**Microsoft Azure Fundamentals: Managing Azure Costs**

**Azure Cost Management**

* Cloud charges are associated with an Azure subscription
  + A subscription is required when deploying resources
* Running cloud services incur charges
  + Virtual machine (VM) cost is quoted per hour but is charged by the second
* Storage costs are incurred 24/7
* Cost budgets can shut down VMs when thresholds are reached
* Scaling vertically always incurs more cost
  + VMs
  + Databases

**Reserved Pricing**

* VM, Azure MySQL database compute costs
* Azure storage reserved capacity

**Azure VM Reserved Pricing**

* Recommended for constant resource usage (storage account, VM, database, and so on)
* Commitment of one to three years
* For VMs, if size/series and region match existing or new VMs, reserved pricing applies up to purchased quantity

**Azure Spot Virtual Machines**

* Takes advantage of unused compute capacity at up to a 90% discount
* Uptime is not guaranteed, not suitable for workloads that cannot handle interruptions
* Sets a maximum price that, when exceeded, deallocates or deletes your VM depending on the configured eviction policy

**Azure Spot Virtual Machine Configuration**

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KI-generierte Inhalte können fehlerhaft sein.**

**Azure Pricing Calculator**

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**Azure Cost Analysis**

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**Azure Cost Budgets**

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**Working with Reserved Virtual Machine (VM) Instances**

Azure Portal:

Reservations 🡪 Add 🡪 Virtual machine

**Analyzing Cloud Computing Charges in the Portal**

Azure Portal:

Subscriptions 🡪 Azure subscription 1 🡪 Const analysis

**Tagging Azure Resource**

Azure Portal:

Resource Groups 🡪 „liveresults“ 🡪 Tags (edit)

Subscriptions 🡪 „Azure subscription 1“ 🡪 Cost analysis 🡪 Add filter

**Tagging Azure Resources Using the Portal**

Resource Groups 🡪 „statistics“ 🡪 „dms-statistics“ (resource in resource) 🡪 Add tags

**Tagging Azure Resources Using the CLI**

Az storage account show -g sbdemo1103 -n sbdemo1103

Az storage account update -g sbdemo1103 -n sbdemo1103 --tags foo=bar

Az storage account update -g sbdemo1103 -n sbdemo1103 --tags foo=baz (EDIT TAG)

Az storage account update -g sbdemo1103 -n sbdemo1103 --tags qaz=baz (EDIT TAG)

Az storage account update -g sbdemo1103 -n sbdemo1103 --tags (DELETE TAG)

**Tagging Azure Resources Using PowerShell**

(Get-AzStorageAccount -ResourceGroupName sbdemo1103 -Name sbdemo1103).Tags

(Set-AzStorageAccount -ResourceGroupName sbdemo1103 -Name sbdemo1103 -Tags @{„foo“=“bar}).Tags

(Set-AzStorageAccount -ResourceGroupName sbdemo1103 -Name sbdemo1103 -Tags @{„foo“=“baz}).Tags (EDIT TAG)

(Set-AzStorageAccount -ResourceGroupName sbdemo1103 -Name sbdemo1103 -Tags @{„qaz“=“bar}).Tags (EDIT TAG)

(Set-AzStorageAccount -ResourceGroupName sbdemo1103 -Name sbdemo1103 -Tags @{}).Tags (DELTE TAG)

**Creating an Azure Budget**

Subscriptions 🡪 „Azure subscription 1“ 🡪 Budgets 🡪 „dms-statistics“

Subscriptions 🡪 „Azure subscription 1“ 🡪 Budgets 🡪 Add budget

**Using the Azure Pricing and TCO Calculator**

Choose your resource in the Azure Pricing calculator to get prices