67
Hourly rate for IT administrator	€19.40

Total IT labor cost over three year(s)	€96,979.69

Total Azure IT labor cost over three year(s)   €96,979.69

Total on-premises cost over three year(s)   €1,114,437.82

Total Azure cost over three year(s)   €534,374.75

A total **savings** of   **€580,063.06**   with **Microsoft Azure**