

Total Cost of Ownership (TCO) Calculator

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



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ODL_User 1586610

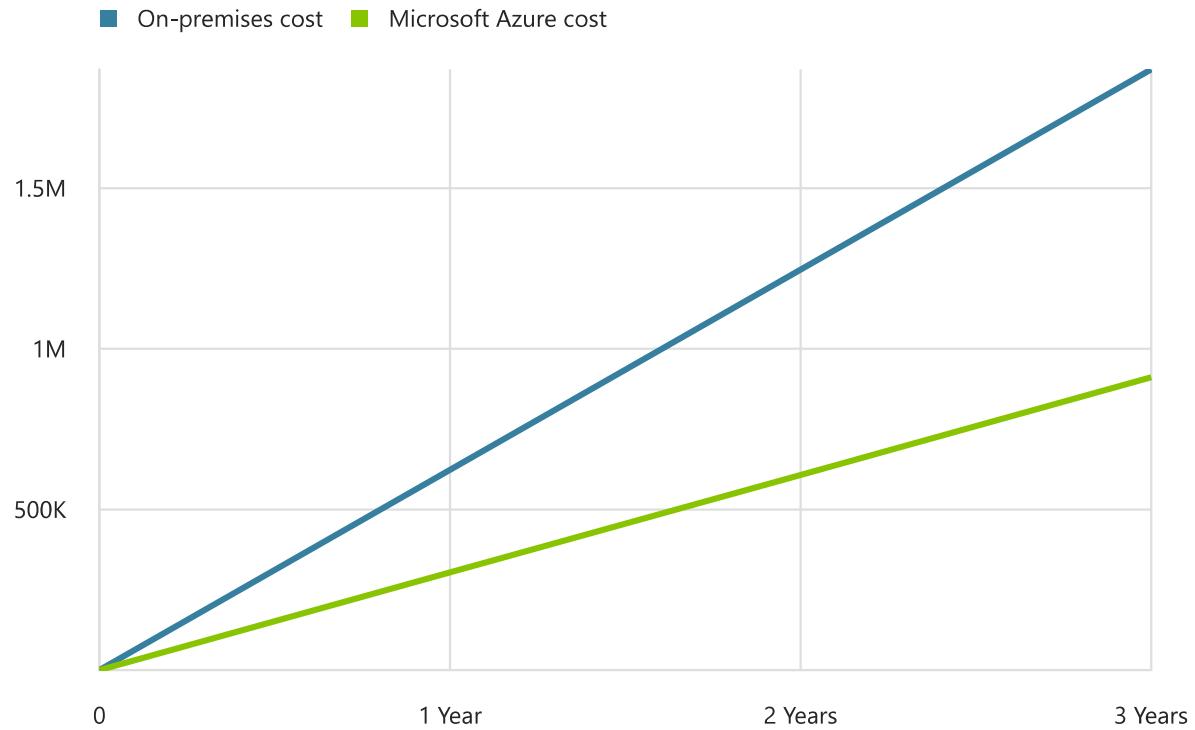
odl_user_1586610@seneca-osm820zcc.cloudlabs.ai

Over 3 year(s) with Microsoft Azure, your estimated cost savings
could be as much as **CA\$958,140**

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)

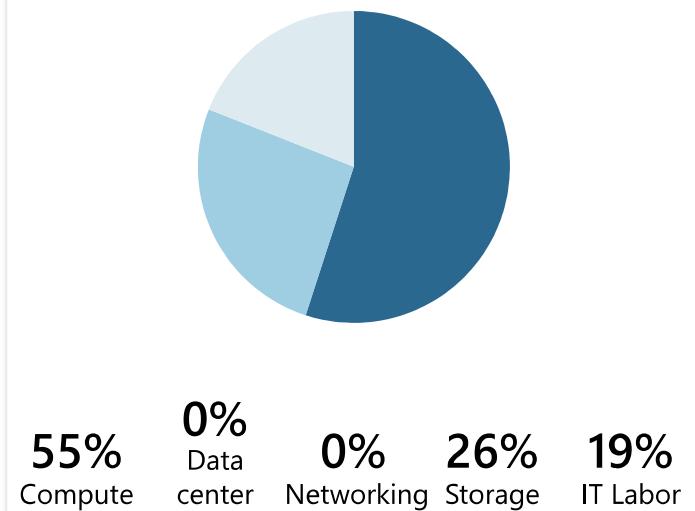
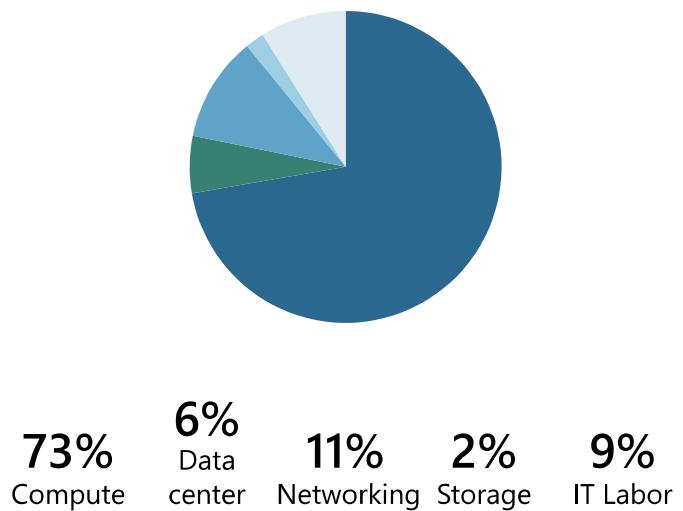
TCO of on-premises environments tends to be driven by compute and data center costs.

Total Azure cost over 3 year(s)

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

CA\$1,869,726
Total cost

CA\$911,586
Total cost



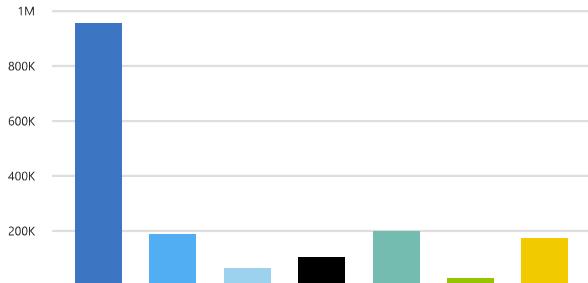
Total on-premises cost breakdown

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.

■ Hardware ■ Software ■ Electricity ■ Data center
■ Networking ■ Storage ■ IT Labor



CA\$1,869,726
Cost over 3 year(s)

■ Compute ■ Data center ■ Networking ■ Storage
■ IT Labor



CA\$911,586
Cost over 3 year(s)

**On-premises cost breakdown
summary**

Azure cost breakdown summary

Category	Cost	Category	Cost
Compute	CA\$1,364,656.70	Compute	CA\$503,474.41
Hardware	CA\$955,589.78	Data Center	CA\$0.00
Software	CA\$186,063.39	Networking	CA\$25.78
Electricity	CA\$63,371.99	Storage	CA\$234,234.07
Virtualization	CA\$159,631.53	IT Labor	CA\$173,851.21
Data Center	CA\$104,165.66		
Networking	CA\$197,051.17		
Storage	CA\$30,000.65		
IT Labor	CA\$173,851.23		
Total	CA\$1,869,726.01	Total	CA\$911,585.75

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	
Cost per 4 proc 32 core, 2000 GB RAM virtualization server for Windows	CA\$149,310.90	
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	CA\$149,310.90	
Number of servers needed for 50 virtual machine(s) - 8 core, 16 GB RAM	2	
Total cost for virtualization server(s)	CA\$597,243.61	
Cost of maintaining virtualization server(s) - 20% of cost of virtualization server(s)	CA\$119,448.72	
Total cost of maintaining server(s) over three year(s)	CA\$358,346.17	
Total hardware cost over three year(s)	CA\$955,589.78	

Virtual Machines cost

Number of hours per month	730	
F8sv2 Standard (8 core, 16 GB RAM) Windows (Azure Hybrid Benefit)	SKU# AAA-96942	
Number of virtual machines	50	
Total virtual machine cost per month	CA\$6,992.70	
F8sv2 Standard (8 core, 16 GB RAM) Linux	SKU# AAA-96944	
Number of virtual machines	50	
Total virtual machine cost per month	CA\$6,992.70	
Total Azure Virtual Machines cost	CA\$503,474.41	

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

Software cost

Cost of Windows datacenter license per 4 proc, 32 core, 2000 GB RAM virtualization server CA\$74,425.36

Number of servers needed for 50 virtual machine(s) - 8 core, 16 GB RAM 2

Total software license cost CA\$148,850.70

Total Software Assurance cost CA\$37,212.70

Total software cost over three year(s) CA\$186,063.39

Electricity cost

Price of electricity per kWh CA\$0.20

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 CA\$880.17

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 CA\$880.17

Total electricity cost over three year(s) CA\$63,371.99

Virtualization cost

Virtualization software license cost CA\$15,332.44

Per virtual machine, per month, cost to load balance, backup and patch virtual machines CA\$40.08

Number of virtual machines 100

Virtual machine management cost per month CA\$4,008.31

Virtual machine management cost per year CA\$48,099.70

Total virtualization cost over three year(s) CA\$159,631.53

Total cost over three year(s) CA\$1,364,656.70

Total Azure compute cost over three year(s) CA\$503,474.41

Data center cost

Azure data center 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 CA\$11.46

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 CA\$11.46

Total number of rack units required for all server(s) CA\$22.91

Data center construction cost per rack unit amortized over 20 years CA\$456.87

Data center compute cost CA\$7,309.87

Total Data center compute cost over three year(s) CA\$21,929.61

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	CA\$27,412.01		
Total Data center storage cost over three year(s) CA\$82,236.00			
Total Data center cost over three year(s) CA\$104,165.66			
		Total Azure data center cost over three year(s)	CA\$0.00
Networking cost		Azure networking cost	
Total hardware + software cost over three year(s)	CA\$1,141,653.17		
Network hardware and software cost assumed to be 15% of hardware and software cost over three year(s)	CA\$171,247.98	Total outgoing bandwidth needed per month	15 GB
Network maintenance cost assumed to be 15% of network hardware and software cost over three year(s)	CA\$25,687.20	Total outgoing bandwidth cost per month	CA\$0.72
Service provider cost/GB per month	CA\$0.21		
Amount of bandwidth needed (GB) per month	15		
Total service provider cost per month	CA\$3.22		
Total networking cost over three year(s) CA\$197,051.17			
		Total Azure networking cost over three year(s)	CA\$25.78

Storage cost

Azure storage cost

Hardware

Local Disk/SAN-HDD	
Cost per GB	CA\$0.32
Storage (RAID 10 configuration) volume in GB	61,440
Total storage procurement cost	CA\$19,356.70

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	CA\$241.84
Backup and Archive cost over three year(s)	CA\$4,836.90

Storage Maintenance

Storage maintenance cost (10% of storage procurement cost) over three year(s)	CA\$5,807.02
Total storage maintenance cost over three year(s)	CA\$5,807.02

Total storage cost over three year(s)	CA\$30,000.65
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Page Blob storage

Usable storage volume in GB	30,720
Storage cost per GB/month	CA\$0.0709
Annual storage cost per usable volume	CA\$26,131.59

Total Page Blob LRS storage maintenance cost over three year(s)	CA\$78,394.77
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Backup

Total backup and archive volume in GB	122,880
Storage cost per GB	CA\$0.0352
	SKU# AAA-70235

Backup and Archive maintenance cost over three year(s)	CA\$155,839.30
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Total Azure storage cost over three year(s)	CA\$234,234.07
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IT labor cost

Azure IT labor cost

Number of IT admin hour(s) needed per year 1,666.67
Hourly rate for IT administrator CA\$34.77

Number of IT admin hour(s) needed per year 1,666.67
Hourly rate for IT administrator CA\$34.77

Total IT labor cost over three year(s) CA\$173,851.23

Total Azure IT labor cost over three year(s) CA\$173,851.2177

Total on-premises cost over three year(s) CA\$1,869,726.01

Total Azure cost over three year(s) CA\$911,585.75

A total **savings** of **CA\$958,140.26** with **Microsoft Azure**