

AZ-104 - Governance and Compliance - Managing Azure Costs

Introduction to analyzing costs and creating budgets with Microsoft Cost Management

Describe cost management in Azure

Different components on Azure cost model

- **Subscription type:** Free, Pay as you go, Enterprise agreement, and Cloud Solution Provider (CSP).
- **Resource type:** For example, storage account blob storage vs Table Storage.
- **Usage Meters:** Utilities like overall CPU time, ingress/egress network traffic and disk size.
- **Resource Usage:** The cost of actually using a resource.
- **Location:** The cost for various services vary across geographical regions.

Best Practices

Select the appropriate resource for the use case.

Understand needs (sizing).

De-allocate resources when not needed.

Use cloud capabilities where possible(e.g., scalability, elasticity).

Plan your cost prior to purchase.

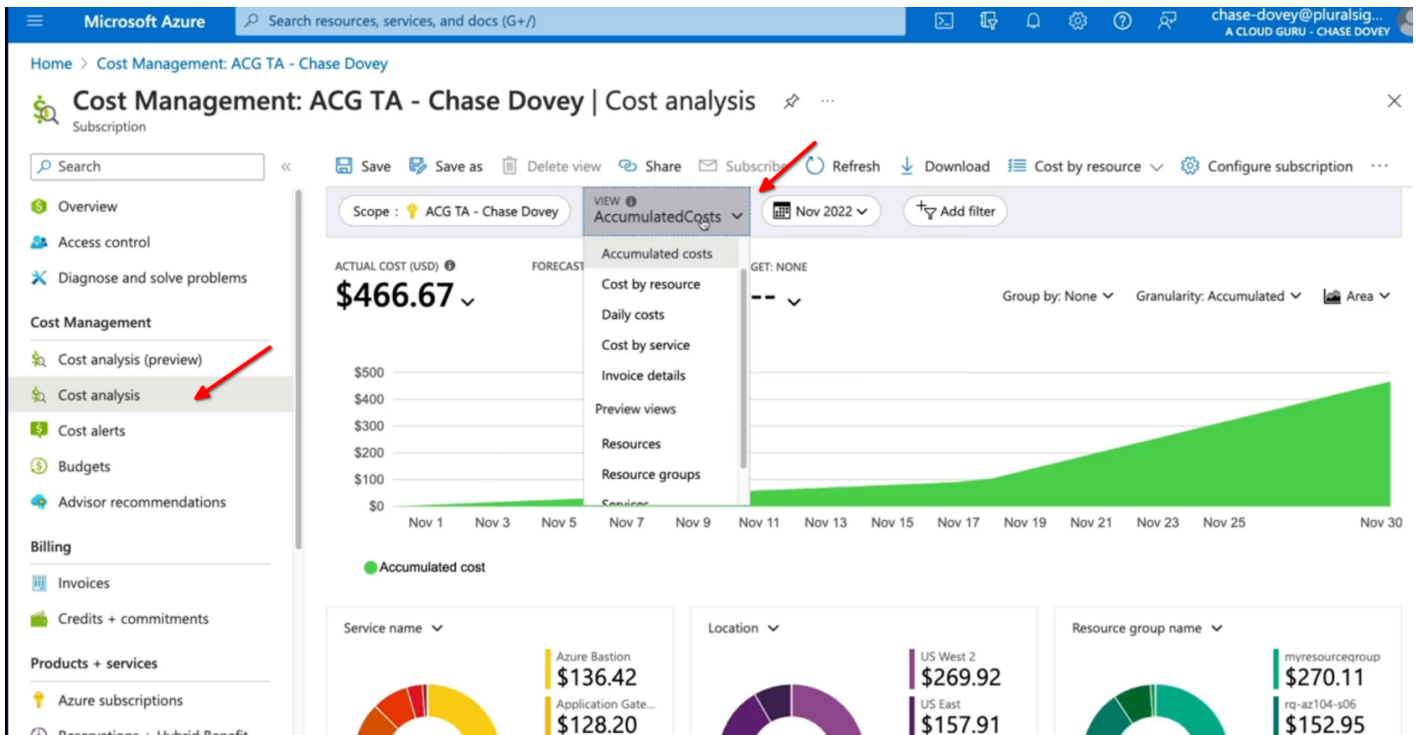
Cost Tools

Pricing Calculator.

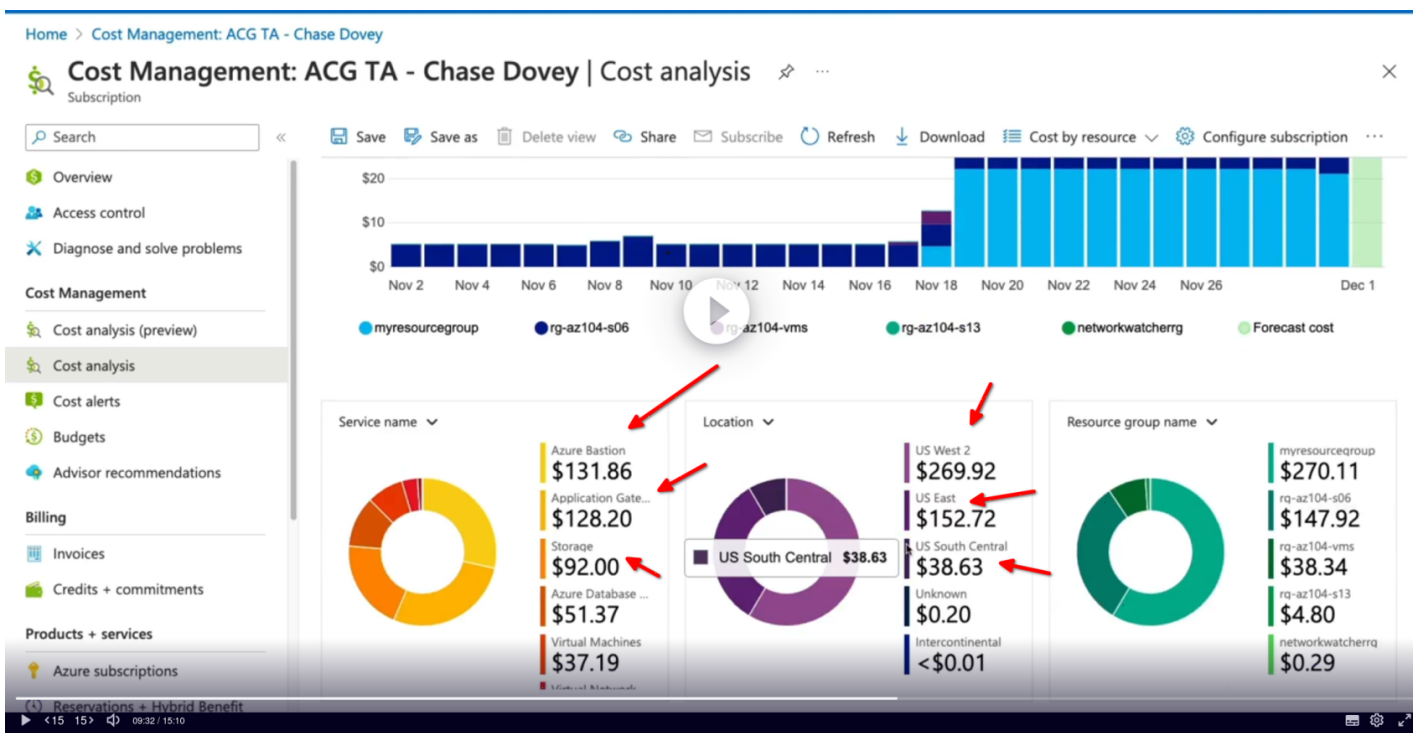
Total cost of Ownership (TCO) calculator.

Microsoft Cost Management (Analyze costs and create Budgets)

Inside Azure Portal search for cost management then go to cost analysis



We can identify different costs per service, resource groups, locations, etc



Using the pricing calculator

Pricing Calculator

Featured

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

Hybrid + multicloud

 **Virtual Machines**

Provision Windows and Linux virtual machines in seconds

 **App Service**

Quickly create powerful cloud apps for web and mobile

 **Azure Functions**

Process events with serverless code

 **Storage Accounts**

Durable, highly available and massively scalable cloud storage

 **Azure Cosmos DB**

Fast NoSQL database with open APIs for any scale

 **Azure AI services**

Deploy high-quality AI models as APIs

 **Azure SQL Database**

Managed, intelligent SQL in the cloud

 **Azure Kubernetes Service (AKS)**

Build and scale with managed Kubernetes

 **Azure Cost Management and Billing**

Manage your cloud spending with confidence

Using the TCO Calculator

TCO Calculator

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.

Workload 1

Workload ⓘ

Environment ⓘ

Operating system ⓘ

Operating System License ⓘ

Servers ⓘ

Procs per server ⓘ

Windows/Linux Server ▾

Physical Servers ▾

Windows ▾

Datacenter ▾

1 ▾
(1 - 9999)

1 ▾
(1 - 4)

Core(s) per proc ⓘ

RAM (GB) ⓘ

Optimize by ⓘ

GPU ⓘ

Windows Server 2008/2008 R2 ⓘ

1 ▾
(1 - 8)

1 ▾
(1 - 448)

CPU ▾

None ▾

☒

+ 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.

Database 1

Source

Database ⓘ

License ⓘ

Environment ⓘ

Operating system ⓘ

Operating System License ⓘ

Servers ⓘ

Microsoft SQL Server ▾

Enterprise ▾

Physical Servers ▾

Windows ▾

Datacenter ▾

1 ▾
(1 - 9999)

Procs per server ⓘ

Core(s) per proc ⓘ

RAM (GB) ⓘ

Optimize by ⓘ

SQL Server 2008/2008 R2 ⓘ

1 ▾
(1 - 4)

1 ▾
(1 - 8)

1 ▾
(1 - 448)

CPU ▾

☒

Destination