

WEEK 8: COST MANAGEMENT & OPTIMIZATION



REVIEW: WEEK 7

We focused on real-world case studies of cloud transformation using Azure.

We highlighted real-world benefits of using Azure to transform businesses.

- Healthcare
- Finance
- Manufacturing
- Retail

- Week 1-2: Introduction to Cloud Technology
- Week 3-5: Cloud Strategy and Architecture
- Week 6-7: Use Cases and Real-World Applications
- **Week 8-9: Benefits and Value Proposition**
- Week 10-12: Challenges and Risks
- Week 13-14: Interactive Simulations and Practical Exercises
- Week 15: Course Review and Final Assessment

OVERVIEW: WEEK 8

Understanding Cloud Economics:

- Evaluate CapEx vs. OpEx, Total Cost of Ownership (TCO), and ROI models
- Learn how cloud economics drive business value and investment decisions

Cost Management Tools and Techniques:

- Explore Azure Cost Management, Pricing Calculator, and Reserved Instance strategies
- Discover budgeting, auto-scaling, and resource optimization best practices

Case Studies on Cost Savings:

- Review real-world examples where strategic cost management led to 30-40% savings
- Analyze how similar strategies can be applied to your organization

INTRODUCTION TO CLOUD ECONOMICS

Definition: Understanding the financial aspects of cloud computing.

Importance: Aligning cloud strategies with business goals.

Scope: CapEx vs. OpEx, TCO, and ROI models.

Objective: Equip leaders with financial insights for cloud decisions.

Outcome: Enhanced investment decision-making.

CAPEX VS OPEX



CapEx (Capital Expenditure): Upfront investments in physical assets.

OpEx (Operational Expenditure): Ongoing costs for operations.

Cloud Shift: Transitioning from CapEx to OpEx.

Financial Flexibility: Benefits of reduced upfront costs.

Budgeting Implications: Impact on financial planning.

TOTAL COST OF OWNERSHIP (TCO)

Definition: Comprehensive cost assessment over asset lifespan.

Components: Direct and indirect costs.

Cloud TCO: Factors influencing cloud computing costs.

Comparison: On-premises vs. cloud TCO.

Decision-Making: Using TCO for strategic planning.



RETURN ON INVESTMENT (ROI)



Definition: Measure of profitability from investments.

Calculation: ROI formula and interpretation.

Cloud ROI: Evaluating returns from cloud investments.

Factors: Elements affecting cloud ROI.

Strategic Use: Leveraging ROI for investment decisions.

CLOUD ECONOMICS DRIVING BUSINESS VALUE

Agility: Rapid scalability and innovation.

Cost Efficiency: Optimizing operational expenses.

Global Reach: Expanding market presence.

Risk Management: Enhancing security and compliance.

Competitive Edge: Staying ahead in the market



FACTORS INFLUENCING CLOUD TOTAL COST OF OWNERSHIP (TCO)

Usage Patterns: Variability in resource consumption.

Service Selection: Choosing appropriate cloud services.

Pricing Models: Understanding pay-as-you-go vs. reserved instances.

Geographic Considerations: Data center locations affecting costs.

Compliance Requirements: Costs associated with regulatory adherence

STRATEGIES TO OPTIMIZE CLOUD TCO

Right-Sizing Resources: Aligning resources with actual needs.

Auto-Scaling: Adjusting resources based on demand.

Reserved Instances: Leveraging cost savings for predictable workloads.

Efficient Architecture: Designing for cost-effective performance.

Continuous Monitoring: Regularly reviewing and adjusting resource usage.

POP QUIZ:

Which of the following best describes OpEx in cloud computing?

- A. Upfront capital investments
- B. Ongoing operational expenses
- C. Total cost over asset lifespan
- D. Revenue generated from cloud services



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Which strategy involves adjusting cloud resources automatically based on demand?

- A. Right-sizing
- B. Auto-scaling
- C. Reserved instances
- D. Continuous monitoring



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OVERVIEW OF AZURE COST MANAGEMENT

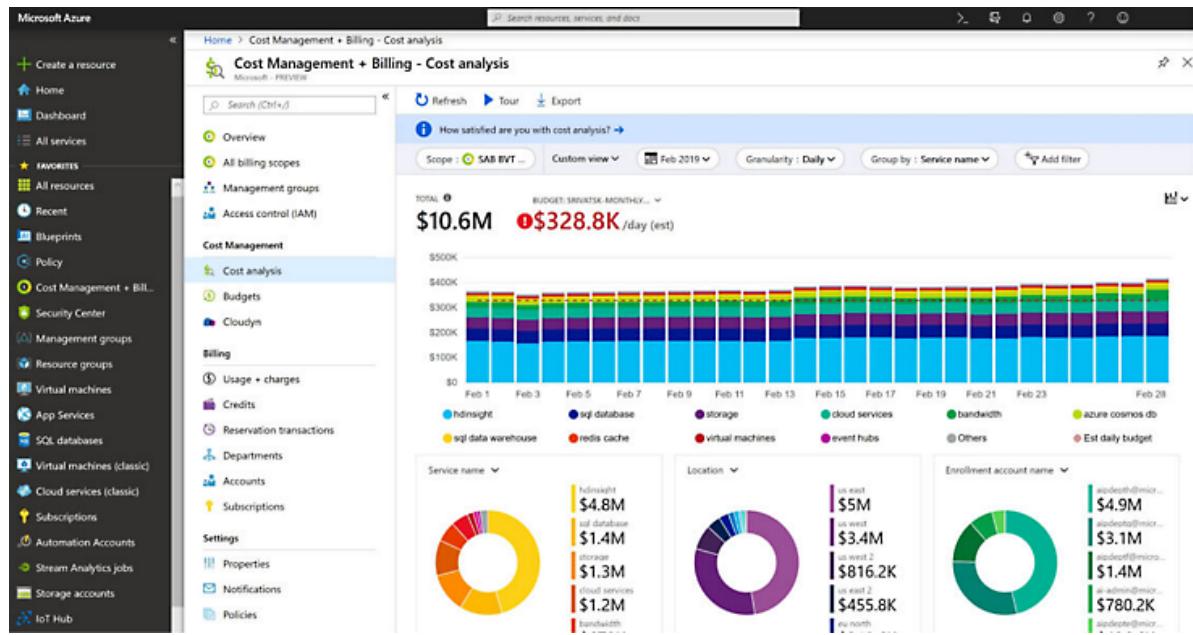
Comprehensive Cost Analysis: Provides detailed insights into cloud spending across services and resources.

Budgeting and Forecasting: Enables setting budgets and predicting future costs based on usage trends.

Cost Allocation: Allows distribution of costs across departments or projects for accountability.

Anomaly Detection: Identifies unexpected spending patterns to prevent budget overruns.

Integration Capabilities: Seamlessly integrates with other Azure services and third-party tools.



[Cloud Cost Optimization | Microsoft Azure](#)

MICROSOFT COST MANAGEMENT



Microsoft Cost Management is a suite of FinOps tools designed to help organizations analyze, monitor, and optimize their Microsoft Cloud costs.

Accessibility: Available to anyone with access to a billing account, subscription, resource group, or management group.

Integration: Can be accessed within the billing and resource management experiences or as a standalone tool.

Automation: Supports automation and extension of native capabilities to maximize organizational visibility and accountability.

Optimization: Helps achieve optimization and efficiency goals faster.

KEY FEATURES OF MICROSOFT COST MANAGEMENT

Cost Analysis: Report on and analyze costs in the Azure portal, Microsoft 365 admin center, or Power BI.

Proactive Monitoring: Monitor costs with budget, anomaly, reservation utilization, and scheduled alerts.

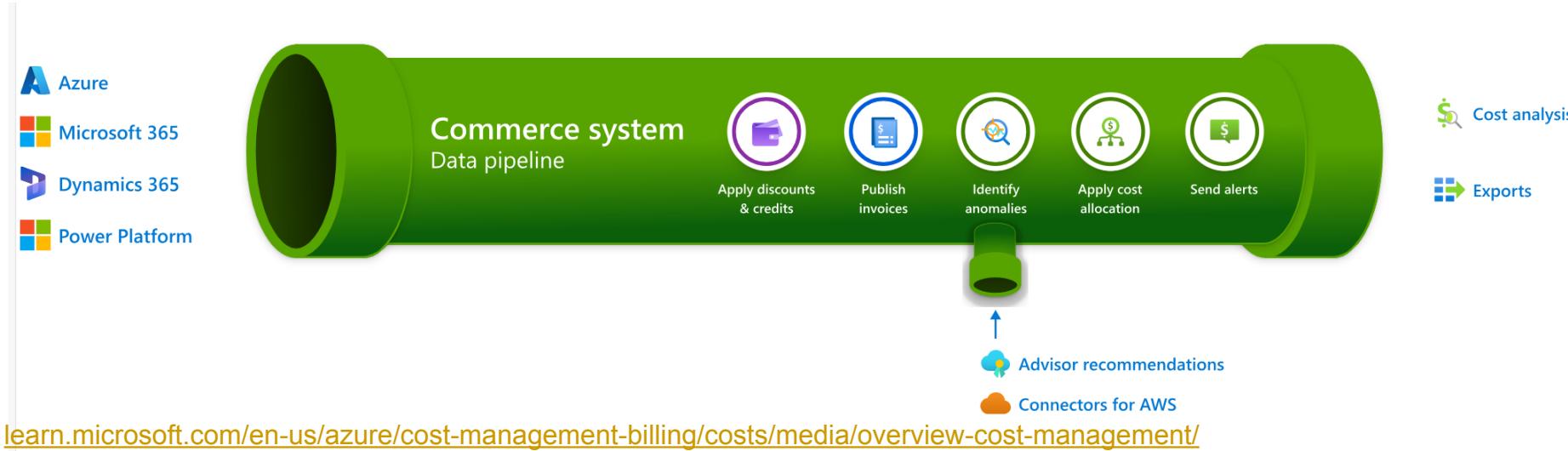
Cost Allocation: Enable tag inheritance and split shared costs with cost allocation rules.

Data Export: Automate business processes or integrate cost data into external tools by exporting data.

Visibility: Provides comprehensive visibility into costs across multiple scopes.



UNDERSTANDING HOW CHARGES ARE PROCESSED



Commerce System: Microsoft Commerce is a data pipeline that underpins all Microsoft commercial transactions.

Usage Measurement: Azure, Microsoft 365, Dynamics 365, and Power Platform services measure usage and purchase quantities.

Rating System: Applies discounts based on specific price sheets and generates rated usage.

Billing Process: Credits are applied, and invoices are published at the end of the billing period.

DATA INCLUDED IN COST MANAGEMENT

Products and Subscriptions: Manage all products, subscriptions, and recurring purchases.

Credits and Invoices: Review credits and commitments, view and pay invoices.

Exclusions: Cost Management doesn't include credits, taxes, and some purchases like support charges.

Transition: Classic CSP and sponsorship subscriptions will be supported after transitioning to Microsoft Customer Agreement.

ORGANIZING AND ALLOCATING COSTS

Edit tags

Tags are name/value pairs that enable you to categorize resources and view consolidated billing by applying the same tag to multiple resources and resource groups. Tag names are case-insensitive and tag values are case-sensitive. [Learn more about tags](#)

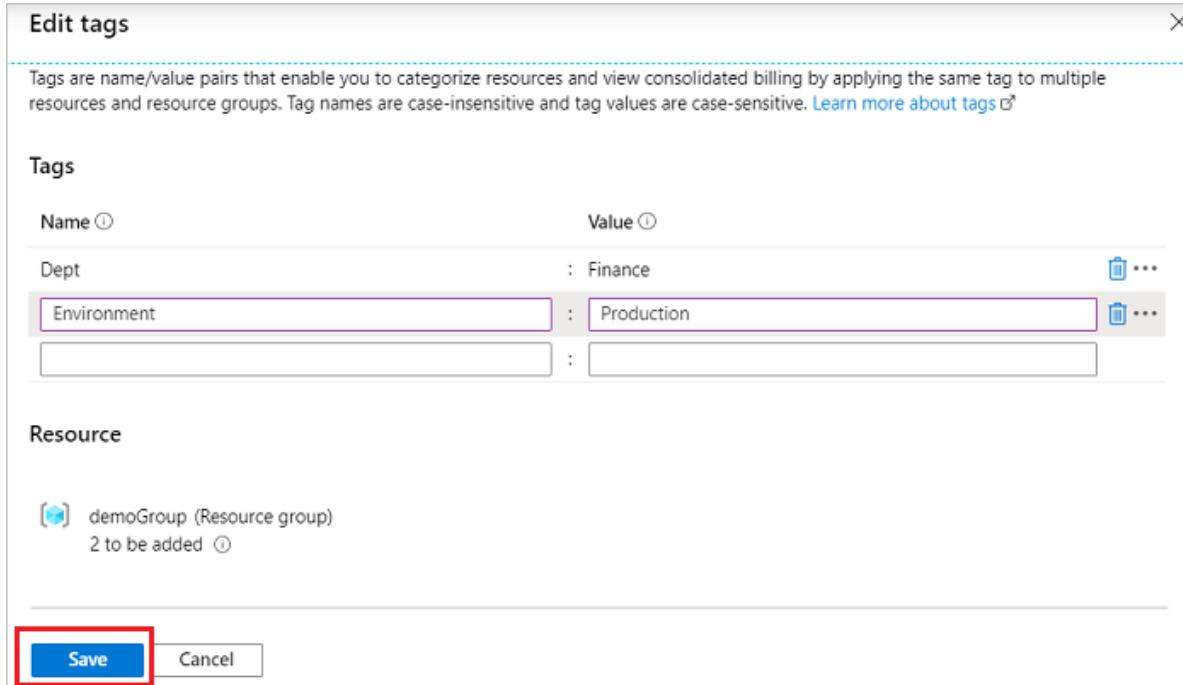
Tags

Name ⓘ	Value ⓘ
Dept	: Finance
Environment	: Production
	:

Resource

[] demoGroup (Resource group)
2 to be added ⓘ

Save **Cancel**



Subscription Hierarchy: Organize subscriptions and resources for natural reporting.

Billing Profiles and Invoice

Sections: Group subscriptions into invoices for different business units.

Management Groups: Group subscriptions with inherited access and multiple levels.

Resource Tags: Add business context to cost details for applications, business units, and environments.

ORGANIZING AND ALLOCATING COSTS – CONT'D

Consistent Tagging Conventions: Establishing standardized tags for all resources.

Departmental Allocation: Assigning resources to specific departments for precise cost tracking.

Project-Based Tagging: Categorizing resources by project to monitor spending effectively.

Environment Identification: Differentiating between development, testing, and production environments.

Automated Tag Enforcement: Utilizing policies to ensure compliance with tagging standards.

MONITORING COSTS WITH ALERTS

Create an alert rule ...

Scope Condition Actions Details Tags Review + create

Configure when the alert rule should trigger by selecting a signal and defining its logic.

Signal name * ⓘ

Availability

See all signals

Alert logic

We have set the condition configuration automatically based on popular settings for this metric. Please review and make changes as needed.

Threshold type ⓘ

Static Dynamic

Aggregation type ⓘ

Average

Value is ⓘ

Less than

Threshold * ⓘ

90

%

Split by dimensions

Use dimensions to monitor specific time series and provide context to the fired alert. [About monitoring multiple time series](#)

Dimension name	Operator	Dimension values	Include all future values
Select dimension	=	0 selected	<input type="checkbox"/>

When to evaluate

Check every ⓘ

1 minute

Lookback period ⓘ

5 minutes

[Review + create](#)

[Previous](#)

[Next: Actions >](#)

Budget Alerts: Notify when costs exceed predefined amounts.

Anomaly Alerts: Detect unexpected changes in daily usage.

Scheduled Alerts: Provide regular updates on costs based on saved views.

EA Commitment Balance Alerts: Notify when commitment balance is 90% or 100% used.

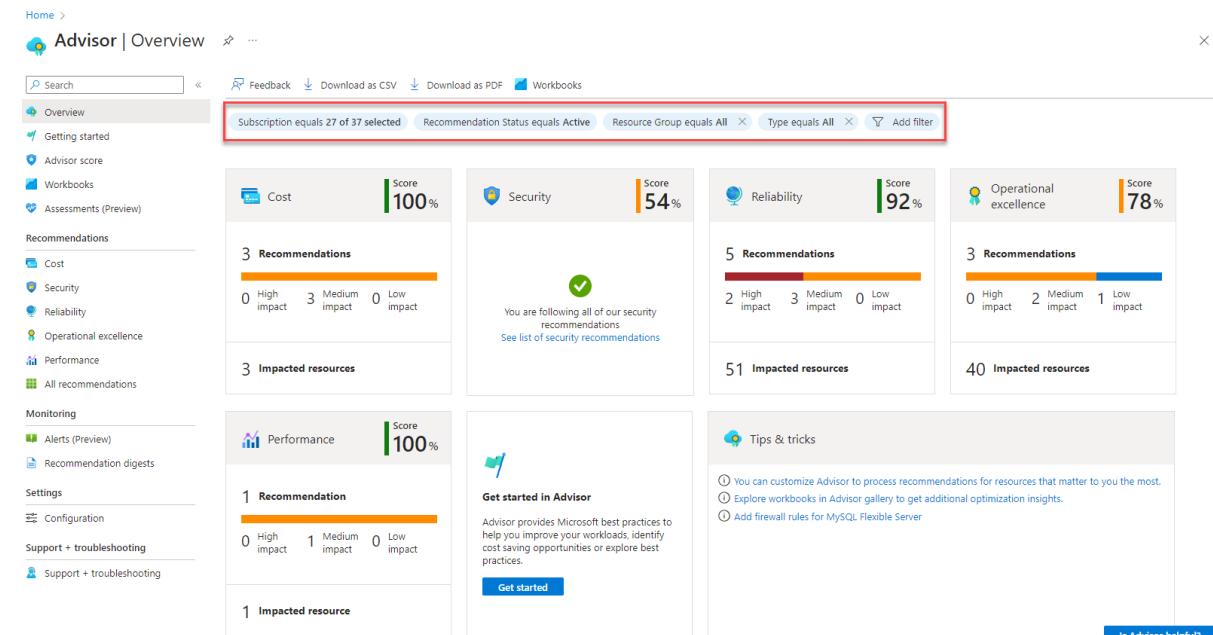
OPTIMIZING COSTS

Azure Advisor: Provides cost recommendations based on usage patterns.

Azure Savings Plans: Save up to 65% on Azure compute resources.

Azure Reservations: Save up to 72% by pre-committing to usage.

Azure Hybrid Benefit: Reduce costs using existing licenses on Azure.



[Introduction to Azure Advisor - Azure Advisor | Microsoft Learn](#)

POP QUIZ:

What is the primary function of Billing in Microsoft Cost Management?

- A) Analyzing costs
- B) Managing billing accounts and paying invoices
- C) Optimizing cloud resources
- D) Monitoring security policies



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- B) Optimizing cloud resources
- C) Monitoring security policies
- D) Managing billing accounts and paying invoices**



POP QUIZ:

What does the rating system in Microsoft Commerce do?

- A) Measures usage
- B) Applies discounts and generates rated usage
- C) Publishes invoices
- D) Manages user accounts



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ESTIMATING YOUR CLOUD COSTS

TCO Calculator: Helps estimate the cost of moving on-premises infrastructure to the cloud.

Azure Migrate: Analyzes on-premises workloads and plans cloud migration.

Azure Pricing Calculator: Estimates costs for new or expanded deployments.

VM Selector Tool: Finds the best VMs for your solutions.

Azure Hybrid Benefit Calculator: Estimates savings using existing licenses on Azure.

UTILIZING THE PRICING CALCULATOR

The screenshot shows the Azure Pricing Calculator interface. At the top, there's a navigation bar with tabs: Products (selected), Example scenarios, Saved estimates, and FAQs. Below the navigation is a blue header bar with the text "Select a product to include it in your estimate." A search bar labeled "Search products" is present. On the left, a sidebar lists "Popular" services and other categories: Compute, Networking, Storage, Web, Mobile, Containers, Databases, Analytics, AI + machine learning, Internet of Things, Integration, Identity, Security, Developer tools, DevOps, Management and governance, Media, Migration, Mixed reality, and Hybrid + multicloud. The main area displays eight service cards: Virtual Machines, Storage Accounts, Azure SQL Database, App Service, Azure Cosmos DB, Azure Kubernetes Service (AKS), Azure Functions, Azure AI services, and Microsoft Cost Management.

Customizable Estimates: Tailor cost estimates based on specific service selections and configurations.

Scenario Planning: Evaluate costs for various deployment scenarios and usage patterns.

Currency Selection: View estimates in multiple currencies for global financial planning.

Exportable Reports: Generate detailed reports for stakeholder review and decision-making.

Regular Updates: Reflects the latest pricing to ensure accurate estimations.

INTRODUCTION TO THE TCO CALCULATOR

Purpose: Estimate cost savings by migrating workloads to Azure.

Workload Details: Enter on-premises workload details for accurate analysis.

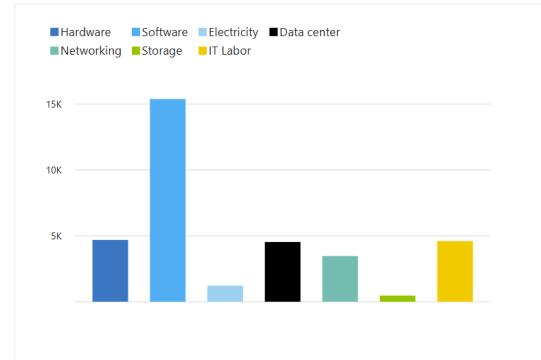
Components: Includes servers, databases, storage, and networking.

Customization: Adjust assumptions to match your environment.

Report Generation: View detailed cost comparison reports.

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.

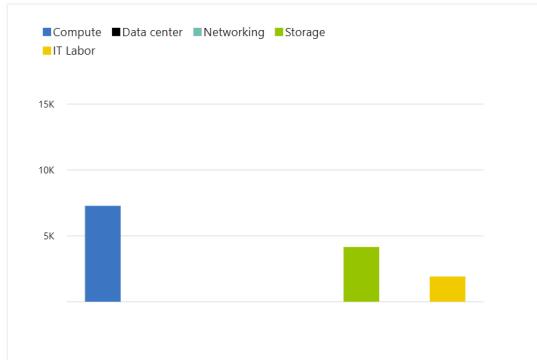


\$98,353

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.



\$13,353

Cost over 5 year(s)

On-premises cost breakdown summary

Category

Compute	\$85,279.10
Hardware	\$4,692.00
Software	\$15,387.50
Electricity	\$1,227.60
Database	\$63,972.00

Category

Data Center	\$4,534.05
Networking	\$3,472.71
Storage	\$467.20
IT Labor	\$4,600.00

Total

Azure cost breakdown summary

Category	Cost
Compute	\$7,280.04
Data Center	\$0.00
Networking	\$0.00
Storage	\$4,155.61
IT Labor	\$1,917.05

DEFINING YOUR WORKLOADS

Servers: Enter details of on-premises server infrastructure.

Databases: Provide information on on-premises database infrastructure.

Storage: Specify details of on-premises storage infrastructure.

Networking: Enter the amount of network bandwidth consumed.

 Bulk Upload  My saved reports  Sign In

Define your workloads

Enter the details of your on-premises workloads. This information will be used to understand your current TCO and recommended services in Azure.

Servers

Enter the details of your on-premises server infrastructure. After adding a workload, select the workload type and enter the remaining details.

 Add server workload

Databases

Enter the details of your on-premises database infrastructure. After adding a database, enter the details of your on-premises database infrastructure in the Source section. In the Destination section, select the Azure service you would like to use.

 Add database

Storage

Enter the details of your on-premises storage infrastructure. After adding storage, select the storage type and enter the remaining details.

 Add storage

Networking

Enter the amount of network bandwidth you currently consume in your on-premises environment.

Outbound bandwidth 	1	Destination Region
GB		
(1 - 2000000)		

Next



ADJUSTING ASSUMPTIONS

The screenshot shows the Microsoft Azure TCO calculator interface. At the top right are 'My saved reports' and 'Sign In' buttons. A 'Currency' dropdown is set to 'United States - Dollar (\$)'.

Adjust assumptions
The following assumptions in the TCO model are industry averages accredited by Nucleus Research. To get a more accurate TCO report, update and customize these values to reflect your situation, which can vary by industry and location.

Software Assurance coverage (provides Azure Hybrid Benefit)
Enable this if you have purchased this benefit for your on-premises Windows or SQL Servers. If enabled, Azure Hybrid Benefit (AHB) will be applied to Azure estimates. AHB helps you get more value from your on-premises licenses — save up to 40 percent on virtual machines and up to 82 percent with Azure Reserved Virtual Machines (VM) instances.

Windows Server Software Assurance coverage

SQL Server Software Assurance coverage

[Learn more about Software Assurance >](#) [Learn more about Azure Hybrid Benefit >](#)

Geo-redundant storage (GRS)
GRS replicates your data to a secondary region that is hundreds of miles away from the primary region.

[Learn more about GRS >](#)

Virtual Machine costs
Enable this for the Calculator to not recommend Bs-series virtual machines

[Learn more about Bs-series virtual machines >](#)

Electricity costs
Price per KW hour USD

Storage costs

Cost Type	Value	Currency
Storage procurement cost/GB for local disk/SAN-SSD	0.4	USD
Storage procurement cost/GB for local disk/SAN-HDD	0.2	USD
Storage procurement cost/GB for NAS/file storage	0.2	USD
Storage procurement cost/GB for Blob storage	0.2	USD
Annual enterprise storage software support cost	10	%
Cost per tape drive	160	USD

Customization: Tailor assumptions to match your environment.

Cost Factors: Adjust factors like hardware costs, software costs, and labor costs.

Usage Patterns: Modify usage patterns to reflect actual consumption.

Scalability: Consider future growth and scalability needs.

TCO REPORT

Cost Comparison: Detailed comparison of on-premises vs. Azure costs.

Savings Breakdown: Highlights potential savings in various areas.

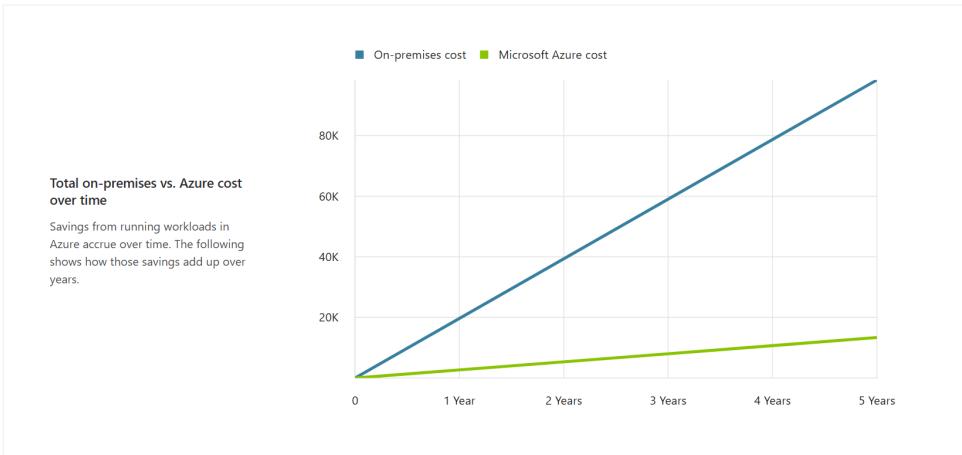
Recommendations: Provides recommendations for optimizing costs.

Export Options: Export the report for further analysis and sharing.

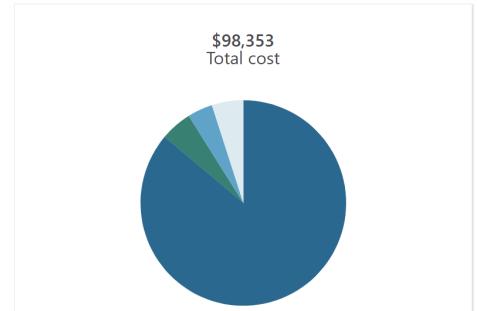
[View report](#)

Timeframe Region Licensing program Show Dev/Test Pricing

Over 5 year(s) with Microsoft Azure, your estimated cost savings could be as much as **\$85,000**



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.



BENEFITS OF USING THE TCO CALCULATOR

Accurate Estimates: Provides accurate cost estimates for migration.

Informed Decisions: Helps make informed decisions about cloud migration.

Cost Optimization: Identifies areas for potential cost savings.

Strategic Planning: Supports strategic planning and budgeting.

CASE STUDY: ENGLEWOOD HEALTH'S MIGRATION TO AZURE



ENGLEWOOD
HEALTH

Overview: Englewood Health, a healthcare provider with over 3,700 employees, migrated its IT infrastructure to Azure.

Challenges: Fragmented IT architecture, underutilized resources, and the need for performance and efficiency improvements.

Solution: CloudIQ helped consolidate and migrate Englewood's IT infrastructure to Azure, enhancing productivity and optimizing resources.

Azure Migrate: Used to assess on-premises workloads and plan the migration.

Cost Estimation: TCO Calculator provided detailed cost savings estimates.

CASE STUDY: CUSTOMER CHALLENGES



ENGLEWOOD
HEALTH

Fragmented IT Architecture: Various solutions adopted piecemeal, leading to inefficiencies.

Underutilized Resources: Existing infrastructure was not fully optimized.

Performance and Efficiency: Needed improvements in overall performance and task automation.

Cost Estimation: Required accurate cost estimates for migration.

CASE STUDY: PARTNER SOLUTION



ENGLEWOOD
HEALTH

CloudIQ Partnership: Englewood Health partnered with CloudIQ for the migration.

Azure Migrate: Assessed on-premises workloads and planned the migration.

TCO Calculator: Provided detailed cost savings estimates.

Phased Migration: Application dependencies were studied and mapped, and a cluster-based migration plan was devised.

CASE STUDY: CUSTOMER BENEFITS



ENGLEWOOD
HEALTH

Enhanced Security: Modern hybrid Azure infrastructure with updated network infrastructure.

Cost Reduction: VM consolidation and modernization reduced costs using Azure Hybrid Benefit.

Performance Boost: Significant performance improvements with CPU utilization of 60-70%.

Better Decision-Making: Improved infrastructure helps make better decisions and enhance overall care.

POP QUIZ:

Which tool helps you estimate the cost of moving on-premises infrastructure to the cloud?

- A) Azure Migrate
- B) Azure Pricing Calculator
- C) TCO Calculator
- D) VM Selector Tool



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- A) Grouping subscriptions
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- B) To develop applications
- C) To manage user accounts
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RESERVED INSTANCE STRATEGIES

Cost Savings: Potentially reduce costs by up to 72% compared to pay-as-you-go pricing.

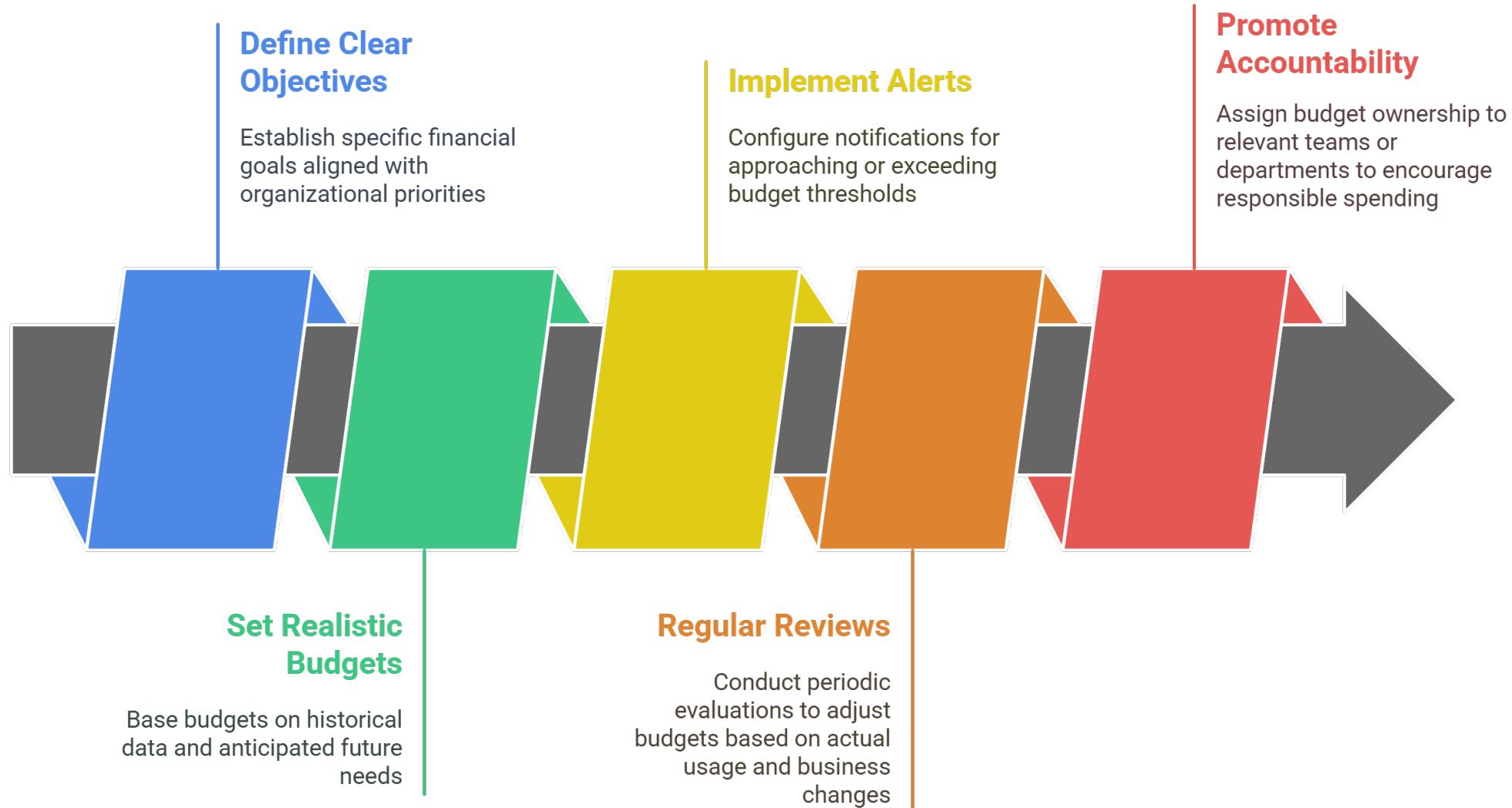
Flexible Terms: Offers one-year or three-year commitment options to suit organizational needs.

Instance Size Flexibility: Allows adjustments within a specific VM family to accommodate changing requirements.

Exchange and Refund Options: Provides the ability to modify or cancel reservations under certain conditions.

Scope Application: Apply reservations to specific subscriptions or shared across the organization.

BUDGETING BEST PRACTICES



LEVERAGING AUTO-SCALING FOR COST EFFICIENCY

Demand-Driven Resource Allocation: Automatically adjusts resources based on real-time workload demands.

Cost Reduction: Minimizes expenses by scaling down resources during periods of low demand.

Improved Performance: Ensures optimal application performance during peak usage times.

Policy-Based Scaling: Utilize predefined policies to govern scaling actions, maintaining control over resource adjustments.

Integration with Monitoring Tools: Combine with monitoring solutions for proactive management and optimization.

AUTOMATION IN COST MANAGEMENT

Automated Resource Provisioning: Deploying resources based on predefined templates to prevent over-provisioning.

Policy-Driven Automation: Enforcing cost policies through automated workflows.

Automated Scaling: Adjusting resource capacity in real-time based on demand fluctuations.

Cost Anomaly Detection: Utilizing machine learning to identify and alert on unusual spending patterns.

Automated Decommissioning: Retiring unused resources without manual intervention.

TRAINING & AWARENESS

Cost Management Training Programs: Educating teams on best practices and tools.

Regular Workshops: Conducting sessions to share updates and strategies.

Accessible Documentation: Providing clear guidelines and resources for cost management.

Leadership Engagement: Ensuring leadership understands and supports cost management initiatives.

Feedback Mechanisms: Establishing channels for continuous improvement

WEEK 8 ACTIVITY

Objective: Learn how to use Azure Cost Management & Billing to track cloud expenditures

Lab Requirements:

- An **Azure account** (Your instructor will provide you with a student account)
- Access to the **Azure portal** (portal.azure.com).

STEP 1: CREATE A WEB APP TO GENERATE COST DATA

Replace **YourName** with your actual name in the instructions that follow:

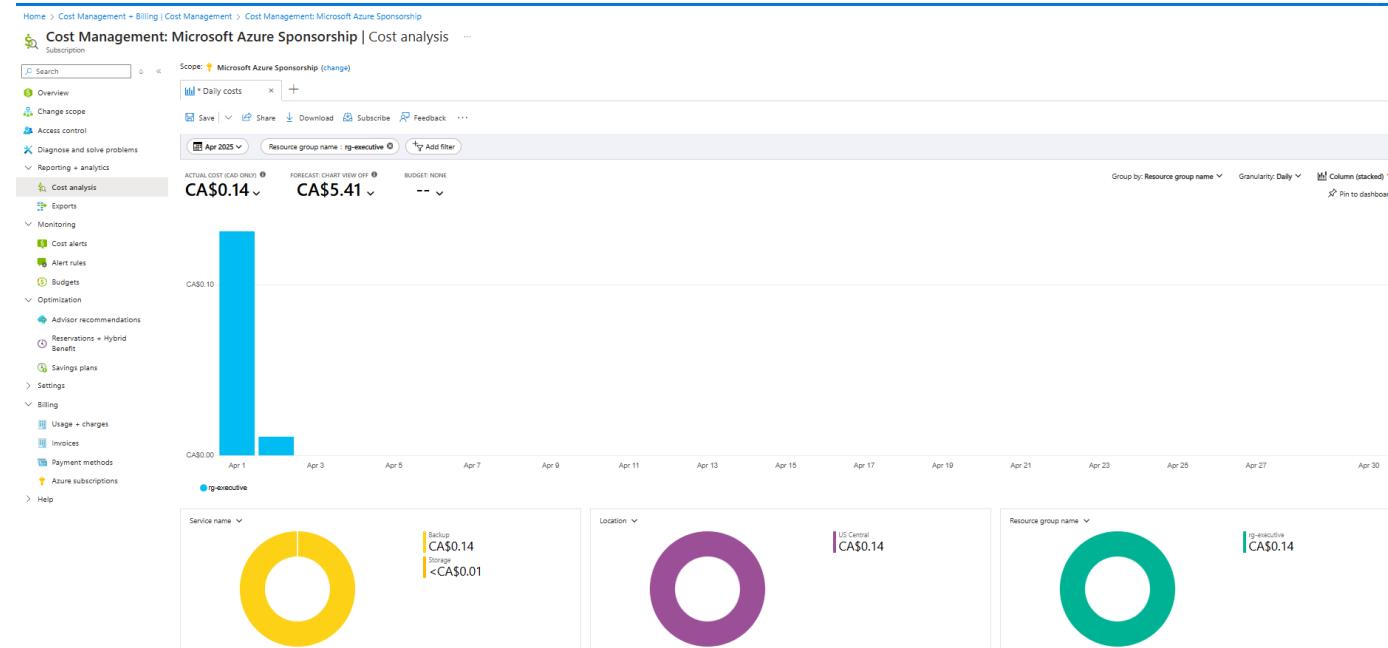
- **Log in to the [Azure portal](#).**
- **Click on + Create a resource** at the top left.
- **Search for “Web App”** and select it.
- **Click Create** and fill out the basic details:
 - **Subscription:** Your subscription.
 - **Resource Group:** Create a new resource group called “CostManagementRGYourName”.
 - **Name:** Enter a unique name (e.g., “SampleWebAppYourName2025”).
 - **Publish:** Code.
 - **Runtime Stack:** Choose Node 22 LTS.
 - **Operating System:** Leave Linux as the selected choice
 - **Region:** Select East US
 - **Linux Plan:** Click Create New and name it “SampleWebAppPlanYourName”
 - **Pricing Plan:** Select Premium V3 P0V3
- Leave Zone Redundancy as is
- **Click on Review + create**
- **Click on Create** and wait for deployment to complete
- **Click on Go to resource** after deployment completes

The screenshot shows the 'Create Web App' configuration page in the Azure portal. The 'Project Details' section includes a 'Subscription' dropdown set to 'Microsoft Azure Sponsorship' and a 'Resource Group' dropdown set to '(New) CostManagementRG'. The 'Instance Details' section shows a 'Name' field with 'SampleWebApp2025' and a note about a secure hostname. It also includes 'Publish' options ('Code' selected), 'Runtime stack' ('Node 22 LTS'), 'Operating System' ('Linux' selected), and a 'Region' dropdown set to 'East US' with a note about app service plans. The 'Pricing plans' section shows a 'Linux Plan (East US)' dropdown set to '(New) SampleWebAppPlan' and a 'Pricing plan' dropdown set to 'Premium V3 P1MV3 (195 minimum ACU/vCPU, 16 GB memory, 2 vC...'. The 'Zone redundancy' section has two options: 'Enabled' (selected) and 'Disabled'. At the bottom, there are 'Review + create', '< Previous', and 'Next : Database >' buttons.

STEP 2: AZURE COST ANALYSIS

The purpose of this activity is for you to familiarize with the Azure Cost Analysis. You will not get any data on the report if you have just created a new account or resource. It takes a few hours for Azure to show the data.

- In the **Azure portal**, click on the search bar and type “Cost Management + Billing”, then select it.
- Click on **Cost Analysis** to view an overview of your current spending.
- Since you just created resources, you’ll see zero or minimal cost data. This is expected in a blank account.



STEP 3: SET A BUDGET

- In **Cost Management + Billing**, go to **Budgets** (located on the left panel under Monitoring).
- Click **+ Add** to create a new budget.
- Set the **Filter** to your newly created resource group “CostManagementRGYourName”.
- Name your budget (e.g., "Training-Budget").
- Enter a **budget amount** (e.g., \$10 for the month—this low amount reflects the minimal usage).
- Click **Next** to set up alerts

Home > Cost Management + Billing | Cost Management > Cost Management: Microsoft Azure Sponsorship | Budgets >

Create budget ...

Budget

✓ Create a budget Set alerts

Create a budget and set alerts to help you monitor your costs.

Budget scoping

The budget you create will be assigned to the selected scope. Use additional filters like resource groups to have your budget monitor with more granularity as needed.

Scope Microsoft Azure Sponsorship

Filters ResourceGroupName : rg-executive Add filter

Budget Details

Give your budget a unique name. Select the time window it analyzes during each evaluation period, its expiration date and the amount.

Name Training-Budget

Reset period Billing month

Creation date 2025 February 22

Expiration date 2027 February 21

Budget Amount

Give your budget amount threshold

Amount (C) 10

Suggested budget: CA\$19 based on forecast.

VIEW OF MONTHLY COST DATA
Mar 2025 - May 2025

LAST MONTH	MAX (PAST 2 MONTH)	MAX MONTHLY FORECAST
CA\$1	CA\$1	CA\$19

forecast
actual
Budget

Previous Next >

STEP 4: SETUP BUDGET ALERTS

- In the **Set alerts** step, go to alert conditions and enter the following:
 - Type:** Actual
 - % of budget:** 10
 - Leave the Action group blank**
- Alert recipients email:** Enter the email(s) to send alerts to
- Click **Create** to finish setting up your budget

NB: The budget takes a few hours to be active.

To learn more visit: [Tutorial - Create and manage budgets - Microsoft Cost Management | Microsoft Learn](#)

Name	Scope	Reset period	Creation date	Expiration date	Budget	Forecasted	Evaluated spend	Progress
Training-Budget	33266a41-134d-4de7-a780-665b3... BillingMonth	2/22/2025	2/21/2027	CA\$10.00	CA\$0.00	0.00%	***	

Home > Cost Management + Billing | Cost Management > Cost Management: Microsoft Azure Sponsorship | Budgets >

Create budget ...

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Reset period Billing month ▼

Creation date 2025 February 22 ▼

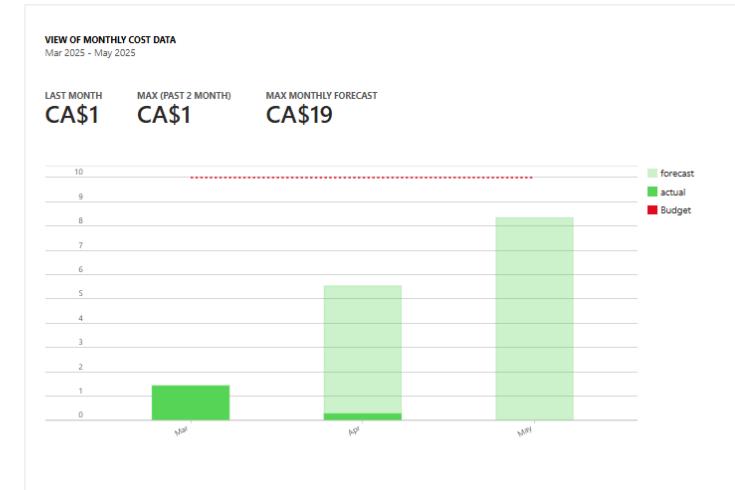
Expiration date 2027 February 21 ▼

Budget Amount

Give your budget amount threshold

Amount (C) * 10 ✓

ⓘ Suggested budget: CA\$19 based on forecast.



STEP 5: CREATE A COST REPORT

- In Cost Management + Billing, click on Exports under Reporting + analytics
- Click + Create to create a new export report.
- Click on Create your own export
- Define the export
 - Type of data: Cost and usage details
 - Export name: Daily-Usage
 - Data version: Leave default
 - Frequency: Daily export of month-to-date costs
- Click Add
- Enter an Export Prefix e.g. EXEC
- Click Next to add a destination
 - Storage type: Azure blob storage
 - Destination and storage: Create new
 - Resource group: CostManagementYourNameRG
 - Account name: enter a globally unique name
 - Container: exec-reports
 - Directory: usage
 - Leave all other fields as default
- Click Review + create
- Then click on Create

The screenshot illustrates the process of creating a new export report in the Azure Cost Management + Billing service. It shows three main steps:

- Edit export:** This step shows the configuration for the new export:
 - Type of data: Cost and usage details (usage only)
 - Export name: Weekly-Usage
 - Dataset version: 2019-11-01
 - Frequency: Daily export of month-to-date costs
 - Export description: Describe this export
- New export:** This step shows the destination configuration:
 - Export prefix: EXEC
 - Storage type: Azure blob storage
 - Destination and storage: Create new
 - Subscription: Microsoft Azure Sponsorship
 - Resource group: CostManagementRG
 - Account name: execreports2030
 - Location: (US) East US
 - Container: exec-reports
 - Directory: usage
 - Format: CSV
 - Compression type: Gzip
 - File partitioning: Enable partitioning if you have larger datasets and want your exports to be split into multiple files.
 - Overwrite data: Checkmark indicating exports can now overwrite the same file throughout the month instead of creating a new file for each run.
- Review + create:** This step shows the final review of the export settings before creation:

Name	Type	Schedule status	Dataset version	Last run	Frequency	Destination type	Destination	Estimated next run
EXEC-Weekly-Usage	Cost and usage details (usage only)	Active	2019-11-01	---	Daily	Azure blob storage	execreports2025	4/3/2025, 3:00 UTC

STEP 6: RUNNING A REPORT EXPORT

- In **Cost Management + Billing**, click on **Exports** under Reporting + analytics
- Click on your report e.g. **EXEC-Daily-Usage**
- Click on **Run now** to schedule an export
- The report will be generated the following day if you selected Daily export of month-to-date costs when setting up the exports.

EXEC-Weekly-Usage

Exports

Run now Export selected dates Disable Delete Edit Refresh

Export successfully queued. The export should be available within the next day.

Essentials

Scope	: Microsoft Azure Sponsorship (Subscription)	Storage type	: Azure blob storage
Type of data	: Cost and usage details (usage only)	Storage account	: execreports2030
Frequency	: Daily	Storage account subscrip...	: 33266a41-134d-4de7-a780-665b38b0f7b8
Export start date (UTC)	: 4/2/2025	Storage container	: exec-reports
Expiration date (UTC)	: 2/1/2050	Storage directory	: usage
Schedule status	: Active	Dataset version	: 2019-11-01
File partitioning	: On	Export description	: ---
Overwrite data	: On	Format	: CSV
		Compression type	: Gzip

Run history

Execution time	Execution status
Apr 02, 2025, 11:28 AM	In progress

INDIVIDUAL KEY TAKEAWAYS



Write down three key insights from today's session.

Highlight how these take aways influence your work.

COURSE REVIEW

We explored the comprehensive suite of tools and strategies available in Microsoft Cost Management. We delved into key features such as cost analysis, proactive monitoring, and cost allocation, and examined how these tools can help organizations optimize their cloud spending.

Additionally, we discussed the importance of accurate cost estimation using tools like the TCO Calculator and Azure Migrate, and highlighted real-world case studies to illustrate the practical benefits of these solutions.

- Week 1-2: Introduction to Cloud Technology
- Week 3-5: Cloud Strategy and Architecture
- Week 6-7: Use Cases and Real-World Applications
- **Week 8-9: Benefits and Value Proposition**
- Week 10-12: Challenges and Risks
- Week 13-14: Interactive Simulations and Practical Exercises
- Week 15: Course Review and Final Assessment

NEXT WEEK: INNOVATION & AGILITY

- Accelerating time-to-market
- Enabling innovation through cloud services
- Examples of innovative cloud-based solutions

Q&A AND OPEN DISCUSSION



