



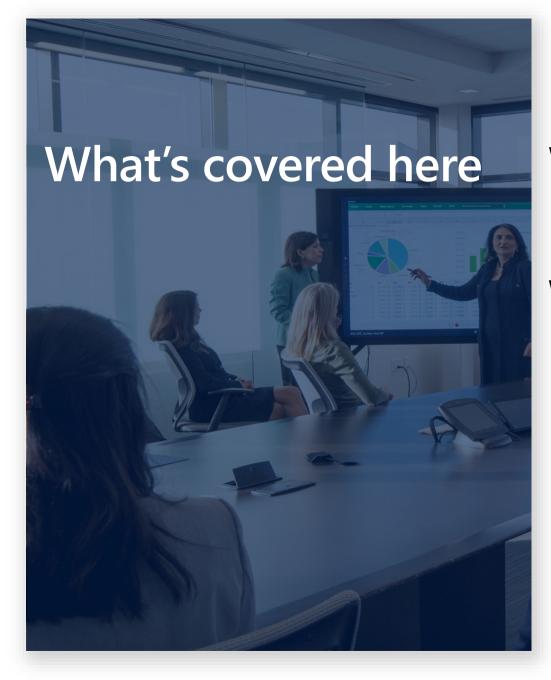


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What is Azure Cost Management (ACM)

Walkthrough of features currently available in ACM

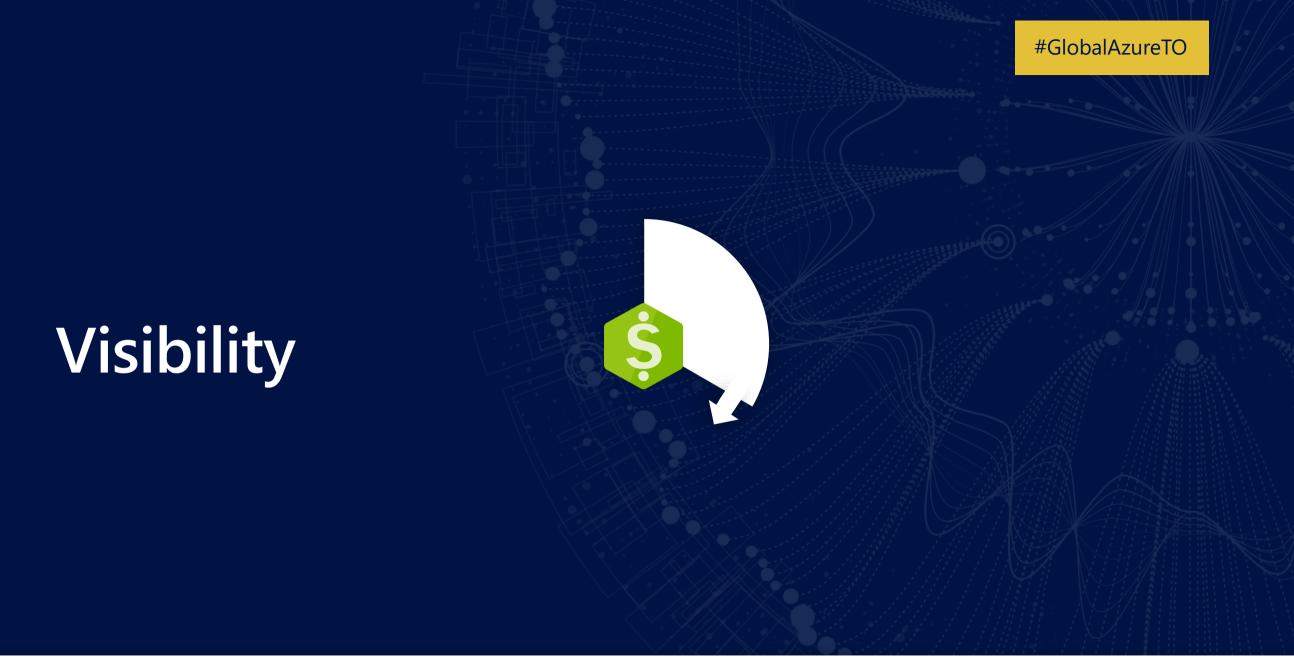
- Cost Analysis
- Exports
- Forecasting

- Budgets & Alerts
- Optimization
- Cost Analysis (preview)



"Cost management" is the continuous process of planning and controlling costs







Azure Cost Management



NEW

On by default

Built into Azure

Better experience for more users

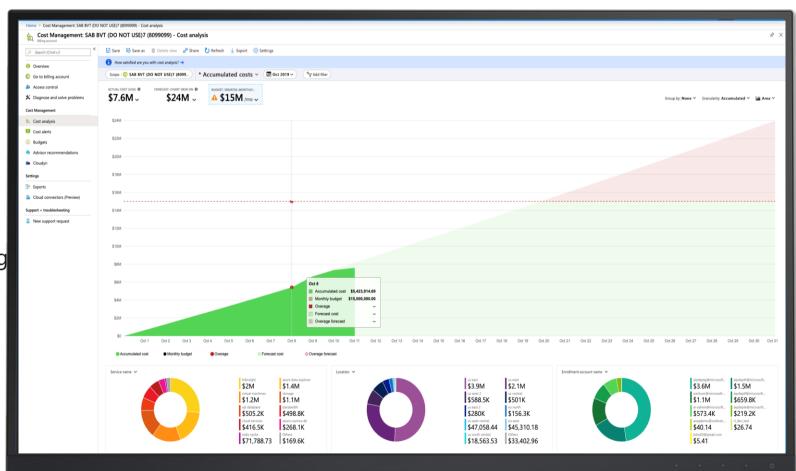
Richer analysis, budget alerting, forecasting

Integrated with Azure Advisor

Reduced data latency by up to 80%

Free to manage Azure costs

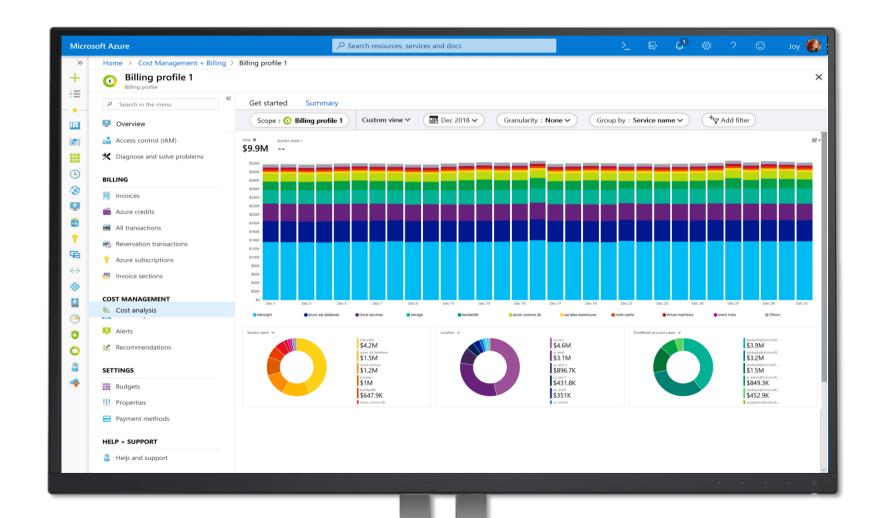
Least privileged access with RBAC



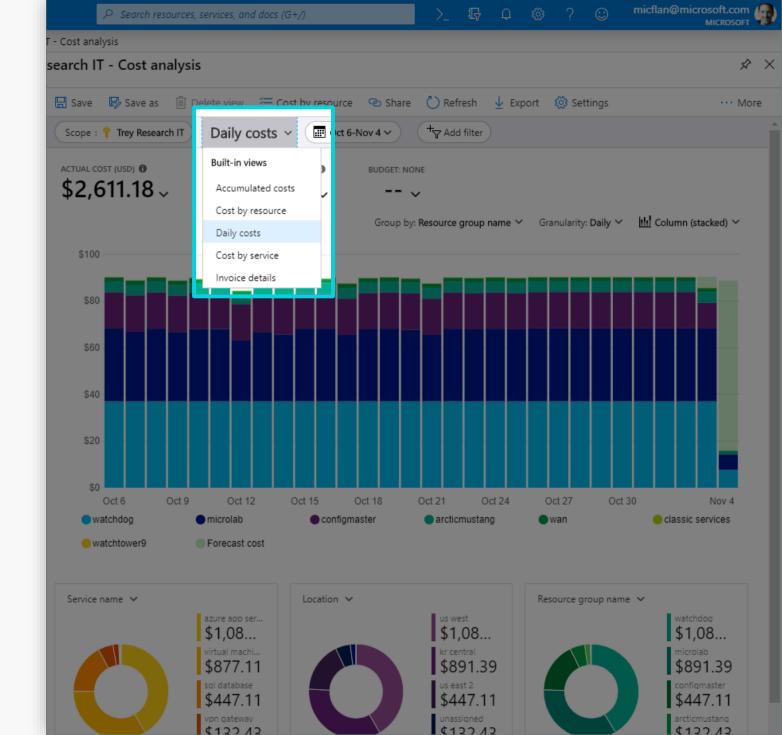
Cost Analysis



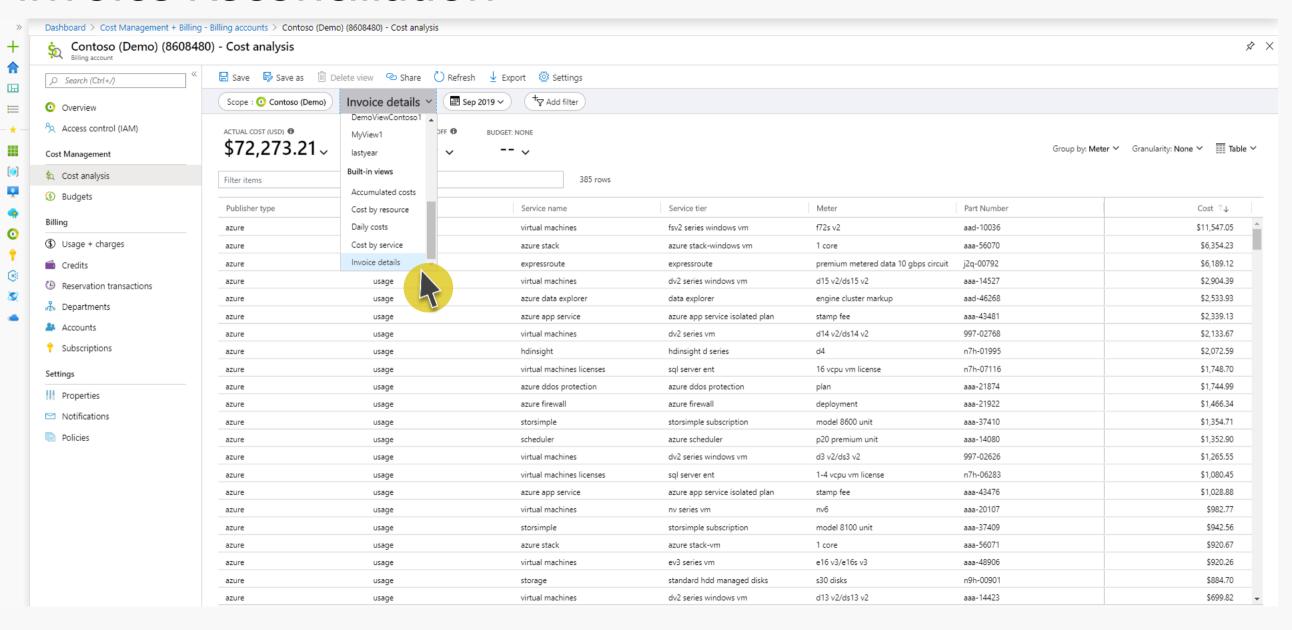
- Detailed Cost Exploration
- Group, filter and view by 20+ dimensions
- Date Ranges
- Daily, accumulated, monthly grain
- Saved and share reports
- Integrated with Budgets
- Enrollment, subscription, management group and resource group scopes



Start with built-in views, customize to explore

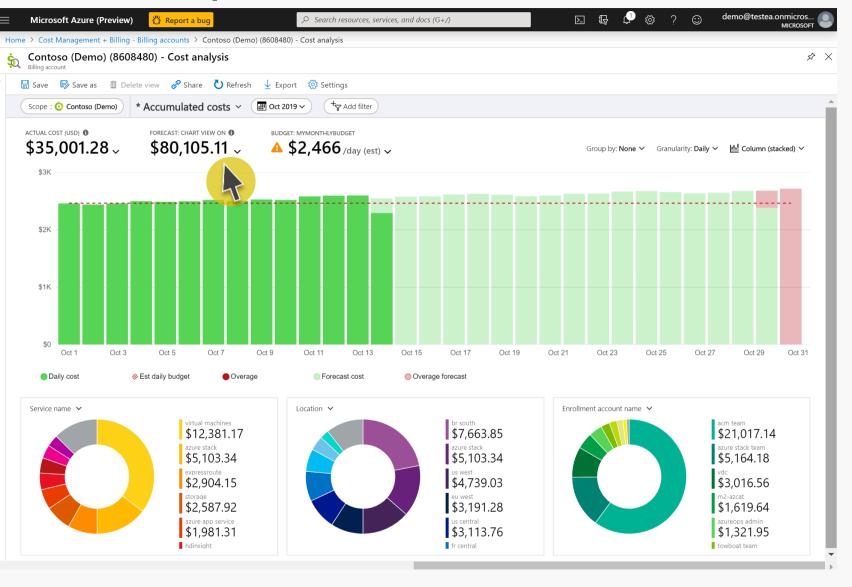


Invoice Reconciliation

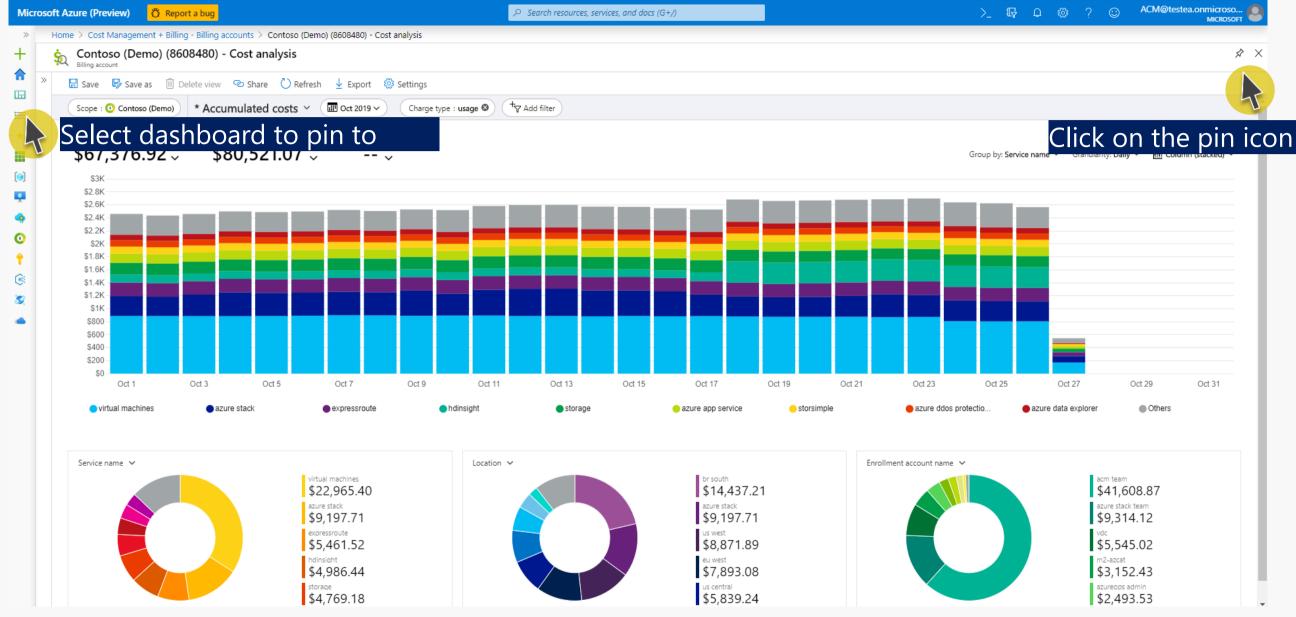


Cost Analysis – Forecasted Spend

- Forecast costs up to a year
- Forecast on available dimensions
- View forecast against a budget



Cost Management - Dashboard



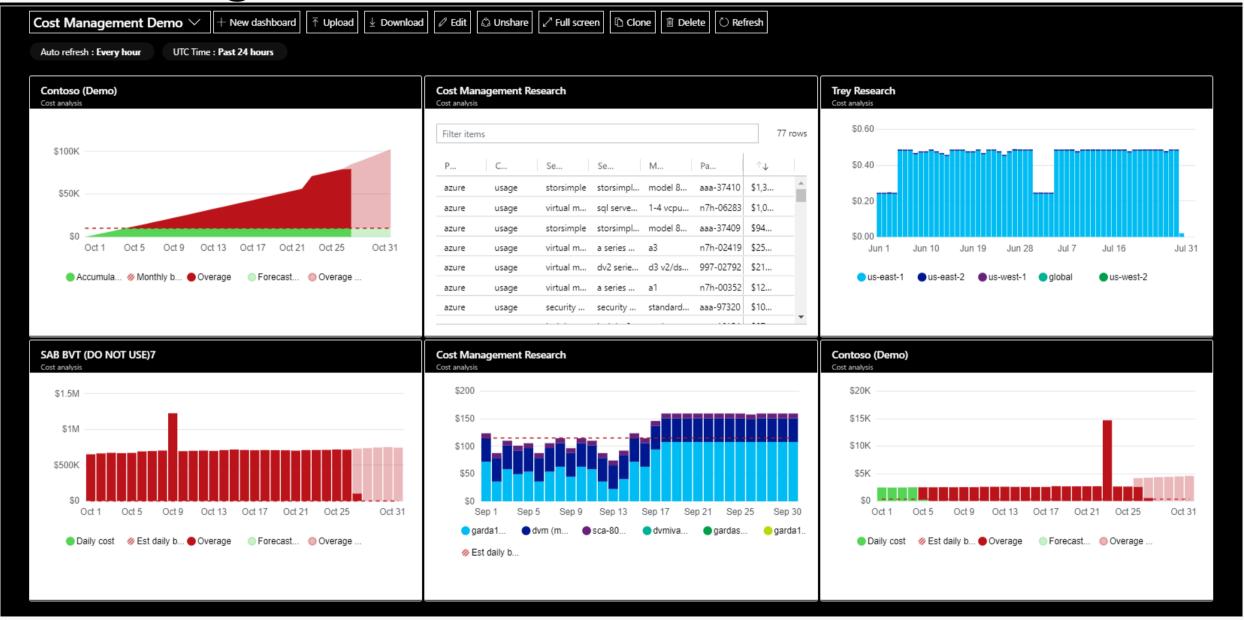
Cost Management - Dashboard

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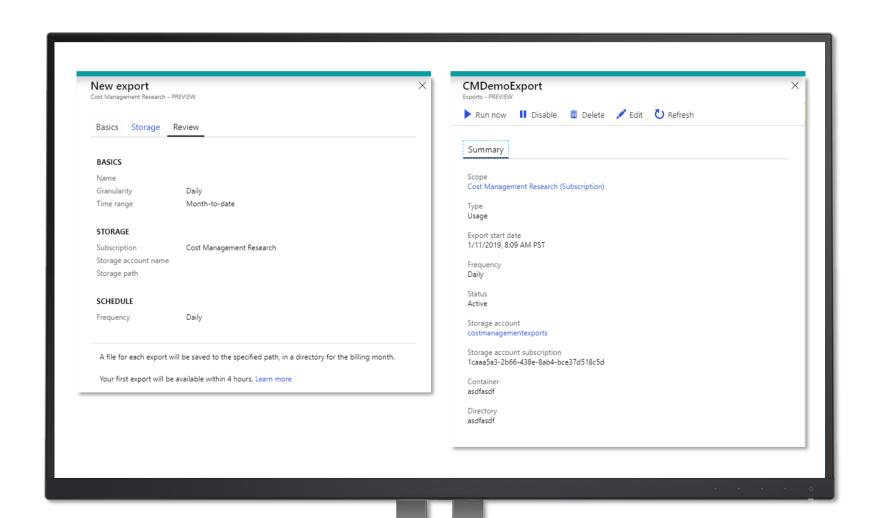
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Export data to your storage account

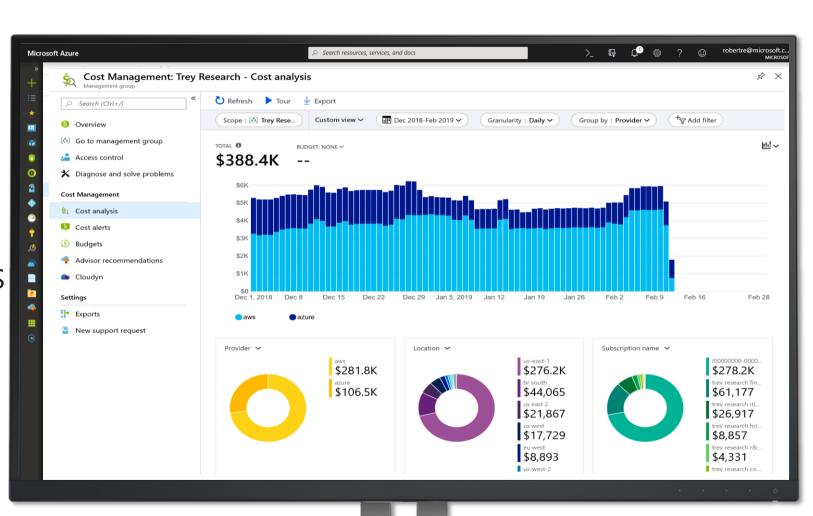


- Schedule exports for your data
- Automatically loaded to storage account
- Integrated into cost analysis



Cost Management support for Cross Cloud - AWS

- AWS spend is available in ACM
- ❖ Analyze costs across Azure & AWS
- Viewing & setting AWS spend







Keys to accountability





Management teams

Extend visibility to stakeholders

Management groups, RBAC, and tagging



Finance teams

Set clear goals

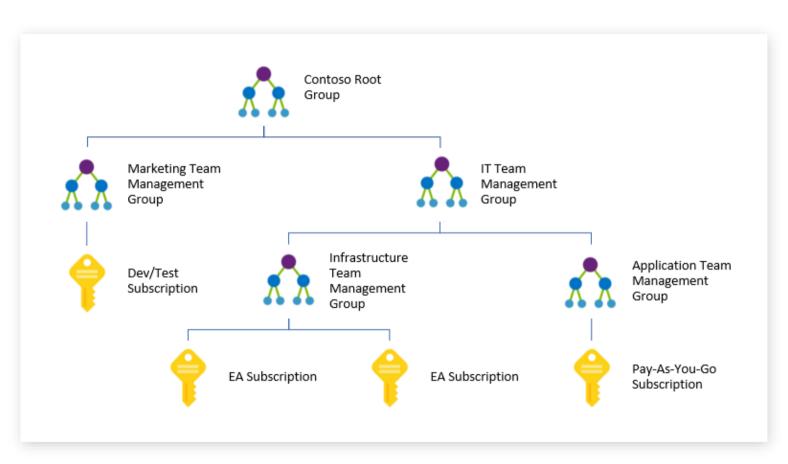
Budgets and alerts



Hold teams accountable for improvement

Management Groups to organize subscriptions





- Create a custom management hierarchy to fit your organization
- Enables RBAC, policies for tagging, cost analysis and budgets at any scope
- Shared with Policy, Security Center, Privileged Identity Management services

Least-privileged RBAC roles

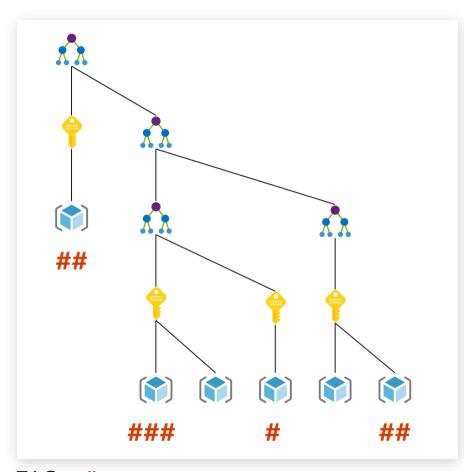


Azure RBAC Role	Description	Example Personas
Cost Management Reader	Read access to all cost mgmt. features, but no changes allowed	Azure service owner, it dev ops, finance analyst
Cost Management Contributor	In addition cost management reader can create budget and alert creation	Azure service owner, finance manager, dept. or product owner
Billing Reader	Has read-only access to billing information in Azure portal	Finance manager
Reader	Read access	
Contributor	Lets you view everything, but not make any changes	
Owner	Lets you manage everything, including access to resources	

With RBAC you can now grant access to users to only the scope(s) they need access to, all the way down to a specific Resource Group

Tags add context for cost analysis





TAG = #

Finance codes - CostCenter tag, etc.

Application context - AppService tag, etc.

Deployment context - Environment tag, etc.

Who is accountable - BusinessOwner tag, etc.

Tags should be enforced by configuration policies

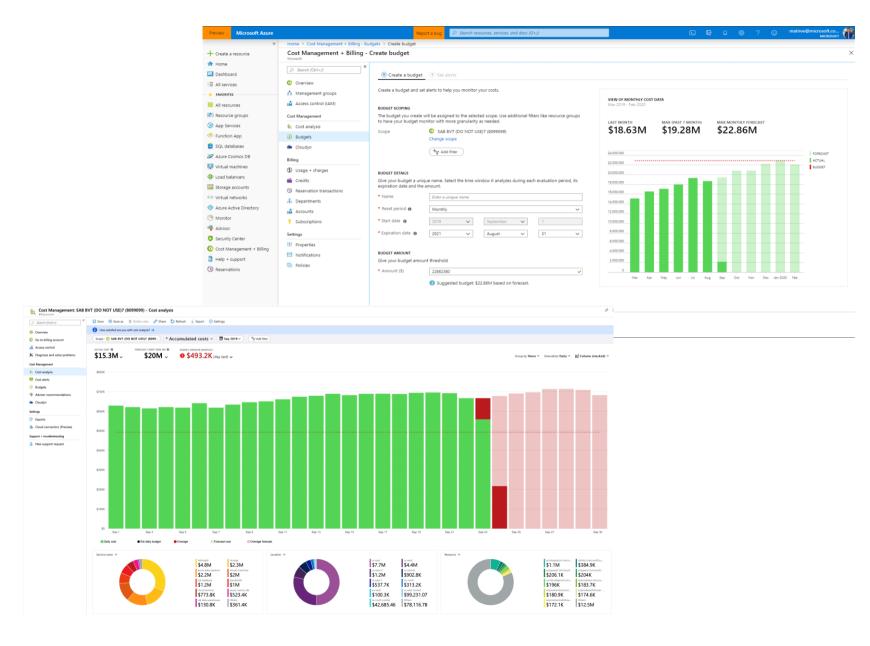
Use Azure Policy to set and track ARM tagging policies

MG, Subscription, RG scopes

- Enforce that tags exist
- Set default values for tags
- Audit if tags are missing

Budgets for monitoring and notifications

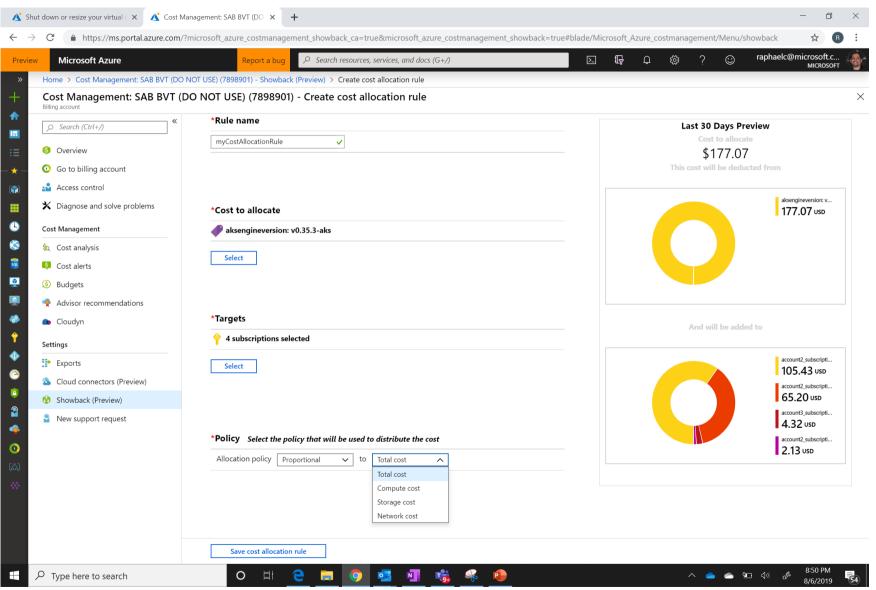
- Monitor your costs using budgets
- Get notified when threshold are met
- Automate with Action Groups
- Integrated into cost analysis
- Integrated with forecasts



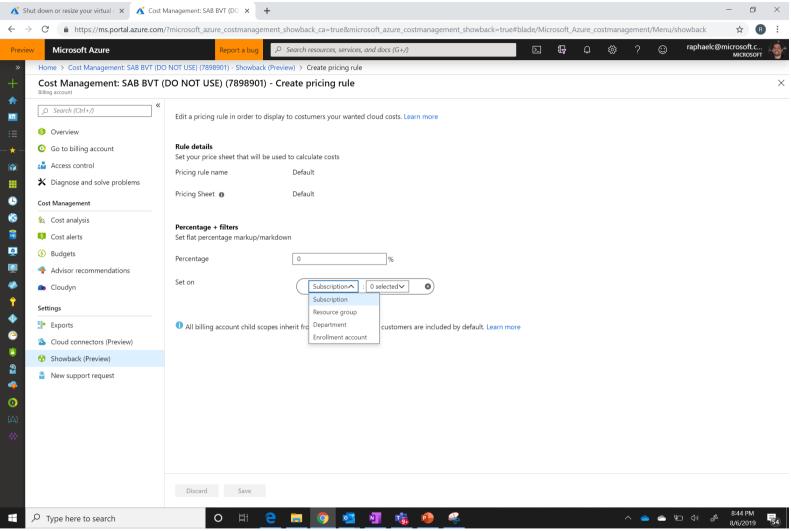
Cost Allocation (Private Preview)

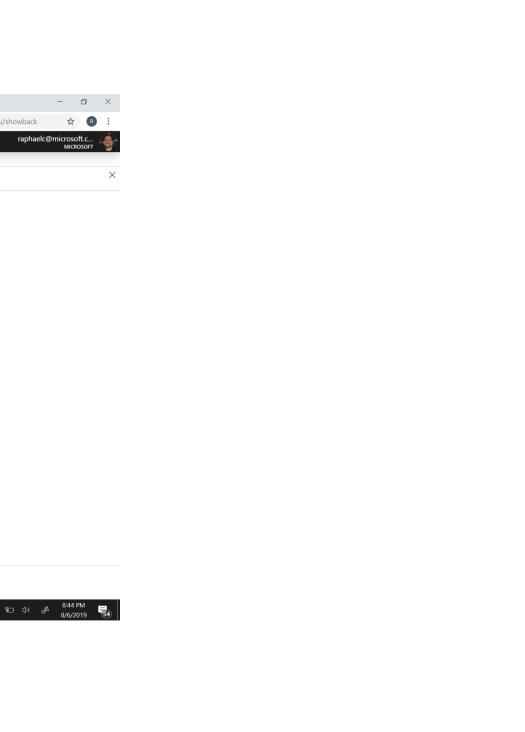
Allocate shared costs

- From a Subscriptions, Resource Groups or Tagged resource to a target Subscription, RG or tagged resource
- Allocation Rules supported
 - Prorate based on Total costs, compute, storage, network costs of target OR
 - Distribute costs evenly



Markups (Private Preview)









Cost optimization is a key to cloud success

The workload will run fine in all three VM sizes

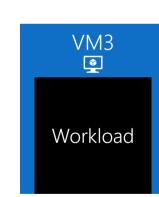
Which will a developer naturally choose?

Which will deliver more success to the business?

Which one will make managers and finance want more things in the cloud?







How do you know when there are opportunities to optimize?

Azure Advisor provides optimization recommendations



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Cost

Maximize the return of your IT budget investment



High Availability

Improve the availability of your business-critical applications



Security

Enhance protection of your Azure resources from potential security threats



Performance

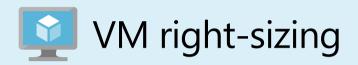
Optimize performance to make the most of your resources

<u>Cost Recommendations</u> provide cost savings opportunities and is deep linked in Cost Management Advisor also has other recommendations like Security, High Availability, Performance, Operation Excellence



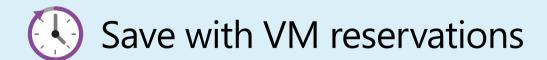
Do more with less by optimizing costs

Always start in Azure Advisor

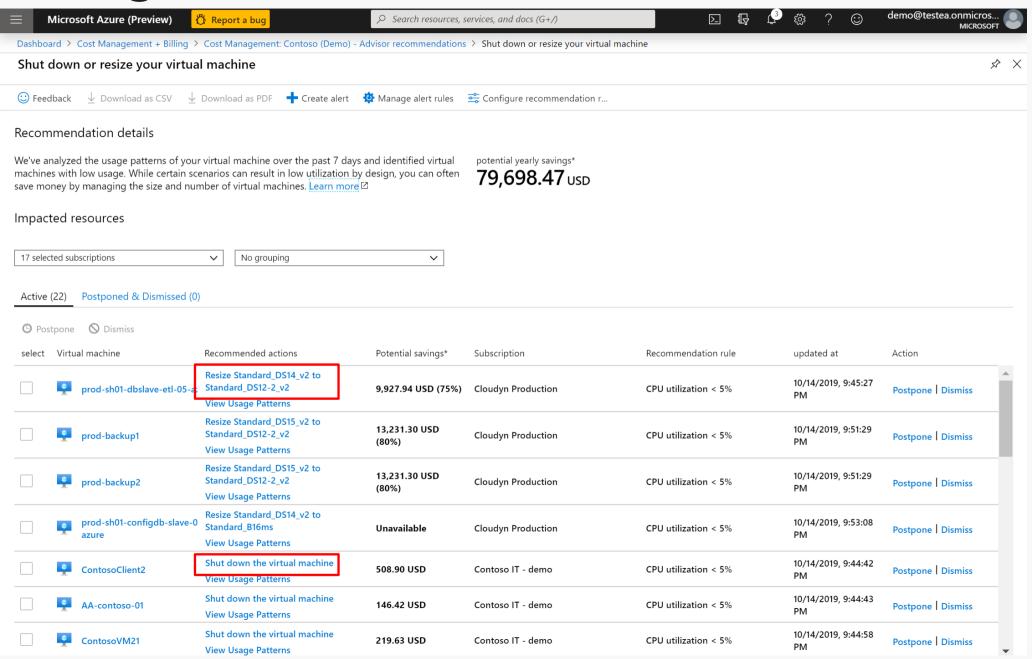




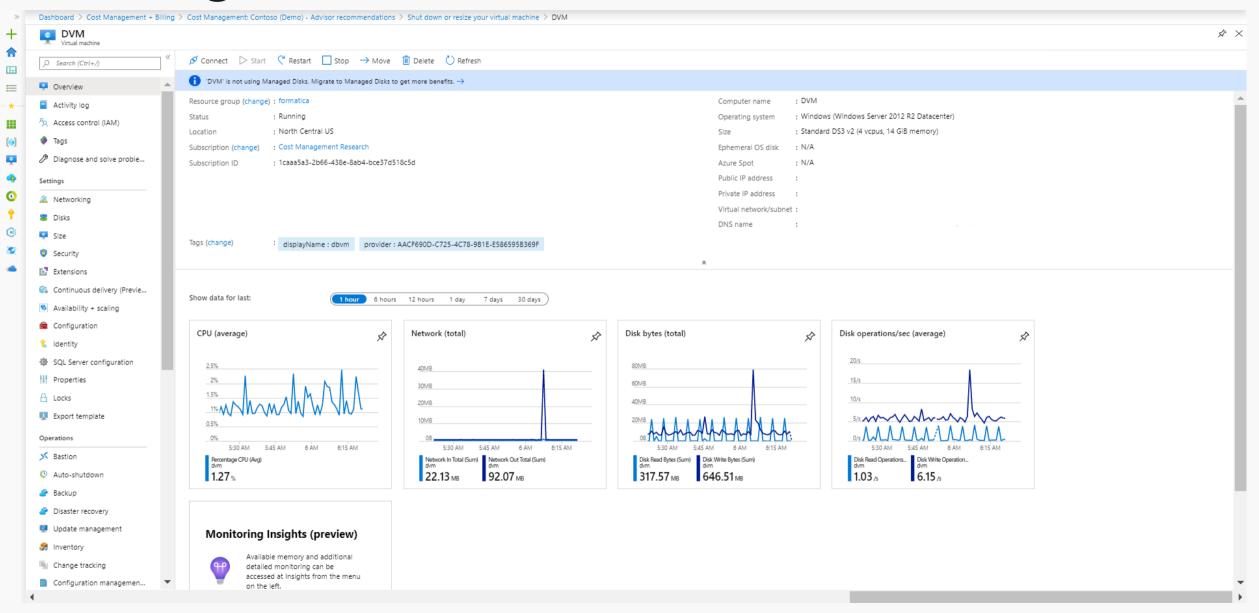
Use standard snapshots



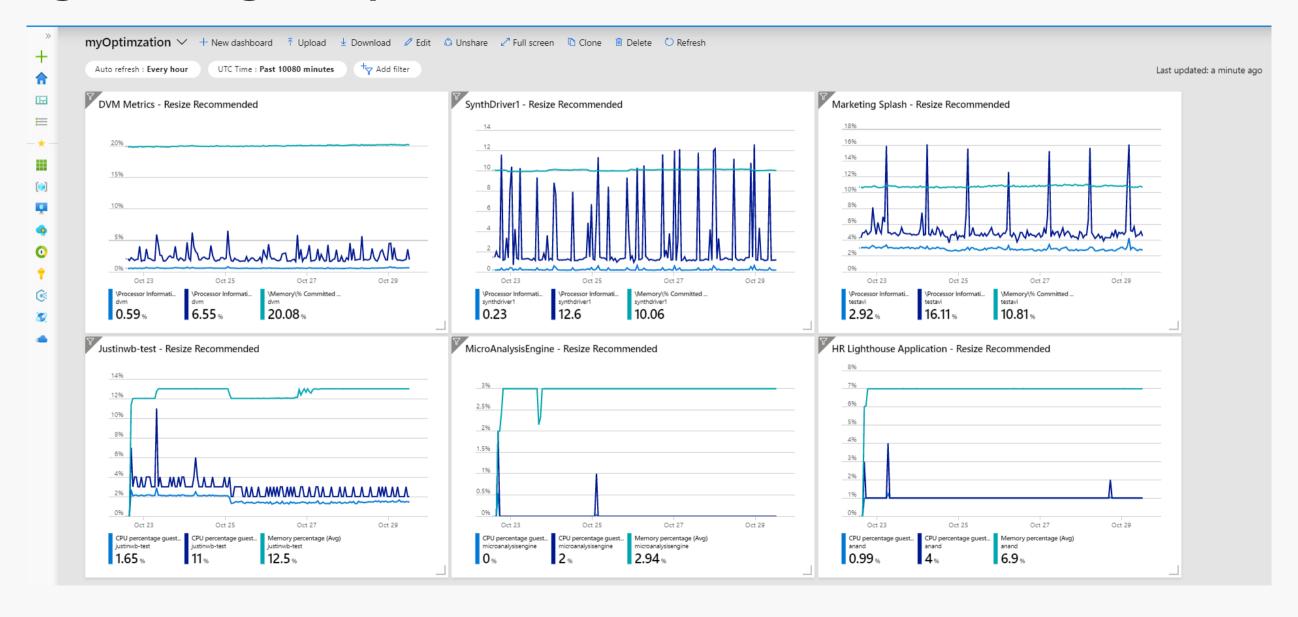
Right Sizing & Idle VM Shutdown recommendation



VM – Usage metrics

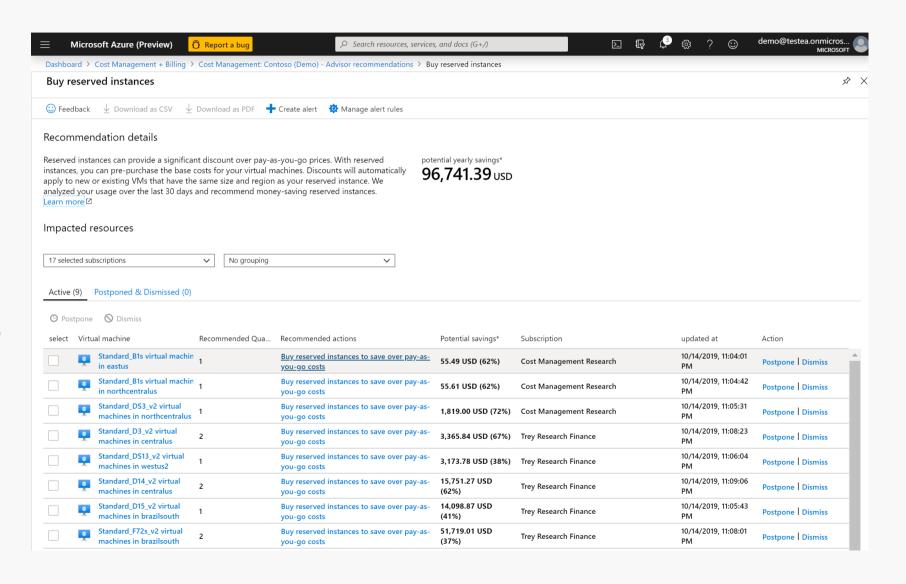


Right Sizing sample dashboard



Reserved Instance (RI) Recommendations

- Available in Azure Advisor
- Provides Qty, SKU & Location
- Potential savings on 3Y RI



What's new with Azure Reservations





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Significant cost savings up to 72% over pay-as-you-go models

Budget predictability and prioritized compute capacity

Flexibility to modify reservations and simplicity of purchase

- Azure Reservations offer capacity prioritization (for single scope)
- Multiple product families: Available for VMs, SQL Database and Cosmos DB.
- You can also pre-purchase at a discount SUSE Enterprise Linux
- Apply RI to Classic VMs, cloud services and Dev/Test subscriptions constrained cores (you can constrain cores of RIs you purchased and the rest of the cores can go to another box)

