# Azure Cost Management

Demo Script

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#### Introduction

Azure makes it easy to build and deploy cloud solutions. However, it's important that those solutions are optimized to minimize cost to an organization. **Azure Cost Management** gives you the tools to plan for, analyze and reduce wasted spend to maximize cloud investment. This document provides you with a Cost Management walkthrough and highlights the features available to you, in addressing an organization's cost challenges. The goal of the Azure Cost Management demo script is to familiarize you with the tools, so you will feel comfortable demo'ing to a customer.

#### **Talking Point**

Objective provide visibility into my Azure spend with the ability analyze, monitor and optimize my Azure [and AWS] costs.

## **Demo Setup Steps**

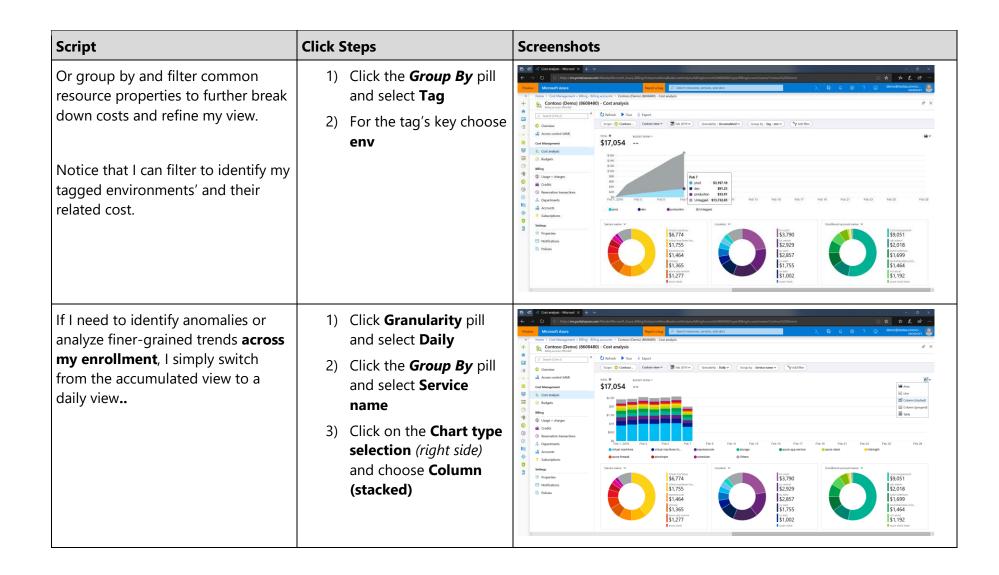
The demo displays best at 1080p resolution in Microsoft Edge or Google Chrome.

1. Start the demo:

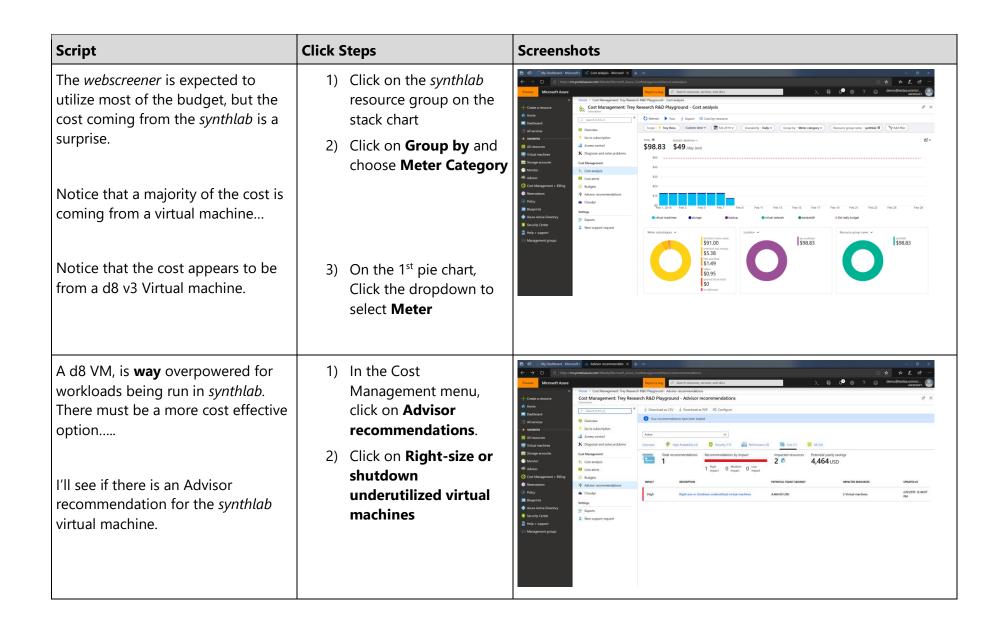
- a. In **Microsoft Edge** or **Google Chrome** navigate to <a href="http://aka.ms/costmgmt/">http://aka.ms/costmgmt/</a>
- b. Login as the following demo account:
  - U: demo@testea.onmicrosoft.com
  - P: Azdm##1!

# **Azure Cost Management Overview Demo Steps**

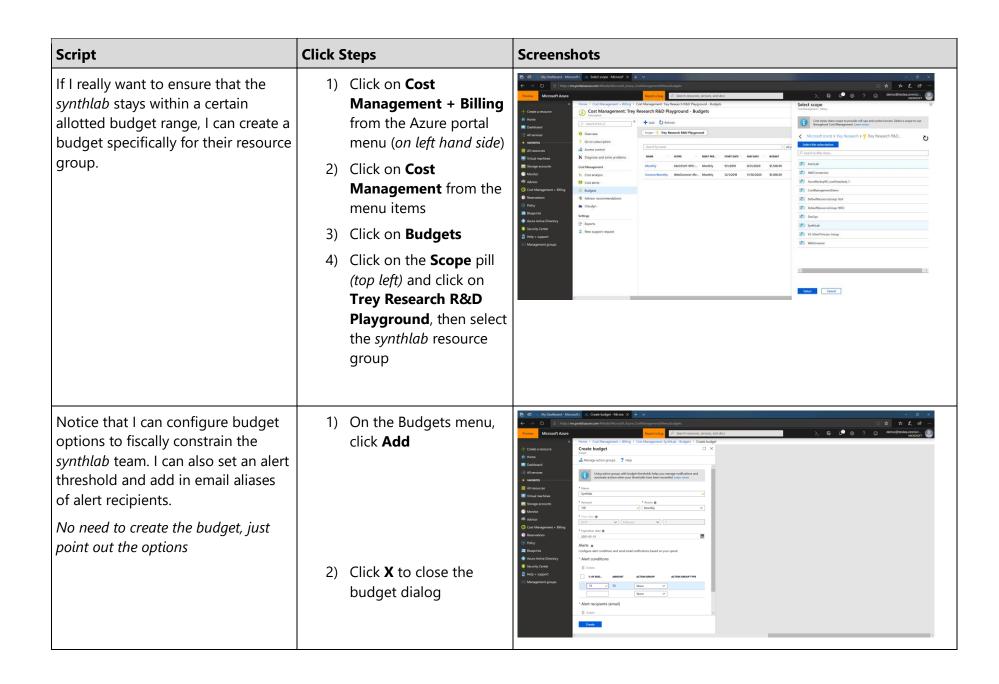
Script	Click Steps	Screenshots
With 1-click, you can see a summary view of my accumulated costs to	From the Cost Management overview	Py C Contraign Manual X   + V
date	1) Click on <b>Cost Analysis</b> (Focus on the main chart)	Continue   Total Continue   Continue   Continue   Total
and get a quick, at-a-glance view of my costs broken down by service, location, and enrollment account name (or Resource groups for non-billing account scopes.)	2) Click on the <b>Scope</b> pill (top left) and select the <b>Contoso (Demo)</b> (8608480) EA enrollment	0   Reportion Invasions   Sile   Si
	Point out the pie charts	
Notice that I can drill into data and pivot on different attributes to get a holistic picture of my primary cost drivers.	On the 1st pie chart  3) Click virtual machines slice in the pie chart  4) Click the <b>Group By</b> pill at the top and select <b>MeterSubCategory</b>	



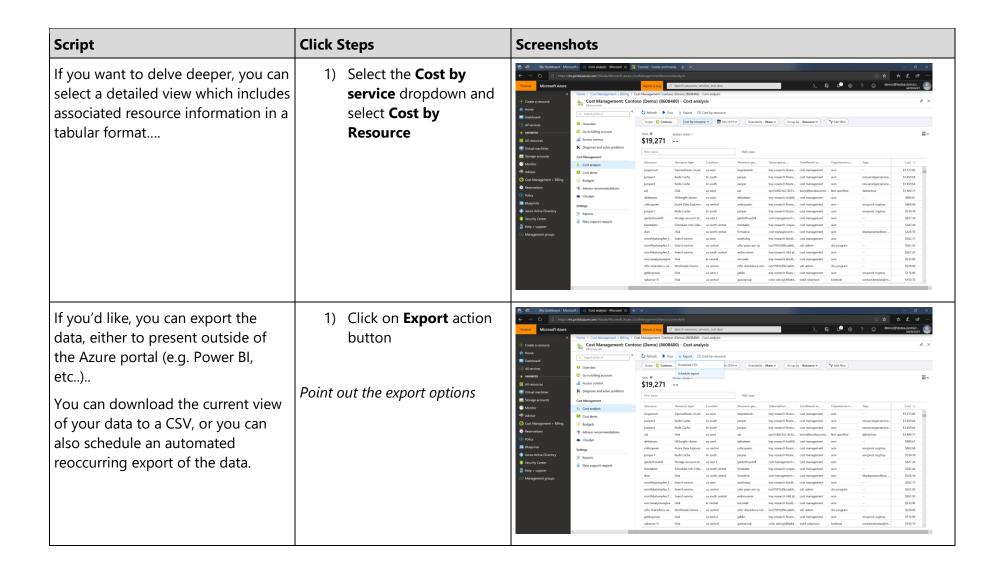
Script	Click Steps	Screenshots
Not only can I view my costs at the enrollment level, I can also delve into costs at a subscription level to delve into a particular subscription's expenses  Notice that I can set budgets on Subscriptions or Resource Groups to ensure that the teams stay within the allotted financial constraints.	<ol> <li>Click on the Scope pill (top left) and click on the Microsoft (root)</li> <li>click on Trey Research and then select the Trey Research R&amp;D Playground management group</li> </ol> Point out the budget line from the MONTHLY budget dotted red line	** Solect stope Microsoft August Power Shade Microsoft August Power August Power Power Microsoft August Power
I can also flip to a daily view, and I can see I'll definitely be over-budget by the end of the month, if I don't act now  My organizations uses resource groups to partition and cross-charge teams, so I want to determine which team or teams are overspending	<ol> <li>Click Granularity pill and select Daily</li> <li>Click on the Chart type selection (right side) and choose Column (stacked)</li> </ol>	Cost Management: Trey Research R&D Playground - Cost analysis  - Cost Namagement: Trey Research R&D Playground - Cost analysis  - Cost Namagement: Trey Research R&D Playground - Cost analysis  - Cost Namagement: Trey Research R&D Playground - Cost analysis  - Name - Cost Namagement: Trey Research R&D Playground - Cost analysis  - Name - Cost Namagement: Trey Research R&D Playground - Cost analysis  - Name - Cost Namagement: Trey Research R&D Playground - Cost analysis  - Name - Cost Namagement: Trey Research R&D Playground - Cost analysis  - Name - Cost Namagement: Trey Research R&D Playground - Cost analysis  - Name - Cost Namagement: Trey Research R&D Playground - Cost analysis  - Name - Cost Namagement: Trey Research R&D Playground - Cost analysis  - Name - Cost Namagement: Trey Research R&D Playground - Cost analysis  - Name - Cost Namagement: Trey Research R&D Playground - Cost analysis  - Name - Cost Namagement: Trey Research R&D Playground - Cost analysis  - Name - Cost Namagement: Trey Research R&D Playground - Cost analysis  - Name - Cost Namagement: Trey Research R&D Playground - Cost analysis  - Namagement - Cost Namagement: Trey Research R&D Playground - Cost analysis  - Namagement - Cost Namagement: Trey Research R&D Playground - Cost analysis  - Namagement - Cost Namagement: Trey Research R&D Playground - Cost analysis  - Namagement - Cost Namagement: Trey Research R&D Playground - Cost analysis  - Namagement - Cost Namagement: Trey Research R&D Playground - Cost analysis  - Namagement - Cost Namagement: Trey Research R&D Playground - Cost analysis  - Namagement - Cost Namagement: Trey Research R&D Playground - Cost analysis  - Namagement - Cost Namagement: Trey Research R&D Playground - Cost analysis  - Namagement - Cost Namagement: Trey Research R&D Playground - Cost analysis  - Namagement: Trey Research R&D Playground - Cost analysis  - Namagement: Trey Research R&D Playground - Cost analysis  - Namagement: Trey Research R&D Playground - Cost analysis  - Namagement: Trey Research R&D Playground
Notice that most of the cost is from two resource groups – webscreener & synthlab	3) Click on <b>Group by</b> and choose <b>Resource Group Name</b>	Table Services



Script	Click Steps	Screenshots
Notice that Advisor has flagged this VM as underutilized and suggested either to downsize it to a less expensive VM or to shut it down whilst it's unused	1) On the second dropdown, select <b>Group by resource group</b> Point out the Synth Driver 1 VM	Microsoft Annue  Micros
Since I don't have the permissions on the resource, I'll just send the details (attached PDF) over to the <i>synthlab</i> admin to either shutdown or resize the VM	Point out the SynthDriver1 VM  Point to the Download as PDF  link	Active of Personnel of Strongered of Distract of Distr
Mention that Azure Advisor also has cost savings recommendations on unprovisioned ExpressRoute circuits, Idle VPN gateways and Reserved Instance (RI) purchases to surface additional savings.		



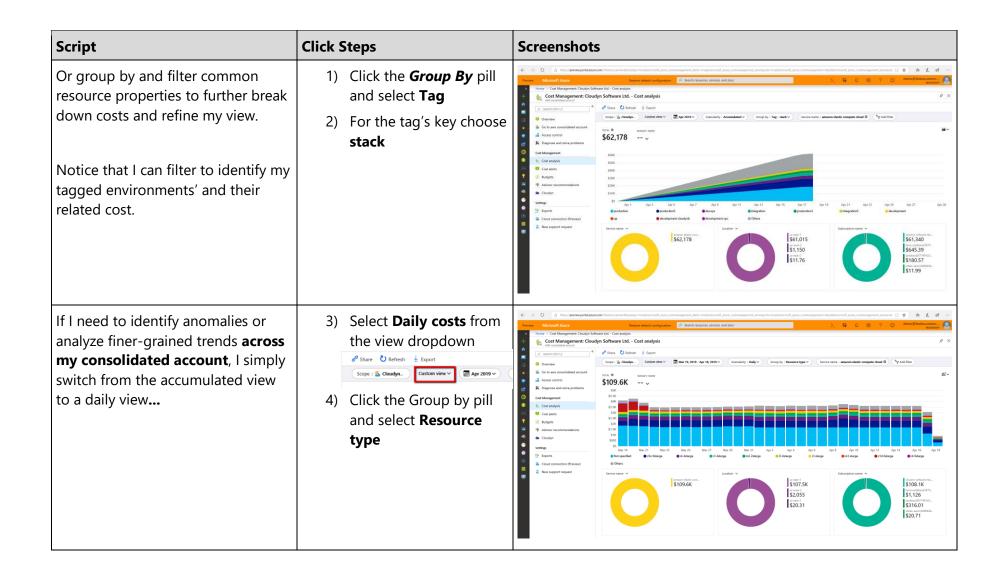
Script	Click Steps	Screenshots
You can also see any cost alerts that are generated in the Cost Alerts view  This will allow you to see who is nearing or exceeding their budgets in an aggregated view	1) Click on the Scope pill and navigate back to and select the Trey Research R&D Playground subscription.  2) Click on Cost Alerts from the left-hand menu	Cost Management   Billing   Cost Memory   Cost Management   Billing   Cost Managemen
Speaking of aggregated views, lets look at some of the new features in Cost Analysis, that highlight where your cost is being spent  You can see that this will give you an at-a-glance view into which resources utilization and their associated costs	1) Click on Cost Analysis from the menu items 2) Click on the Scope pill and navigate back to and select the Contoso (Demo) (8608480) enrollment. 3) In the date picker pill, select This quarter 4) In the Custom view drop down, select Cost by service	Cost analysis   Cost Analysi



# **Azure Cost Management Cross Cloud (AWS) Demo Steps**

With Amazon Web Services Cost and Usage report integration, you can monitor and control your AWS spending in Azure Cost Management. The integration allows a single location in the Azure portal where you can monitor and control spending for both Azure and AWS

Script	Click Steps	Screenshots
With 1-click, you can see a summary view of my accumulated costs to	From the Cost Management overview	← → ○ ○ ↑ Trips://perseq.port/date/accom/files/sept-resolverseal/, accom/persequent/, ac
date cross clouds (Azure & AWS)	1) Click on <b>Cost Analysis</b> (Focus on the main chart)	Contract Con
and get a quick, at-a-glance view of my costs broken down by service, location, and linked account name	2) Click on the <b>Scope</b> pill (top left) and select the <b>Cloudyn Software Ltd.</b> AWS Consolidated account	Obsolver recommendations   Side
Notice that I can drill into data and pivot on different attributes to get a holistic picture of my primary cost	Point out the pie charts	
drivers.	On the 1 <sup>st</sup> pie chart	
	<ol> <li>Click elastic compute cloud slice in the pie chart</li> </ol>	
	4) Click the <b>Group By</b> pill at the top and select <b>Meter subcategory</b>	



Script	Click Steps	Screenshots
Not only can I view my costs at the consolidated account level, I can also delve into costs at a linked accounts level to delve into an account's expenses  Notice that I can set budgets on consolidated account or linked accounts to ensure that the teams stay within the allotted financial constraints.	1) Click on the Scope pill (top left) and click on the Microsoft (root)  2) click on Trey Research and then select the Trey Research R&D Playground management group  Point out the budget line from the MONTHLY budget dotted red line	** Control Management Cost Management Recent h - Cost analysis  ** Cost Management Cost Management Recent h - Cost analysis  ** Cost Management Cost Management Recent h - Cost analysis  ** Cost Management Cost Management Recent h - Cost analysis  ** Cost Management Cost Management Recent h - Cost analysis  ** Cost Management Cost Management Recent h - Cost analysis  ** Cost Management Cost Management Recent h - Cost analysis  ** Cost Management Cost Management Recent h - Cost analysis  ** Cost Management Cost Management Recent h - Cost analysis  ** Cost Management Cost Management Recent h - Cost analysis  ** Cost Management Cost Management Recent h - Cost analysis  ** Cost Management Cost Management Recent h - Cost analysis  ** Cost Management Cost Management Recent h - Cost analysis  ** Sabs 1.60  ** Sabs 1.60  ** Cost Management Recent h - Cost analysis  ** Sabs 1.60  ** Cost Management Recent h - Cost analysis  ** Cost Management Recent h - Cost analysis  ** Sabs 1.60  ** Cost Management Recent h - Cost analysis  ** Cost Management Recent h - Cost Management Recen
You can view cross-cloud spends by selecting a management group scope,  Management groups is the only scope type that can host diverse types (offerIDs) of subscriptions and an AWS linked account	1) Click on the Scope pill (top left) and click on the Microsoft (root)  2) click on Cloud + Al Platform->Commerce + Ecosystems ->Azure Commercial Engineering Group and then select the Azure Cost Management management group  3) Click the Group by pill and select Provider	The content of the

Script	Click Steps	Screenshots
Budgets for AWS scopes (consolidated account and linked account) works the same way it works for EA and Subscription You can also place a budget on a management group that contains Azure and AWS accounts  Cost alerts aggregate alerts at different scopes, and allow you to investigate and remediate the alert	1) Click on Cost Management + Billing from the Azure portal menu (on left hand side) 2) Click on Cost Management from the menu items 3) Click on Budgets 4) Click on the Scope pill (top left) and click on Cloudyn Software Ltd. 5) Click on Cost alerts	Screenshots    Continue   Continu

Please note, the following features do not support AWS scopes

- Azure Advisor we do not provide AWS Trusted Advisor recommendations report
- Scheduled Export only export to CSV/Excel from cost analysis blade is supported

# **Azure Cost Management Showback (Private Preview)**

ACM Showback feature set is handling several scenarios where billing account owners would like to reflect different costs to their consumers, different from what the cloud provider charged them.

During the preview we are providing the ability to set a single markup/markdown with a scope-based filter, and to set a single cost allocation rule to distribute shared cost to it consumers.

Our Showback solution is running on the fly, meaning that we do not persist the Showback results, we calculate them when the request is coming. Therefore, they immediately active after the rule creation.

To access the preview, use this URL: <a href="https://aka.ms/showback/latest">https://aka.ms/showback/latest</a>

Please note EA's need to be whitelisted beforehand by Dev

Script	Click Steps	Screenshots
Custom Price  Custom price is working on 1st party charges only  After opening the Showback blade I would duplicate the browser tab two times.  In the first tab open Cost Analysis on the EA scope. In this tab we will show that billing account scopes are never affected by showback rules, it always shows the cost as it was charged by the provider	From the Cost Management Menu select Showback (Preview)  1) Select the EA billing account (8608480) scope  2) In the Default custom price enter 50% in section 2  3) Save  4) Go to the first duplicated tab (EA scope) and select the refresh button. Cost does not change	Minimal Rates    Cat Integration   About   Cat Integration   Cat Integration   About   Cat Integration   Cat Integration   About   Cat Integration   Cat

Script	Click Steps	Screenshots
In the second tab open Cost Analysis on Department <b>ACM.</b> in this tab we will show the rule impact All scopes below this billing account will be impacted including subscriptions, resource groups. All feature of ACM should support this rule, including Budget, Forecast, Exports	5) Go to the first duplicated tab (Department scope) and select the refresh button. Cost is <b>50%</b> higher	
In this scenario we are going to move cost from 2 subscriptions to 4 other subscription under a single billing account  The preview feature of the create experience is very useful in explaining what will happen after we create the rule, after selecting the Cost to allocate and the Targets play with the policy to see different ways to distribute the cost to allocate	From the Cost Management Showback (Preview) blade  1) Make sure the EA billing account (8608480) scope is selected  2) Click the add button to add a new Cost allocation rule  3) Give rule a name  4) In the Cost to Allocate select Subscription and Trey Research R&D Playground, Trey Research R&D Production  5) In the Targets select Subscription and Trey Research Corporate, Trey Research HR, Trey Research IT	Distribute evenly    The control of

Script	Click Steps	Screenshots
	<ul> <li>6) In the <b>Policy</b> select Distribute evenly, review the Targets pie</li> <li>7) In the <b>Policy</b> select Proportional to Total cost, review the Targets pie</li> </ul>	Manuscript Alares  Note 1 Cost Management at 20 M Cost Of Sell (1988) - Should a process of Acts of Sell (1988) - Should a process of Acts of Sell (1988) - Should a process of Sell (1988) - Should (1988) -
Cost Allocation in Cost Analysis  In preview we are still missing the ability to group by and filter by IsAllocate dimension, to distinguish between original cost and allocated cost  After opening the Showback blade I would duplicate the browser tab two times.  First tab with one of the Cost to Allocate subscriptions and I will note the Resource Types	From the Cost Management menu open Cost analysis blade  1) Make sure the EA billing account (8608480) scope is selected  2) Move to the first duplicated tab with Trey Research R&D Production (was selected as Cost to Allocate) as the scope  3) Note the list of Resource Types	
Second tab with of the Targets subscriptions grouped by Resource Type	<ul> <li>4) View total cost, should be 0</li> <li>5) Move to the first duplicated tab with Trey Research Finance (was</li> </ul>	

Script	Click Steps	Screenshots
	selected as Target) as the scope	
	6) Group by resource type to see new resource types cost that came from Trey Research R&D Production	

### **Additional Information & Links**

- Azure Cost Management Documentation <a href="https://docs.microsoft.com/en-us/azure/cost-management/">https://docs.microsoft.com/en-us/azure/cost-management/</a>
- Understand Cost Management data <a href="https://docs.microsoft.com/en-us/azure/cost-management/understand-cost-mgt-data">https://docs.microsoft.com/en-us/azure/cost-management/understand-cost-mgt-data</a>
- Azure Cost Management Best practices <a href="https://docs.microsoft.com/en-us/azure/cost-management/cost-mgt-best-practices">https://docs.microsoft.com/en-us/azure/cost-management/cost-mgt-best-practices</a>
- Azure Cost Management APIs <a href="https://docs.microsoft.com/en-us/rest/api/cost-management/">https://docs.microsoft.com/en-us/rest/api/cost-management/</a>
- Azure Advisor cost savings recommendations <a href="https://docs.microsoft.com/en-us/azure/advisor/advisor-cost-recommendations">https://docs.microsoft.com/en-us/azure/advisor/advisor-cost-recommendations</a>
- Set up and configure AWS Cost and Usage report integration <a href="https://docs.microsoft.com/azure/cost-management/aws-integration-set-up-configure">https://docs.microsoft.com/azure/cost-management/aws-integration-set-up-configure</a>
- Manage AWS costs and usage in Azure <a href="https://docs.microsoft.com/azure/cost-management/aws-integration-manage">https://docs.microsoft.com/azure/cost-management/aws-integration-manage</a>