


# 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

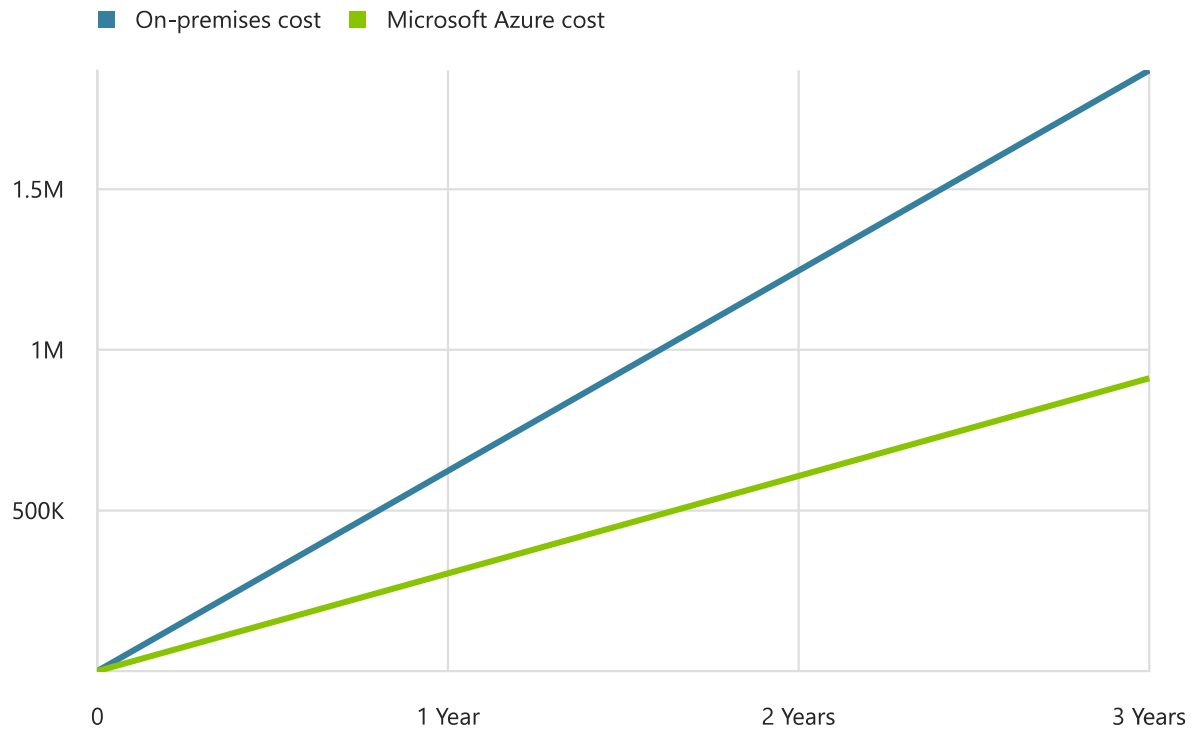
odl\_user\_1586610@seneca-osm820zcc.cloudlabs.ai

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)

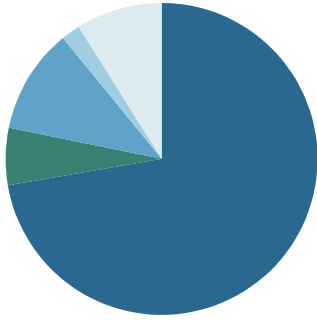
TCO of on-premises environments tends to be driven by compute and data center costs.

### 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



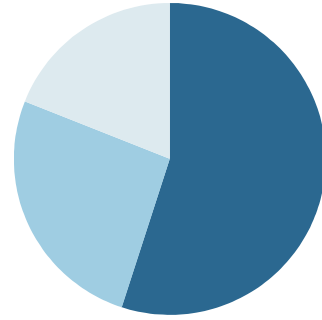
**73%**  
Compute

**6%**  
Data center

**11%**  
Networking

**2%**  
Storage

**9%**  
IT Labor



**55%**  
Compute

**0%**  
Data center

**0%**  
Networking

**26%**  
Storage

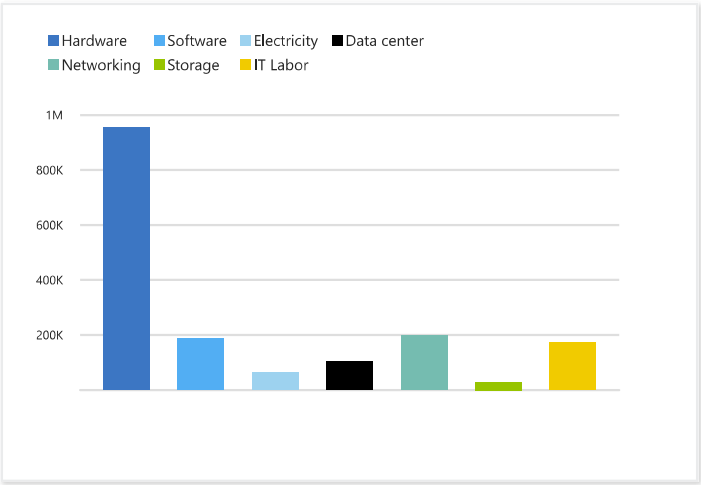
**19%**  
IT Labor

## Total on-premises cost breakdown

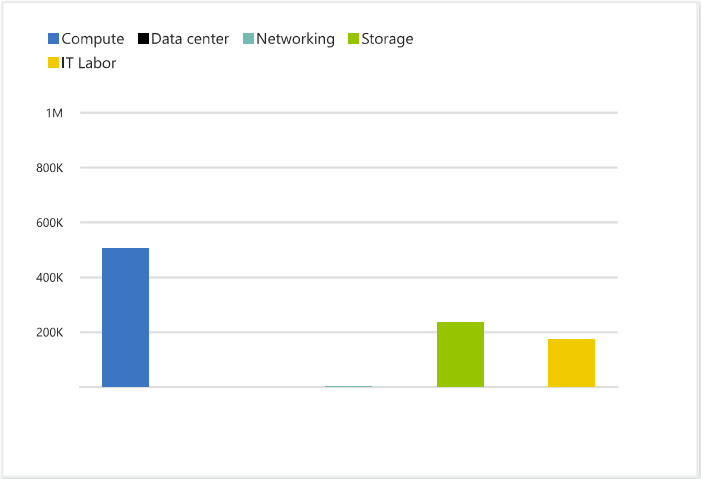
In Azure, several of the cost categories from the on-premises environment are consolidated and decrease with the efficiency that comes with the cloud.

## 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.



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



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

On-premises cost breakdown  
summary

Azure cost breakdown summary

Category

Cost

Compute	CA\$1,364,656.70
Hardware	CA\$955,589.78
Software	CA\$186,063.39
Electricity	CA\$63,371.99
Virtualization	CA\$159,631.53
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

Category

Cost

Compute	CA\$503,474.41
Data Center	CA\$0.00
Networking	CA\$25.78
Storage	CA\$234,234.07
IT Labor	CA\$173,851.21

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
<b>Total hardware cost over three year(s)</b>	<b>CA\$955,589.78</b>

#### Virtual Machines cost

Number of hours per month	730
F8sv2 Standard (8 core, 16 GB RAM) Windows (Azure Hybrid Benefit)	SKU# AAA- 96952
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
<b>Total Azure Virtual Machines cost</b>	<b>CA\$503,474.41</b>

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

## Software cost

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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

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

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## Electricity cost

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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

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

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## Virtualization cost

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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

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Total virtualization cost over three year(s)	CA\$159,631.53
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Total cost over three year(s)	CA\$1,364,656.70
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Total Azure compute cost over three year(s)	CA\$503,474.41
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## Data center cost

## Azure data center cost

### Compute cost

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Number of rack units per rack	42
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Rack units required per 32 core, 2000 GB RAM server	4
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Number of 32 core, 2000 GB RAM server	2
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Total number of rack units required	CA\$11.46
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Rack units required per 32 core, 2000 GB RAM server	4
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Number of 32 core, 2000 GB RAM server	2
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Total number of rack units required	CA\$11.46
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Total number of rack units required for all server(s)	CA\$22.91
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Data center construction cost per rack unit amortized over 20 years	CA\$456.87
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Data center compute cost	CA\$7,309.87
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Total Data center compute cost over three year(s)	CA\$21,929.61
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### Storage cost

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Total number of rack units required for all storage	60
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Total Azure data center cost over three year(s)	CA\$0.00
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Number of rack units for DAS or SAN	60
Rack mounting/installation cost	CA\$27,412.01
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<b>Total Data center storage cost over three year(s)</b>	<b>CA\$82,236.00</b>
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<b>Total Data center cost over three year(s)</b>	<b>CA\$104,165.66</b>
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<b>Total Azure data center cost over three year(s)</b>	<b>CA\$0.00</b>
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## 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
Network maintenance cost assumed to be 15% of network hardware and software cost over three year(s)	CA\$25,687.20
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 outgoing bandwidth needed per month	15 GB
Total outgoing bandwidth cost per month	CA\$0.72

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<b>Total networking cost over three year(s)</b>	<b>CA\$197,051.17</b>
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<b>Total Azure networking cost over three year(s)</b>	<b>CA\$25.78</b>
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## Storage cost

### Hardware

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

<b>Total storage procurement cost</b>	<b>CA\$19,356.70</b>
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### 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

<b>Backup and Archive cost over three year(s)</b>	<b>CA\$4,836.90</b>
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### Storage Maintenance

Storage maintenance cost (10% of storage procurement cost) over three year(s)	CA\$5,807.02
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<b>Total storage maintenance cost over three year(s)</b>	<b>CA\$5,807.02</b>
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<b>Total storage cost over three year(s)</b>	<b>CA\$30,000.65</b>
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## Azure storage cost

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

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

<b>Backup and Archive maintenance cost over three year(s)</b>	<b>CA\$155,839.30</b>
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<b>Total Azure storage cost over three year(s)</b>	<b>CA\$234,234.07</b>
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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**