


Total Cost of Ownership (TCO) Calculator

Estimate the cost savings you can realise by migrating your workloads to Azure

 My saved reports



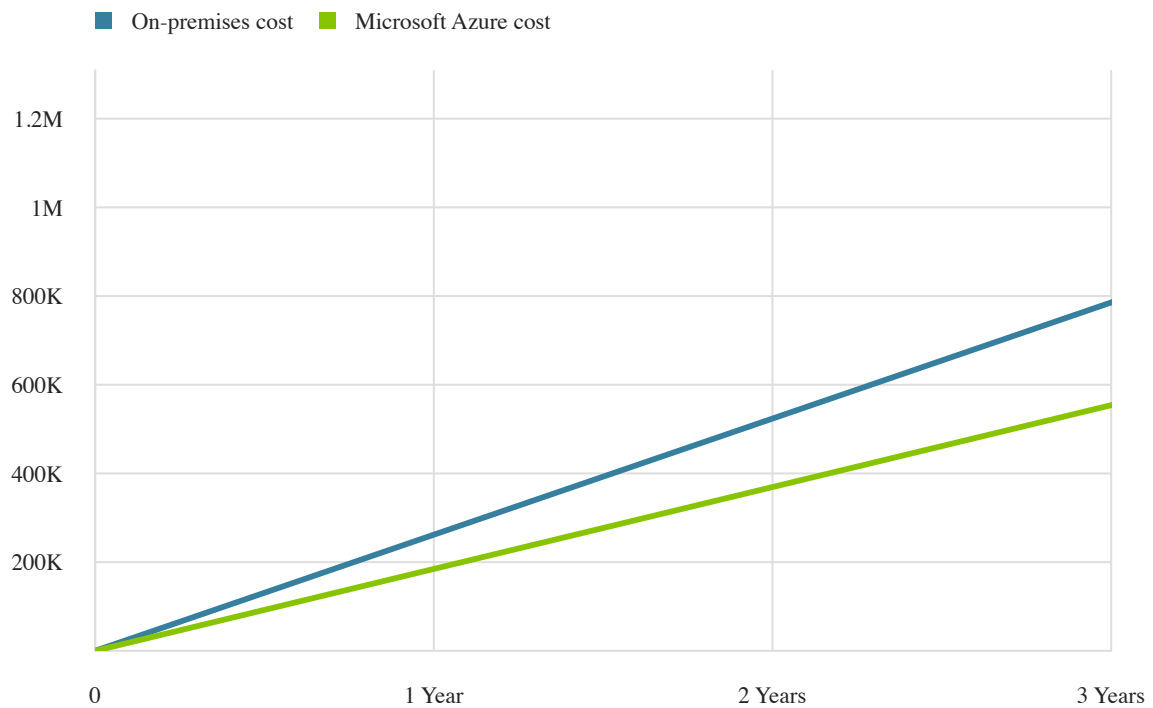
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Over 3 year(s) with Microsoft Azure, your estimated cost savings
could be as much as **US\$653,512**

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.

 Chat with Sales



Total on-premises over 3 year(s)

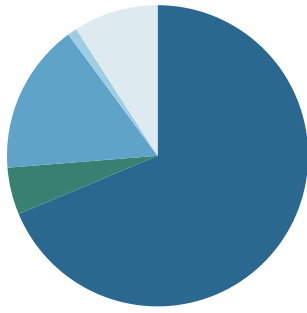
TCO of on-premises environments tends to be driven by compute and data centre costs.

Total Azure cost over 3 year(s)

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

US\$1,309,292
Total cost

US\$655,780
Total cost



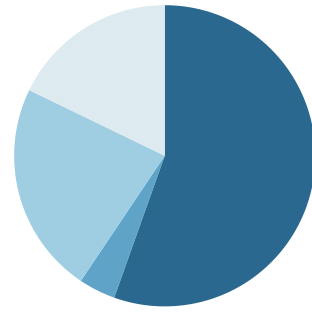
68%
Compute

5%
Data
centre

16%
Networking

1%
Storage

9%
IT labour



56%
Compute

0%
Data
centre

4%
Networking

23%
Storage

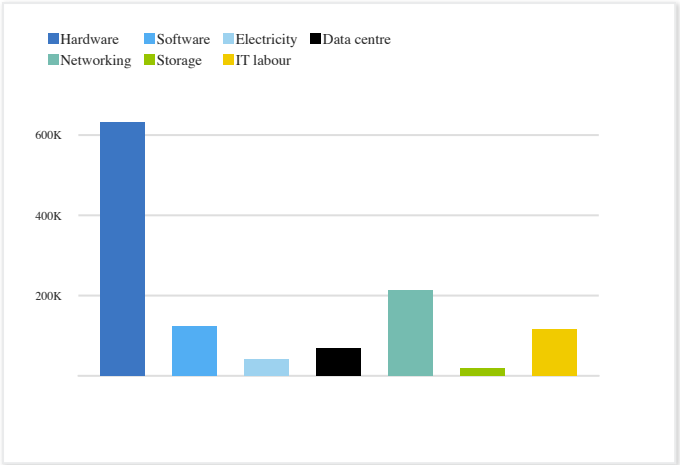
18%
IT labour

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.

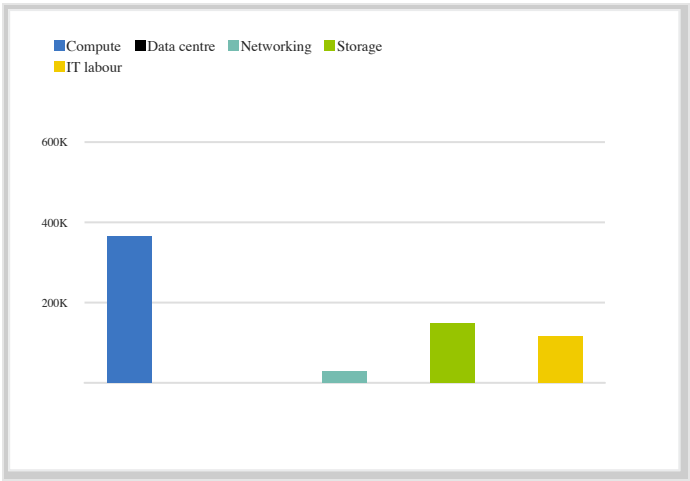
Total Azure cost breakdown

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



US\$1,309,292

Cost over 3 year(s)



US\$655,780

Cost over 3 year(s)

On-premises cost breakdown summary

Azure cost breakdown summary

Category	Cost
Compute	US\$892,962.08

Category	Cost
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Hardware	US\$632,224.00	Compute	US\$364,284.00
Software	US\$123,100.00		
Electricity	US\$42,166.08	Data centre	US\$0.00
Virtualisation	US\$95,472.00	Networking	US\$27,639.00
Data centre	US\$68,917.56	Storage	US\$148,856.83
Networking	US\$213,237.39	IT labour	US\$115,000.23
Storage	US\$19,174.40		
IT labour	US\$115,000.23		

Total	US\$1,309,292.00	Total	US\$655,780.00
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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	
Cost per 4 proc 32 core, 2000 GB RAM virtualisation server for Windows	US\$98,785.00	
Number of servers needed for 50 virtual machine(s) - 8 core, 16 GB RAM	2	
Cost per 4 proc 32 core, 2000 GB RAM virtualisation server for Linux	US\$98,785.00	
Number of servers needed for 50 virtual machine(s) - 8 core, 16 GB RAM	2	
Total cost for virtualisation server(s)	US\$395,140.00	
Cost of maintaining virtualisation server(s) — 20% of cost of virtualisation server(s)	US\$79,028.00	
Total cost of maintaining server(s) over three year(s)	US\$237,084.00	
Total hardware cost over three year(s)	US\$632,224.00	

Software cost

Cost of Windows datacenter licence per 4 proc, 32 core, 2000 GB RAM virtualisation server	US\$49,240.00	
Number of servers needed for 50 virtual machine(s) - 8 core, 16 GB RAM	2	
Total software licence cost	US\$98,480.00	
Total Software Assurance cost	US\$24,620.00	

Virtual Machines cost

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	US\$5,059.50	
F8sv2 Standard (8 core, 16 GB RAM) Linux	SKU# AAD- 10188	
Number of virtual machines	50	
Total virtual machine cost per month	US\$5,059.50	
Total Azure Virtual Machines cost	US\$364,284.00	

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

Total software cost over three year(s)	US\$123,100.00
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Electricity cost

Price of electricity per kWh	US\$0.1334
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Power rating of 32 core, 2000 GB RAM server	3,006.9 Watts
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Total electricity cost for 2 server(s) - 32 core, 2000 GB RAM server per month	US\$585.64
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Power rating of 32 core, 2000 GB RAM server	3,006.9 Watts
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Total electricity cost for 2 server(s) - 32 core, 2000 GB RAM server per month	US\$585.64
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Total electricity cost over three year(s)	US\$42,166.08
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Virtualisation cost

Virtualisation software licence cost	US\$0.00
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Per virtual machine, per month, cost to load balance, back up and patch virtual machines	US\$26.52
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Number of virtual machines	100
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Virtual machine management cost per month	US\$2,652.00
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Virtual machine management cost per year	US\$31,824.00
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Total virtualisation cost over three year(s)	US\$95,472.00
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Total cost over three year(s)	US\$892,962.08
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Total Azure compute cost over three year(s)	US\$364,284.00
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Data centre cost

Azure data centre cost

Compute cost

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	US\$8.00

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	US\$8.00

Total number of rack units required for all server(s)	US\$16.00
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Data centre construction cost per rack unit amortised over 20 years	US\$302.27
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Data centre compute cost	US\$4,836.32
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Total data centre compute cost over three year(s)	US\$14,508.96
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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	US\$18,136.20
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Total data centre storage cost over three year(s)	US\$54,408.60
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Total data centre cost over three year(s)	US\$68,917.56
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Total Azure data centre cost over three year(s)	US\$0.00
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Total Azure data centre cost over three year(s)	US\$0.00
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Networking cost

Azure networking cost

Total hardware + software cost over three year(s)	US\$755,324.00
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Network hardware and software cost assumed to be 15% of hardware and software cost over three year(s)	US\$113,298.60
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Network maintenance cost assumed to be 15% of network hardware and software cost over three year(s)	US\$16,994.79
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Service provider cost/GB per month	US\$0.15
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Amount of bandwidth needed (GB) per month	15,360
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Total service provider cost per month	US\$2,304.00
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Total outgoing bandwidth needed per month	15 TB
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Total outgoing bandwidth cost per month	US\$767.75
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Total networking cost over three year(s)	US\$213,237.39
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Total Azure networking cost over three year(s)	US\$27,639.00
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Storage cost

Azure storage cost

Hardware

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

Page Blob storage

Usable storage volume in GB	30,720
Storage cost per GB/month	US\$0.045

Annual storage cost per usable volume	US\$16,588.80
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Total storage procurement cost	US\$12,288.00
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Back up

Total back up and archive volume in GB	122,880
	HP LTO-7
	BB873A
Back up volume per tape in TB	6
Number of Tape drives required	20
Cost per Tape Drive	US\$160.00

Back up and archive cost over three year(s)	US\$3,200.00
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Storage Maintenance

Storage maintenance cost (10% of storage procurement cost) over three year(s)	US\$3,686.40
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Total storage maintenance cost over three year(s)	US\$3,686.40
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Total storage cost over three year(s)	US\$19,174.40
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IT labour cost

Number of IT admin hour(s) needed per year	1,666.67
Hourly rate for IT administrator	US\$23.00

Total Page Blob LRS storage maintenance cost over three year(s)	US\$49,766.40
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Back up

Total back up and archive volume in GB	122,880
Storage cost per GB	US\$0.0224
	SKU# AAL-31836

Back up and archive maintenance cost over three year(s)	US\$99,090.43
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Total Azure storage cost over three year(s)	US\$148,856.83
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Azure IT labour cost

Number of IT admin hour(s) needed per year	1,666.67
Hourly rate for IT administrator	US\$23.00

year(s)	US\$115,000.23	Total Azure IT labour cost over three year(s)	US\$115,000.23
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Total on-premises cost over three year(s)	US\$1,309,292.00	Total Azure cost over three year(s)	US\$655,780.00
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A total **savings** of
US\$653,512.00
with **Microsoft Azure**