# Challenge 4: Cost Management

# Scenario

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.

# Exercise 1: Azure Cost Management Overview

| **Click Steps** | **Screenshots** |
| --- | --- |
| From the Cost Management overview   1. Click on **Cost Analysis** (*Focus on the main chart*) 2. Click on the **Scope** pill *(top left)* and select the **Free Trial Subscription under App1**   *On the 1st pie chart*   1. Click virtual machines slice in the pie chart 2. Click the ***Group By*** pill at the top and select **Meter subcategory** |  |
| 1. Remove any filters 2. Click **Granularity** pill and select **Daily** 3. Click the ***Group By*** pill and select **Resource Type** 4. Change the chart to a line graph |  |
| **Exercise 2: Create a budget** | |
| 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 **Free Trial** |  |
| 1. On the Budgets menu, click **Add** 2. For Name, call it MonthlyBudget 3. Amount is 200 4. Alerts, make the % of Budget 75 and send an email to one of your accounts to get alerted when you are getting close. 5. Click **Create** |  |
| **Exercise 3: View a budget** | |
| *Back on the Budgets menu*   1. Click on the **Scope** pill and navigate back to and select the **Free Trial** subscription. 2. Click on **Budget** from the left-hand menu 3. Click on MonthlyBudget |  |
| **Exercise 4: Export to CSV** | |
| 1. Click on **Cost Analysis** from the menu items 2. Click on the **Scope** pill and navigate back to and select the **Free Trial** 3. In the date picker pill, select **This quarter** 4. Select the **Cost by service** dropdown and select **Cost by Resource** |  |
| 1. Click on **Export** action button 2. Select Download data to CSV |  |

# Additional Information & Links

* Azure Cost Management Documentation - <https://docs.microsoft.com/en-us/azure/cost-management/>
* Understand Cost Management data - <https://docs.microsoft.com/en-us/azure/cost-management/understand-cost-mgt-data>
* Azure Cost Management Best practices - <https://docs.microsoft.com/en-us/azure/cost-management/cost-mgt-best-practices>
* Azure Cost Management APIs - <https://docs.microsoft.com/en-us/rest/api/cost-management/>
* Azure Advisor cost savings recommendations - <https://docs.microsoft.com/en-us/azure/advisor/advisor-cost-recommendations>