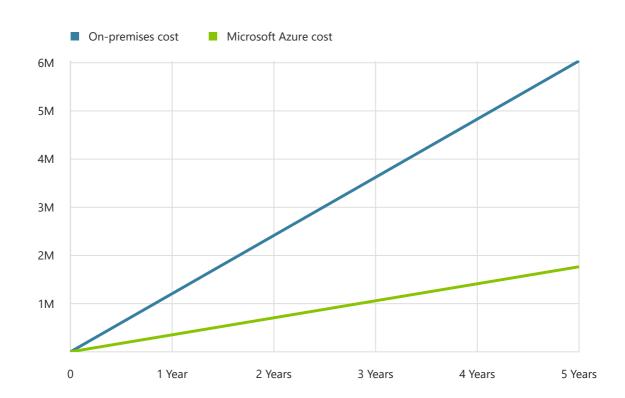
Total Cost of Ownership (TCO) Calculator

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 \$4,271,759

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.

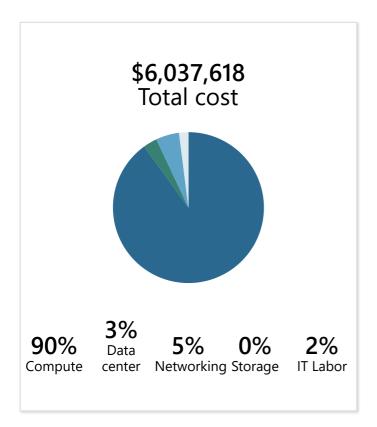


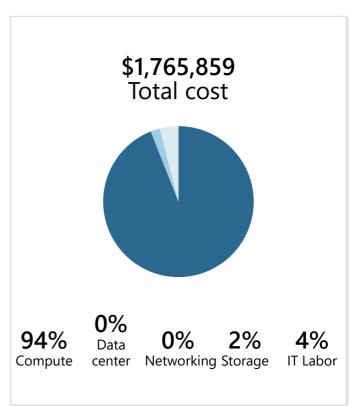
Total on-premises over 5 year(s)

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

Total Azure cost over 5 year(s)

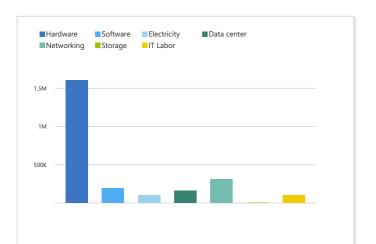
In Azure, certain cost categories decrease or go away completely.





Total on-premises cost breakdown

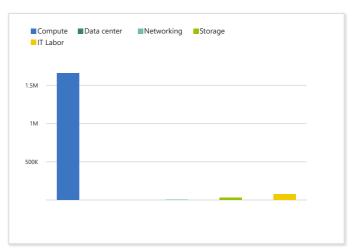
In Azure, several of the cost categories from the on-premises environment are consolidated and decrease with the efficiency that comes with the cloud.



\$6,037,618 Cost over 5 year(s)

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.



\$1,765,859 Cost over 5 year(s)

On-premises cost breakdown summary

Azure cost breakdown summary

Category	Cost
Compute Hardware Software Electricity Database	\$5,456,301.75 \$1,604,440.00 \$192,368.75 \$99,093.00 \$3,560,400.00
Data Center	\$163,574.25
Networking	\$310,849.51
Storage	\$3,392.00
IT Labor	\$103,500.00

Category	Cost
Compute	\$1,661,110.20
Data Center	\$0.00
Networking	\$495.60
Storage	\$27,586.56
IT Labor	\$76,667.05

Total	\$6,037,618.00		
	4-7-5-7-5-6	Total	\$1,765,859.00

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

Estimated Azure cost (5 year(s))

Compute cost

Azure compute cost

Hardware cost

Cost per 2 proc 4 core, 14 GB RAM physical server for Windows	\$6,964.00
Number of servers required Cost of M60 Number of M60 required	20 \$6,000.00 40
Cost per 2 proc 4 core, 14 GB RAM physical server for Windows	\$6,964.00
Number of servers required Cost of K80 Number of K80 required	20 \$5,000.00 40
Cost per 4 proc 4 core, 32 GB RAM physical server for Windows	\$16,732.00
Number of servers required	5
Total cost for physical server(s)	\$802,220.00
Cost of maintaining physical server(s) - 20% of cost of physical server(s)	\$160,444.00
Total cost of maintaining server(s) over five year(s)	\$802,220.00

Total hardware cost over five \$1,604,440.00 year(s)

Software cost

Cost of Windows data center license per 4 core, 14 GB RAM physical machine	\$3,078.00
Number of licenses needed	20
Cost of Windows data center license per 4 core, 14 GB RAM physical machine	\$3,078.00
Number of licenses needed	20

Virtual Machines cost

Number of hours per month	730
NC12 Standard (12 core, 112 GB RAM) Windows (Azure Hybrid Benefit)	SKU# AAA- 20076
Number of virtual machines	20
Total virtual machine cost per month	\$13,695.360
NC12 Standard (12 core, 112 GB RAM) Windows (Azure Hybrid Benefit)	SKU# AAA- 20076
Number of virtual machines	20
Total virtual machine cost per month	\$13,695.360

Total Azure Virtual Machines \$1,643,443.20

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

SQL Database cost

Total SQL Database cost over five year(s)	\$17,667.00
Instance Count Cost Per Month	00006 5 \$58.89
Single Standard S2	\$0.10083 /hr SKU# 4WP-

\$6,155.00 5 \$153,895.00 \$38,473.75 \$192,368.75 \$0.1334 324 Watts \$631.00 324 Watts \$631.00 800 Watts \$389.55
\$153,895.00 \$38,473.75 \$192,368.75 \$0.1334 324 Watts \$631.00 324 Watts \$631.00
\$38,473.75 \$192,368.75 \$0.1334 324 Watts \$631.00 324 Watts \$631.00
\$192,368.75 \$0.1334 324 Watts \$631.00 324 Watts \$631.00 800 Watts
\$0.1334 324 Watts \$631.00 324 Watts \$631.00 800 Watts
324 Watts \$631.00 324 Watts \$631.00 800 Watts
324 Watts \$631.00 324 Watts \$631.00 800 Watts
\$631.00 324 Watts \$631.00 800 Watts
324 Watts \$631.00 800 Watts
\$631.00 800 Watts
800 Watts
¢280 55
\$303.33
\$99,093.00
80
\$14,256.00 80
2,851,200.00
\$3,546.00 80
00.00\$ 709,200.00\$

Total cost over five year(s)	\$5,456,301.75		
		Total Azure compute cost over five year(s)	\$1,661,110.20

Data center cost		Azure data center cost	
Compute cost		Total Azure data center cost	\$0.00
Number of rack units per rack	42	over five year(s)	40.00
Rack units required per 4 core, 14 GB RAM server Number of 4 core, 14 GB RAM server	2 20		
Total number of rack units required	40		
Rack units required per 4 core, 14 GB RAM server	2		
Number of 4 core, 14 GB RAM server	20		
Total number of rack units required	40		
Rack units required per 4 core, 32 GB RAM server	3		
Number of 4 core, 32 GB RAM server	5		
Total number of rack units required	15		
Total number of rack units required for all server(s)	95		
Data center construction cost per rack unit amortized over 20 years	\$311.57		
Data center compute cost	\$29,599.15		
Total Data center compute cost over five year(s)	\$147,995.75		
Storage cost			
Total number of rack units required for all storage	10		

Number of rack units for 10		
Rack mounting/installation \$3,115.70		
Total Data center storage cost over five year(s) \$15,578.50		
Total Data center cost over five \$163,574.25 year(s)	Total Azure data center cost over five year(s)	\$0.00
Networking cost	Azure networking cost	
Total hardware + software cost over five year(s) \$1,796,808.75	Total outgoing bandwidth	
Network hardware and software cost assumed to be 15% of hardware and software cost over five year(s) \$269,521.31	needed per month Total outgoing bandwidth cost per month	100 GB \$8.26
Network maintenance cost assumed to be 15% of network hardware and software cost over five year(s) \$40,428.20		
Service provider cost/GB per month \$0.15 Amount of bandwidth needed (GB) per month		
Total service provider cost per month \$15.00		
Total networking cost over five \$310,849.51		
year(s) \$\frac{\pi_{310,043.31}}{\pi_{310,043.31}}\$	Total Azure networking cost over five year(s)	\$495.60
Storage cost	Azure storage cost	

Н	a	rd	11/2	are
	а	ıυ	I V V C	11 C

Local Disk/SAN-HDD	·	
Cost per GB	\$0.20	
Storage (RAID 10 configuration) volume in GB	10,240	
Total storage procurement cost	\$2,048.00	
Backup		
Total backup and archive volume in GB	10,240	
	HP LTO-7 BB873A	
Backup volume per tape in TB	6	
Number of Tape drives	2	
required Cost per Tape Drive	\$160.00	
Backup and Archive cost over	\$320.00	
five year(s)	\$320.00	
	\$320.00	
five year(s)		
Storage Maintenance Storage maintenance cost (10% of storage procurement	\$320.00 \$1,024.00 \$1,024.00	
Storage Maintenance Storage maintenance cost (10% of storage procurement cost) over five year(s) Total storage maintenance	\$1,024.00	

Page Blob storage

Backup and Archive maintenance cost over five year(s)	\$13,762.56
	SKU# AAA- 70203
Storage cost per GB	\$0.0224
Total backup and archive volume in GB	10,240
Backup	
Total Page Blob LRS storage maintenance cost over five year(s)	\$13,824.00
Annual storage cost per usable volume	\$2,764.80
Usable storage volume in GB Storage cost per GB/month	5,120 \$0.045

Total Azure storage cost over five year(s) \$27,586.56

IT labor cost

Azure IT labor cost

		five year(s)	4.0,301.03
year(s)	\$103,500.00	Total Azure IT labor cost over	\$76,667.05
Total IT labor cost over five	¢102 500 00		
daministrator		Hourly rate for IT administrator	\$23.00
Number of IT admin hour(s) needed per year Hourly rate for IT administrator	900 \$23.00	Number of IT admin hour(s) needed per year	666.67

Total on-premises cost over five year(s) \$6,03

\$6,037,618.00 Total Azure cost over five year(s) \$1,765,859.00

A total savings of \$4,271,759.00 with Microsoft Azure